

APPENDIX E: HAZNY RESULTS

The Village of Briarcliff Manor (Village), in conjunction with the Westchester County Office of Emergency Management (WCOEM), assembled a group of local and County officials and members of emergency services-related agencies, organizations and homeowner's groups to support the hazard identification process. Management representatives from Village entities also participated.

The process began with the application of HAZNY, the statewide hazard screening tool that considers a range of factors that can impact a hazard's importance within a given community. The participating team provided significant input. The Village conducted a hazard analysis for natural and man-made hazards using HAZNY on February 12, 2005, and identified a list of 19 hazards of concern. During this HAZNY screening process, these hazards were categorized numerically as: a high hazard (321-400), moderately high hazard (241-320), moderately low hazard (161-240) or a low hazard (44-160). The list of primary hazards of interest, listed by numerical rating, included the following hazards: water supply contamination, Indian Point Nuclear Power Plant, fire, severe storms, utility failure, oil spill, winter storm (severe), flood, hazardous materials (fixed site), explosion, civil unrest, hazardous materials (in transit), structural collapse, drought, wildfire, terrorism, transportation accident, radiological (fixed site) and radiological (in transit) (Briarcliff Manor HAZNY, 2005).

All natural hazards were considered. However, some natural hazards (for example, tsunami, avalanche, coastal erosion, and volcanoes) were not considered geographically relevant and therefore, were not considered further as part of this risk assessment. Also, some hazards that could occur in the area were screened out during the initial phase, based on low frequency or impact estimated for this Village. Landslide and earthquake hazards were initially screened out, based on historically low frequency and/or low potential losses for these hazards in the Village. The basis for screening out these two hazards is presented below.

The Village lies within an area with low incidence of landslides. Though landslides have been observed sporadically in the region, especially in areas with steeper topography, events are highly localized and are not considered likely to result in losses or response costs comparable to other hazards in the area.

The earthquake hazard is not considered a major hazard of concern for this study area. No major faults lie in the study area and, according to earthquake data provided by NYSEMO, peak ground acceleration values (a critical parameter in the prediction of areas subject to major losses associated with earthquakes) for WC are in the lowest category on the scale. While the Village has felt earthquake tremors in the past, there are no recorded historic losses of resources or assets in the Village and earthquakes are not expected to present a major risk in the future. While earthquakes are possible anywhere, concerns associated with them represent a far lower priority to the Village than the hazards selected for further evaluation.

Table E-1 summarizes the remaining list of hazards analyzed using the HAZNY process, and their relative rankings, in order of their initial hazard "score." These hazard represent natural and man-made hazards of potential concern. Further screening was conducted as part of the hazard mitigation planning process, as presented in Section 5 of this Hazard Mitigation Plan.

Table E-1. Summary of HAZNY Qualitative Hazard Ranking for the Village of Briarcliff Manor

Ranking	Hazard in this Category	Initial Average Ranking Score (average for the County)
Moderately High Hazard (241 - 320)	Water Supply Contamination	313
	Indian Point (Nuclear Power Plant)	252
	Fire	244
	Severe Storm	244
	Utility Failure	244
	Oil Spill	240
Moderately Low Hazard (161 – 240)	Winter Storm (severe)	238
	Flood	229
	Hazardous Materials (Fixed Site)	224
	Explosion	220
	Civil Unrest	208
	Hazardous Materials (In Transit)	198
	Structural Collapse	197
	Drought	194
	Wildfire	188
	Terrorism	167
Low Hazard (44 – 160)	Transportation Accident	155
	Radiological (Fixed Site)	136
	Radiological (In Transit)	120

Source: Briarcliff Manor Hazard Analysis Report (HAZNY, 2005).