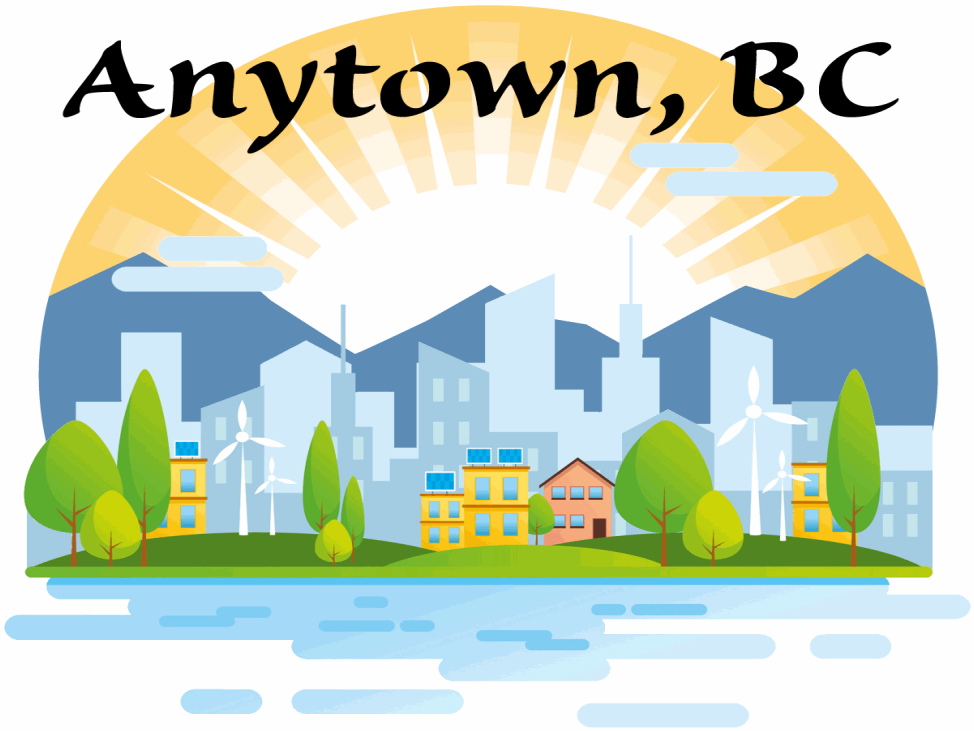



# HRVA Report: Anytown, BC

**Community Name: Emergency Management BC**

**Completed By: Gerald Smith**

**Date: December 3, 2020 11:15 am**

## Introduction

The purpose of a Hazard Risk and Vulnerability Analysis is to help a community make risk-based choices to address vulnerabilities, mitigate hazards and prepare for responding to and recovering from hazard events. The HRVA process assesses sources of potential harm, their likelihood of occurring, the severity of their possible impacts, and who or what is particularly exposed or vulnerable to these impacts. The results from an HRVA are foundational for any community emergency management program.

This Hazard, Risk, and Vulnerability Analysis is based on recommended practices and standards for conducting a local hazard risk assessment. Elements of this report were generated using the Hazard, Risk, and Vulnerability Analysis Tool for First Nations & Local Authorities produced by Emergency Management British Columbia (EMBC). The tool was developed with the support of a working group of emergency management practitioners across British Columbia, as well as the Alberta Emergency Management Agency (AEMA), through funding opportunities under the Federal Government's National Disaster Mitigation Program (NDMP). The tool and its supporting documents are provided free of charge to First Nations and Local Authorities in British Columbia.

This HRVA supports the implementation of the Local Authority Emergency Management Regulation 2(1) which requires local authority emergency plans to be reflective of a local risk assessment.

## Methodology

The disaster risk calculations and visualizations used in this assessment are based on common practices for conceptualizing risk. It is important to note that there are many ways of conceptualizing risk; quantitative data is only one aspect of risk analysis, and a number of additional qualitative factors will often influence local decision making. This tool and its outputs should be considered as one element of a comprehensive Disaster Risk Reduction (DRR) program, and can help inform emergency planning and risk reduction strategy development at the community level.

The hazard list referenced within this report is based on the 57 Hazards identified in the Emergency Management Regulation (update) as well as any unique local hazards identified during the HRVA Process. For additional information on hazard identification and the HRVA process, please feel free to visit the Emergency Management British Columbia website. [1]

[1] https://www2.gov.bc.ca/gov/content/safety/emergency-preparedness-response-recovery

## All-Hazards Summary

The following table is produced from the values input into the Current and Future Likelihood Tables of the EMBC HRVA Tool, as well as the Consequence Assessment Tables. Data calculations alone do not always account for the core values of the community, and a specific hazard(s) priority number may have been intentionally adjusted to better reflect local concerns.

| Risk Level Colour Codes | Low Likelihood / Low Consequence | High Likelihood / Low Consequence | Medium Likelihood/ Med. Consequence | Low Likelihood/ High Consequence | High Likelihood/ High Consequence |
|---|---|---|---|---|---|

| Likelihood Scoring | A - Rare | B - Unlikely | C - Possible | D - Likely | E - Almost Certain |
|---|---|---|---|---|---|

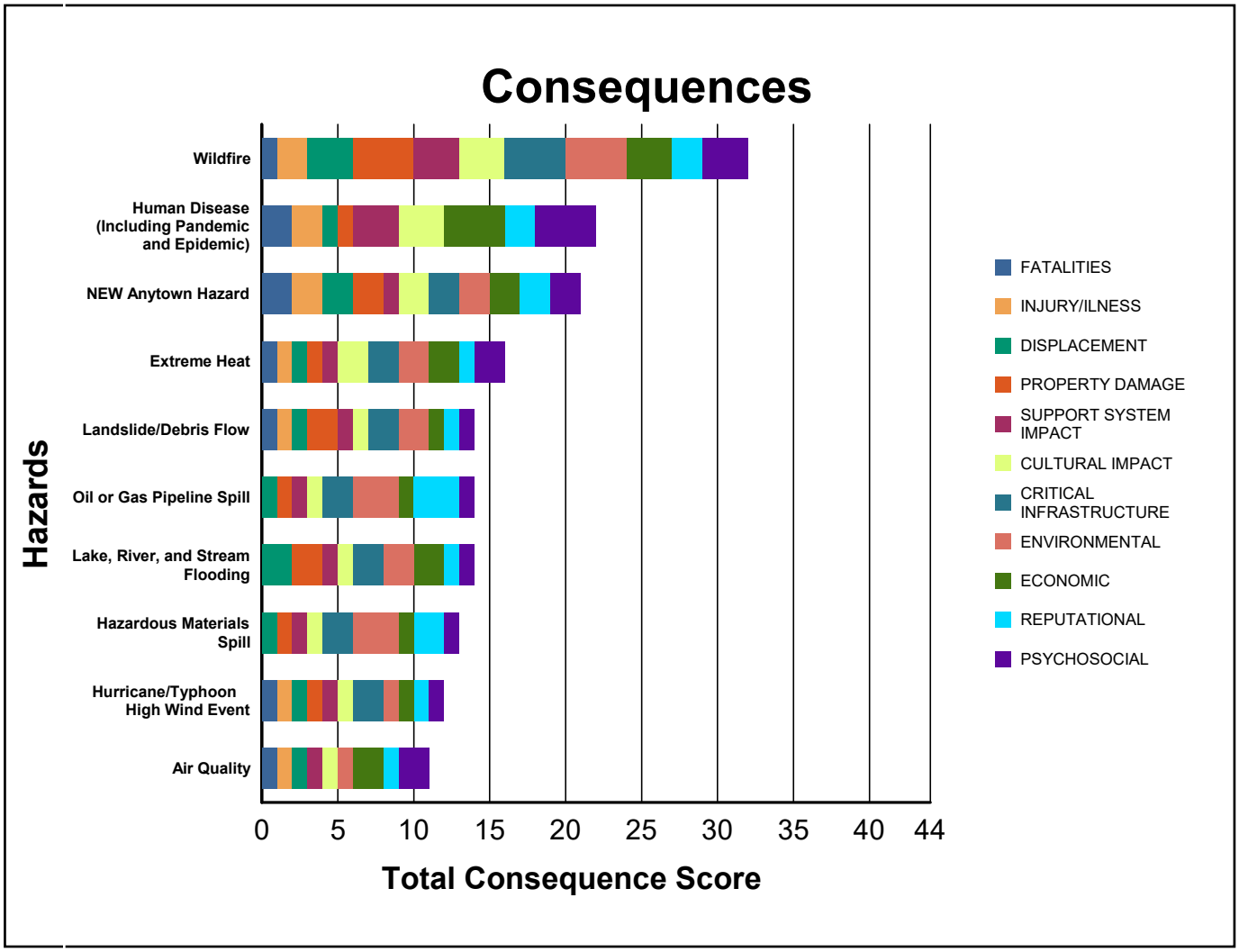
| Consequence Total | Combined scores of 11 specific categories - Maximum possible score of 44 |
|---|---|

| Priority | Hazard List | Current Likelihood | Consequence Total | Risk Level | Future Likelihood |
|---|---|---|---|---|---|
| 1 | **Wildfire** | **D** | **32** | High Likelihood/ High Consequence | **D** |
| 2 | **Human Disease (Including Pandemic and Epidemic)** | **E** | **22** | High Likelihood/ High Consequence | **D** |
| 3 | **NEW Anytown Hazard** | **C** | **21** | Medium Likelihood/ Med. Consequence | **C** |
| 4 | **Extreme Heat** | **D** | **16** | High Likelihood/ Low Consequence | **D** |
| 5 | **Landslide/Debris Flow** | **C** | **14** | High Likelihood/ Low Consequence | **D** |
| 6 | **Oil or Gas Pipeline Spill** | **B** | **14** | Low Likelihood/ Low Consequence | **B** |
| 7 | **Lake, River, and Stream Flooding** | **D** | **14** | High Likelihood/ Low Consequence | **D** |
| 8 | **Hazardous Materials Spill** | **B** | **13** | Low Likelihood/ Low Consequence | **B** |
| 9 | **Hurricane/Typhoon/High Wind Event** | **C** | **12** | High Likelihood/ Low Consequence | **D** |
| 10 | **Air Quality** | **C** | **11** | High Likelihood/ Low Consequence | **D** |

## All-Hazards Consequence Breakdown

Consequence Scores are an amalgamation of 11 specific categories found within the EMBC HRVA Consequence Tables. Each individual consequence category is scored from 0 - 4 (None - Extreme), with a possible combined high score of 44 for any single hazard. A visual breakdown of the total scores into each of the sub-categories is reflected in the consequence stacking table. Only categories that received a numerical score of 1 or higher are shown on the graph.

| Individual Consequence Scoring | 0 - None | 1 - Low | 2 - Medium | 3 - High | 4 - Extreme |
|---|---|---|---|---|---|



## Community Mapping Summary

Community maps saved on internal server [specific location link]; detailed map of community geography and demographics; map of critical infrastructure; map of the power grid; map of communications hardware; map of community facilities.

## Critical Assets & Infrastructure Summary

Hydro transmission systems, hydro substations, under-ground, and above-ground distribution systems
Telephone systems; cell towers; radio systems.

## Social & Economic Factor Summary

- High density low-income multi-unit dwellings vulnerable residents (mobility, communication, language, living alone).
- Transportation limitations - more and more electric personal and fleet vehicles
Major transportation route through the community with increasing pressures from commercial traffic
- High numbers of pedestrian and bike traffic: street lighting, traffic light, safety lighting
Full documentation available at [server location].

## Physical & Environmental Factor Summary

Critical systems dependent on power such as water supply, gas supply, hydro supply, wastewater.

## Underlying Disaster Risk Driver Summary

Large population of under-housed persons
Large population of retirees and seniors
Capacity bottlenecks from off-island power generation mixed with high density growth in the region

## Hazard Scenario Summary

Refer to the Hazard Scenario worksheets.

# Individual Hazard Breakdown

## Hazard: WILDFIRE Priority: 1

### Hazard Score: 32

### Individual Hazard Summary Table

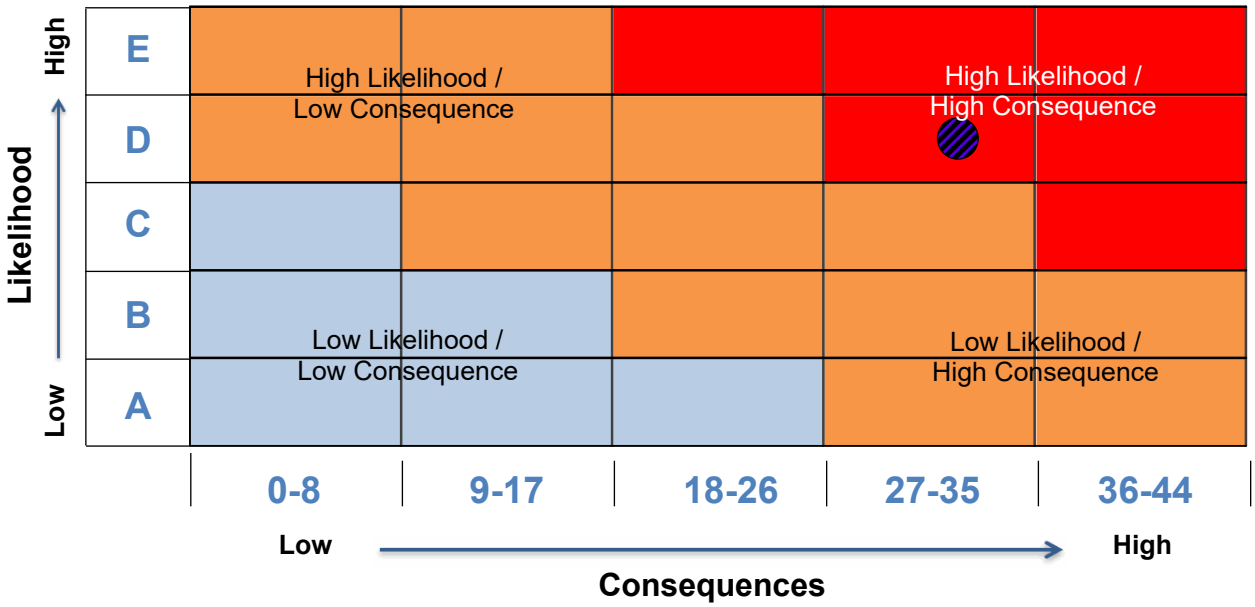
| Hazard | Current Likelihood | Consequence Total | Risk Level | Future Likelihood |
|---|---|---|---|---|
| WILDFIRE | D | 32 | High Likelihood/ High Consequence | D |

| Risk Level Colour Codes | Low Likelihood / Low Consequence | High Likelihood / Low Consequence | Medium Likelihood / Med. Consequence | Low Likelihood / High Consequence | High Likelihood / High Consequence |
|---|---|---|---|---|---|
| Likelihood Scoring | A - Rare | B - Unlikely | C - Possible | D - Likely | E - Almost Certain |
| Consequence Total | Combined scores of 11 specific categories - Maximum possible score of 44 | | | | |

The preceding table is produced from the values input into the Current and Future Likelihood Tables of the EMBC HRVA Tool, as well as the Consequence Assessment Tables. Data calculations alone do not always account for the core values of the community, and a specific hazard(s) priority number may have been intentionally adjusted to better reflect local concerns.

## RISK MATRIX TABLE

For Wildfire

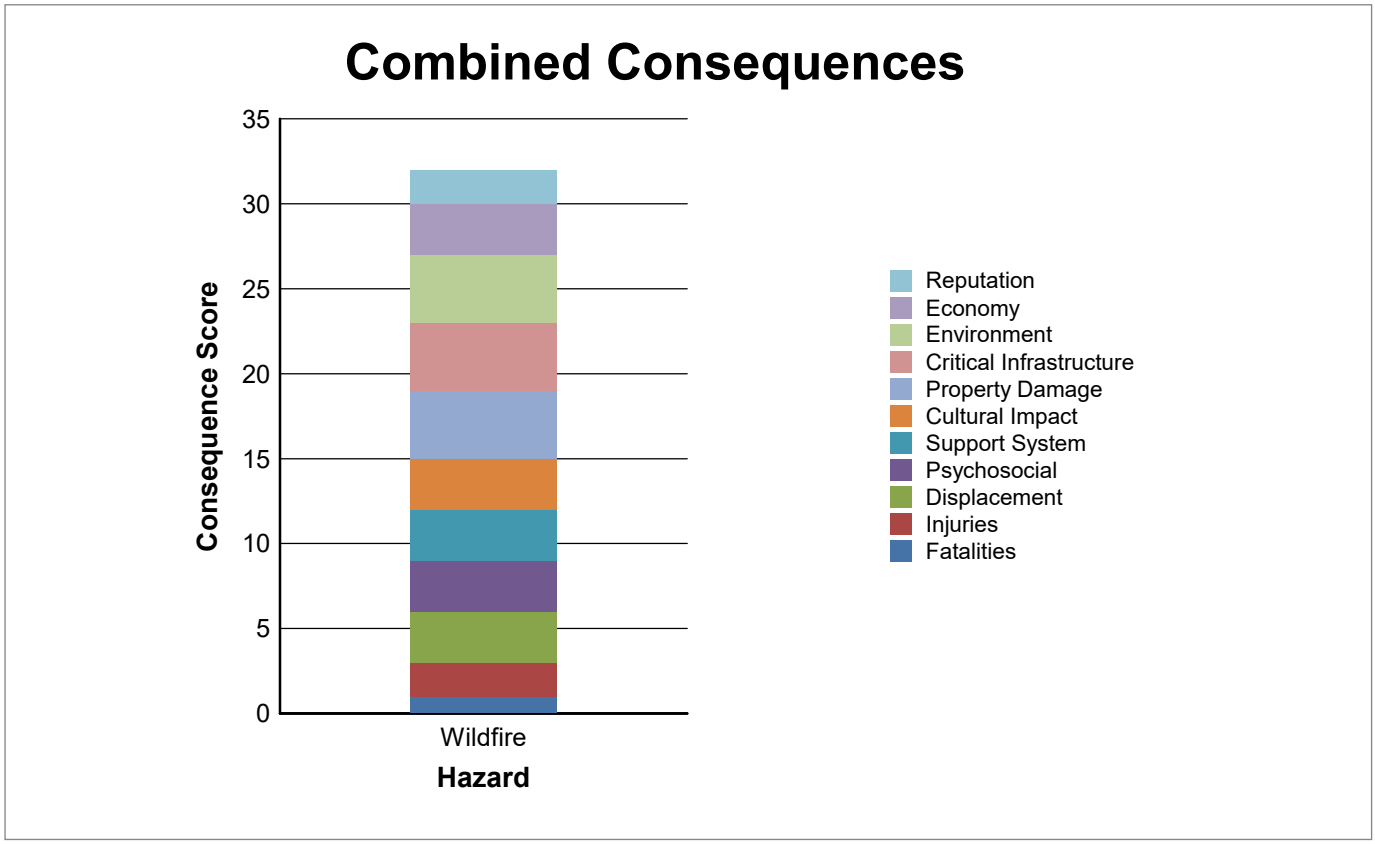


## Individual Consequence Breakdown

Consequence Scores are an amalgamation of 11 specific categories found within the EMBC HRVA Consequence Tables. Each individual consequence category is scored from 0 - 4 (None - Extreme), with a possible combined high score of 44 for any single hazard. A visual breakdown of the total scores into each of the sub-categories is reflected in the consequence stacking table. Only categories that received a numerical score of 1 or higher are shown on the graph.

| Individual Consequence Scoring | 0 - None | 1 - Low | 2 - Medium | 3 - High | 4 - Extreme |
|---|---|---|---|---|---|

### Consequence Stacking Table



## Scientific Data Summary

## Local Knowledge Summary

## Changes Observed to Date Summary

## Future Changes Expected Summary

## Consequence Rating Comments

## Existing Risk Reduction Measures

Anytown promotes community FireSmart. We hold a special one-day event to pick up vegetation from home owners.

## New Risk Reduction Measures

# Individual Hazard Breakdown

## Hazard: HUMAN DISEASE (INCLUDING PANDEMIC AND EPIDEMIC) Priority: 2

**Hazard Score: 22**

## Individual Hazard Summary Table

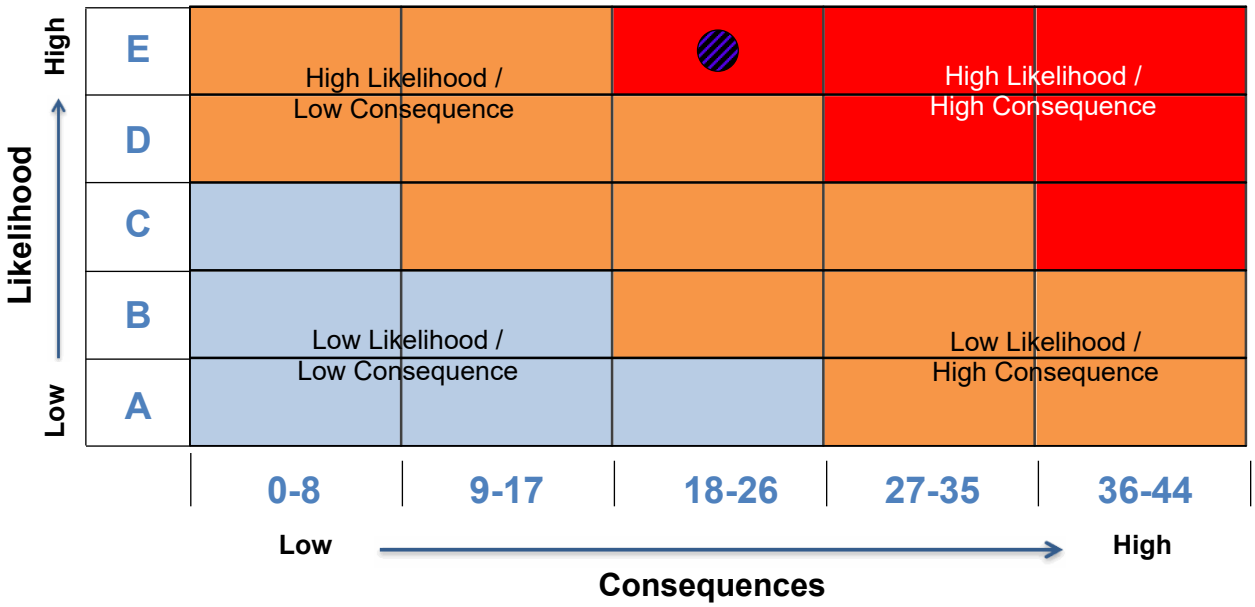
| Hazard | Current Likelihood | Consequence Total | Risk Level | Future Likelihood |
|---|---|---|---|---|
| HUMAN DISEASE (INCLUDING PANDEMIC AND | E | 22 | High Likelihood/ High Consequence | D |

| Risk Level Colour Codes | Low Likelihood / Low Consequence | High Likelihood / Low Consequence | Medium Likelihood / Med. Consequence | Low Likelihood / High Consequence | High Likelihood / High Consequence |
|---|---|---|---|---|---|
| Likelihood Scoring | A - Rare | B - Unlikely | C - Possible | D - Likely | E - Almost Certain |
| Consequence Total | Combined scores of 11 specific categories - Maximum possible score of 44 | | | | |

The preceding table is produced from the values input into the Current and Future Likelihood Tables of the EMBC HRVA Tool, as well as the Consequence Assessment Tables. Data calculations alone do not always account for the core values of the community, and a specific hazard(s) priority number may have been intentionally adjusted to better reflect local concerns.

## RISK MATRIX TABLE

For Human Disease (Including Pandemic and Epidemic)

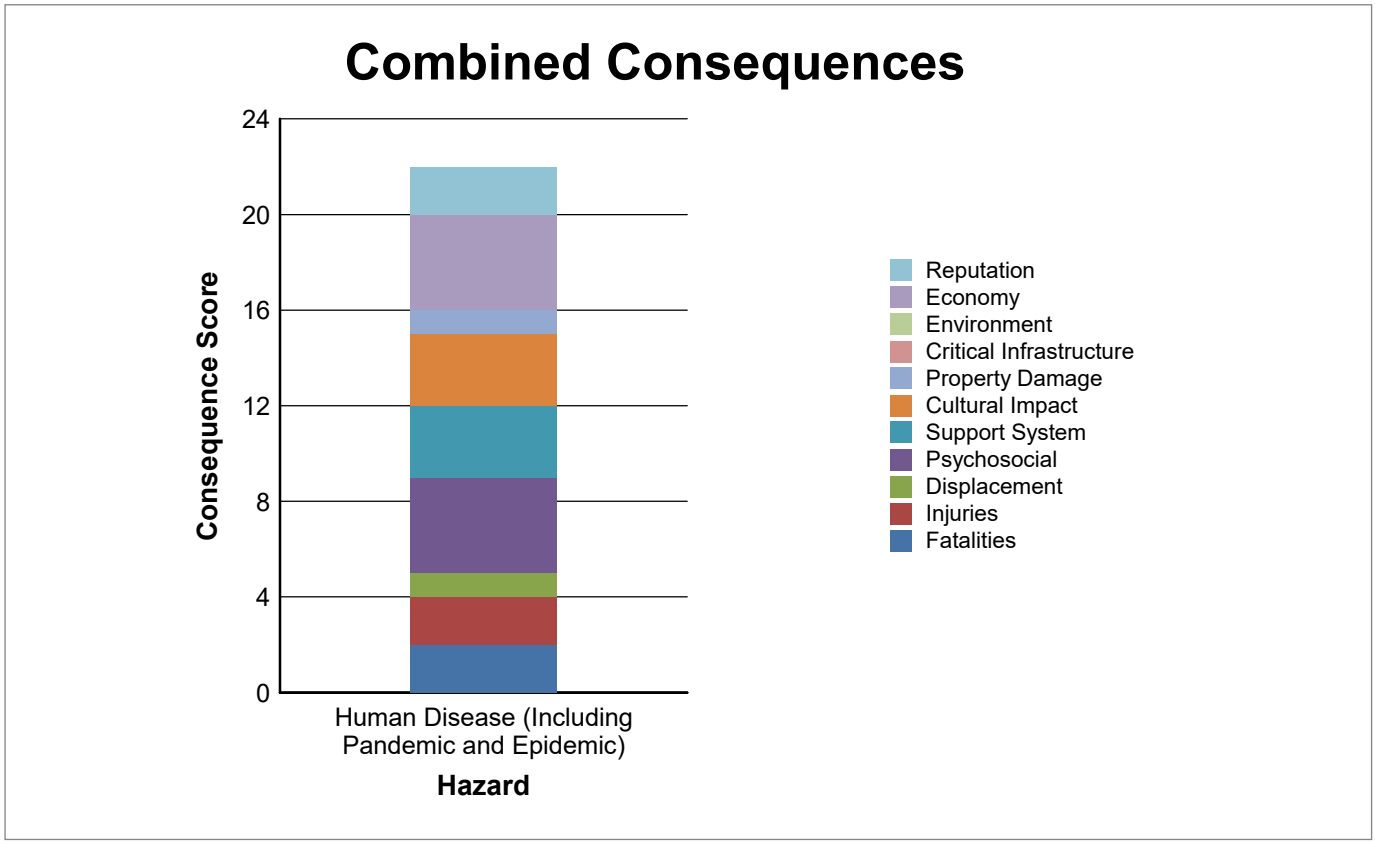


## Individual Consequence Breakdown

Consequence Scores are an amalgamation of 11 specific categories found within the EMBC HRVA Consequence Tables. Each individual consequence category is scored from 0 - 4 (None - Extreme), with a possible combined high score of 44 for any single hazard. A visual breakdown of the total scores into each of the sub-categories is reflected in the consequence stacking table. Only categories that received a numerical score of 1 or higher are shown on the graph.

| Individual Consequence Scoring | 0 - None | 1 - Low | 2 - Medium | 3 - High | 4 - Extreme |
|---|---|---|---|---|---|

### Consequence Stacking Table



## Scientific Data Summary

## Local Knowledge Summary

## Changes Observed to Date Summary

## Future Changes Expected Summary

## Consequence Rating Comments

## Existing Risk Reduction Measures

We are following Public Health Orders for the COVID-19 pandemic.

## New Risk Reduction Measures

# Individual Hazard Breakdown

## Hazard: NEW ANYTOWN HAZARD Priority: 3

### Hazard Score: 21

### Individual Hazard Summary Table

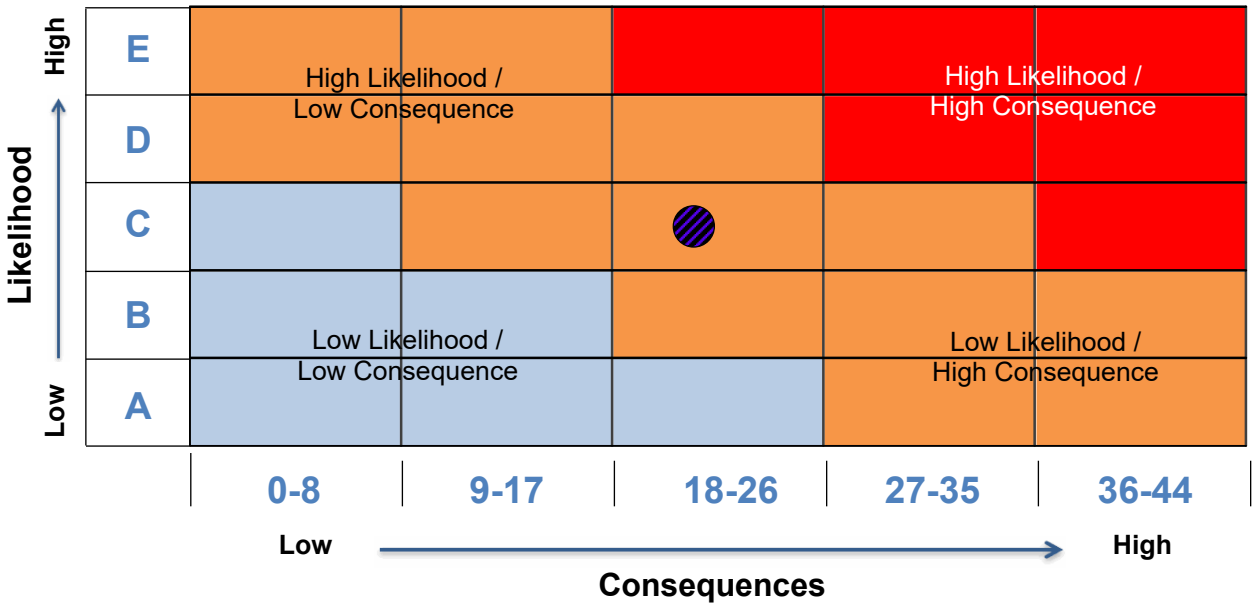
| Hazard | Current Likelihood | Consequence Total | Risk Level | Future Likelihood |
|---|---|---|---|---|
| NEW ANYTOWN HAZARD | C | 21 | Medium Likelihood/ Med. Consequence | C |

| Risk Level Colour Codes | Low Likelihood / Low Consequence | High Likelihood / Low Consequence | Medium Likelihood / Med. Consequence | Low Likelihood / High Consequence | High Likelihood / High Consequence |
|---|---|---|---|---|---|
| Likelihood Scoring | A - Rare | B - Unlikely | C - Possible | D - Likely | E - Almost Certain |
| Consequence Total | Combined scores of 11 specific categories - Maximum possible score of 44 | | | | |

The preceding table is produced from the values input into the Current and Future Likelihood Tables of the EMBC HRVA Tool, as well as the Consequence Assessment Tables. Data calculations alone do not always account for the core values of the community, and a specific hazard(s) priority number may have been intentionally adjusted to better reflect local concerns.

## RISK MATRIX TABLE

For NEW Anytown Hazard

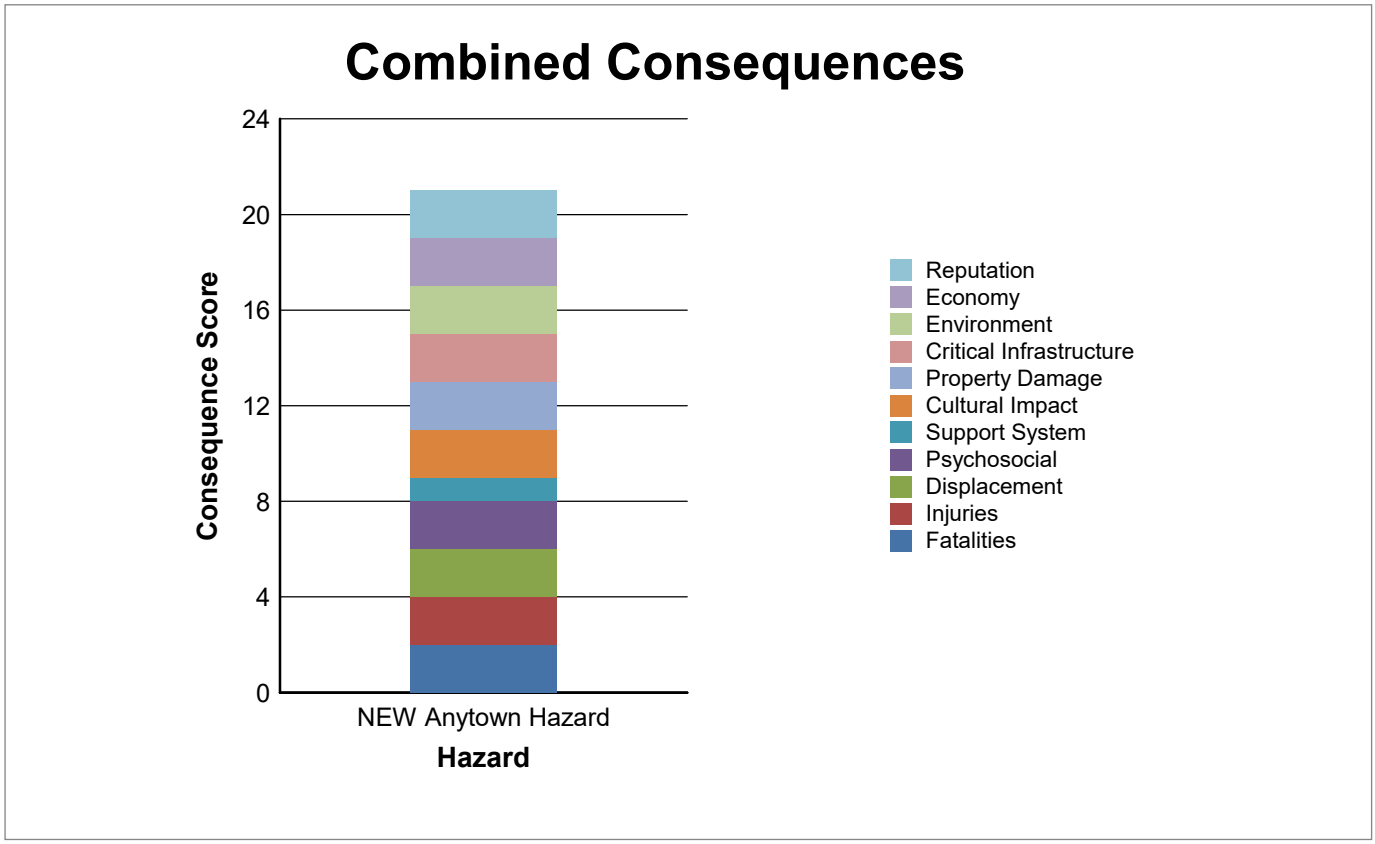


## Individual Consequence Breakdown

Consequence Scores are an amalgamation of 11 specific categories found within the EMBC HRVA Consequence Tables. Each individual consequence category is scored from 0 - 4 (None - Extreme), with a possible combined high score of 44 for any single hazard. A visual breakdown of the total scores into each of the sub-categories is reflected in the consequence stacking table. Only categories that received a numerical score of 1 or higher are shown on the graph.

| Individual Consequence Scoring | 0 - None | 1 - Low | 2 - Medium | 3 - High | 4 - Extreme |
|---|---|---|---|---|---|

### Consequence Stacking Table



## Scientific Data Summary

## Local Knowledge Summary

## Changes Observed to Date Summary

## Future Changes Expected Summary

## Consequence Rating Comments

## Existing Risk Reduction Measures

Anytown recently discovered a new hazard, we have to contact an engineering company for risk assessment.

## New Risk Reduction Measures

# Individual Hazard Breakdown

## Hazard: EXTREME HEAT Priority: 4

### Hazard Score: 16

### Individual Hazard Summary Table

| Hazard | Current Likelihood | Consequence Total | Risk Level | Future Likelihood |
|---|---|---|---|---|
| EXTREME HEAT | D | 16 | High Likelihood/ Low Consequence | D |

| Risk Level Colour Codes | Low Likelihood / Low Consequence | High Likelihood / Low Consequence | Medium Likelihood / Med. Consequence | Low Likelihood / High Consequence | High Likelihood / High Consequence |
|---|---|---|---|---|---|

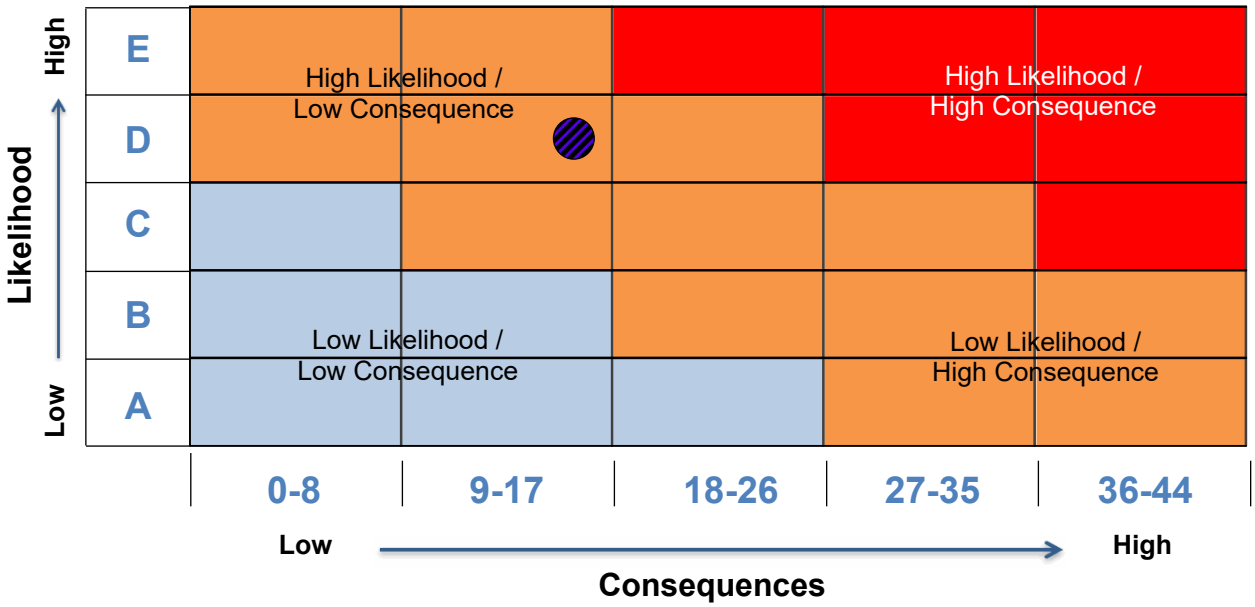
| Likelihood Scoring | A - Rare | B - Unlikely | C - Possible | D - Likely | E - Almost Certain |
|---|---|---|---|---|---|

| Consequence Total | Combined scores of 11 specific categories - Maximum possible score of 44 |
|---|---|

The preceding table is produced from the values input into the Current and Future Likelihood Tables of the EMBC HRVA Tool, as well as the Consequence Assessment Tables. Data calculations alone do not always account for the core values of the community, and a specific hazard(s) priority number may have been intentionally adjusted to better reflect local concerns.

## RISK MATRIX TABLE

For Extreme Heat

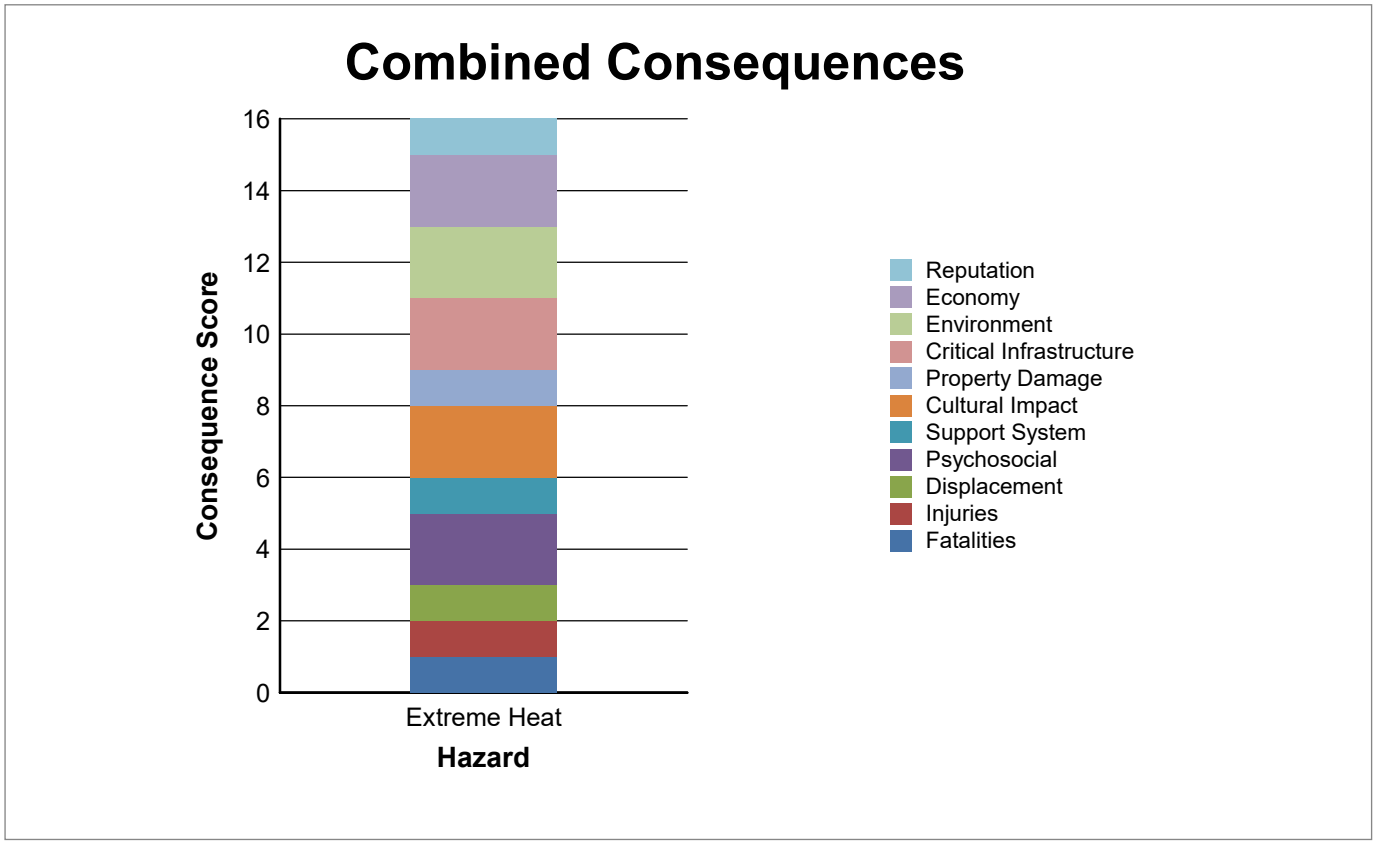


## Individual Consequence Breakdown

Consequence Scores are an amalgamation of 11 specific categories found within the EMBC HRVA Consequence Tables. Each individual consequence category is scored from 0 - 4 (None - Extreme), with a possible combined high score of 44 for any single hazard. A visual breakdown of the total scores into each of the sub-categories is reflected in the consequence stacking table. Only categories that received a numerical score of 1 or higher are shown on the graph.

| Individual Consequence Scoring | 0 - None | 1 - Low | 2 - Medium | 3 - High | 4 - Extreme |
|---|---|---|---|---|---|

### Consequence Stacking Table



## Scientific Data Summary

## Local Knowledge Summary

## Changes Observed to Date Summary

TEST

## Future Changes Expected Summary

## Consequence Rating Comments

## Existing Risk Reduction Measures

## New Risk Reduction Measures

Heat - New Recommendations TBD

# Individual Hazard Breakdown

## Hazard: LANDSLIDE/DEBRIS FLOW Priority: 5

### Hazard Score: 14

### Individual Hazard Summary Table

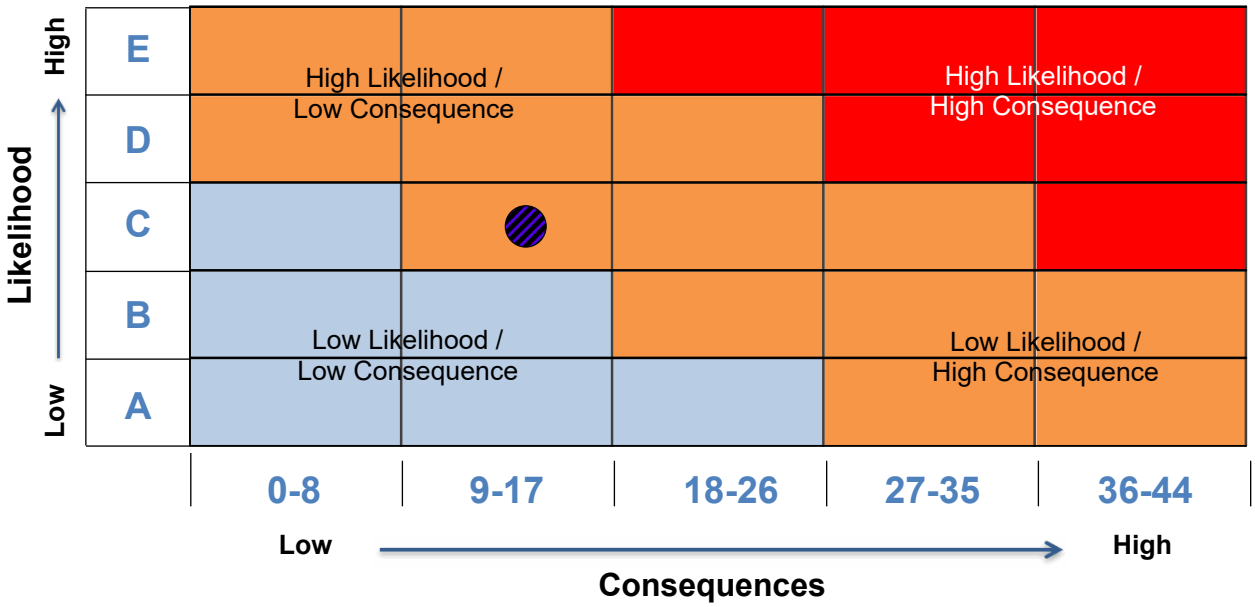
| Hazard | Current Likelihood | Consequence Total | Risk Level | Future Likelihood |
|---|---|---|---|---|
| LANDSLIDE/DEBRIS FLOW | C | 14 | High Likelihood/ Low Consequence | D |

| Risk Level Colour Codes | Low Likelihood / Low Consequence | High Likelihood / Low Consequence | Medium Likelihood / Med. Consequence | Low Likelihood / High Consequence | High Likelihood / High Consequence |
|---|---|---|---|---|---|
| Likelihood Scoring | A - Rare | B - Unlikely | C - Possible | D - Likely | E - Almost Certain |
| Consequence Total | Combined scores of 11 specific categories - Maximum possible score of 44 | | | | |

The preceding table is produced from the values input into the Current and Future Likelihood Tables of the EMBC HRVA Tool, as well as the Consequence Assessment Tables. Data calculations alone do not always account for the core values of the community, and a specific hazard(s) priority number may have been intentionally adjusted to better reflect local concerns.

## RISK MATRIX TABLE

For Landslide/Debris Flow

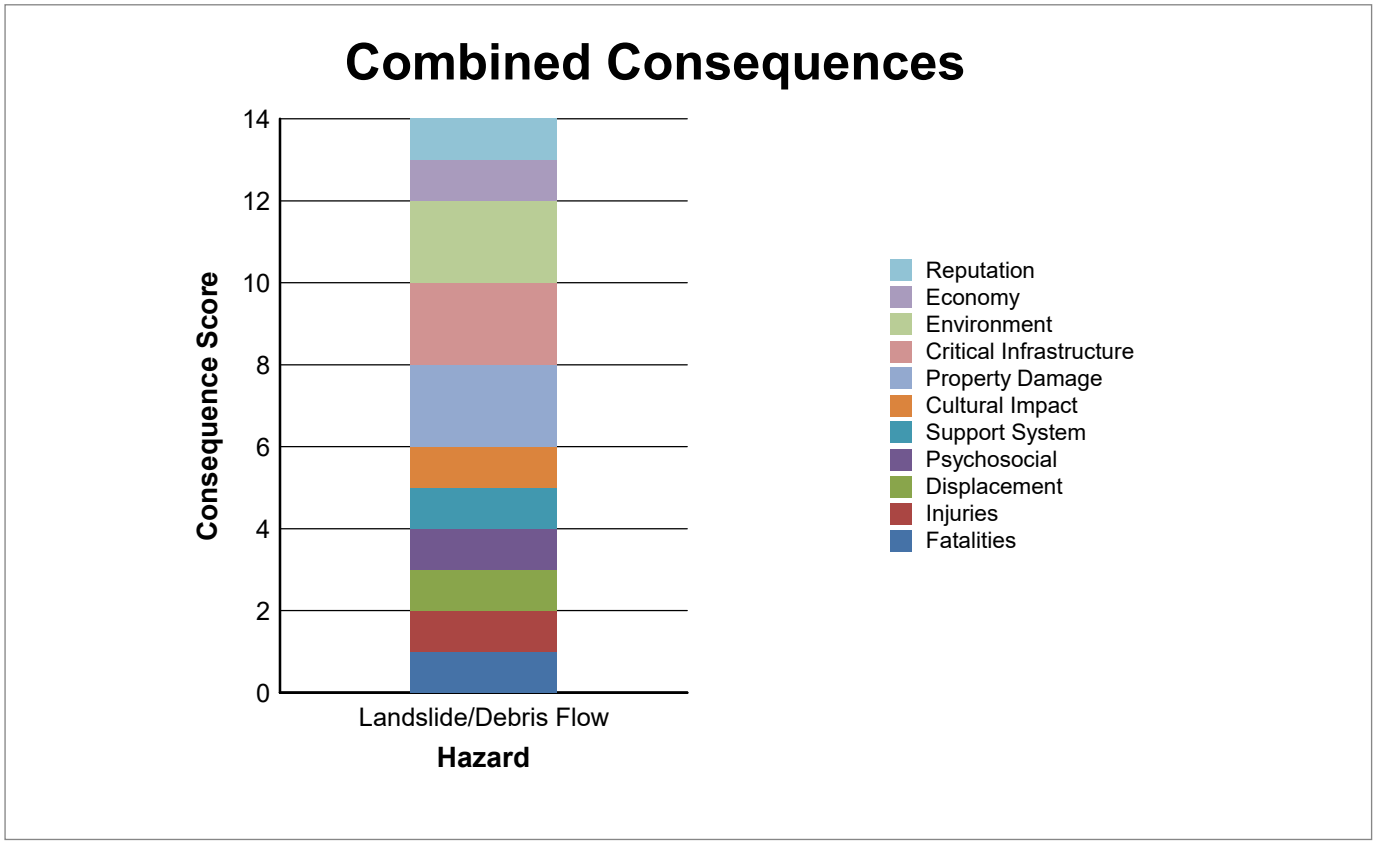


## Individual Consequence Breakdown

Consequence Scores are an amalgamation of 11 specific categories found within the EMBC HRVA Consequence Tables. Each individual consequence category is scored from 0 - 4 (None - Extreme), with a possible combined high score of 44 for any single hazard. A visual breakdown of the total scores into each of the sub-categories is reflected in the consequence stacking table. Only categories that received a numerical score of 1 or higher are shown on the graph.

| Individual Consequence Scoring | 0 - None | 1 - Low | 2 - Medium | 3 - High | 4 - Extreme |
|---|---|---|---|---|---|

### Consequence Stacking Table



## Scientific Data Summary

## Local Knowledge Summary

## Changes Observed to Date Summary

## Future Changes Expected Summary

## Consequence Rating Comments

## Existing Risk Reduction Measures

The highway that passes through Anytown has several locations that are susceptible to debris flow during heavy rains. If heavy-rains are forecasted, the Ministry of Highways will set-up appropriate signage.

## New Risk Reduction Measures

# Individual Hazard Breakdown

## Hazard: OIL OR GAS PIPELINE SPILL Priority: 6

### Hazard Score: 14

### Individual Hazard Summary Table

| Hazard | Current Likelihood | Consequence Total | Risk Level | Future Likelihood |
|---|---|---|---|---|
| OIL OR GAS PIPELINE SPILL | B | 14 | Low Likelihood/ Low Consequence | B |

| Risk Level Colour Codes | Low Likelihood / Low Consequence | High Likelihood / Low Consequence | Medium Likelihood / Med. Consequence | Low Likelihood / High Consequence | High Likelihood / High Consequence |
|---|---|---|---|---|---|
| Likelihood Scoring | A - Rare | B - Unlikely | C - Possible | D - Likely | E - Almost Certain |
| Consequence Total | Combined scores of 11 specific categories - Maximum possible score of 44 | | | | |

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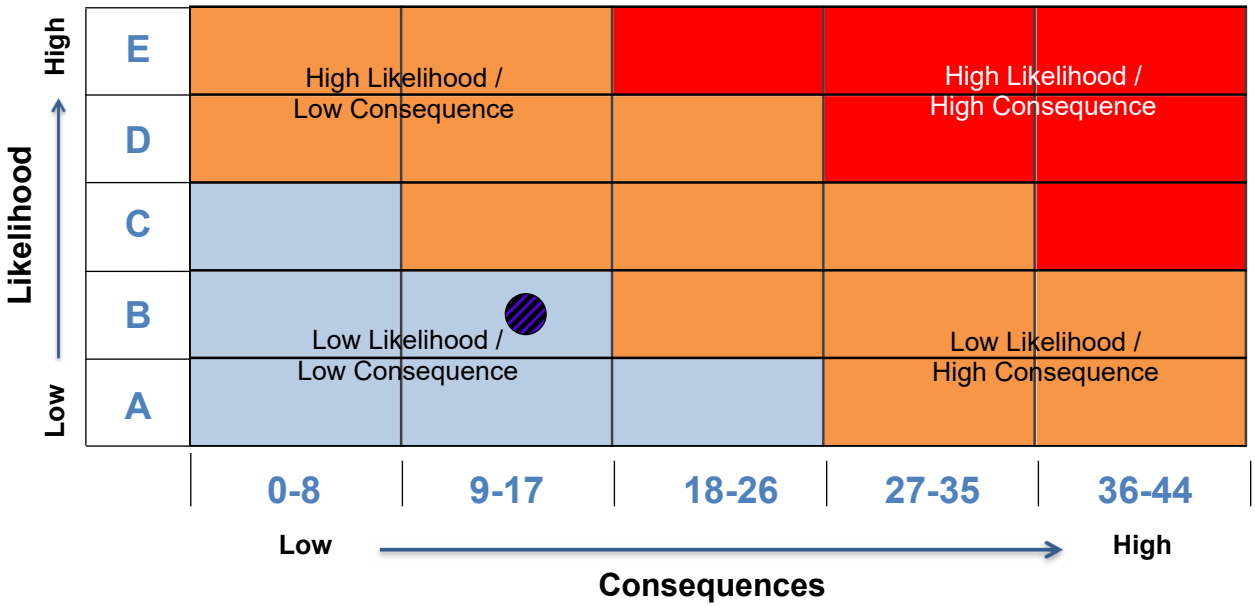
## RISK MATRIX TABLE

For Oil or Gas Pipeline Spill



## Individual Consequence Breakdown

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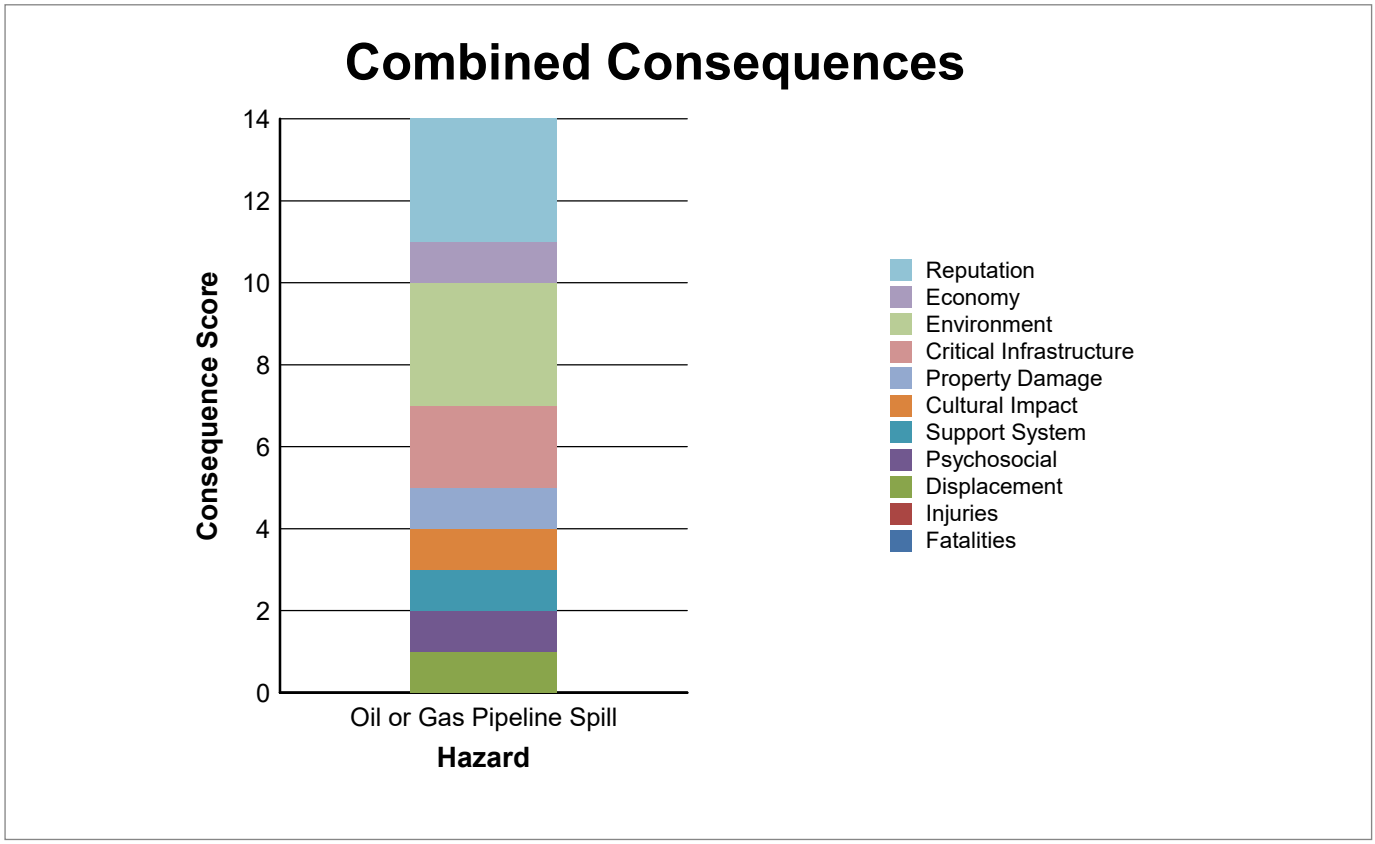
| Individual Consequence Scoring | 0 - None | 1 - Low | 2 - Medium | 3 - High | 4 - Extreme |
|---|---|---|---|---|---|

### Consequence Stacking Table



## Scientific Data Summary

## Local Knowledge Summary

## Changes Observed to Date Summary

## Future Changes Expected Summary

## Consequence Rating Comments

## Existing Risk Reduction Measures

The Fire Department in Anytown conducts an annual exercise with the oil pipeline company.

## New Risk Reduction Measures

# Individual Hazard Breakdown

## Hazard: LAKE, RIVER, AND STREAM FLOODING Priority: 7

### Hazard Score: 14

## Individual Hazard Summary Table

| Hazard | Current Likelihood | Consequence Total | Risk Level | Future Likelihood |
|---|---|---|---|---|
| LAKE, RIVER, AND STREAM FLOODING | D | 14 | High Likelihood/ Low Consequence | D |

| Risk Level Colour Codes | Low Likelihood / Low Consequence | High Likelihood / Low Consequence | Medium Likelihood / Med. Consequence | Low Likelihood / High Consequence | High Likelihood / High Consequence |
|---|---|---|---|---|---|
| Likelihood Scoring | A - Rare | B - Unlikely | C - Possible | D - Likely | E - Almost Certain |
| Consequence Total | Combined scores of 11 specific categories - Maximum possible score of 44 | | | | |

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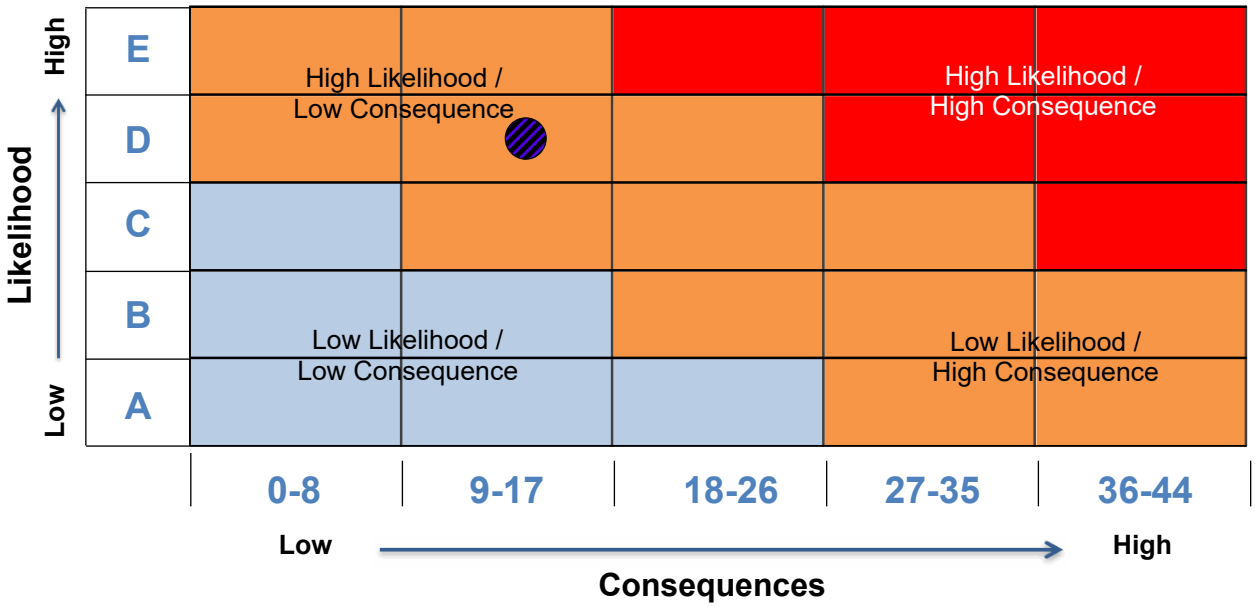
## RISK MATRIX TABLE

For Lake, River, and Stream Flooding



## Individual Consequence Breakdown

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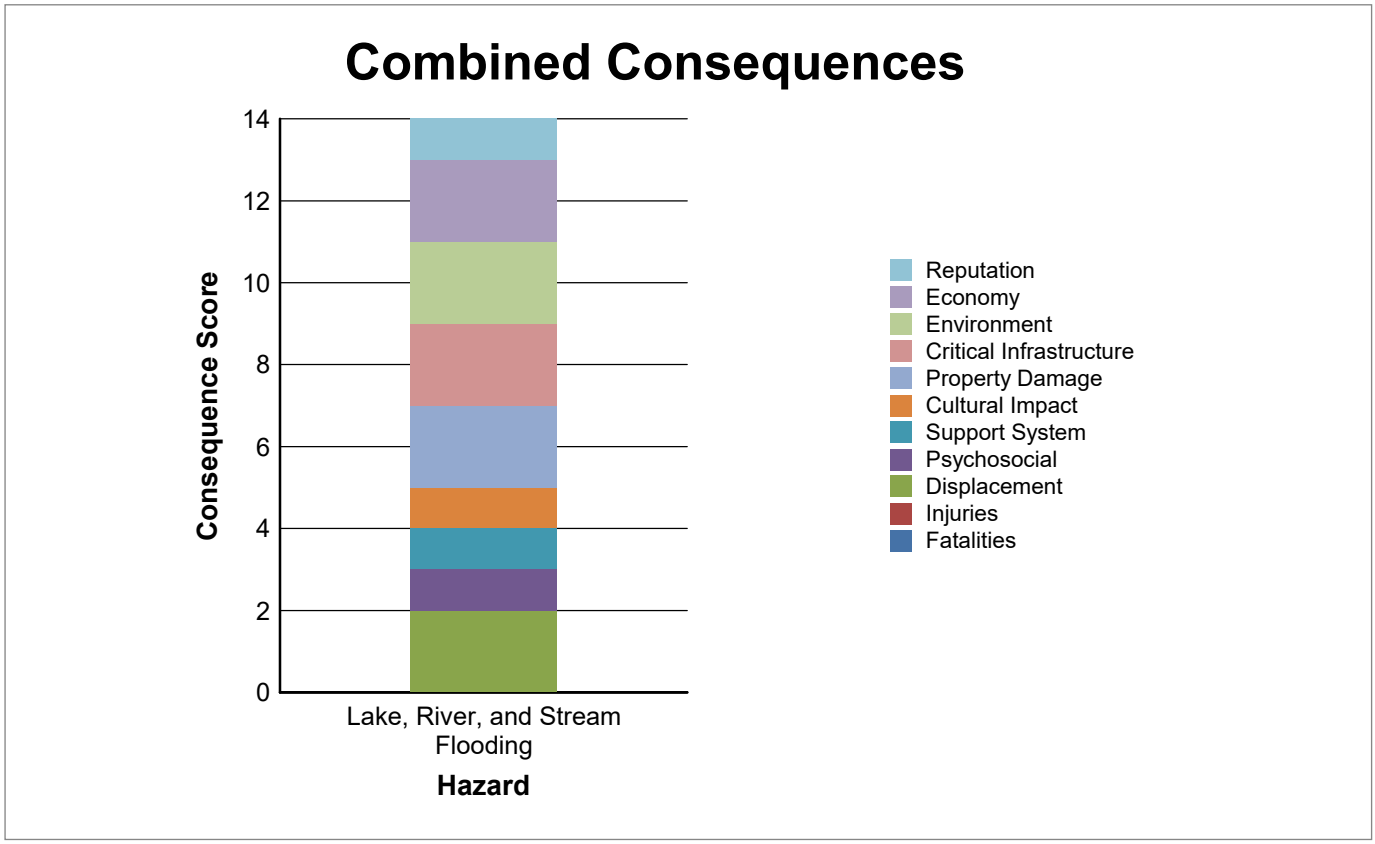
|---|---|---|---|---|---|

### Consequence Stacking Table



## Scientific Data Summary

## Local Knowledge Summary

## Changes Observed to Date Summary

## Future Changes Expected Summary

## Consequence Rating Comments

## Existing Risk Reduction Measures

## New Risk Reduction Measures

# Individual Hazard Breakdown

## Hazard: HAZARDOUS MATERIALS SPILL Priority: 8

### Hazard Score: 13

### Individual Hazard Summary Table

| Hazard | Current Likelihood | Consequence Total | Risk Level | Future Likelihood |
|---|---|---|---|---|
| HAZARDOUS MATERIALS SPILL | B | 13 | Low Likelihood/ Low Consequence | B |

| Risk Level Colour Codes | Low Likelihood / Low Consequence | High Likelihood / Low Consequence | Medium Likelihood / Med. Consequence | Low Likelihood / High Consequence | High Likelihood / High Consequence |
|---|---|---|---|---|---|
| Likelihood Scoring | A - Rare | B - Unlikely | C - Possible | D - Likely | E - Almost Certain |
| Consequence Total | Combined scores of 11 specific categories - Maximum possible score of 44 | | | | |

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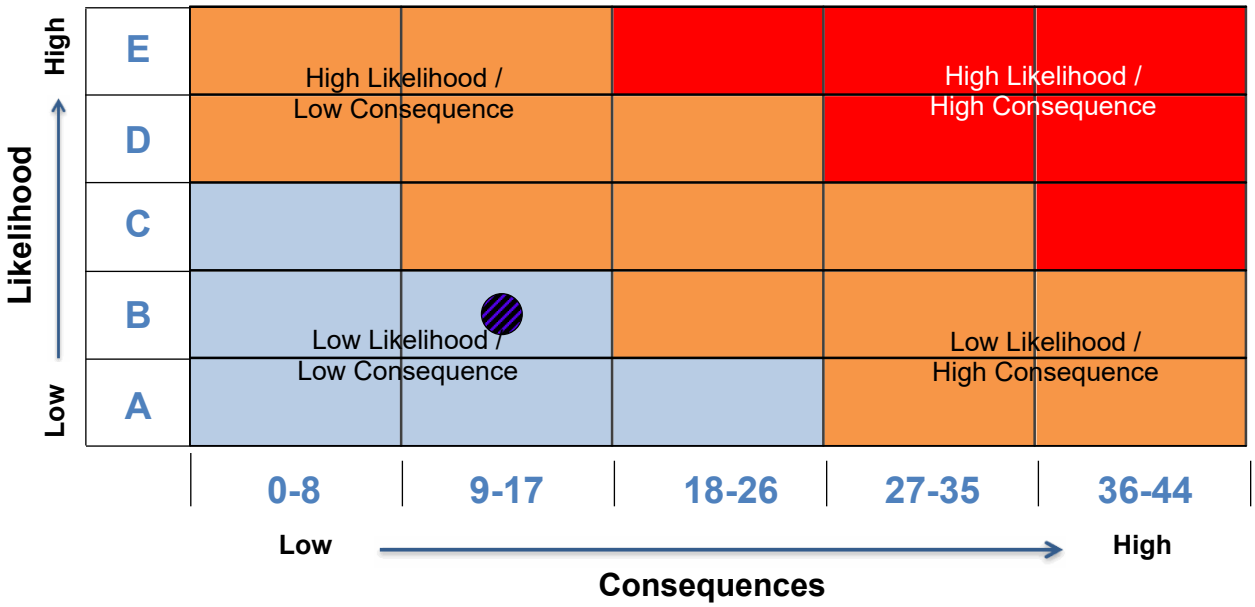
## RISK MATRIX TABLE

For Hazardous Materials Spill



## Individual Consequence Breakdown

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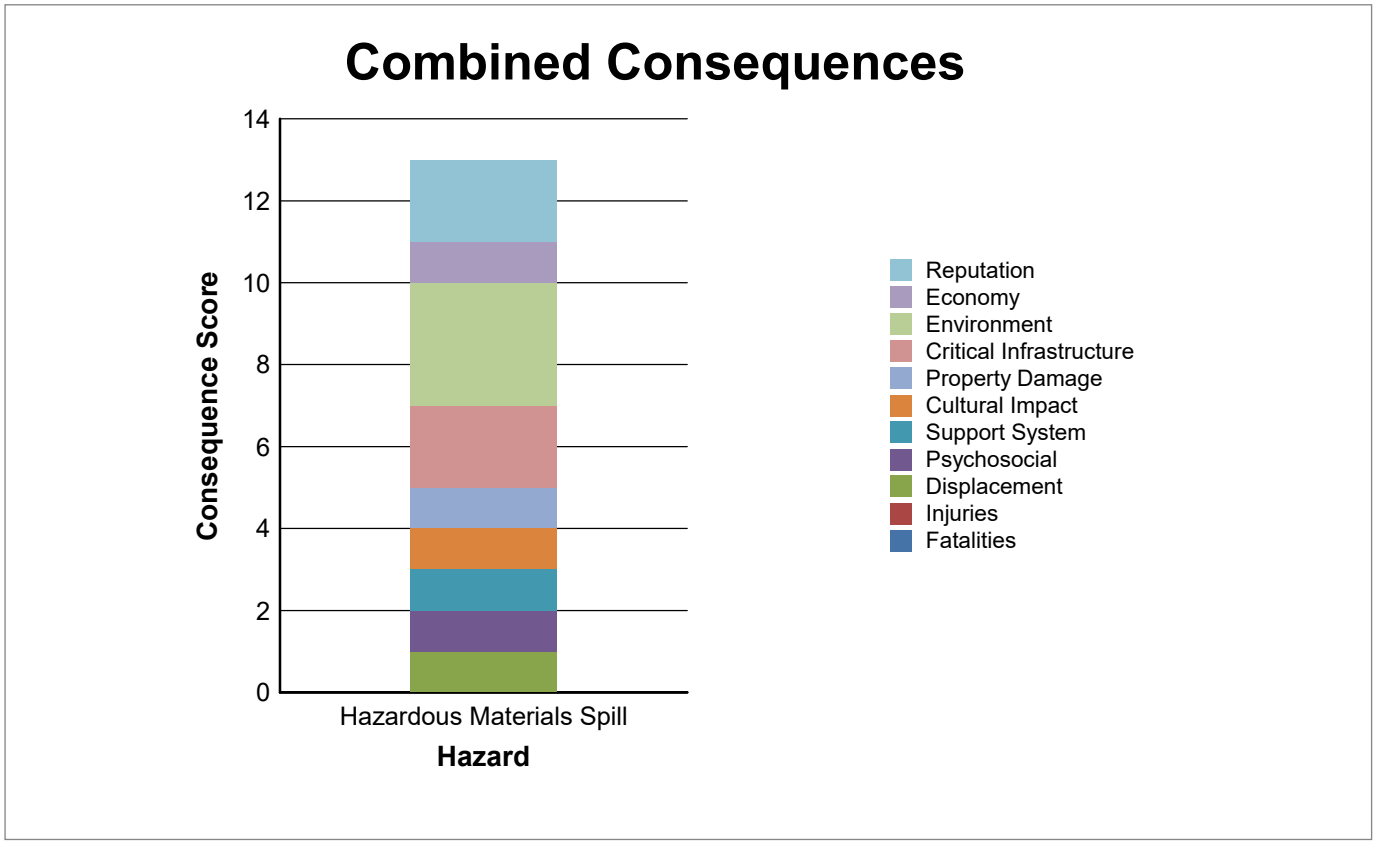
| Individual Consequence Scoring | 0 - None | 1 - Low | 2 - Medium | 3 - High | 4 - Extreme |
|---|---|---|---|---|---|

### Consequence Stacking Table



## Scientific Data Summary

## Local Knowledge Summary

## Changes Observed to Date Summary

Increasing commercial traffic increases the likelihood of more frequent hazardous material spills impacting community

## Future Changes Expected Summary

## Consequence Rating Comments

## Existing Risk Reduction Measures

Spill response kits available at all fire halls.

## New Risk Reduction Measures

Implement recommendations of national report re: Oil Spills - TEST

# Individual Hazard Breakdown

## Hazard: HURRICANE/TYPHOON/HIGH WIND EVENT Priority: 9

### Hazard Score: 12

## Individual Hazard Summary Table

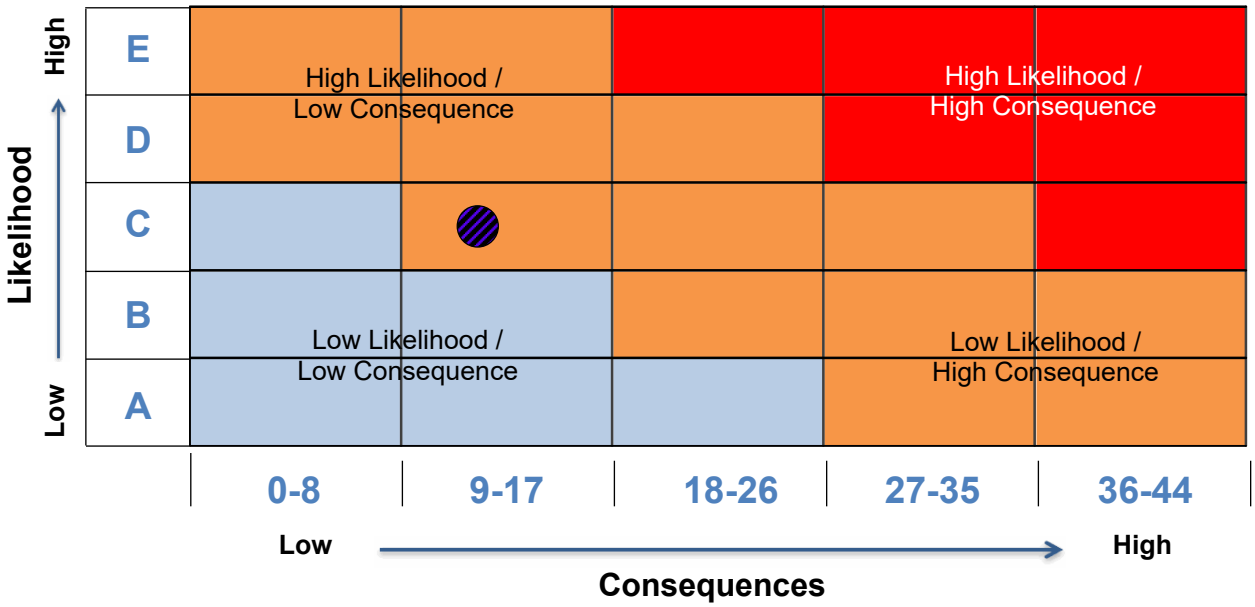
| Hazard | Current Likelihood | Consequence Total | Risk Level | Future Likelihood |
|---|---|---|---|---|
| HURRICANE/TYPHOON/HIGH WIND EVENT | C | 12 | High Likelihood/ Low Consequence | D |

| Risk Level Colour Codes | Low Likelihood / Low Consequence | High Likelihood / Low Consequence | Medium Likelihood / Med. Consequence | Low Likelihood / High Consequence | High Likelihood / High Consequence |
|---|---|---|---|---|---|
| Likelihood Scoring | A - Rare | B - Unlikely | C - Possible | D - Likely | E - Almost Certain |
| Consequence Total | Combined scores of 11 specific categories - Maximum possible score of 44 | | | | |

The preceding table is produced from the values input into the Current and Future Likelihood Tables of the EMBC HRVA Tool, as well as the Consequence Assessment Tables. Data calculations alone do not always account for the core values of the community, and a specific hazard(s) priority number may have been intentionally adjusted to better reflect local concerns.

## RISK MATRIX TABLE

For Hurricane/Typhoon/High Wind Event

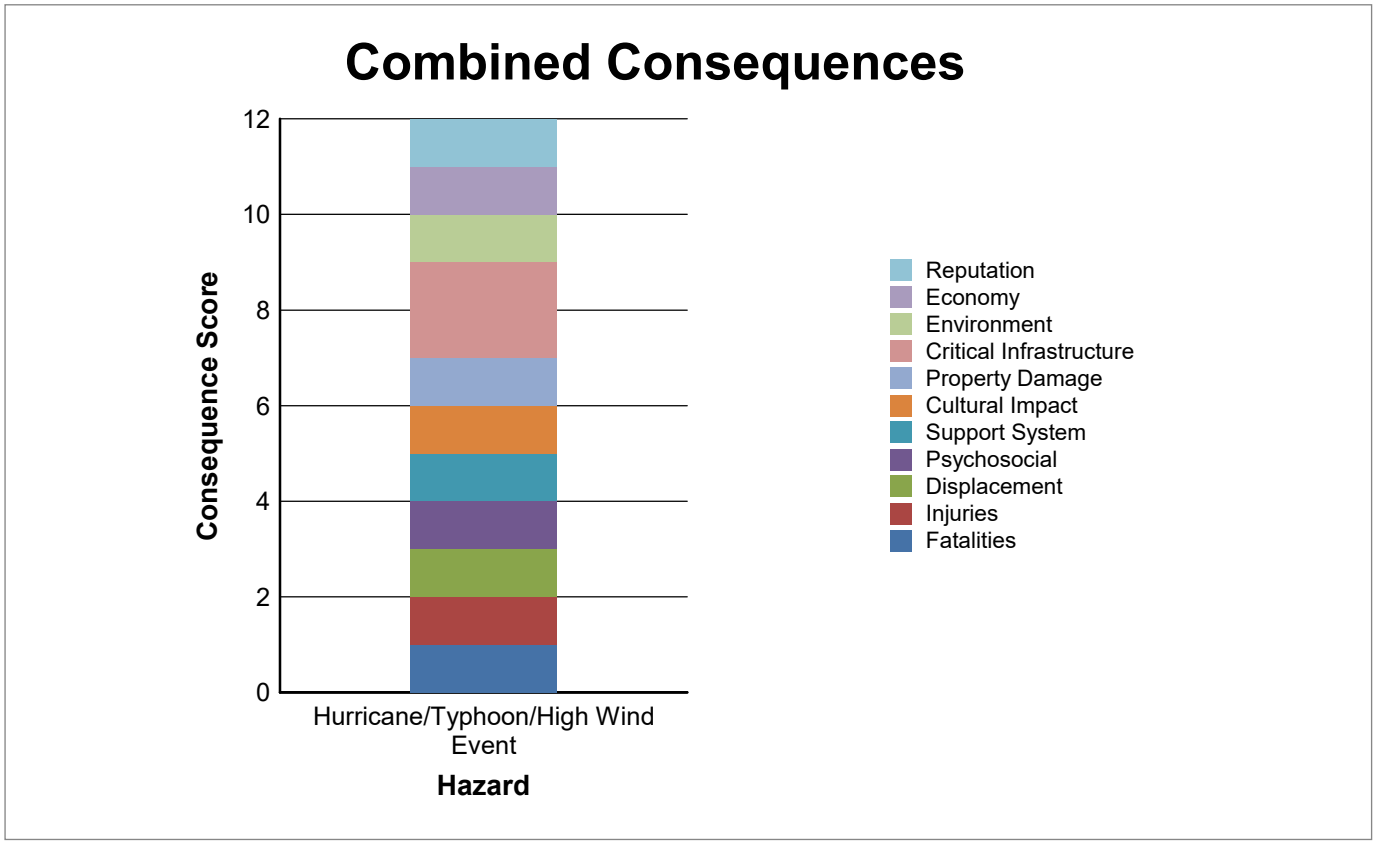


## Individual Consequence Breakdown

Consequence Scores are an amalgamation of 11 specific categories found within the EMBC HRVA Consequence Tables. Each individual consequence category is scored from 0 - 4 (None - Extreme), with a possible combined high score of 44 for any single hazard. A visual breakdown of the total scores into each of the sub-categories is reflected in the consequence stacking table. Only categories that received a numerical score of 1 or higher are shown on the graph.

| Individual Consequence Scoring | 0 - None | 1 - Low | 2 - Medium | 3 - High | 4 - Extreme |
|---|---|---|---|---|---|

### Consequence Stacking Table



## Scientific Data Summary

## Local Knowledge Summary

## Changes Observed to Date Summary

## Future Changes Expected Summary

## Consequence Rating Comments

## Existing Risk Reduction Measures

## New Risk Reduction Measures

# Individual Hazard Breakdown

## Hazard: AIR QUALITY Priority: 10

### Hazard Score: 11

### Individual Hazard Summary Table

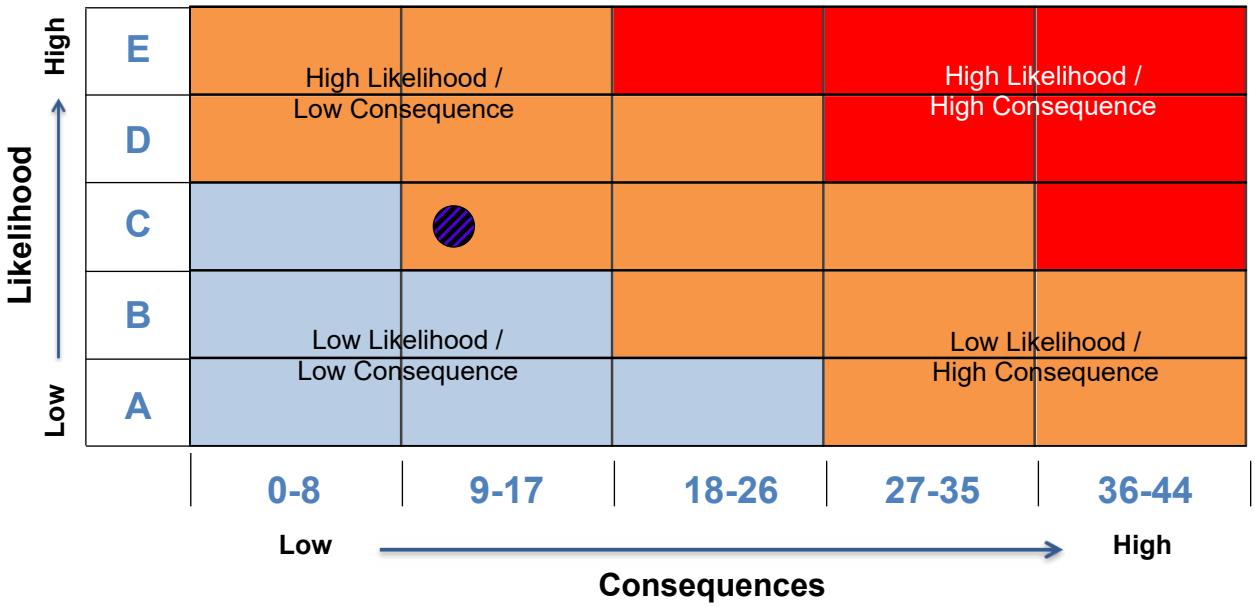
| Hazard | Current Likelihood | Consequence Total | Risk Level | Future Likelihood |
|---|---|---|---|---|
| AIR QUALITY | C | 11 | High Likelihood/ Low Consequence | D |

| Risk Level Colour Codes | Low Likelihood / Low Consequence | High Likelihood / Low Consequence | Medium Likelihood / Med. Consequence | Low Likelihood / High Consequence | High Likelihood / High Consequence |
|---|---|---|---|---|---|
| Likelihood Scoring | A - Rare | B - Unlikely | C - Possible | D - Likely | E - Almost Certain |
| Consequence Total | Combined scores of 11 specific categories - Maximum possible score of 44 | | | | |

The preceding table is produced from the values input into the Current and Future Likelihood Tables of the EMBC HRVA Tool, as well as the Consequence Assessment Tables. Data calculations alone do not always account for the core values of the community, and a specific hazard(s) priority number may have been intentionally adjusted to better reflect local concerns.

## RISK MATRIX TABLE

For Air Quality

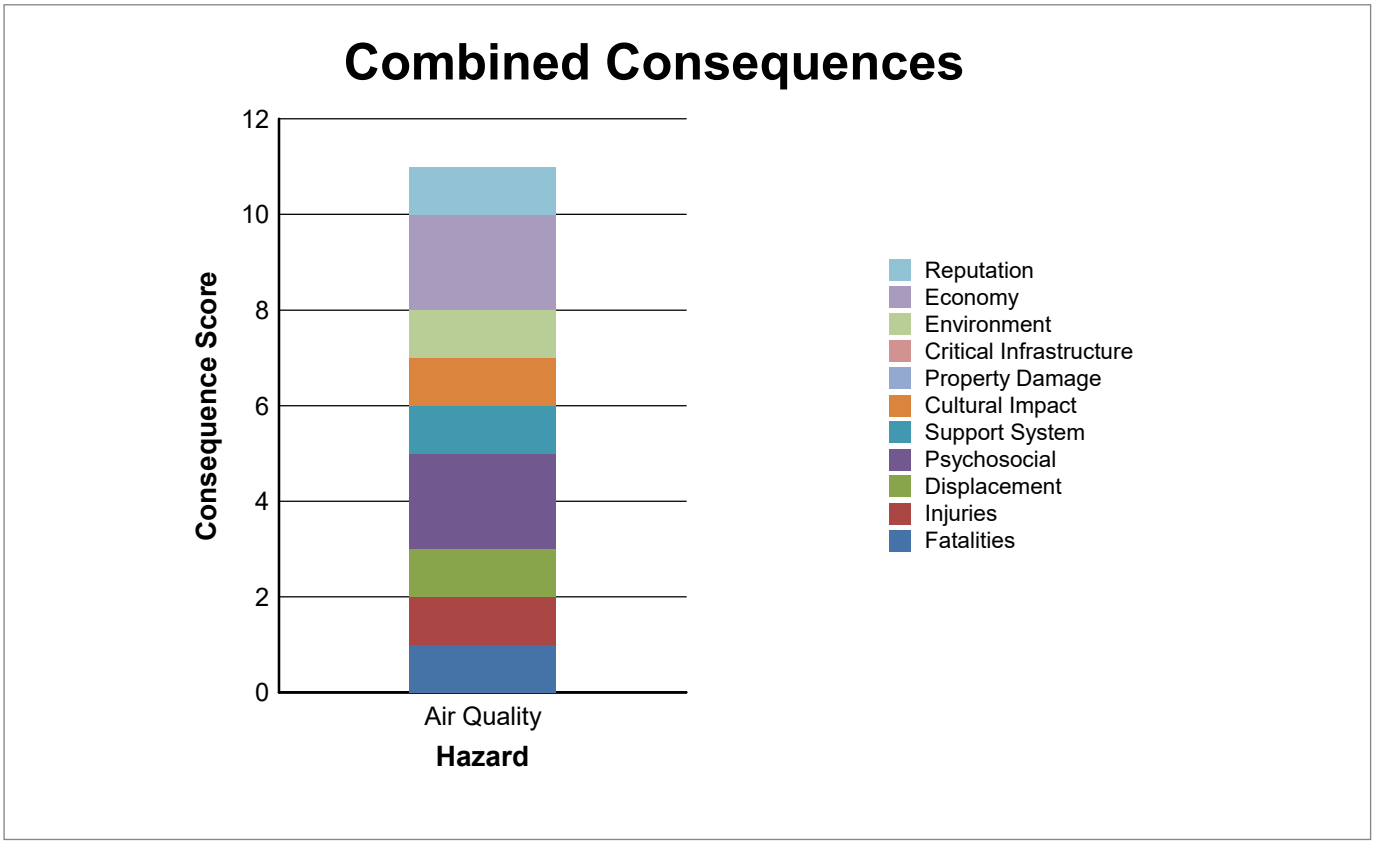


## Individual Consequence Breakdown

Consequence Scores are an amalgamation of 11 specific categories found within the EMBC HRVA Consequence Tables. Each individual consequence category is scored from 0 - 4 (None - Extreme), with a possible combined high score of 44 for any single hazard. A visual breakdown of the total scores into each of the sub-categories is reflected in the consequence stacking table. Only categories that received a numerical score of 1 or higher are shown on the graph.

| Individual Consequence Scoring | 0 - None | 1 - Low | 2 - Medium | 3 - High | 4 - Extreme |
|---|---|---|---|---|---|

### Consequence Stacking Table



## Scientific Data Summary

Air Quality Scientific TEXT

## Local Knowledge Summary

Local Knowledge TBD

## Changes Observed to Date Summary

Air Quality Trends TEST

## Future Changes Expected Summary

Unlikely - TBD TEXT

## Consequence Rating Comments

Air Quality Hazard Consequences TEXT

## Existing Risk Reduction Measures

Anytown BC has three buildings that are designated as clean-air facilities. We rent several air scrubbers and set-up in the buildings when air quality is poor.

## New Risk Reduction Measures