

Hazard Identification and Risk Assessment (HIRA) 2023

EPSOM HAZARD MITIGATION

with Overall Risk Ranking of Hazards

Meeting 1
6/14/2023
CNHRPC Contact Stephanie at salexander@cnhrpc.org

Natural Technological and Human Hazard Categories	Probability of Occurrence in 10 Years	Severity of Impact to the Town			Overall Risk SCORE	RANKED TOP Natural Hazards
		Human Injury Impact	Essential Services / Infrastructure Impact	Property Damage or Economic Impact		
		See scale below 1 Unlikely 2 Possible 3 Likely 4 Highly Likely	See scale below 1 Limited 2 Significant 3 Critical 4 Catastrophic	See scale below 1 Limited 2 Significant 3 Critical 4 Catastrophic		
					Probability x Average Severity Relative Threat SCORE 1 - 16	
DAM FAILURE Water Overtop, Breach, Beaver, etc.					0.0	
DROUGHT					0.0	
EARTHQUAKE					0.0	
EXTREME TEMPERATURES Excessive Heat, Heat Wave, or Cold, Wind Chill,					0.0	
HIGH WIND EVENTS Wind Gusts, Storms, Downbursts, Tornadoes, (Causes Tree Debris, Electric Outage)					0.0	
SEVERE RAIN STORMS Thunderstorms, Hail (causes Wind, Flood)					0.0	
INLAND FLOODING Rainstorms, Snow Melt, Flash Floods, Ditch Erosion, Washouts, Pond Overtop, etc					0.0	
LANDSLIDE Soil, Rockslide, Excavation Areas, etc					0.0	
LIGHTNING					0.0	
PUBLIC HEALTH Infectious Diseases, Air & Water Quality,					0.0	
RIVER HAZARDS Ice Jams, Scouring, Erosion, Channel Movement,					0.0	
SEVERE WINTER WEATHER Snow, Ice, Blizzard, etc					0.0	
SOLAR STORMS AND SPACE WEATHER Solar Winds, Geomagnetic Storms (Aurora Borealis), Solar Radiation, Radio Blackout, etc					0.0	
TROPICAL AND POST-TROPICAL CYCLONES Hurricanes, Tropical Storms, Tree Debris					0.0	
WILDFIRE Brushfire, Outdoor Fires, Accidental, etc					0.0	
CLIMATE CHANGE EFFECTS Warming in Winter, Variable Temps, Drought, More Rain Storms, High Winds Events	keep or remove?				#VALUE!	
Technological and Human Hazards, Impacts from Natural Hazards	Not scored in HIRA					

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NATURAL HAZ IMPACTS: AGING INFRASTRUCTURE Bridges, Culverts, Roads, Pipes, Underground	not scored	not scored	not scored	not scored	not scored	not ranked
NATURAL HAZ IMPACTS: LONG TERM UTILITY OUTAGE Power, Water, Sewer, Gas, Internet,	not scored	not scored	not scored	not scored	not scored	not ranked
FIRE Vehicle, Structure, Arson, Conflagration, etc	not scored	not scored	not scored	not scored	not scored	not ranked
HAZARDOUS MATERIALS Haz Mat Spills, Brownfields, Trucking, etc	not scored	not scored	not scored	not scored	not scored	not ranked
TRANSPORTATION CRASH Vehicle, Airplane, Helicopter, Rail, Interstate, Pedestrian, Bicycle, etc	not scored	not scored	not scored	not scored	not scored	not ranked
MASS CASUALTY INCIDENT As a result of any hazard event	not scored	not scored	not scored	not scored	not scored	not ranked
TERRORISM/ VIOLENCE Active Shooter, Hostage, Public Harm, Civil Disturbance/ Unrest, Politically Motivated Attacks, Incendiary Devices, Sabotage,	not scored	not scored	not scored	not scored	not scored	not ranked
CYBER EVENT Computer Systems Attack, Website Overtake, Cloud Data Breach, Telephone Rerouting, Identity Theft, Phishing, Ransomware, Virus,	not scored	not scored	not scored	not scored	not scored	not ranked

Probability of Occurrence in 10 Years

1	Unlikely	0 - 25% chance
2	Possible	25 - 50% chance
3	Likely	51 - 75% chance
4	Highly Likely	76 - 100% chance

Severity of Impact to the Town

1	Limited	Human Injury: ♦ Injuries treatable with first aid. Essential Services/Infrastructure: ♦ Minor "quality of life" disturbance, shutdown for 3 days or less. Property or Economic Damage: ♦ Less than 10%.
2	Significant	Human Injury: ♦ Significant injuries or illnesses result in no permanent disability. Essential Services/Infrastructure: ♦ Shutdown for up to 2 weeks. Property or Economic Damage: ♦ 10% to 25%.
3	Critical	Human Injury: ♦ Significant injuries or illnesses result in permanent disability. Essential Services/Infrastructure: ♦ Complete shutdown for at least 2 weeks. Property or Economic Damage: ♦ 25% to 50%.
4	Catastrophic	Human Injury: ♦ Death or multiple deaths. Essential Services/Infrastructure: ♦ Complete shutdown for 30 days or more. Property or Economic Damage: ♦ Greater than 50%.