



CANADIAN COUNTY

# Mustang Public Schools

## 2012 Multi-Hazard Mitigation Plan Update



Flanagan & Associates, LLC  
Planning Consultants

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# Acknowledgements

Mustang Public Schools Multi-Hazards Mitigation Plan 2012 Update was made possible by a Hazard Mitigation Grant from the Oklahoma Department of Emergency Management and the Federal Emergency Management Agency, with local share funding from Mustang Public Schools.

The Plan was prepared by Canadian County and Mustang Public Schools under the direction of the Canadian County Commissioner's Office, with the participation and assistance of numerous agencies, organizations, and individuals, including:

## Mustang School Board

Seat #1 .....	Jim Davis
Seat #2 .....	Dona Zanotti
Seat #3 .....	Jefferey Johnson
Seat #4 .....	Amanada Strassel
Seat #5 .....	Chad Fulton

## Mustang School Administration

School Superintendent .....	Bonnie Lightfoot
Deputy Superintendent.....	Belinda Rogers
Director of Finance.....	Kay Medcalf
District Academic Officer .....	Charles Bradley
Communications Officer .....	Mary Leaver
Director of Operations.....	Ron Martin
Director of Bonds and Construction.....	Jeff Woodard
Director of Technology .....	Geromy Schrick

## Mustang School Principals

Mustang Elementary .....	Laquita Semmler
Valley Elementary .....	Pam McLaughlin
Lakehoma Elementary.....	Shawna Carter
Trails Elementary .....	Sondra Bivens
Creek Elementary .....	Meggan Wilson
Centennial Elementary .....	Neil Womack
South Middle School .....	Linda Wilkes
North Middle School .....	Dan Allen
Mustang Mid-High.....	Kenny Nelson
Mustang High School.....	Angela Hunt
Mustang Education Center .....	Michael Ossenkop

## Mustang School Staff Technical Advisory Committee (STAC)

Director of Operations.....	Ron Martin
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## G.7 Mustang School District

Mustang School District is in the southeast corner of Canadian County as shown in Locator Map G.7-1. The District is comprised of eleven schools. These are summarized in Table G.7-1 and in the paragraphs and sections that follow, providing an overview of the district, a survey of the general hazards that impact the entire district and a more detailed look at site-specific hazards for each of the schools.

### Section 1 Introduction

#### 1.1 Services Summary

The District provides public school education services for students grades PK through 12th grade. The District includes a high school, a mid-high school, two middle schools and six elementary schools. The District offers Pre-K at the Mustang Education Center.

#### 1.2 Boundaries

At its greatest extent, the district reaches from the Canadian River in the south to W. Reno Ave. in the north, and from the Canadian County line in the east to around Cimarron Rd. in the west.

#### 1.3 Population Summary

The District serves a population of 46,120 people. Table G.7-1 summarizes the enrollment, staff and location for Mustang Public Schools for the school year 2010-2011.

Figure G.7-1 Mustang School District Locator Map

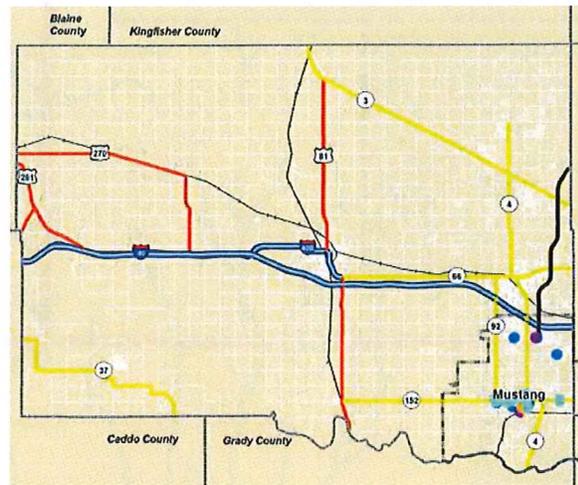
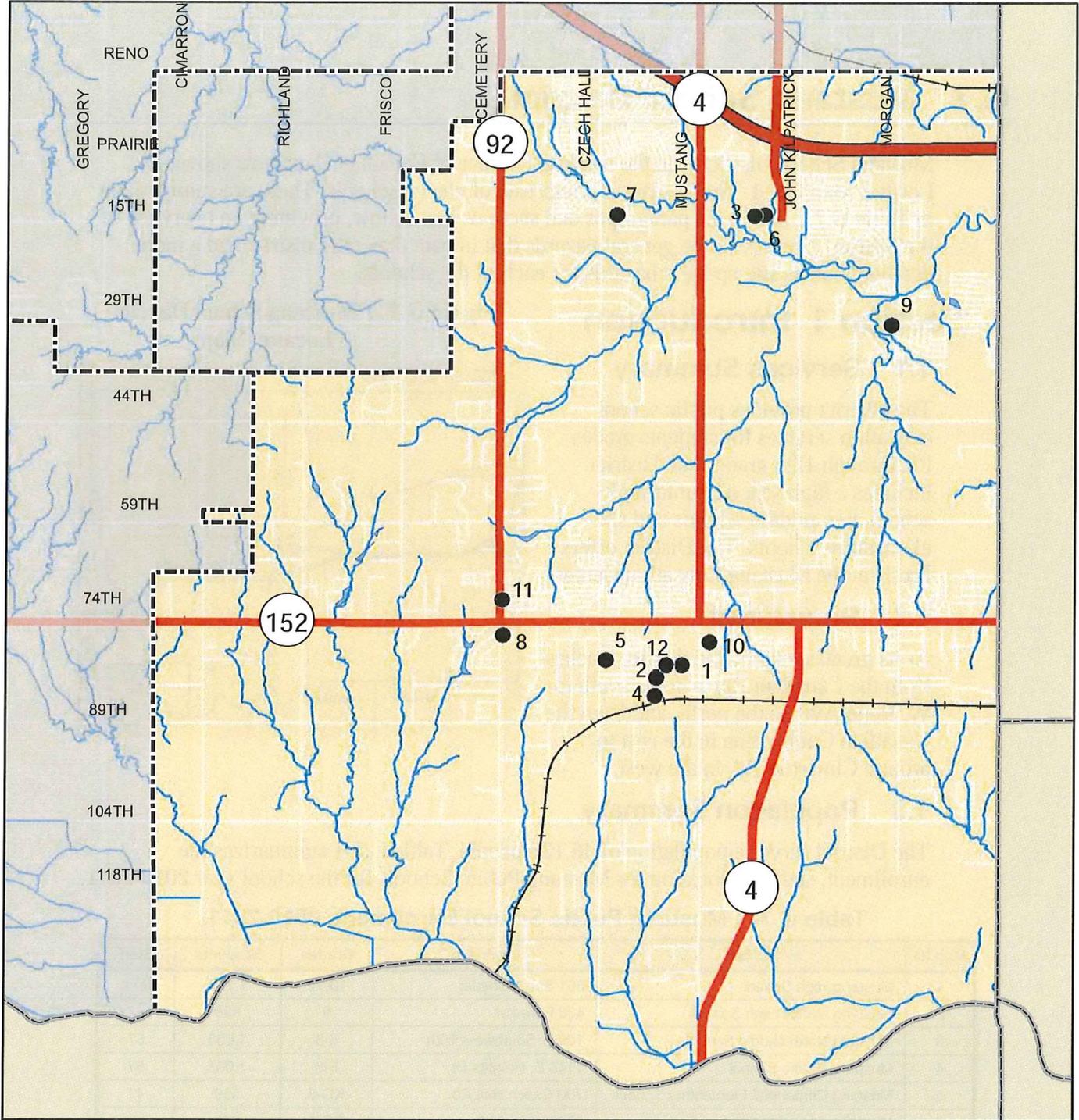


Table G.7-1 Mustang Public School Enrollment, 2010-2011

Map ID	School	Address	Grades	Students	Staff
1	Mustang High School	801 South Snyder	10-12	1,750	111
2	Mustang Middle High School	430 Forester	9	685	42
3	Mustang North Middle School	10901 Southwest 15th	6-8	1,008	57
4	Mustang Middle School	1145 S. Heights Dr.	6-8	1,003	57
5	Mustang Centennial Elementary School	700 Czech Hall Rd.	KG-5	559	41
6	Mustang Creek Elementary School	10821 SW 15th	KG-5	662	47
7	Mustang Trails Elementary School	12025 SW 15 <sup>th</sup>	KG-5	779	47
8	Mustang Lakehoma Elementary School	224 S. Clear Springs Rd.	KG-5	653	44
9	Mustang Valley Elementary School	3001 S. Morgan Rd.	KG-5	700	44
10	Mustang Elementary School	400 S. Mustang Rd.	KG-5	674	44
11	Mustang Education Center	400 N. Clear Springs Rd.	Pre-K	356	17
	TOTALS			8,829	551



**LEGEND**

- School Facility
- Water
- Highways
- Hydrology



**Figure G.7-2**  
**Mustang Public Schools**  
**Basemap**

## School Demographics

### Ethnicity

- Caucasian – 73%
- Native American – 11%
- Hispanic – 8%
- Asian – 6%
- African American – 3%

### Other Census Data

- Poverty Rate – 5%
- Unemployment Rate – 4%
- Single Parent Families – 23%



The Commons Area on the Mustang High School Campus scheduled for completion in 2012

## 1.4 Economic Summary

Chapter 2.2.1 expresses the general governing, financing and policy-making authority of public boards of education in Oklahoma.

The Mustang School District enrollment is growing at a more rapid than predicted pace – more than 5% in each of the last two years. The District maintains its bonding capacity near the maximum allowable and schedules its bond issues in such a manner as to add new bonded indebtedness as old debt is retired, thus maintaining a stable tax rate for property owners.

The District passed a \$97 million bond issue in 2012, following passage of a \$58 million issue in 2009. According to the District's Superintendent, the District's patrons have a strong record of supporting bond issues for school improvement.

## Section 2 Existing Mitigation Strategies

**National Flood Insurance Program/Community Rating System.** Mustang Public Schools are covered by the City of Mustang's participation in the NFIP program but they are not participants in the CRS Program.

**Floodplain Management.** Mustang Public Schools participates in and benefits from the City of Mustang regulations for the floodplains.

**StormReady Program.** Mustang Public Schools is not a StormReady community.

**FireWise Program.** Mustang Public Schools do not participate in the FireWise Program.

**Building Codes.** Mustang Public Schools abides by the codes governing the City of Mustang and the states required codes for the schools.

### Emergency Services

**Security.** Mustang Public Schools has authorized the Superintendent or Principal of the school to enforce security.

**Fire Protection.** The fire department of Mustang would be responsible for responding to a fire at Mustang Public Schools.

**Hospitals.** The closest hospital is South Community Hospital in Oklahoma City.

**Ambulance Service.** Oklahoma City EMSA provides ambulance service for Mustang Public Schools.

## Section 3 Hazards

The following subsections discuss general hazard information for the Mustang School District as a whole, which includes the Administration Building as ID 12. A summary appears in Table G.7-2. These general hazards are addressed more fully in Chapter 4.

Section 3 analyzes the vulnerability of each school and support facility to six site-specific hazards: Flood, Expansive Soils, Wildfire, Hazardous Materials, Dam Failure and Transportation. The narratives are accompanied by maps showing the sites of the schools and facilities and their relationships to the six site-specific hazards.

**Table G.7-2 Mustang School District Hazards Summary**

Name	Floods	Tornadoes	High Winds	Lightning	Hail	Winter Storms	Extreme Heat	Drought	Expansive Soils	Urban Fires	Wildfires	Earthquakes	Hazardous Material Sites	Dam Failures	Transportation Hazards
Mustang High School	X	X	X	X	X	X	X	X		X	X	X			X
Mustang Middle High School		X	X	X	X	X	X	X		X	X	X			X
Mustang North Middle School		X	X	X	X	X	X	X	X	X	X	X			X
Mustang Middle School		X	X	X	X	X	X	X		X	X	X			X
Mustang Centennial Elementary School		X	X	X	X	X	X	X	X	X	X	X			
Mustang Creek Elementary School		X	X	X	X	X	X	X	X	X	X	X			X
Mustang Trails Elementary School		X	X	X	X	X	X	X		X	X	X	X		
Mustang Lakehoma Elementary School		X	X	X	X	X	X	X	X	X	X	X			X
Mustang Valley Elementary School		X	X	X	X	X	X	X	X	X	X	X			
Mustang Elementary School		X	X	X	X	X	X	X		X	X	X			X
Mustang Education Center		X	X	X	X	X	X	X		X	X	X			X

### 3.1 Flood

Mustang School District schools are situated on the high ground that separates the Canadian and North Canadian watersheds. Streams drain northward into Mustang Creek and the North Canadian, and south into Bennett Creek, Foreman Creek, and tributaries of Cow Creek, which all flow into the Canadian River. No District buildings are within a 100-year floodplain. Mustang Public Schools consider a flood event with a depth of less than three feet of water on a one story building to be a minor severity event and a flood event with a depth greater than three feet on a one story building to be a major severity event for both urban and flash flooding. One district facility has been impacted by flooding as a result of heavy rainfall in the past on two different occasions, this is addressed below. Flooding could cause loss of contents in the school facilities and major economic damages. Computer equipment damaged could result in loss of critical records. Overall, Mustang's Public Schools, with the exception of the High School and Valley Elementary, have a Low vulnerability to and Low probability of the Flood hazard.

### **3.2 Tornado**

Tornadoes are a random hazard that can strike anywhere in Canadian County, including any of Mustang's schools. The County experienced 34 tornadoes between 1995 and 2010, including a devastating EF5 tornado in El Reno and Piedmont in May 2011. Given these frequencies, the County can expect 2.3 tornadoes each year, any one of which could impact Mustang schools. According to Mustang Schools Superintendent, no school facilities have in the past been directly impacted by tornado events. The district has four safe rooms at four campus sites: Centennial Elementary School, Mustang Middle School, Creek Elementary School, and Valley Elementary School. The safe rooms at Creek and Valley Elementary Schools meet or exceed the requirements of FEMA 361 and provide near-absolute protection to the students, staff, faculty and visitors of the schools. All other Mustang School facilities, aside from Mustang Education Center, utilize lower level class rooms as tornado shelters. The occupants of the Education Center follow the general rules for tornado sheltering; find an interior room, stay low to the ground, away from doors and windows. A direct hit on a school by an EF5 tornado such as in May 2011 would destroy any Mustang School facility not constructed to FEMA 361 specifications. Specific details of the impact of tornadoes on school structures are described in Chapter 4. Mustang Public School District considers a minor severity tornado to be a tornado of EF1 or lower on the Fujita Scale, and a major severity tornado to be a tornado of EF2 or greater on the Fujita Scale. The School District has a High vulnerability to and High probability of the Tornado hazard.

### **3.3 High Wind**

Like Tornadoes, High Wind is a general hazard that occurs commonly and randomly throughout the County. Canadian County reported 73 high wind events from 1995 through 2010. Winds as high as 92 mph have been reported in the City of Mustang. As indicated in Chapter 4, high winds can cause major damages to public school facilities. All schools and facilities have been impacted by high winds to varying degrees. Damages experienced in the past include roof damage, vent cap damage, HVAC roof top unit damage, outside scoreboard damage or fence damage. All schools in the district are subject to similar high wind damages in the future. Mustang Public School District considers wind force on the Beaufort Scale of 9 (55 mph) or below to be a minor severity wind force and wind force of greater than 9 on the Beaufort Scale to be a major severity wind force. The Mustang School District has a High vulnerability to and High probability of the High Wind hazard.

### **3.4 Lightning**

Lightning is another general hazard that accompanies severe thunderstorms, particularly in the spring and autumn months. There were nine damaging lightning events between 1995 and 2010 generated by the approximately 76 severe thunderstorms that passed through the area. The School District does not have lightning protection equipment or warning systems, leaving those persons participating in outdoor activities such as physical education class or school sporting events, vulnerable to loss of life or injury. All schools in the district have been affected by lightning strikes causing power failures or burned out equipment from the strike(s). Structures in the district face damage if struck directly. All schools in the district face loss of critical electronic equipment, such as

computers which contain important records. Based on the information provided by the National Weather Service, Chapter 4, Mustang Public Schools considers a negative cloud-to-ground flash with multiple return strokes, that causes no loss of life or injury and less than \$1,000 in property damage, to be a minor severity lightning event; and a positive cloud-to-ground flash with a continuous or high peak current, that causes loss of life and/or injury and more than \$1,000 property damage, to be a major severity lightning event. The School District has a High vulnerability to and High probability of the Lightning hazard.

### **3.5 Hail**

Hail is a general hazard that strikes randomly and more or less equally throughout the county, along with lightning, high winds and tornadoes. From 1995 through 2010, Canadian County reported 105 separate hail events. Hail can cause substantial damages to the structural components of school facilities. Most at risk are the roofing systems, glass doors, windows, and skylights. All schools in the district have received roof damage, vent cap damage, and HVAC roof top unit damage as a result of hail events. The schools face similar impacts in the future from hail events. More information about the impact of this hazard on public schools is included in Chapter 4. Mustang Public School District considers a minor severity hail storm to be a hail storm of H2 or lower on the Combined NOAA/TORRO Hailstorm Intensity Scale (See Chapter 4.5), and a major severity hail storm to be a hail storm greater than H2 on the Combined NOAA/TORRO Hailstorm Intensity Scale. Mustang School District has a High vulnerability to and High probability of the Hail hazard.

### **3.6 Severe Winter Storm**

From 1995 through 2010 Canadian County experienced 35 ice and snow events or an average of 2.3 winter storms each year. Because of the general and widespread nature of winter storms, it is assumed the Mustang School District has also experienced 35 ice and snow events. Schools have been shut down in the past due to inaccessibility to the site from high drifting snow, multiple layers of ice or ice under snow pack, power outages from ice and wind, and frozen pipes causing water damages. As indicated in Chapter 4 of this plan, public schools are in any case not in session during severe winter storms due to an allotted number of snow days so the populations are not immediately at risk. Mustang Schools are not equipped with back-up generators. Loss of power could result to extended closure of school facilities. Mustang Public School District considers a minor severity winter storm to be a winter storm that results in no loss of life, no loss of electricity or water service, and/or no transportation interruptions, and a major severity winter storm to be a winter storm that causes personal injury or death, water or power outages, travel disruptions, and/or damage to private property and public infrastructure. The District has a High vulnerability to and High probability of the Winter Storm hazard.

### **3.7 Extreme Heat**

From 1996 through 2011, Canadian County experienced four extreme heat events or an average of one every 3.7 years. Because extreme heat is a general and widespread hazard, it is assumed that the School District has experienced the same number of events. Mustang Schools have been impacted from power outages, A/C equipment failure and

water rationing by the local municipality during periods of extreme heat. All schools in the district face similar impacts as experienced in the past as a result of extreme heat events. Mustang Public School District considers a minor severity extreme heat event to be extreme heat of 95°F or less on the NOAA Heat Index, and a major severity extreme heat event to be extreme heat of greater than 95°F on the NOAA Heat Index that lasts for more than two weeks. Mustang Public School District has a Low vulnerability to and High probability of the Extreme Heat hazard.

### **3.8 Drought**

Canadian County experienced four droughts from 1996 to 2011. Given the widespread nature of the hazard, it is assumed that Mustang Public Schools has experienced the same number of droughts. Like Extreme Heat, Droughts usually have their peak impacts during the summer months, when schools are not in session. All school facilities have been impacted by drought in the past. Primary damages to the district as a result of drought include the loss of trees, shrubs, other vegetation, and sod. Similar impacts are likely in the future during drought events. Loss of vegetation can be costly to the district. Mustang Public School District considers a minor severity drought to be a drought greater than a -2 on the Palmer Drought Index and a major severity drought to be -2 or lower. The Index goes from -4 to +4, with lower numbers indicating greater drought. Mustang Schools are considered to have a Moderate vulnerability to and Moderate probability of the Drought hazard.

### **3.9 Expansive Soils**

All of the Mustang School District is situated on Low expansive soils with the exception of Lakehoma Elementary. Aside from Lakehoma Elementary, there have been no impacts to Schools because of the soils on which they were constructed. Potential damages include cracks in the foundation, cracked and broken pipes, and damage to sidewalks and parking lots. Any future damages, as available, will be included in the next plan update. Mustang Public School District considers a shrink-swell level of Moderate and below based upon NRCS soil data base to be of minor severity and a shrink-swell level of High or Very High based upon NRCS soil data base to be of major severity. The School District has a Low vulnerability to and a Low probability of the Expansive Soils hazard.

### **3.10 Urban Fire**

The School District is located in the Mustang Fire District. The City of Mustang Fire Department has one station with 15 uniformed fire fighters and 15 volunteers, with an ISO rating of 5. As indicated in Chapter 4, urban fires could cause complete structural loss to a school district. Even if the structure is not a total loss, all schools in the district face loss of contents including critical records. The subsections below include information about schools in the district that do or do not have fire alarms or sprinkler systems. The vast majority of the facilities are equipped with at least fire alarms; some of the schools also have sprinkler systems installed. Mustang Public School District considers a minor severity structure fire to be structure fire that results in no loss of life or injury and/or \$5,000 or less in damages, and a major severity structure fire to be a structure fire that causes loss of life or injury and/or more than \$5,000 in damages. None of the schools in the district have been impacted by urban fires in the past. Due to

adequate fire hydrant placement and fire suppression capabilities, the School District is considered to have a Low vulnerability to and High probability of the Urban Fire hazard.

### **3.11 Wildfire**

As Wildfire is a site-specific hazard, each school has its own vulnerability assessment, based on its situation and surroundings and each is independently evaluated in Section 4. The Mustang School District Administration Office is located on S. Heights Dr. and W. Juniper Dr., surrounded by parking lots and neighborhoods. The Administration Office has no vulnerability to the Wildfire hazard. Mustang Public School District considers a reading of Moderate and below on the USDA Fire Danger Rating system to be a minor severity danger of wildfire, and a rating of above Moderate on the Fire Danger Rating System to be a of major severity danger of wildfire. Mustang Schools have in the past been on lock down due to surrounding wildfires and high vegetation. Bus routes have also been suspended due to smoke and fires blocking bus routes. All schools in the district face the same impacts as experienced in the past. Overall, Mustang Public Schools have a Moderate vulnerability and Moderate probability of the Wildfire hazard.

### **3.12 Earthquake**

Earthquake is considered a general hazard that is relatively unpredictable and usually impacts a wide area. Canadian County recorded 28 earthquakes between 1995 and 2009, followed by cluster of 11 quakes on March 11-12, 2010. One of these events ("unfelt") had its epicenter within the corporate limits of Mustang. As mentioned in Chapter 4, according to HAZUS an earthquake would have minimal impact on any public school facility in Canadian County. Minimal impacts would include falling objects based on the intensity of the quake. Mustang Public Schools consider an earthquake of 4.8 magnitude and less on the Richter Scale a minor severity earthquake and an earthquake of a 4.8 magnitude or more on the Scale to be an event of major severity. No facilities in the district have been impacted by any of the earthquakes that have occurred in Canadian County. Mustang School District is considered to have a Low vulnerability to and Low probability of the Earthquake hazard.

### **3.13 Hazardous Materials**

There are two Tier II sites in the City of Mustang, neither of which contains extremely hazardous materials (EHS). The School District is considered to have a Low vulnerability to and Low probability of the Fixed-Site Hazardous Materials hazard. However, there are two schools in the District that *are* vulnerable to this hazard, both located outside the Mustang City Limits. The schools are Mustang Valley Elementary and Mustang Trails Elementary. No schools or structures in the district have been impacted by this hazard.

Mustang Public School District considers a minor severity fixed-site hazardous materials incident to be an incident that is unlikely to cause severe casualties, or which meets the *Emergency Response Guidebook* definition of a "small spill," and a major severity fixed-site hazardous materials incident be an incident in which there is a release of a toxic chemical which has the likelihood of producing serious injury or death and/or which meets the definition of a "large spill" for a particular chemical, according to the most current edition of the *Guidebook*. As this is a site-specific hazard, each of these schools is independently evaluated in Section 3.

### **3.14 Dam Failure**

There are no dams whose failure would impact Mustang School District. No schools or structures in the district have been impacted by this hazard. Mustang Public Schools are considered to have no vulnerability to and no probability of the Dam Failure hazard.

### **3.15 Transportation**

Approximately 10 Mustang Public Schools are within the quarter mile buffer of a major transportation corridor. The vulnerability of each school is independently evaluated in Chapter 3. No schools or structures in the district have been impacted by this hazard. Mustang Public School District considers a minor severity transportation event to be one where detours are less than half a mile, traffic disruption less than half an hour, hazardous materials are contained within a quarter mile, and there is no loss of life or major injury. A major severity incident is one where detours exceed half an hour, traffic disruption is more than half an hour, hazardous materials releases impact an area greater than a quarter mile, and/or there is loss of life or major injury. A transportation incident occurring within the vicinity of Mustang Schools could cause shelter in place or evacuation procedures to be implemented. An event could also cause busses to be rerouted. The District has a Moderate vulnerability to and Moderate probability of the Transportation hazard.

### **3.16 Hazards Summary**

To provide a visual perspective of all potential hazards within the boundaries of the entire Mustang School District, a District-wide Hazards Composite Map is presented in Figure G.7-3.

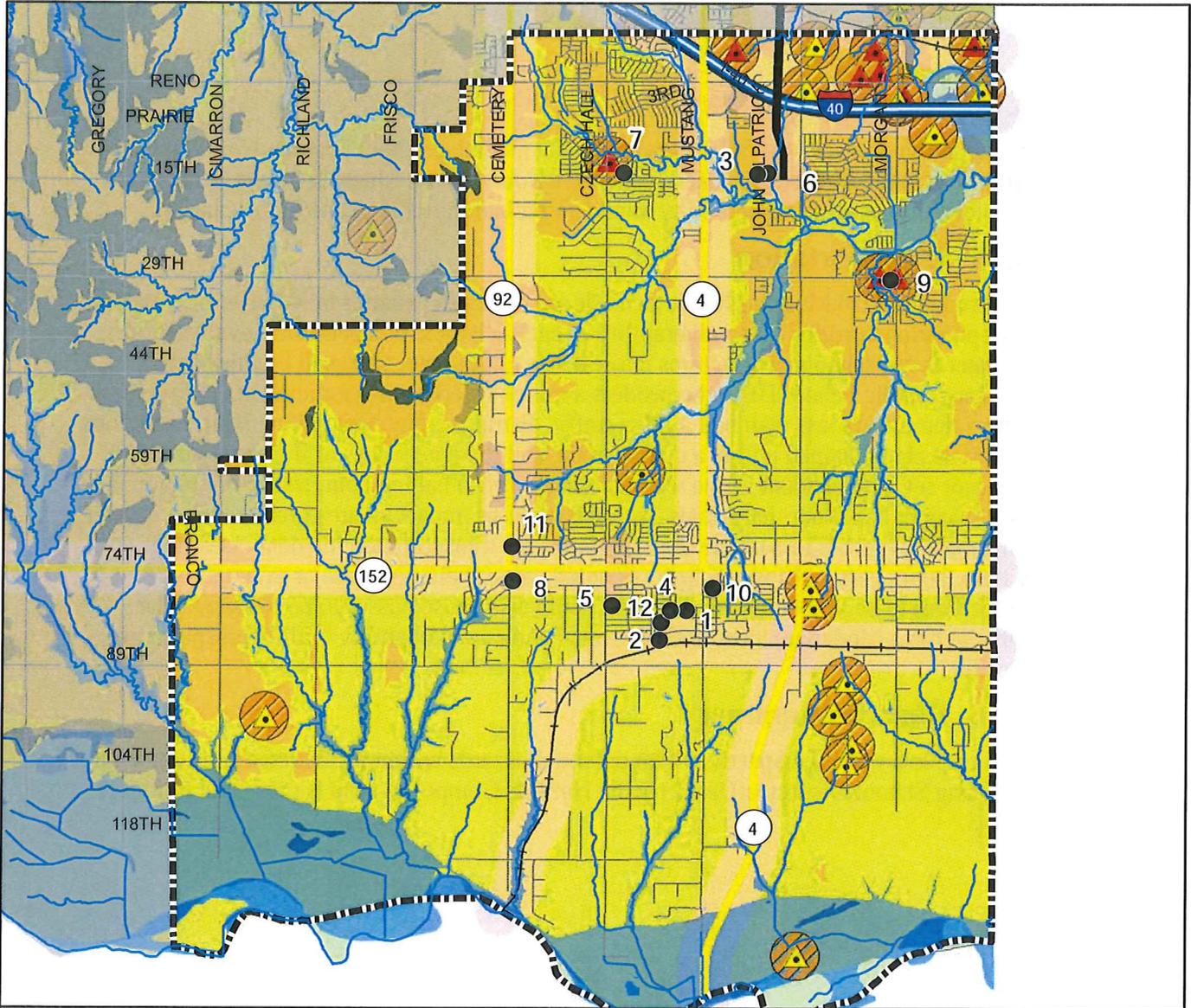


Figure G.7-3:

**Mustang School District  
Hazard Composite**

● Mustang\_public\_schools

**Hazard Overlays**

- 2009 EHS Tier 2
- 2009 non EHS Tier 2
- Tier2 1/4mi Buffer
- 100yr Floodplain
- 500yr Floodplain
- Quarter Mile Transportation Buffer

**Expansive Soils**

- Low
- Moderate
- High
- Very High
- Water

**Transportation**

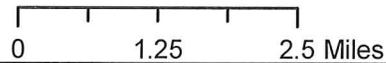
- Interstate
- US Highway
- State Highway
- Turnpike
- Local or Rural Road
- Railroads

**Boundaries**

- Mustang School District



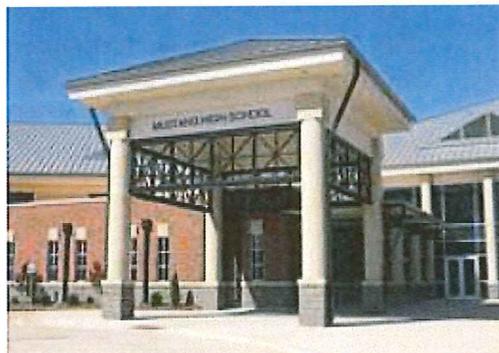
Flanagan & Associates, LLC  
Planning Consultants



## Section 4 Mustang Schools Details

### 4.1 Mustang High School

Mustang High School is located at 801 S. Snyder Dr. There are 1,750 students from the 10th through 12th Grades and 111 teachers and staff. The School is constructed of non-combustible brick and masonry and is equipped with sprinkler systems, automatic fire alarms, and NOAA Weather Radios. The School does not have lightning protection or a backup generator. There are areas of refuge in the School, but no shelters or safe rooms.



Mustang High School

#### Flood

Mustang High School is situated at elevation 1,355 on the ridgeline between the Crystal Creek (Canadian) and Mustang Creek (North Canadian) drainage basins. The School has low vulnerability to riverine flooding. In the past, the basement of Mustang High School has flooded on two different occasions due to excessive rainfall. Mustang High School has a Moderate vulnerability to and Moderate probability of flash flooding.

#### Expansive Soils

Mustang High School is constructed upon Low shrink/swell soils. No damages have been reported as a result of expansive soils in the past. The School has a Low vulnerability to and Low probability of the Expansive Soils hazard.

#### Wildfire

Mustang High School is in the urban core of Mustang, surrounded by streets, residences and playing fields. The High School has never been impacted directly or indirectly by a wildfire event. Though it is unlikely a wildfire event in or around Mustang would impact Mustang High School, due to its location in a Low Wildfire Concern area, the school is considered to have a Low vulnerability to and Low probability of the Wildfire hazard.

#### Hazardous Materials

There are no Tier II sites within a quarter mile of Mustang High School. The High School has no vulnerability to and no probability of the Fixed-Site Hazardous Materials hazard.

#### Dam Failure

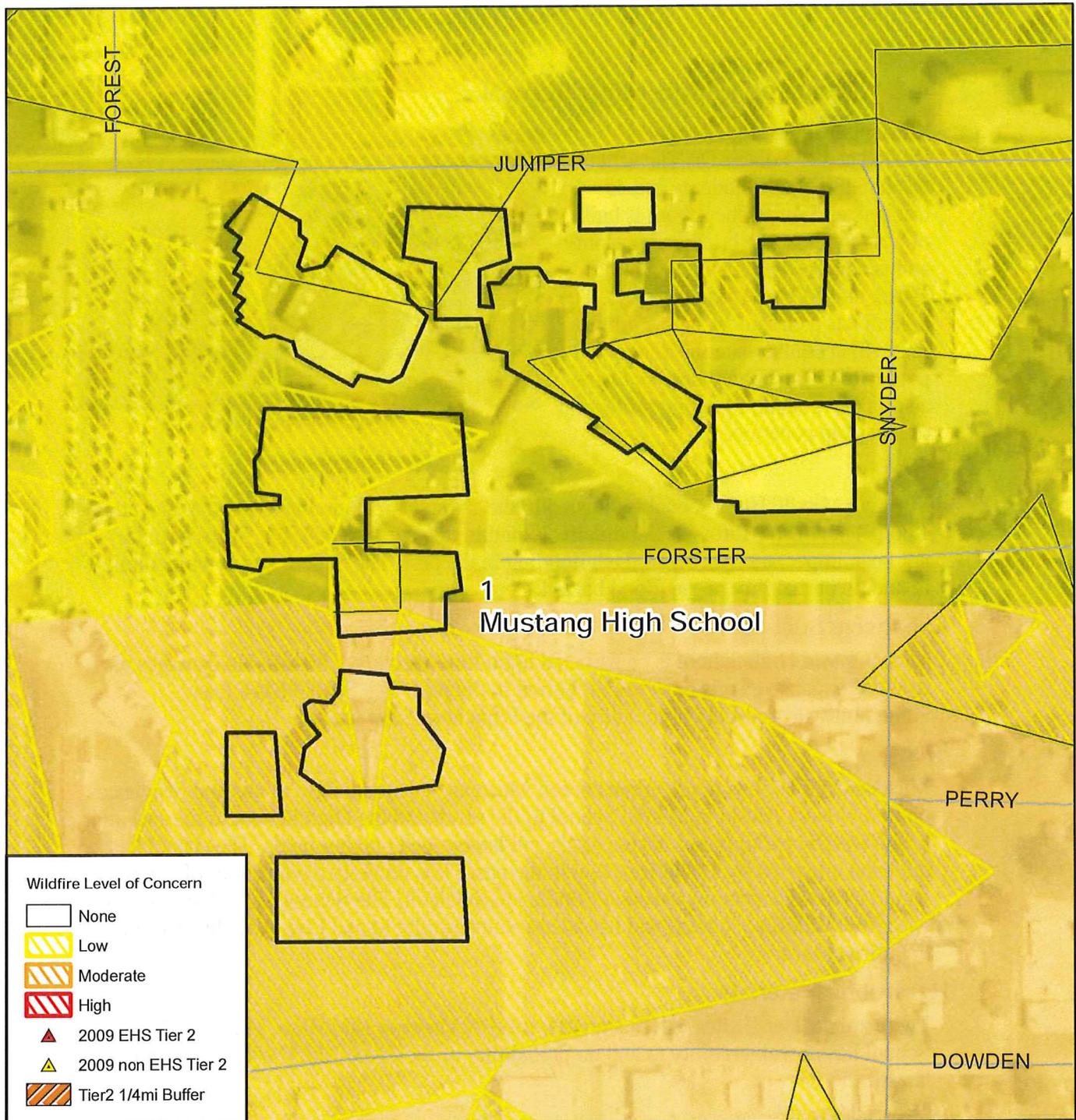
There are no dams whose failure would impact Mustang High School. The School has no vulnerability to and no probability of the Dam Failure hazard.

#### Transportation

The southern portion of Mustang High's campus is located within a quarter mile of the SWLC railroad right of way. The greatest impact would be students outside exposed to lofting chemicals, sheltering in place may be required if the incident is unable to be contained. Information regarding the impact of this hazard on structures is included in Chapter 4. The School has a Moderate to High vulnerability to and High probability of the Transportation hazard.

## **Hazards Summary**

Figure G.7-4 focuses on the School site itself and illustrates the specific hazards and their individual level of potential impact on the building and its immediately surrounding area. Please note the legend accompanying Figure G.7-4 to identify individual hazards and be aware that the colors may appear different in the map due to the number of other colors that have been overlaid representing other potential hazards, thus creating a School-site composite.



**Wildfire Level of Concern**

- None
- Low
- Moderate
- High
- 2009 EHS Tier 2
- 2009 non EHS Tier 2
- Tier2 1/4mi Buffer

**LEGEND**

Interstate	<b>Expansive Soils</b>
US Highway	Low
State Highway	Moderate
Turnpike	High
Roads	Very High
Railroads	Water
1/4mi Transport Buffer	100yr Floodplain

0 100 200 Feet

N E W S

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**Figure G.7-4**  
**Mustang Public Schools-**  
**Mustang High School**  
**Hazard Composite**

## 4.2 Mustang Middle High School

Mustang Middle High School is located at 430 Forster Dr. The school has 685 9th Grade students and 42 teachers and staff. The school is built of non-combustible brick and masonry and is equipped with an automatic fire alarm, and NOAA Weather Radio. The School has a classroom below ground that will accommodate the School population. The School does not have a sprinkler system, lightning protection or a backup generator.



Mustang Middle High School

### Flood

Mustang Middle High School is situated in the Crystal Creek drainage basin at elevation 1,355. There is no 100-year floodplain defined in this part of the basin. The school has not been impact by riverine or flash flooding in the past. The School has no vulnerability to and no probability of the Flood hazard.

### Expansive Soils

Mustang Mid High School is constructed upon Low shrink/swell soils. No damages as a result of expansive soils have been reported in the past. The School has a Low vulnerability to and Low probability of the Expansive Soils hazard.

### Wildfire

Mustang Mid High is in the urban core of Mustang, surrounded by streets and residences north and west, Mustang Middle School to the south and the High School to the east and is buffered by parking lots, access roads and landscaped playing fields. The school has not been impacted by a wildfire event in the past. It is unlikely a wildfire in Mustang would have an impact on Mustang Middle High School. The School is located in an area with Low Wildfire Concern and has a Low vulnerability to and Low probability of the Wildfire hazard.

### Hazardous Materials

There are no Tier II sites within a quarter mile of Mustang Mid High. The Mid High School has no vulnerability to and no probability of the Fixed-Site Hazardous Materials hazard.

### Dam Failure

There are no dams whose failure would impact Mustang Mid High School. The School has no vulnerability to and Low probability of the Dam Failure hazard.

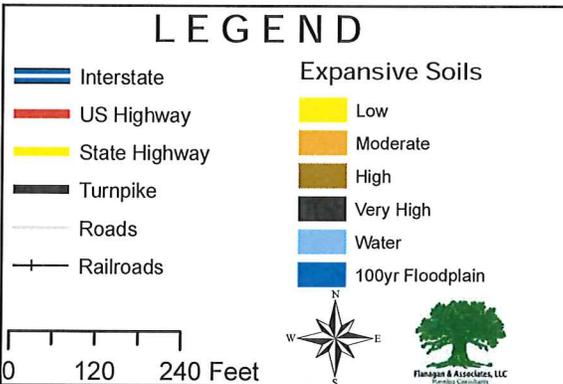
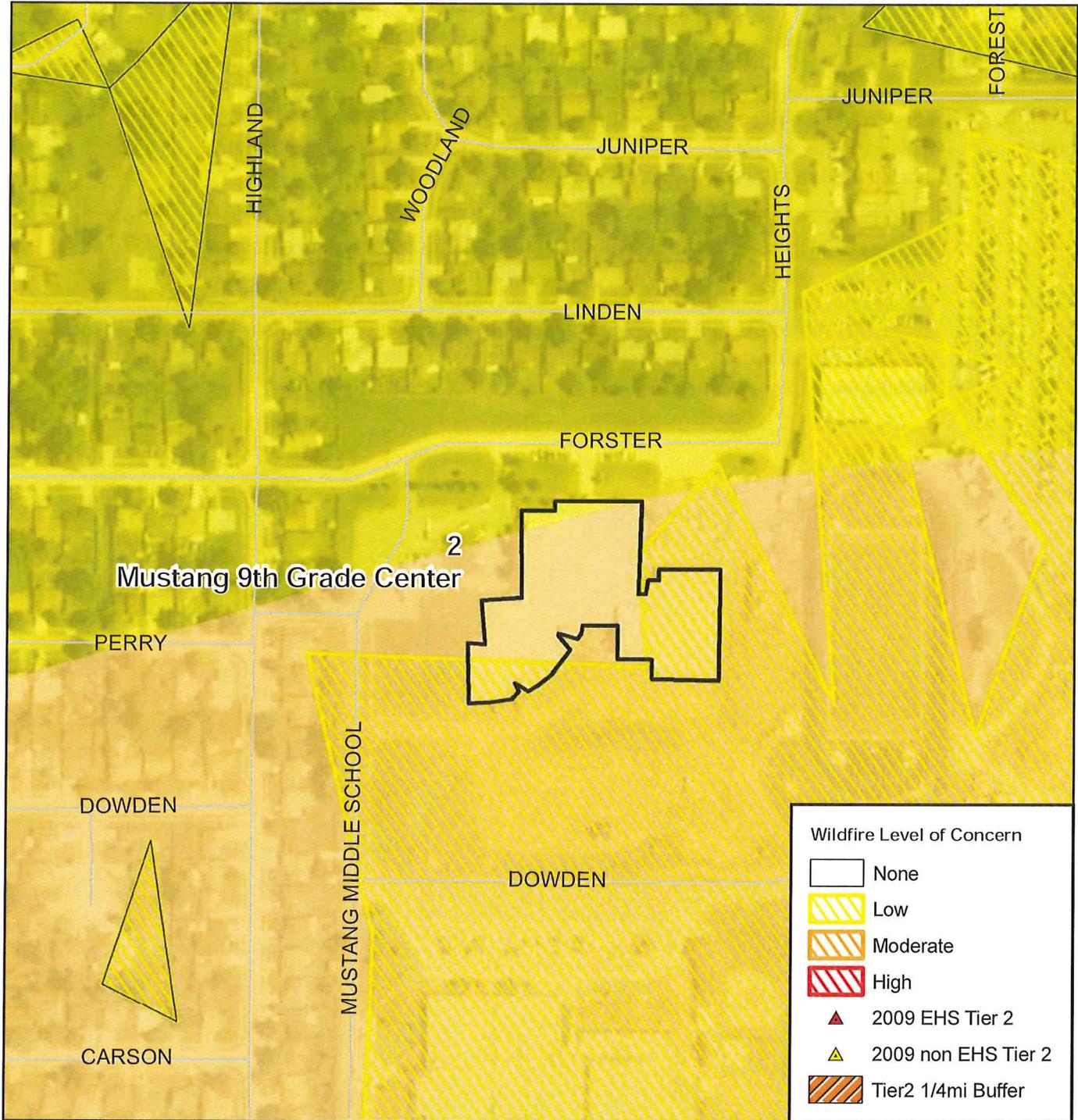
### Transportation

Mustang Mid High is located within a quarter mile of the SWLC railroad right of way. The School has not been impacted by this hazard in the past. The greatest impact would be students outside exposed to lofting chemicals, sheltering in place may be required if the incident is unable to be contained. Information regarding the impact of this hazard on

structures is included in Chapter 4. Based on the location of the school and the knowledge that at any time the railroad could be used for transport of hazardous materials, the School has a High vulnerability to and High probability of the Transportation hazard.

### **Hazards Summary**

Figure G.7-5 focuses on the School site itself and illustrates the specific hazards and their individual level of potential impact on the building and its immediately surrounding area. Please note the legend accompanying Figure G.7-5 to identify individual hazards and be aware that the colors in the map may appear different due to the number of other colors that have been overlaid representing other potential hazards, thus creating a School-site composite.



**Figure G.7-5**  
**Mustang Public Schools-  
 9th Grade Center**  
**Hazard Composite**

### 4.3 Mustang North Middle School

Mustang North Middle School is located at 10901 SW 15th St. in Oklahoma City. The School has 1,008 6th through 8th Grade students and 57 teachers and staff. The School is built of non-combustible brick and masonry, equipped with a sprinkler system, automatic fire alarm, a NOAA Weather Radio and a classroom below ground that will accommodate the School population. The School does not have lightning protection or a backup generator.



Mustang North Middle School

#### **Flood**

Mustang North Middle School sits along an intermittent tributary of Mustang Creek at elevation 1,260, 200 feet west of the property. There is no 100-year floodplain identified for this reach of the stream. The school has not been impacted by riverine or flash flooding in the past. The School has no vulnerability to and no probability of the Flood hazard.

#### **Expansive Soils**

Mustang North Middle School is constructed upon Moderate shrink/swell soils. There have been no reports of damages to the school as a result of expansive soils. The School has a Low vulnerability to and Low probability of the Expansive Soils hazard.

#### **Wildfire**

Mustang North Middle School is in the rural/urban interface of Oklahoma City, surrounded by undeveloped land north and west and by Mustang Creek Elementary to the east. The School has not been directly damaged by wildfire in the past, although it was placed on lock down of students and staff due to surrounding wildfires and high vegetation. The School is buffered by parking lots, access roads and landscaped playing fields. The School has a Moderate vulnerability to and Low probability of the Wildfire hazard.

#### **Hazardous Materials**

There are no Tier II sites within a quarter mile of Mustang North Middle School. The School has no vulnerability to and no probability of the Fixed-Site Hazardous Materials hazard.

#### **Dam Failure**

There are no dams whose failure would impact Mustang North Middle School. The School has no vulnerability to and no probability of the Dam Failure hazard.

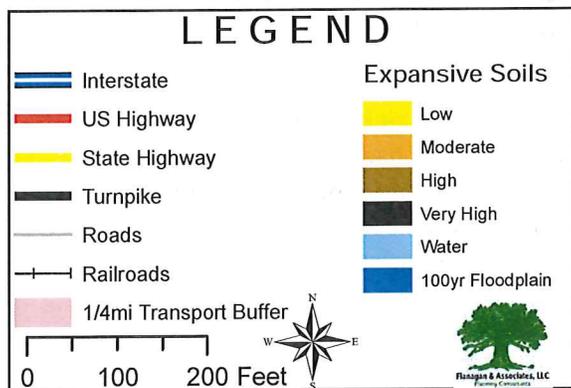
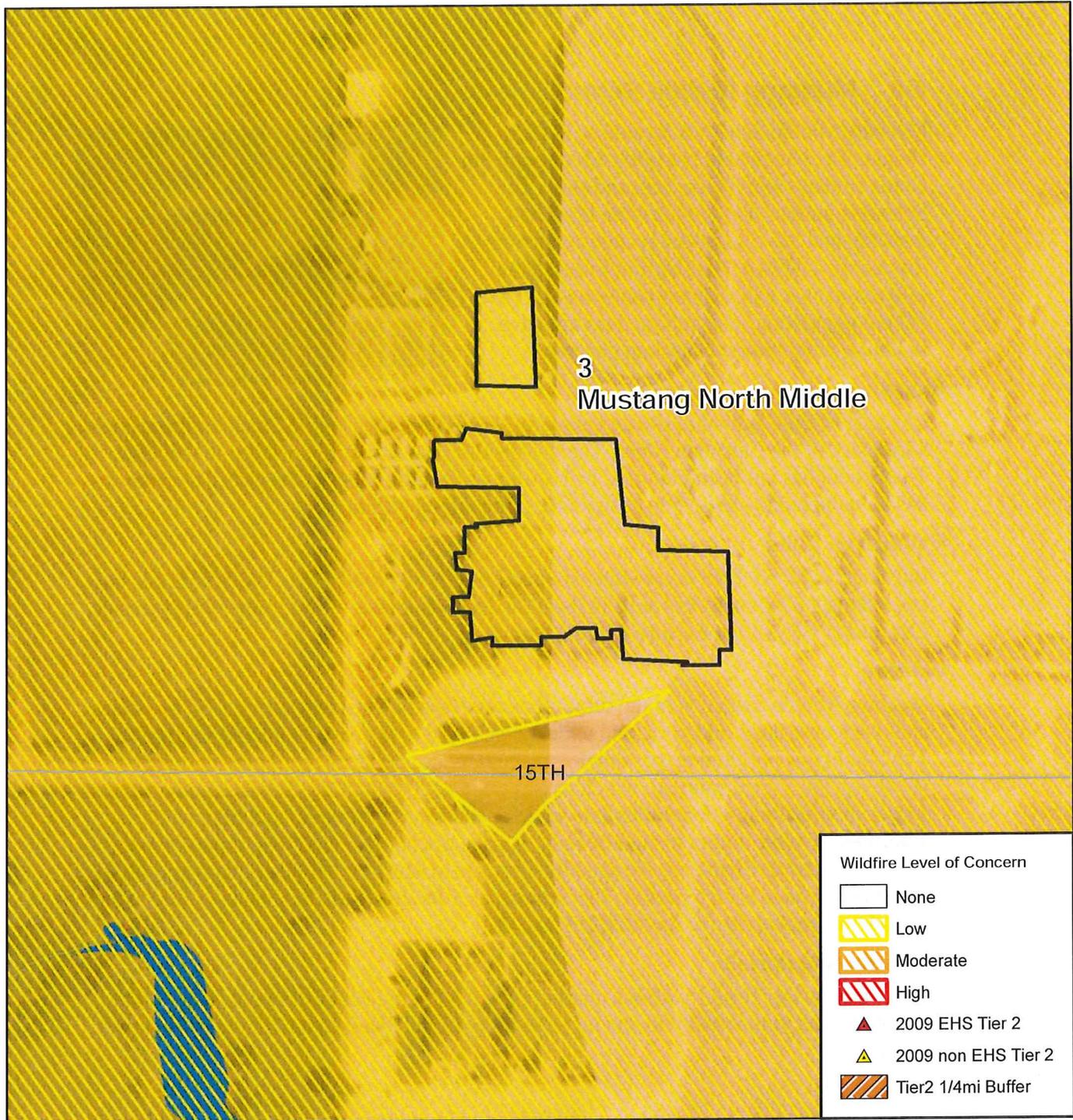
#### **Transportation**

Mustang North Middle School is located less than a quarter mile west of the Kilpatrick Turnpike, and about a quarter of a mile south of I-40. Interstate-40 carries about 60,300 vehicles per day. The greatest impact would be students outside exposed to lofting chemicals, sheltering in place may be required if the incident is unable to be contained.

Though past events have not impacted the school, it is likely an event could occur in the future due to the frequency of vehicles passing on I-40 on a daily basis. The School has a Moderate vulnerability to and High probability of the Transportation hazard.

### **Hazards Summary**

Figure G.7-6 focuses on the School site itself and illustrates the specific hazards and their individual level of potential impact on the building and its immediately surrounding area. Please note the legend accompanying Figure G.7-6 to identify individual hazards and be aware that the colors in the map may appear different due to the number of other colors that have been overlaid representing other potential hazards, thus creating a School-site composite.



**Figure G.7-6**

**Mustang Public Schools-  
North Middle School**

**Hazard Composite**

#### 4.4 Mustang Middle School

Mustang Middle School is located at 1145 S. Heights Dr. The School has 1,003 6th through 8th Grade students and 57 teachers and staff. The School is built of non-combustible brick and masonry and has a sprinkler system, automatic fire alarm, a NOAA Weather Radio and three safe rooms that will accommodate most of the School population. The School does not have lightning protection or a backup generator.



Mustang Middle School

##### **Flood**

Mustang Middle School is situated at elevation 1,350 in the Crystal Creek drainage basin, a tributary of the Canadian River. There is no 100-year floodplain defined in this area. The School has not been impacted by riverine or flash flooding in the past. The School has no vulnerability to and no probability of the Flood hazard.

##### **Expansive Soils**

Mustang Middle School is constructed upon Low shrink/swell soils. The School has not been damaged by expansive soils in the past. The School has a Low vulnerability to and Low probability of the Expansive Soils hazard.

##### **Wildfire**

Mustang Middle School is in the rural/urban interface of Mustang, surrounded by streets and residences north and west, and undeveloped land to the east, south and southwest. The building is buffered by parking lots, access roads and landscaped playing fields. However, the SWLC railroad, which passes within 100 feet of the School, can be a major source of wildfire ignition during late summer and times of drought and high wind. Wildfires have the ability to significantly damage a school facility, this impact is more fully discussed in Chapter 4. No specific damages to Mustang Middle School as a result of a wildfire have been reported. The School has a Moderate to High vulnerability to and a Moderate probability of the Wildfire hazard.

##### **Hazardous Materials**

There are no Tier II sites within a quarter mile of Mustang Middle School. The Middle School has no vulnerability to and no probability of the Fixed-Site Hazardous Materials hazard.

##### **Dam Failure**

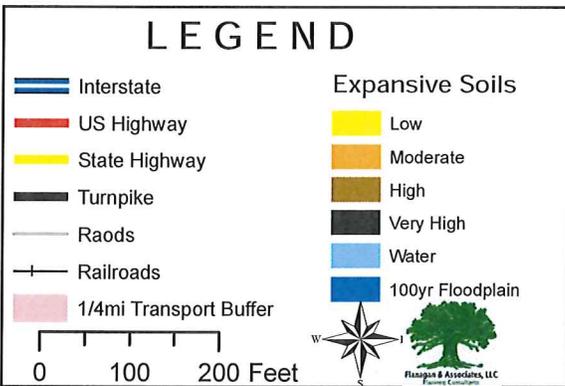
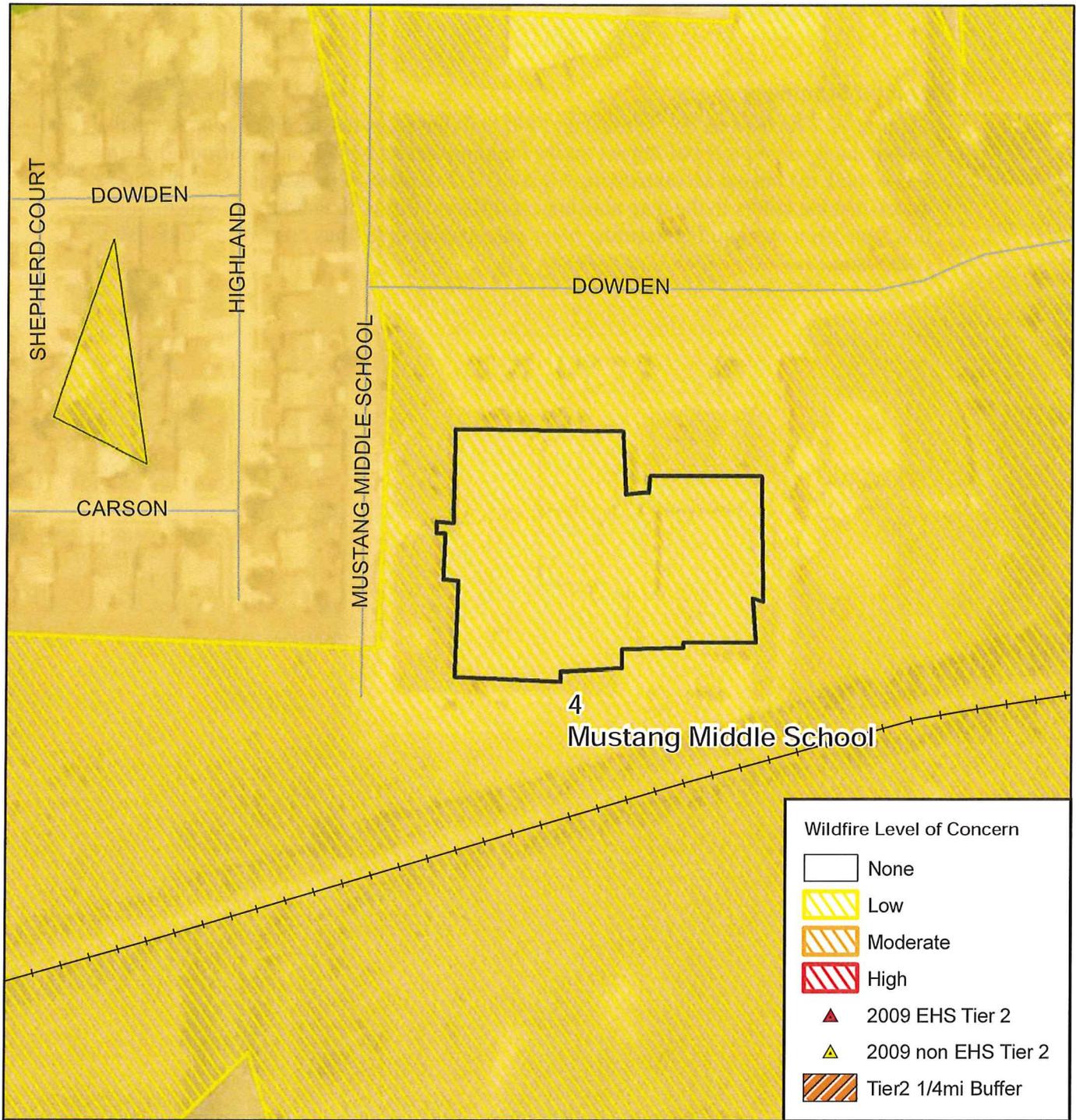
There are no dams whose failure would impact Mustang Middle School. The School has no vulnerability to and no probability of the Dam Failure hazard.

##### **Transportation**

Mustang Middle School is located alongside the SWLC railroad right of way, within about 100 feet of the tracks. Structural impacts as a result of this hazard are discussed in Chapter 4. The greatest impact would be students outside exposed to lofting chemicals, sheltering in place may be required if the incident is unable to be contained. The School has a High vulnerability to and High probability of the Transportation hazard.

## **Hazards Summary**

Figure G.7-7 focuses on the School site itself and illustrates the specific hazards and their individual level of potential impact on the building and its immediately surrounding area. Please note the legend accompanying Figure G.7-7 to identify individual hazards and be aware that the colors in the map may appear different due to the number of other colors that have been overlaid representing other potential hazards, thus creating a School-site composite.



**Figure G.7-7**  
**Mustang Public Schools-**  
**Mustang Middle School**  
**Hazard Composite**

## 4.5 Centennial Elementary School

Centennial Elementary School is located at 700 S. Czech Hall Rd. The School has 559 Pre-K to 5th Grade children and 41 teachers and staff. The School is built of non-combustible brick and masonry, is equipped with a sprinkler system, an automatic fire alarm, and a NOAA Weather Radio. The School has four classrooms that are safe rooms for the entire School population. The School does not have lightning protection or a backup generator.



Centennial Elementary School

### Flood

Centennial Elementary School is situated at elevation 1,340. There is no 100-year floodplain mapped near the School. The School has not been impacted by riverine or flash flooding in the past. Centennial has no vulnerability to and no probability of the Flood hazard.

### Expansive Soils

Centennial Elementary School is constructed upon Low shrink/swell soils. No damages as a result of expansive soils have been reported by the school. The School has a Low vulnerability to and Low probability of the Expansive Soils hazard.

### Wildfire

Centennial Elementary School is in the urban core of Mustang, surrounded by streets and residences north, east and south, and by undeveloped, wooded land to the west. The School building is buffered by parking lots, access roads and landscaped playgrounds. No damages to the school as a result of wildfires have been reported. It is not likely a wildfire event in or around Mustang would impact the school structure. Because of its location in a Low Wildfire Concern area, Centennial School has a Low vulnerability to and Low probability of the Wildfire hazard.

### Hazardous Materials

There are no Tier II sites within a quarter mile of Centennial Elementary School. The School has no vulnerability to and no probability of the Fixed-Site Hazardous Materials hazard.

### Dam Failure

There are no dams whose failure would impact Centennial Elementary School. The School has no vulnerability to and no probability of the Dam Failure hazard.

### Transportation

Centennial Elementary School is located on Czech Hall Rd., which carries about 1,285 vehicles per day, two miles north of the School. The SWLC railroad crosses Czech Hall Rd. about a quarter mile south of the School. The greatest impact would be students outside exposed to lofting chemicals, sheltering in place may be required if the incident is

unable to be contained. Centennial Elementary has a Moderate vulnerability to and High probability of the Transportation hazard.

### **Hazards Summary**

Figure G.7-8 focuses on the School site itself and illustrates the specific hazards and their individual level of potential impact on the building and its immediately surrounding area. Please note the legend accompanying Figure G.7-8 to identify individual hazards and be aware that the colors in the map may appear different due to the number of other colors that have been overlaid representing other potential hazards, thus creating a School-site composite.



**Wildfire Level of Concern**

- None
- Low
- Moderate
- High
- 2009 EHS Tier 2
- 2009 non EHS Tier 2
- Tier2 1/4mi Buffer

**LEGEND**

Interstate	<b>Expansive Soils</b>
US Highway	Low
State Highway	Moderate
Turnpike	High
Roads	Very High
Railroads	Water
1/4mi Transport Buffer	100yr Floodplain

0 100 200 Feet

Flanagan & Associates, LLC  
Planning Consultants



**Figure G.7-8**

**Mustang Public Schools-  
Centennial Elementary**

**Hazard Composite**

## 4.6 Mustang Creek Elementary School

Mustang Creek Elementary School is located at 10821 SW 15th St. in Oklahoma City. The School has 662 KG through 5th Grade children and 47 teachers and staff. The School is built of non-combustible brick and masonry, has a sprinkler system, an automatic fire alarm, a NOAA Weather Radio, and eight safe rooms that will accommodate the entire School population. The School does not have lightning protection or a backup generator.



Mustang Creek Elementary School

### Flood

Mustang Creek Elementary is situated on a tributary of Mustang Creek at elevation 1,260 along the east side of the School. There is no 100-year floodplain identified for this reach of the stream. The School has not been impacted by riverine or flash flooding in the past. The School has no vulnerability to and no probability of the Flood hazard.

### Expansive Soils

Mustang Creek School is constructed upon Moderate shrink/swell soils. There have been no reports of damages to the school as a result of expansive soils. The School has a Low vulnerability to and Low probability of the Expansive Soils hazard.

### Wildfire

Mustang Creek Elementary School is in the rural/urban interface of Oklahoma City, surrounded by undeveloped land north, east and south, and by Mustang North Middle School to the west. The School is buffered by parking lots, access roads and landscaped playing fields. The School has not been impacted by a wildfire event in the past. It is not likely that a wildfire event would cause direct impact on the school structure. Because of its location in a Low Wildfire Concern Area, the School has a Low vulnerability to and Low probability of the Wildfire hazard.

### Hazardous Materials

There are no Tier II sites within a quarter mile of Mustang Creek Elementary School. The School has no vulnerability to and no probability of the Fixed-Site Hazardous Materials hazard.

### Dam Failure

There are no dams whose failure would impact Mustang Creek Elementary School. The School has no vulnerability to the Dam Failure hazard.

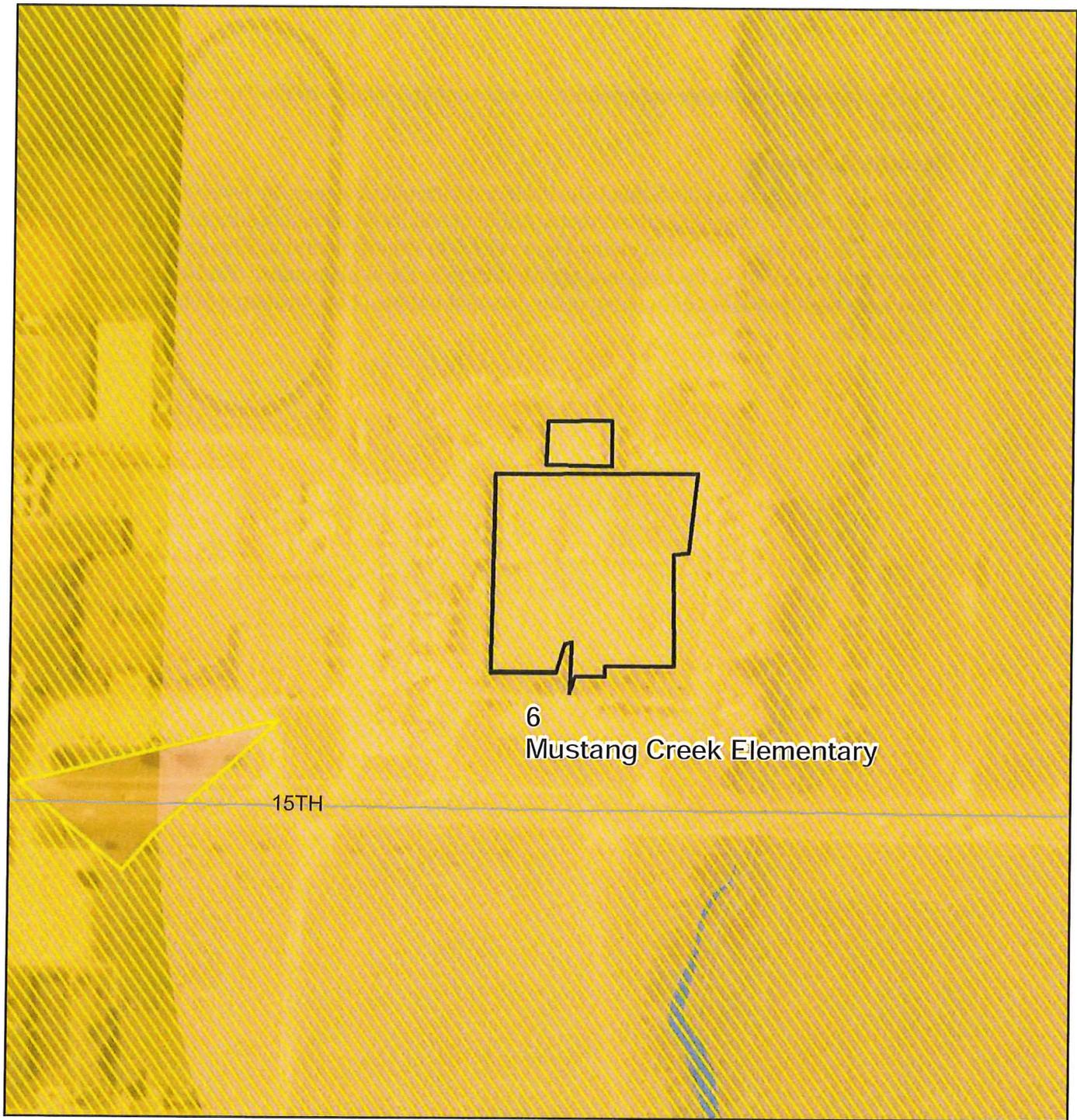
### Transportation

Mustang Creek Elementary is located on SW 15<sup>th</sup> St., near the entrance of the Kilpatrick Turnpike and three quarters of a mile south of I-40. Interstate-40 carries about 60,300 vehicles per day. The greatest impact would be students outside exposed to lofting chemicals, sheltering in place may be required if the incident is unable to be contained.

The School has a Moderate vulnerability to and High probability of the Transportation hazard.

### **Hazards Summary**

Figure G.7-9 focuses on the School site itself and illustrates the specific hazards and their individual level of potential impact on the building and its immediately surrounding area. Please note the legend accompanying Figure G.7-9 to identify individual hazards and be aware that the colors in the map may appear different due to the number of other colors that have been overlaid representing other potential hazards, thus creating a School-site composite.



**LEGEND**

- |                        |                  |
|------------------------|------------------|
| Interstate             | Expansive Soils  |
| US Highway             | 100yr Floodplain |
| State Highway          | Low              |
| Turnpike               | Moderate         |
| Roads                  | High             |
| Railroads              | Very High        |
| 1/4mi Transport Buffer | Water            |
- 0 100 200 Feet
- W N E S
- Flanagan & Associates, LLC  
Planning Consultants



Figure G.7-9  
Mustang Public Schools-  
Mustang Creek Elementary  
Hazard Composite

## 4.7 Mustang Trails Elementary School

Mustang Trails Elementary School is located at 12025 SW 15th St. in Oklahoma City. The School has 779 Pre-K through Grade 5 children and 47 teachers and staff. The School is built of non-combustible brick and masonry, is equipped with a sprinkler system, automatic fire alarm, and a NOAA Weather Radio. The School has a classroom below ground that can accommodate the entire School population. The School does not have lightning protection or a backup generator.



Mustang Trails Elementary School

### Flood

Mustang Trails Elementary School is situated at elevation 1,300, about 300 feet south of a tributary of Mustang Creek. There is no defined 100-year floodplain in this reach of the stream. Mustang Trails Elementary has not been impacted by riverine flooding or flash flooding in the past. The School has no vulnerability to and no probability of the Flood hazard.

### Expansive Soils

Mustang Trails Elementary School is built upon Low shrink/swell soils. There have been no damages, as a result of expansive soils, reported by the school in the past. The School has a Low vulnerability to and Low probability of the Expansive Soils hazard.

### Wildfire

Mustang Trails Elementary School is in the rural/urban interface of Oklahoma City, surrounded by streets and residences north, east and south, and by open fields to the west and southwest. The School building is buffered by parking lots, access roads and landscaped playgrounds. In the past, the School has been placed on lock down due to surrounding wildfires and high vegetation. It is unlikely a wildfire in Mustang would directly impact the school structure. Mustang Trails Elementary School has a Moderate vulnerability to and Low probability of the Wildfire hazard.

### Hazardous Materials

There is one EHS Tier II site within a quarter mile of Mustang Trails Elementary School: AT&T Yukon North, on Czech Hall Rd., north of SW 15<sup>th</sup> St. A hazardous materials incident at this facility could call for implementation of evacuation or shelter-in-place procedures. Mustang Trails Elementary has a Moderate vulnerability to and a Low probability of the Fixed-Site Hazardous Materials hazard.

### Dam Failure

There are no dams whose failure would impact Mustang Trails Elementary School. The School has no vulnerability to and no probability of the Dam Failure hazard.

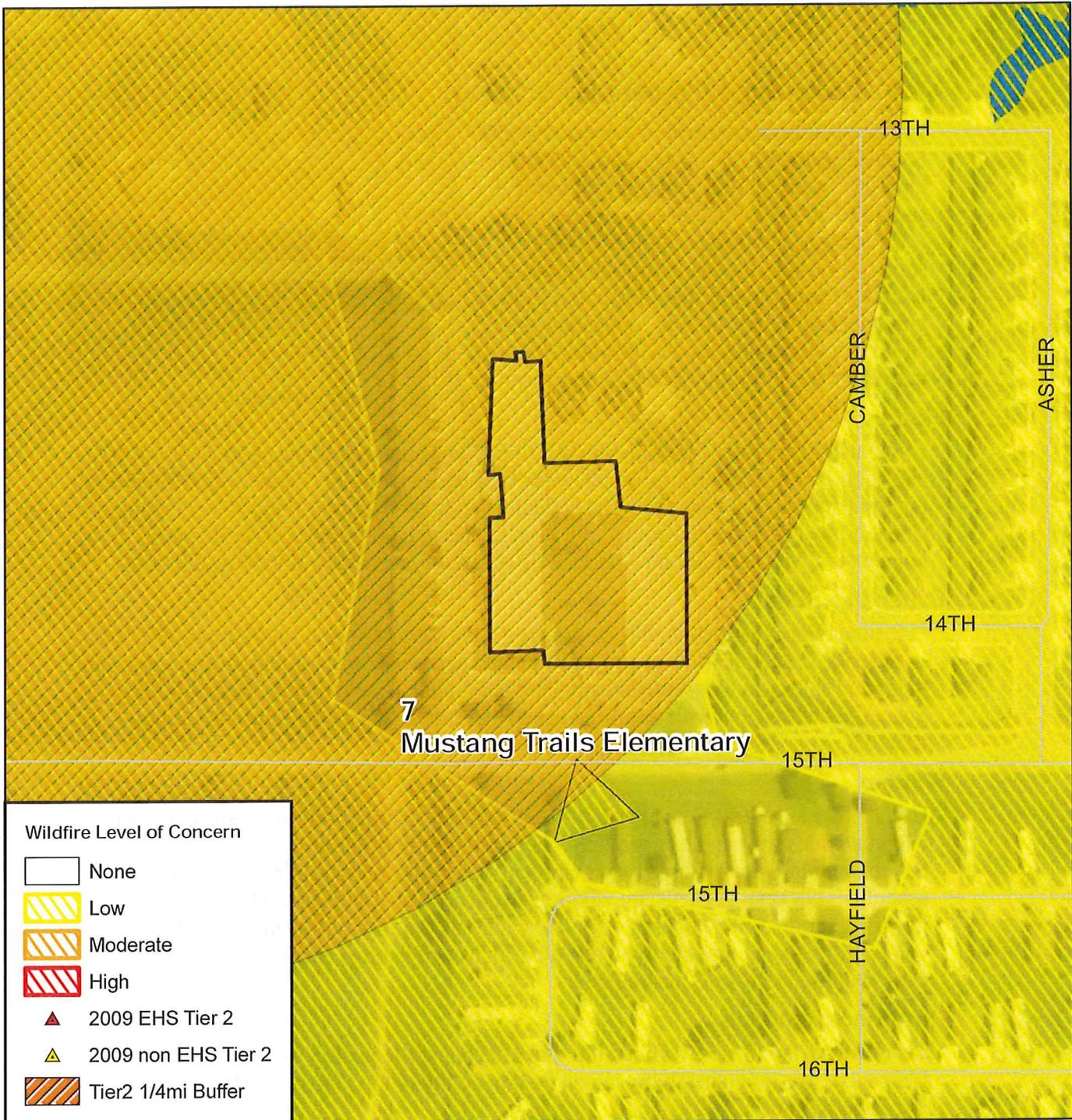
### Transportation

Mustang Trails School is about a quarter mile east of Czech Hall Rd. which has a traffic count of 4,803 per day. The School is not located within ¼ mile of a major highway,

interstate, or railroad and has not been impacted by this hazard in the past. The School has no vulnerability to and no probability of the Transportation hazard.

### **Hazards Summary**

Figure G.7-10 focuses on the School site itself and illustrates the specific hazards and their individual level of potential impact on the building and its immediately surrounding area. Please note the legend accompanying Figure G.7-10 to identify individual hazards and be aware that the colors in the map may appear different due to the number of other colors that have been overlaid representing other potential hazards, thus creating a School-site composite.



**Wildfire Level of Concern**

- None
- Low
- Moderate
- High

- 2009 EHS Tier 2
- 2009 non EHS Tier 2
- Tier2 1/4mi Buffer

**LEGEND**

- Interstate
- US Highway
- State Highway
- Turnpike
- Roads
- Railroads
- 1/4mi Transport Buffer

**Expansive Soils**

- Low
- Moderate
- High
- Very High
- Water
- 100yr Floodplain

0 100 200 Feet



**Figure G.7-10**

**Mustang Public Schools-  
Mustang Trails Elementary**

**Hazard Composite**

## 4.8 Lakehoma Elementary School

Lakehoma Elementary School is located at 224 S. Clear Spring Rd. The School has 653 KG through Grade 5 children and 44 teachers and staff. The School is built of non-combustible brick and masonry and is equipped with a sprinkler system, automatic fire alarm, and a NOAA Weather Radio. The School has a below ground classroom that can accommodate the entire School population. The School does not have lightning protection or a backup generator.



Lakehoma Elementary School

### Flood

Lakehoma Elementary School is situated in the Bennett Creek drainage basin, at elevation 1,345. About a quarter mile west is Mustang Lake No. 1 dam, which impounds the tributary to elevation 1,320. The School is not in the 100-year flood zone of either the Creek or the Lake. The School has not been impacted by riverine or flash flooding. Lakehoma Elementary has no vulnerability to and no probability of the Flood hazard.

### Expansive Soils

Lakehoma Elementary School is constructed upon Very High and Low shrink/swell soils. In the past, Lakehoma Elementary has been damaged from cracked and broken pipes due to ground shifting and movement; similar damages can be expected in the future. The School has a Moderate vulnerability to and High probability of the Expansive Soils hazard.

### Wildfire

Lakehoma Elementary School is in the rural/urban interface of Mustang, surrounded by neighborhoods west and by open fields and pastures to the northeast, east and south. The School buildings are buffered by parking lots, roads and landscaped playgrounds. The school has not been impacted by wildfires in the past. Due to its urban location is not likely a wildfire event would directly impact the school structure itself. The School's vulnerability to and probability of the Wildfire hazard is Low, due to its location in a Low Wildfire Level of Concern Area.

### Hazardous Materials

There are no Tier II sites within 2 miles of Lakehoma Elementary School. Lakehoma Elementary has no vulnerability to and no probability of the Fixed-Site Hazardous Materials hazard.

### Dam Failure

There are no dams whose failure would impact Lakehoma Elementary School. The School has no vulnerability to and no probability of the Dam Failure hazard.

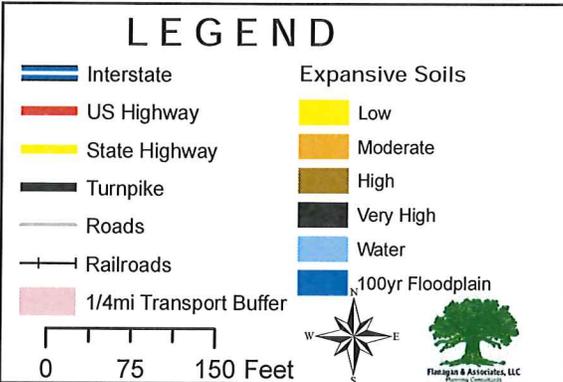
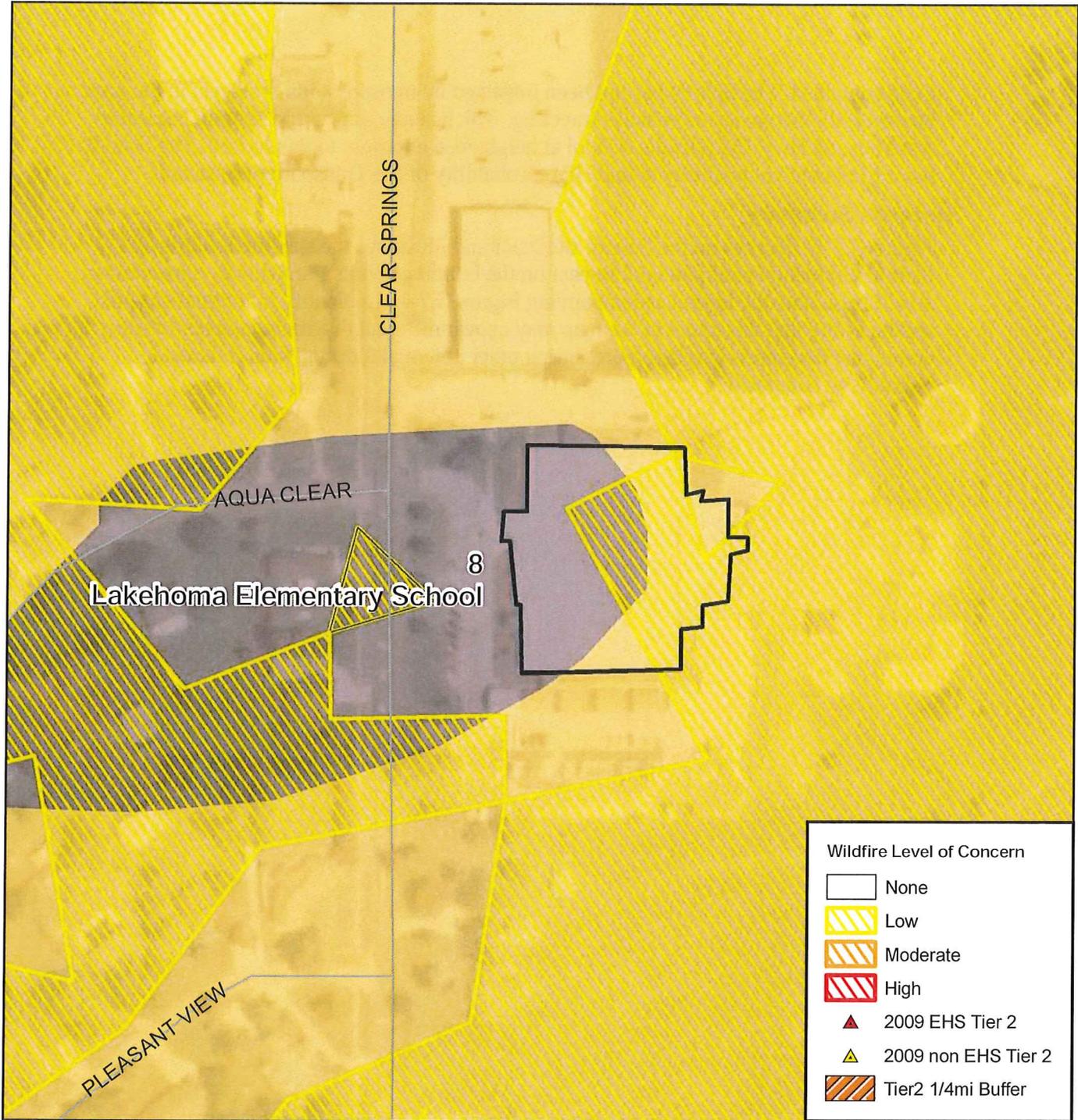
### Transportation

Lakehoma Elementary School is located about 300 feet south of OK Highway 152 which carries about 5,600 vehicles per day. The greatest impact would be students outside exposed to lofting chemicals, sheltering in place may be required if the incident is unable

to be contained. The School has not been impacted by transportation incidents in the past; however, the frequency of vehicles traveling, which at any time could contain hazardous materials, on Hwy 152 puts the School at heightened exposure to this hazard. The School has a Moderate vulnerability to and High probability of the Transportation hazard.

### **Hazards Summary**

Figure G.7-11 focuses on the School site itself and illustrates the specific hazards and their individual level of potential impact on the building and its immediately surrounding area. Please note the legend accompanying Figure G.7-11 to identify individual hazards and be aware that the colors in the map may appear different due to the number of other colors that have been overlaid representing other potential hazards, thus creating a School-site composite.



**Figure G.7-11**

**Mustang Public Schools-  
Lakehoma Elementary**

**Hazard Composite**

## 4.9 Mustang Valley Elementary School

Mustang Valley Elementary School is located at SW 29th and Morgan Rd. in Oklahoma City. The School has 700 KG to 5th Grade children and 44 teachers and staff. The School building is constructed of non-combustible brick and masonry and is equipped with a sprinkler system, automatic fire alarm, and a NOAA Weather Radio. The School has four safe rooms that can accommodate most of its population. The School does not have lightning protection or a backup generator.



Mustang Valley Elementary School

### Flood

Mustang Valley Elementary School is situated on a tributary of Mustang Creek at elevation 1,250. The 100-year floodplain of the Mustang Creek tributary passes less than a quarter mile west at elevation 1,325. Mustang Valley Elementary has not been impacted by riverine or flash flooding in the past. The School is not in the 100-year floodplain. The School has no vulnerability to and no probability of the Flood hazard.

### Expansive Soils

Mustang Valley Elementary School is constructed upon Moderate shrink/swell soils. No reports of damages to the school as a result of expansive soils have been reported. The School has a Low vulnerability to and Low probability of the Expansive Soils hazard.

### Wildfire

Mustang Valley School is in the rural/urban interface area of Oklahoma City, surrounded by streets and residences north and south, by playgrounds to the west, and by agricultural/ranch land to the east. The greatest risk of wildfire would be in the area of agricultural land to the east of the school. The School has been placed on lockdown in the past due to surrounding wildfires and high vegetation. The impact of this hazard on structures is fully detailed in Chapter 4. The School has a Moderate vulnerability to and Moderate probability of the Wildfire hazard.

### Hazardous Materials

There are no Tier II sites within a quarter mile of Mustang Valley Elementary School. The School has no vulnerability to and no probability of the Fixed-Site Hazardous Materials hazard.

### Dam Failure

There are no dams whose failure would impact Mustang Valley Elementary School. The school has no vulnerability to and no probability of the Dam Failure hazard.

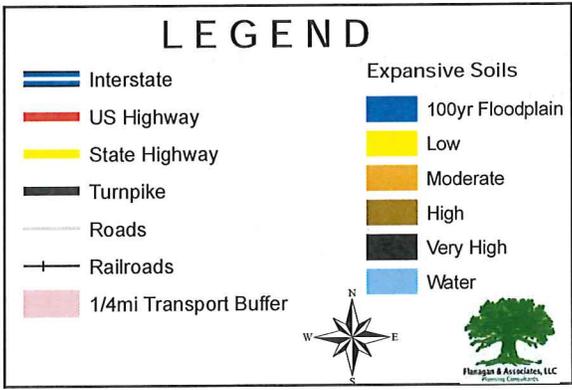
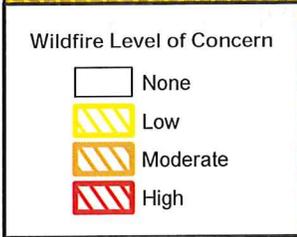
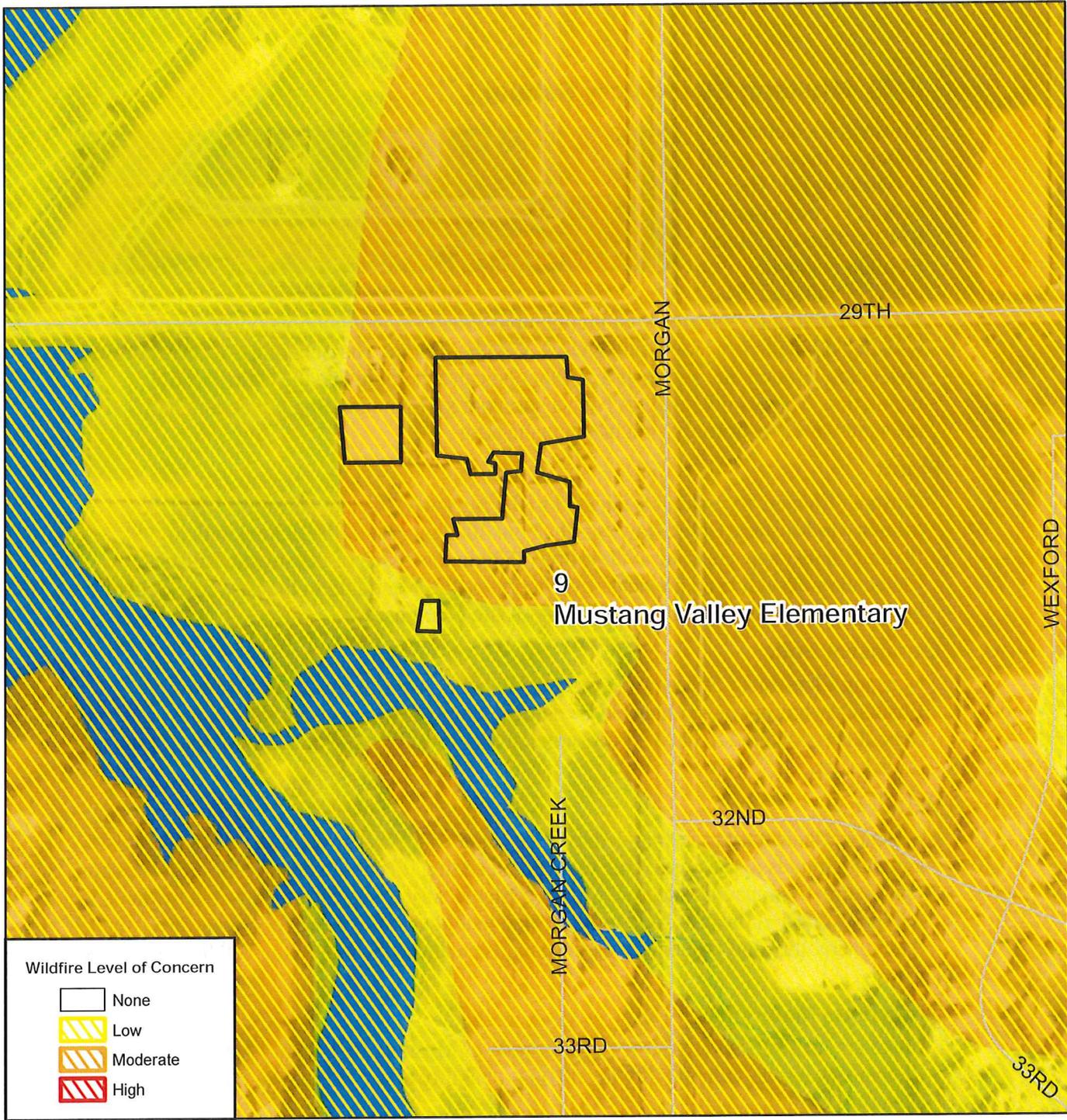
### Transportation

Mustang Valley Elementary School is at the intersection of Morgan Rd. and SW 29th St. in Oklahoma City. The School has not been impacted by a transportation incident involving hazardous materials in the past. It is not located within ¼ mile of any major

transportation routes. The School has no vulnerability to and no probability of the Transportation hazard.

### **Hazards Summary**

Figure G.7-12 focuses on the School site itself and illustrates the specific hazards and their individual level of potential impact on the building and its immediately surrounding area. Please note the legend accompanying Figure G.7-12 to identify individual hazards and be aware that the colors in the map may appear different due to the number of other colors that have been overlaid representing other potential hazards, thus creating a School-site composite.



**Figure G.7-12**  
**Mustang Public Schools-**  
**Mustang Valley Elementary**  
**Hazard Composite**

## 4.10 Mustang Elementary School

Mustang Elementary School is located at 400 S. Mustang Rd. The School is comprised of 674 KG through Grade 5 children and 44 teachers and staff. The



Mustang Elementary School

School building is constructed of non-combustible brick and masonry and is equipped with an automatic fire alarm, and NOAA Weather Radio. The School has a classroom area below ground that serves as a shelter and can accommodate the entire School population. The School does not have a sprinkler system, lightning protection, hail resistant windows or roofs, or a backup generator.

### Flood

Mustang Elementary School is situated in the Mustang Creek at elevation 1,340. A tributary to Mustang Creek flows north about 400 feet east of the School with a floodplain that appears to be at elevation 1,320 in this reach of the stream. Mustang Elementary has not been impacted by riverine or flash flooding in the past. The School has no vulnerability to and no probability of the Flood hazard.

### Expansive Soils

Mustang Elementary School is constructed upon Low shrink/swell soils. Mustang Elementary has not been impacted by damages caused by expansive soils in the past. The School is considered to have a Low vulnerability to and Low probability of the Expansive Soils hazard.

### Wildfire

Mustang Elementary is surrounded by streets and residences to the east, south and west, and playgrounds to the north. Due to its urban setting it is not likely a wildfire in Mustang would directly impact the school. Mustang Elementary has not been impacted by the wildfire hazard in the past. Due to its located in a Low Wildfire Level of Concern Area, the vulnerability and probability of Mustang Elementary School to the Wildfire hazard is Low.

### Hazardous Materials

There are no Tier II sites within a quarter mile of Mustang Elementary School. Mustang Elementary has no vulnerability to and no probability of the Fixed-Site Hazardous Materials hazard.

### Dam Failure

There are no dams whose failure would impact Mustang Elementary School. The School has no vulnerability to and no probability of the Dam Failure hazard.

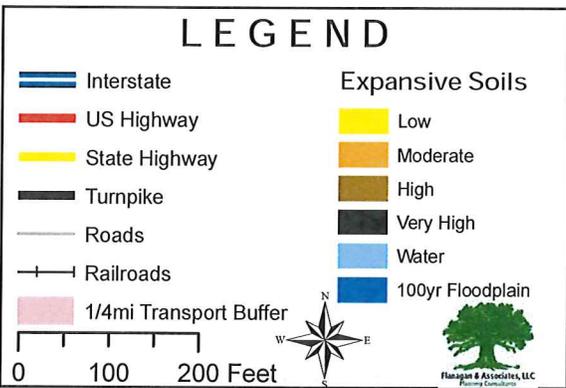
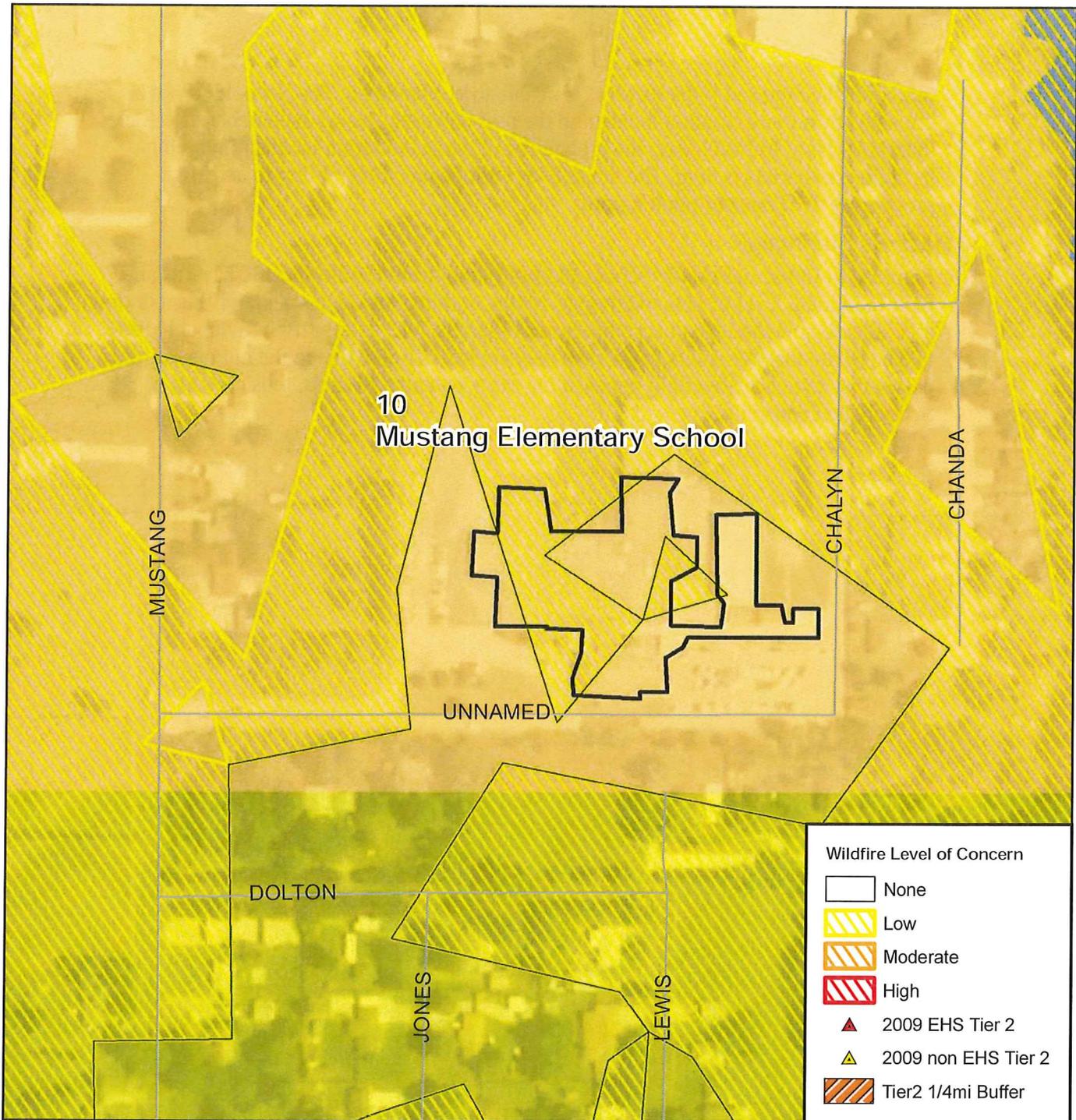
### Transportation

Mustang Elementary is buffered businesses, grounds and landscaping from OK Highway 152, a quarter mile north of the School, which carries 15,000 to 17,000 vehicles per day. The greatest impact would be students outside exposed to lofting chemicals, sheltering in

place may be required if the incident is unable to be contained. The School has not been impacted by a transportation incident in the past however, due to the number of vehicles that travel Hwy 152 each day; the probability of a transportation incident involving hazardous materials is high. The School has a Moderate vulnerability to and High probability the Transportation hazard.

### **Hazards Summary**

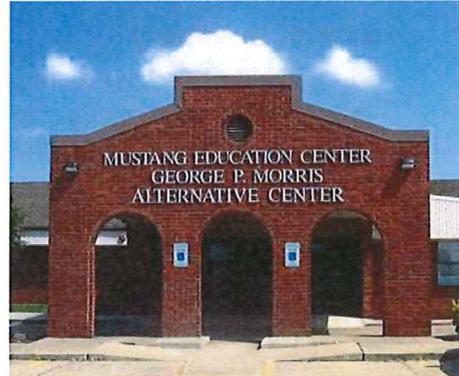
Figure G.7-13 focuses on the School site itself and illustrates the specific hazards and their individual level of potential impact on the building and its immediately surrounding area. Please note the legend accompanying Figure G.7-13 to identify individual hazards and be aware that the colors in the map may appear different due to the number of other colors that have been overlaid representing other potential hazards, thus creating a School-site composite.



**Figure G.7-13**  
**Mustang Public Schools-**  
**Mustang Elementary**  
**Hazard Composite**

## 4.11 Mustang Education Center

The Mustang Education Center is located at 400 N. Clear Springs Rd. The Center has 357 students and 17 staff. The Education Center houses a pre-kindergarten school, the alternative education program (PASS) and Gifted and Talented Education (GATE). The Center is constructed of non-combustible brick and masonry and is equipped with a sprinkler system, automatic fire alarm, and a NOAA Weather Radio. The Center does not have a shelter or safe room, lightning protection, backup generator, or hail resistant windows or roof.



Mustang Education Center

### Flood

Mustang Education Center is situated on high ground at elevation 1,345 in the Mustang Creek watershed. Mustang Education Center has not been impacted by riverine or flash flooding in the past. The Center has no vulnerability to and no probability of the Flood hazard.

### Expansive Soils

Mustang Education Center is constructed upon Low shrink/swell soils. There have been no reports of past damages to the structure as a result of expansive soils. The Center has a Low vulnerability to and Low probability of the Expansive Soils hazard.

### Wildfire

The Education Center is surrounded by an access road and parking lots, to the north, west and east by housing developments, and to the south and southwest open fields separated by OK Highway 92. There is berm along OK 92, a buffer of landscaping and parking. The Center has not been impacted by any wildfire events in the past. The Education Center has a Low vulnerability to and Low probability of the Wildfire hazard.

### Hazardous Materials

There are no Tier II sites within a quarter mile of the Education Center. The Center has no vulnerability to and no probability of the Fixed-Site Hazardous Materials hazard.

### Dam Failure

There are no dams whose failure would impact the Mustang Education Center. The Center has no vulnerability to and no probability of the Dam Failure hazard.

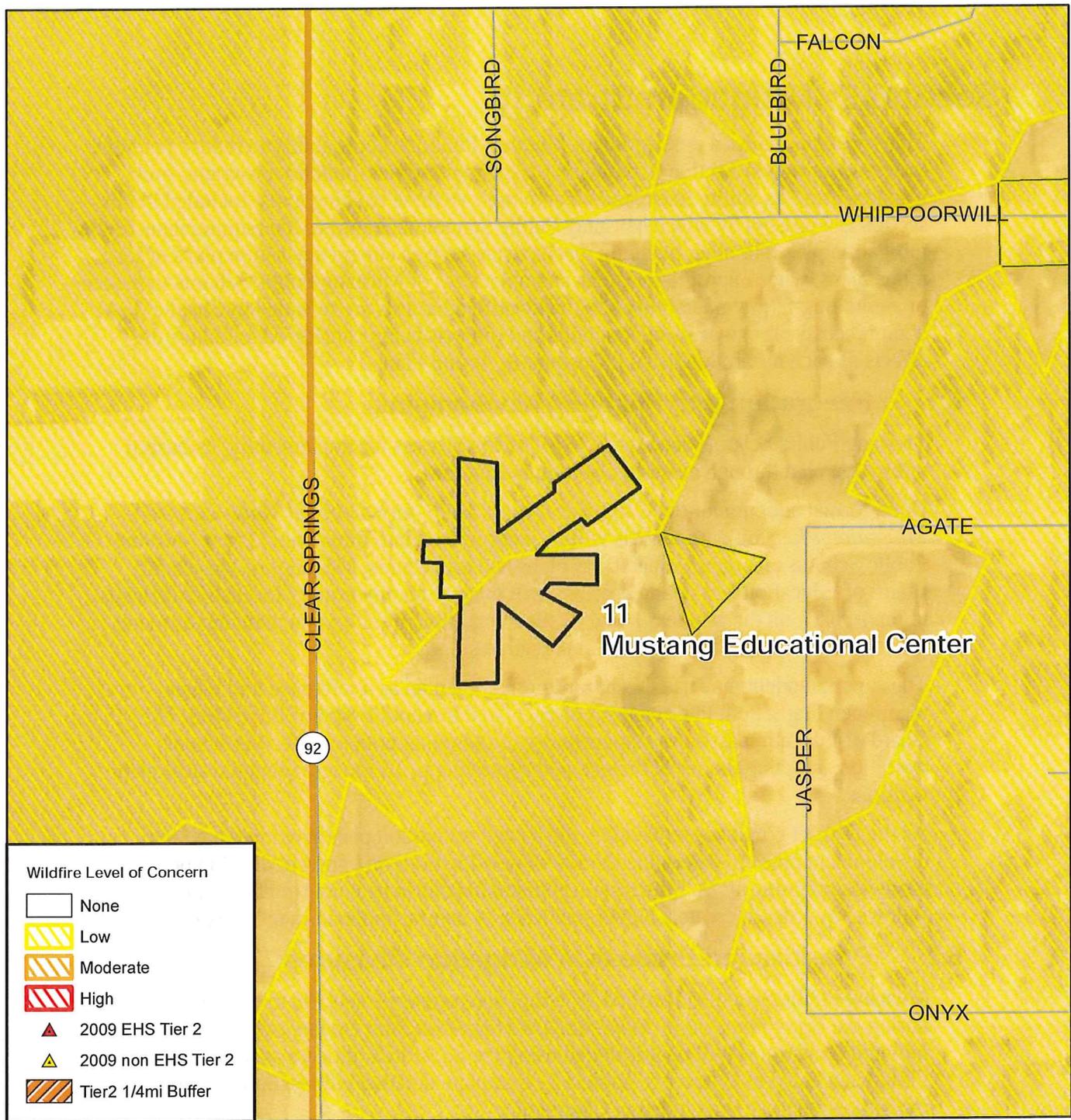
### Transportation

The Mustang Education Center is located on OK Highway 92, where the traffic count is 5,600 vehicles per day. As indicated in Chapter 4, it is not likely a transportation incident would cause direct structural damage to the school. The greatest impact would be students outside exposed to lofting chemicals, sheltering in place may be required if the incident is unable to be contained. The Education Center has not been impacted by a transportation incident involving hazardous materials in the past, although at any time

OK Hwy 92 could be the route used for transport of hazardous materials. The Center has a High vulnerability to and High probability of the Transportation hazard.

### **Hazards Summary**

Figure G.7-14 focuses on the Center site itself and illustrates the specific hazards and their individual level of potential impact on the building and its immediately surrounding area. Please note the legend accompanying Figure G.7-14 to identify individual hazards and be aware that the colors in the map may appear different due to the number of other colors that have been overlaid representing other potential hazards, thus creating a Center-site composite



**Wildfire Level of Concern**

- None
- Low
- Moderate
- High

- 2009 EHS Tier 2
- 2009 non EHS Tier 2
- Tier2 1/4mi Buffer

**LEGEND**

- Interstate
- US Highway
- State Highway
- Turnpike
- Roads
- Railroads
- 1/4mi Transport Buffer

**Expansive Soils**

- Low
- Moderate
- High
- Very High
- Water
- 100yr Floodplain

0 75 150 Feet



Figure G.7-14

**Mustang Public Schools-  
Mustang Educational Center**

**Hazard Composite**

## Section 5 Mitigation Strategy

This section provides a description of Mustang Public Schools ability to reduce potential losses, identified in Section 3, based on existing authorities, policies, programs, and resources, and its ability to expand on and improve these existing tools. Included in this section is a process by which Mustang Public School incorporates the requirements of the mitigation plan into other planning mechanisms such as emergency action plans or long range plans, when appropriate. Goals and objectives of Mustang Public Schools to reduce or avoid long-term vulnerabilities to the identified hazards are included in Chapter 5. A comprehensive range of specific actions and projects being considered to reduce the effects of each hazard are listed in Chapter 6, Action Plan.

### 5.1 Integration into Planning Mechanisms

Mustang Public Schools described the following process for implementing its hazard mitigation plan through existing planning mechanisms:

Upon formal adoption of the *Canadian County Multi-Jurisdictional Multi-Hazard Mitigation Plan*, mitigation goals will be incorporated into future versions of Mustang Public Schools emergency operations plans and procedures. Meetings of the school Board of Education and public hearings will provide an opportunity for district officials to report back on the progress made on the integration of mitigation planning elements into District planning documents and procedures.

The superintendent may use this hazard mitigation plan as a reference tool when recommending school improvement projects to the school Board of Education. The Board of Education assumes responsibility for adopting policies affecting school operation, adopting the fiscal budget, and approving plans for providing physical plant facilities.

As the District continues to develop, the hazard mitigation plan may integrated into development plans to determine the site of new facilities and prevent development in more hazard prone areas. Structural recommendations in new construction may also be followed in order to create a higher resiliency to natural and man-made hazards.

### 5.2 Prioritization Process of Mitigation Measures

Mustang Public Schools identified 20 mitigation measures, specific to their jurisdiction, during the *Canadian County Multi-Hazard Mitigation Plan Update* process. The mitigation measures will be prioritized using the STAPLEE process as recommended by FEMA, included in Chapter 5, Table 5-1. Complete detailed information for each mitigation measure is included in Chapter 6.