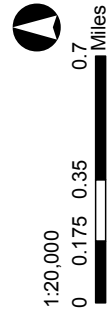
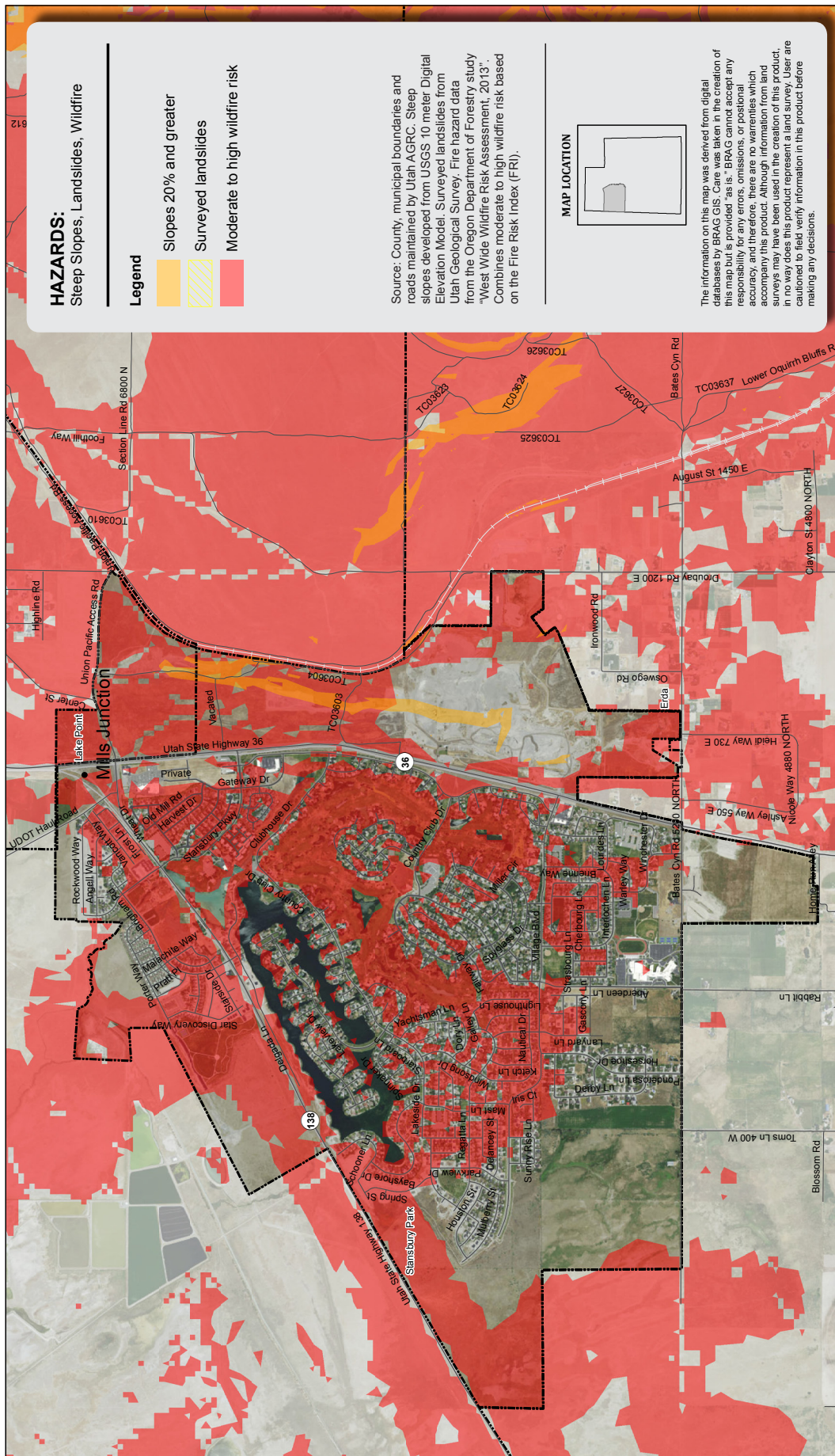
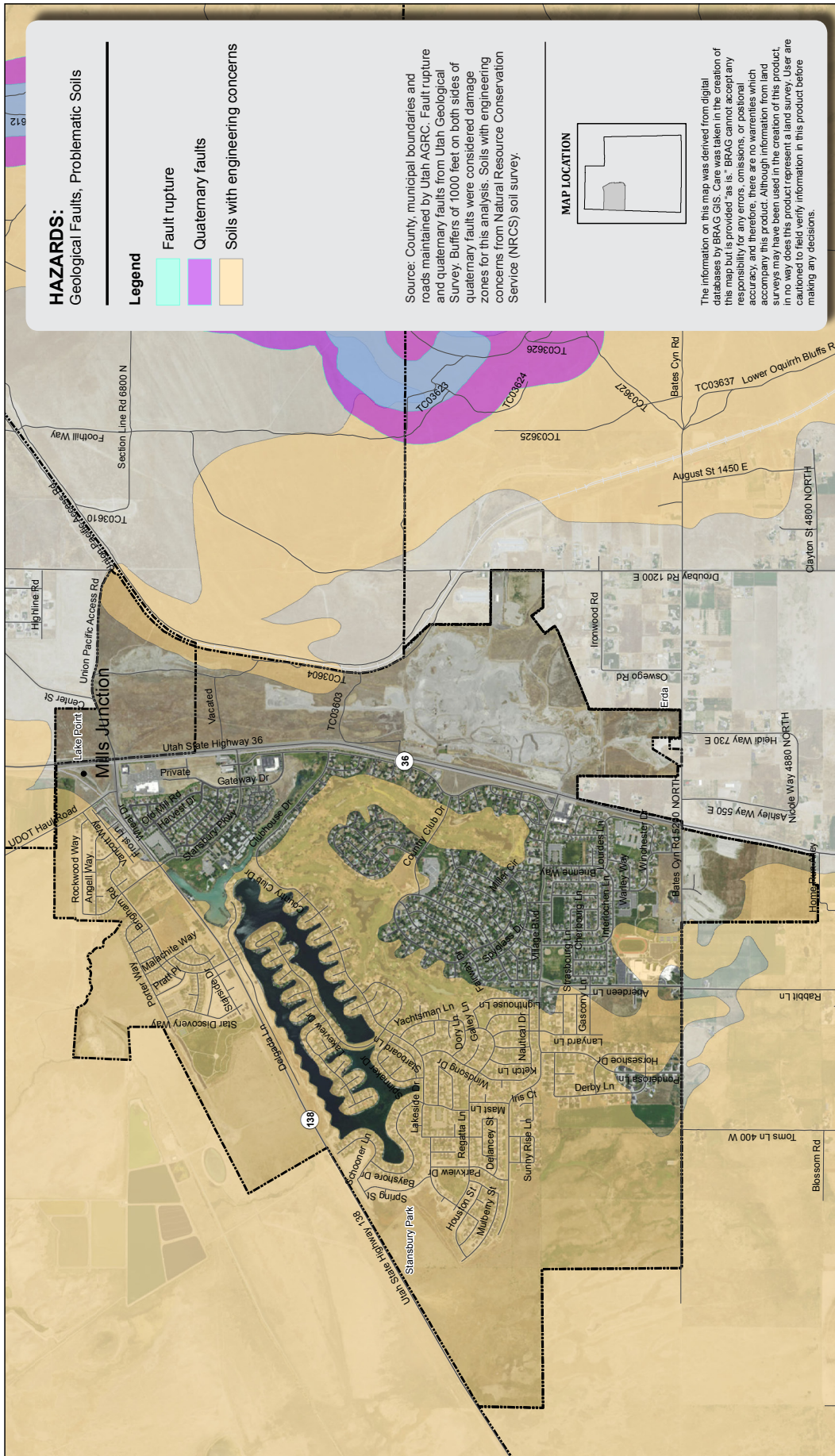


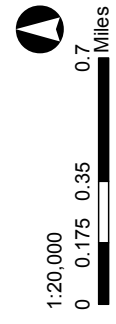
**SECTION 14: STANSBURY PARK  
COMMUNITY RISK ASSESSMENT**



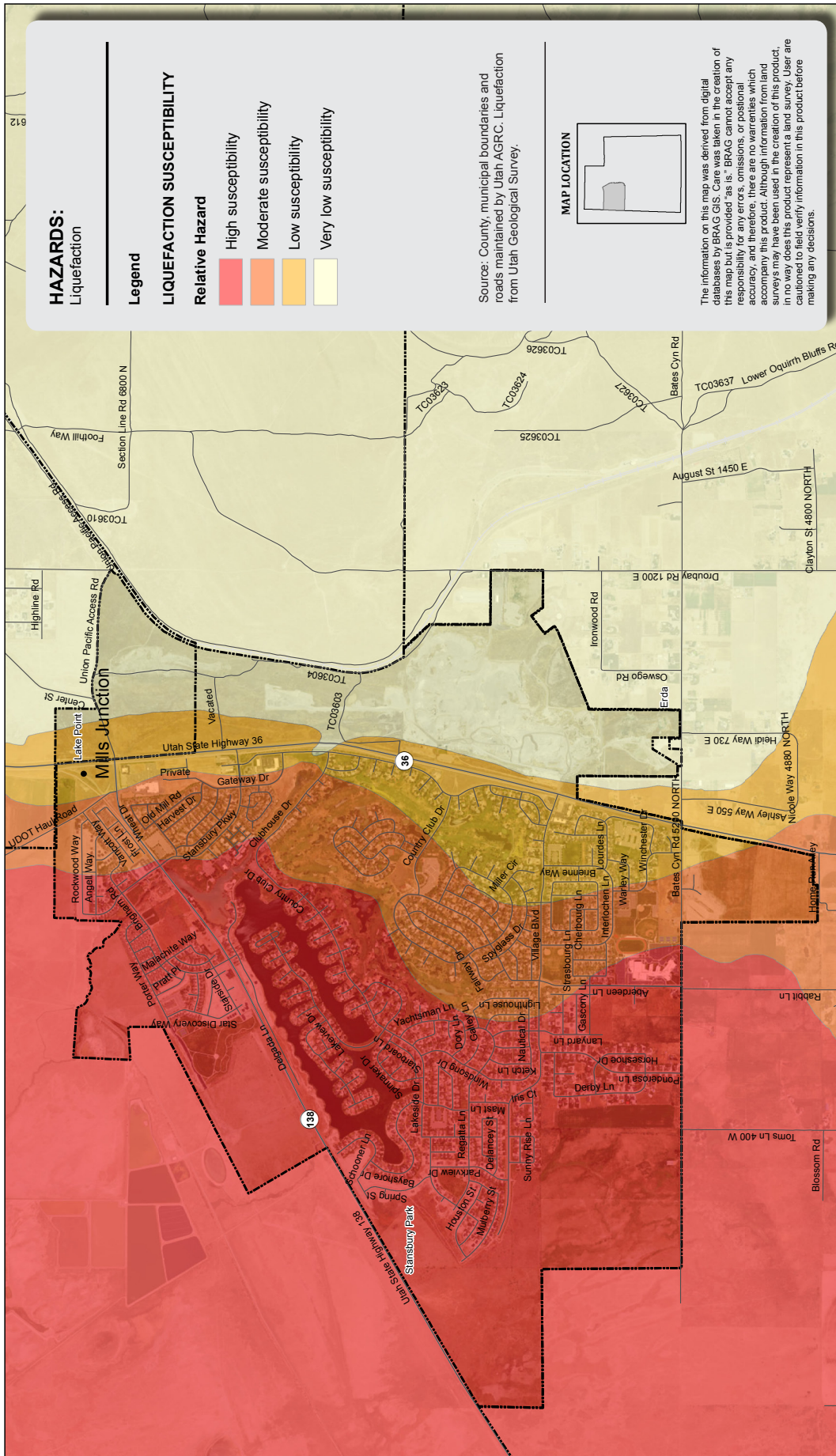
# STANSBURY PARK, UTAH



# STANSBURY PARK, UTAH



# STANSBURY PARK, UTAH



# STANSBURY PARK, UTAH

**STANSBURY PARK NATURAL HAZARDS, POTENTIAL LOSSES, AND MITIGATION STRATEGIES**

impacts to Stansbury Park. See the following tables for more detailed descriptions of potential losses associated with each natural hazard associated with jurisdictional elements.

**STANSBURY PARK**

Analysis of hazard risk involving the community of Stansbury Park revealed that there is potential risk resulting from **wildfire, flood, liquefaction, high water table and steep slopes**. These hazards have varying potential to impact human life, property, critical facilities, infrastructure, agriculture, environmental, and recreational features within the community. Currently, wildfire, high water table, earthquakes resulting in liquefaction, as well as steep slopes have the greatest potential to impact human life, property, and various community amenities based on potential loss values. Potential impacts from floods and steep slopes appear to have less potential for impacts, yet still pose risks based on potential loss values. Other natural hazard types not mentioned were found to have no potential

**Natural Hazards**

**Wildfire.** Stansbury Park is susceptible to a moderate-high risk of wildfire. They tend to occur in areas near development and amenities with grassy and shrubby vegetation types. The development on the south side of Stansbury Lake and the low lying grassy parcels of land adjacent to Mills Junction have the greatest risk for wildfire. Wildfires have the potential to impact around 13,000 people and 4,164 structures with commercial units included.

**Flood.** Portions of Stansbury Park are at risk to flooding. Stansbury Park does participate in NFIP. Areas most susceptible to flooding are found in development bordering Stansbury Lake, and the parcels of land in the south west corner of the community with more wetlands. Floods resulting in these areas pose a threat to road infrastructure, and agricultural features

**Table 29:** Stansbury Park Potential Loss Figures

| <b>Stansbury Park, UT, Residential &amp; Commercial Development at Risk</b> |                            |                                  |                   |                                 |                   |                                     |
|---|----------------------------|----------------------------------|-------------------|---------------------------------|-------------------|-------------------------------------|
| <b>Hazard Type</b>  | <b>~Residents at Risk*</b> | <b>Residential Units at Risk</b> |                   | <b>Commercial Units at Risk</b> |                   |                                     |
|   |                            | <b># Units</b>                   | <b>\$ Value**</b> | <b># Units</b>                  | <b>\$ Value**</b> | <b>\$ Potential Revenue Loss***</b> |
| Dam Failure   | 0                          | 0                                | 0                 | 0                               | 0                 | 0                                   |
| Faults  | 0                          | 0                                | 0                 | 0                               | 0                 | 0                                   |
| Wildfire  | 13,190.4                   | 4,122                            | 883,540,504       | 42                              | 55,901,178        | 0                                   |
| Flood (FEMA)  | 0                          | 0                                | 0                 | 0                               | 0                 | 0                                   |
| Flood (Soils)   | 0                          | 0                                | 0                 | 0                               | 0                 | 0                                   |
| Liquefaction  | 0                          | 0                                | 0                 | 0                               | 0                 | 0                                   |
| Landslide   | 0                          | 0                                | 0                 | 0                               | 0                 | 0                                   |
| Slope   | 0                          | 0                                | 0                 | 2                               | 1,848,186         | \$1,284,522                         |
| High Water Table  | 4,262                      | 1,332                            | \$265,714,566     | 4                               | \$1,086,686       | 2569044                             |
| Unsuitable Soils for Buildings  | 9,760                      | 3,050                            | \$581,450,162     | 4                               | \$1,086,686       | \$2,569,044                         |

\* Based on average persons per owner household for Tooele County from 2013 American Community Survey, which is 3.2.

\*\* Current Market Value per parcel, including building and land values. Data provided by Tooele County.

\*\*\* Based on average sales, receipts, or value of shipments of firms with or without paid employees, per firm (\$642,261 per firm). Derived from 2007 Survey of Business Owners for Tooele County, US Census Bureau.

| Stansbury Park, UT, Critical Facilities at Risk |                                    |                           |                        |                   |                                   |       |
|---|------------------------------------|---------------------------|------------------------|-------------------|-----------------------------------|-------|
| Hazard Type                                     | Critical Facilities Types          |                           |                        |                   |                                   |       |
|   | Emergency Services/Law Enforcement | Schools/Public Facilities | Health Care Facilities | Places of Worship | Infrastructure                    | Other |
| Dam Failure                                     | 0                                  | 0                         | 0                      | 0                 | 0                                 | 0     |
| Faults  | 0                                  | 0                         | 0                      | 0                 | 0                                 | 0     |
| Wildfire  | 1 EMS, 1 Fire Station              |                           | 0                      | 0                 | 1 Dam, 1 Well                     | 0     |
| Flood (FEMA)                                    | 0                                  | 0                         | 0                      | 0                 | 0                                 | 0     |
| Flood (Soils)                                   | 0                                  | 0                         | 0                      | 0                 | 0                                 | 0     |
| Liquefaction                                    | 0                                  | 3 Schools                 | 0                      | 0                 | 1 Broadband Anchor, 1 Dam, 1 Well | 0     |
| Landslide                                       | 0                                  | 0                         | 0                      | 0                 | 0                                 | 0     |
| Slope   | 0                                  | 0                         | 0                      | 0                 | 0                                 | 0     |
| High Water Table                                | 0                                  | 0                         | 0                      | 0                 | 0                                 | 0     |
| Unsuitable Soils for Buildings                  | 0                                  | 0                         | 0                      | 0                 | 0                                 | 0     |

Note: Critical facilities were identified using multiple data sources including: Utah AGRC, UDOT, Utah Division of Water Resources, and public and community leader input.

| Stansbury Park, UT, Infrastructure at Risk |                        |                       |                   |                       |                        |                       |            |                       |            |                       |
|--|------------------------|-----------------------|-------------------|-----------------------|------------------------|-----------------------|------------|-----------------------|------------|-----------------------|
| Hazard Type                                | Infrastructure at Risk |                       |                   |                       |                        |                       |            |                       |            |                       |
|  | Railroad Lines         |                       | Natural Gas Lines |                       | Electrical Power lines |                       | Roads      |                       | Canals     |                       |
|  | # of Miles             | \$ Value <sup>1</sup> | # of Miles        | \$ Value <sup>2</sup> | # of Miles             | \$ Value <sup>3</sup> | # of Miles | \$ Value <sup>4</sup> | # of Miles | \$ Value <sup>5</sup> |
| Dam Failure                                | 0                      | \$0                   | 0                 | \$0                   | 0                      | \$0                   | 0          | \$0                   | 0          | \$0                   |
| Faults                                     | 0                      | \$0                   | 0                 | \$0                   | 0                      | \$0                   | 0          | \$0                   | 0          | \$0                   |
| Wildfire                                   | 0.07                   | \$105,000             | 0.55              | \$770,000             | 0                      | \$0                   | 20.33      | \$10,673,250          | 0          | \$0                   |
| Flood (FIRM)                               | 0                      | \$0                   | 0                 | \$0                   | 0                      | \$0                   | 0.37       | \$194,250             | 0          | \$0                   |
| Flood (Soils)                              | 0                      | \$0                   | 0                 | \$0                   | 0                      | \$0                   | 0          | \$0                   | 0          | \$0                   |
| Liquefaction                               | 0                      | \$0                   | 0                 | \$0                   | 0                      | \$0                   | 0.98       | \$514,500             | 0          | \$0                   |
| Landslide                                  | 0                      | \$0                   | 0                 | \$0                   | 0                      | \$0                   | 0          | \$0                   | 0          | \$0                   |
| Slope                                      | 0                      | \$0                   | 0                 | \$0                   | 0                      | \$0                   | 0.60       | \$315,000             | 0.07       | \$105,000             |
| High Water Table                           | 0                      | \$0                   | 0                 | \$0                   | 0                      | \$0                   | 10.08      | \$5,292,000           | 5.29       | \$7,935,000           |
| Unsuitable Soils for Buildings             | 0                      | \$0                   | 0                 | \$0                   | 0                      | \$0                   | 24.07      | \$12,636,750          | 7.67       | \$11,505,000          |

<sup>1</sup> Based on figures from 2009 Pre-Disaster Mitigation Plan for Bear River Region, Utah (\$1,500,000/mi).  
<sup>2</sup> Based on average replacement cost estimates for gas lines ranging from 2-inches-20 inches in diameter. These cost are based solely on labor and material costs, and may vary based on time, scope, and site specific variations (Questar, 2015).  
<sup>3</sup> Based on estimates from Logan Light and Power, 2015 (\$127,000/mi).  
<sup>4</sup> Based on estimates derived from an average 28' wide, 4" thick asphalt county road with gravel subgrade replacement. Cache County, 2015 (\$525,000/mi).  
<sup>5</sup> Based recent Cache County and regional project cost estimates, 2015 (\$1,500,000/mi).

| <b>Stansbury Park, UT, Environmental &amp; Recreational Features at Risk</b> |                                       |              |                       |                                      |                   |                            |                       |
|--|---------------------------------------|--------------|-----------------------|--------------------------------------|-------------------|----------------------------|-----------------------|
| <b>Hazard Type</b>   | <b>Environmental Features at Risk</b> |              |                       | <b>Recreational Features at Risk</b> |                   |                            |                       |
|  | <b>Wetland/<br/>riparian</b>          | <b>Lakes</b> | <b>Streams</b>        | <b>Parks</b>                         | <b>Trails</b>     | <b>Trails<br/>(Master)</b> | <b>Amenities</b>      |
|  | <b># of Acres</b>                     |              | <b># of<br/>Miles</b> | <b># of<br/>Acres</b>                | <b># of Miles</b> | <b># of Miles</b>          | <b># of Amenities</b> |
| Dam Failure  | 0                                     | 0            | 0                     | 0                                    | 0                 | 0                          | 0                     |
| Faults   | 0                                     | 0            | 0                     | 0                                    | 0                 | 0                          | 0                     |
| Wildfire   | 183.43                                | 0            | 0                     | 0                                    | 0                 | 0.20                       | 0                     |
| Flood (FIRM)   | 0                                     | 0            | 0                     | 0                                    | 0                 | 0                          | 0                     |
| Flood (Soils)  | 0                                     | 0            | 0                     | 0                                    | 0                 | 0                          | 0                     |
| Liquefaction   | 368.06                                | 155.27       | 0.39                  | 0                                    | 0                 | 0                          | 0                     |
| Landslide  | 0                                     | 0            | 0                     | 0                                    | 0                 | 0                          | 0                     |
| Slope  | 0                                     | 0            | 0                     | 0                                    | 0                 | 0                          | 0                     |
| High Water Table   | 238.25                                | 36.16        | 3.24                  | 0                                    | 0                 | 0                          | 0                     |
| Unsuitable Soils<br>for Buildings  | 274.59                                | 50.84        | 4.82                  | 0                                    | 0                 | 0                          | 0                     |

Note: Total acres of land and miles of streams and trails were identified using multiple data sources including: Utah AGRC, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Geological Survey, Utah Division of Water Resources, and public and community leader input.

| <b>Stansbury Park, UT, Agricultural Features at Risk</b> |                                |                  |
|--|--------------------------------|------------------|
| <b>Hazard Type</b>                                       | <b>Lands at Risk</b>           |                  |
|  | <b>Agriculture Production*</b> | <b>Grazing**</b> |
|  | <b># of Acres</b>              |                  |
| Dam Failure  | 0                              | 0                |
| Faults   | 0                              | 0                |
| Wildfire   | 588.48                         | 0                |
| Flood (FIRM)   | 2.36                           | 0                |
| Flood (Soils)  | 0                              | 0                |
| Liquefaction   | 785.98                         | 0                |
| Landslide  | 0                              | 0                |
| Slope  | 31.07                          | 0                |
| High Water Table   | 0                              | 0                |
| Unsuitable Soils for Buildings                           | 0                              | 0                |

\* Lands that are currently associated with agricultural activities involving water related land use, as described in the 2007 Utah Division of Water Resources, *Water Related Land Use* dataset.

\*\* Lands currently associated with grazing allotments identified as part of the Grazing Improvement Program (Utah AGRC, 2012)



within the community boundary

**Liquefaction.** Areas of Stansbury Park have a low to high risk of liquefaction in the event of an earthquake. Earthquakes resulting in liquefaction have the potential to impact critical facilities, infrastructure, environmental, and agricultural amenities. The majority of areas susceptible to high risk liquefaction exist within the community around Stansbury Lake. The risks fade as you gradually move away from the lake. Liquefaction has the potential to threaten 3 schools and other important facilities in the community.

**High Water Table.** A good portion of Stansbury Park is located where there is a high water table. Many homes on both the south ends of the lake, and much of the land to the southwest of the lake. Homes with basements are particularly susceptible.

**Steep Slopes.** Stansbury Park has risk associated with steep slopes within its boundaries. Areas of greatest concern have slopes of over 15%. Areas bordering streams, rivers, and drainages appear to have an increased exposure to risk. Steep slopes have the potential to impact property, infrastructure, and agricultural features in the community. Two commercial structures are at risk as well as a little over a half mile of street infrastructure due to steep slopes.

### **Future Development**

There is a new development planned south of Bates Canyon and west of SR 36 in the Stansbury Park area. This new development could potentially be susceptible to wildfire hazards, soil liquefaction during an earthquake, and a high water table.

### **Hazard Mitigation Strategies**

(See Section 17: Unincorporated Tooele County Community Risk Assessment)