

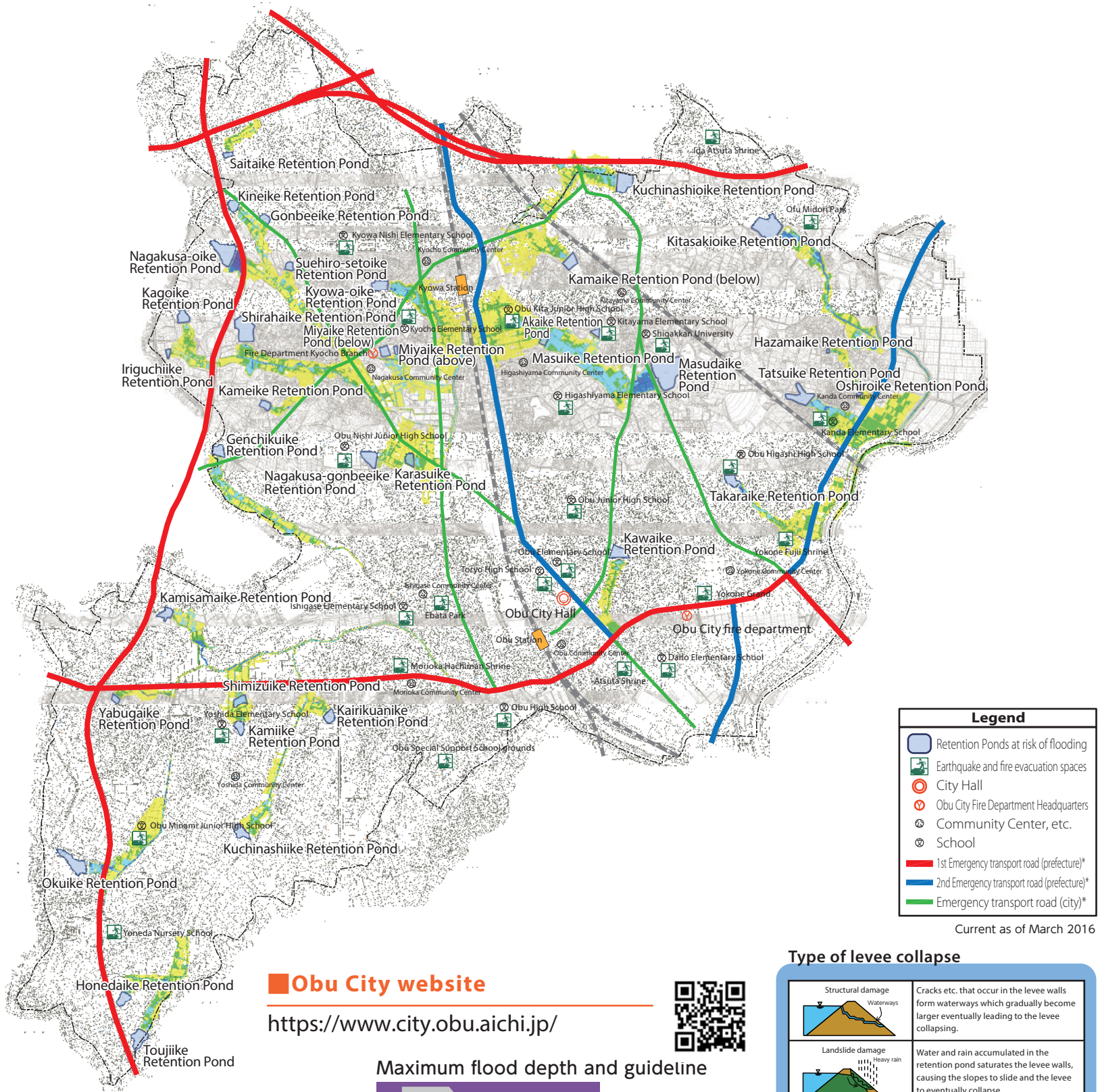
# Hazard map for retention ponds in Obu City

In the event a levee breach occurs due to a natural disaster, this map shows the areas that are expected to become inundated as well as the estimated depth of flood waters, how the flood waters will spread and the maximum depth of flooding. The retention ponds shown on this map will not be in immediate danger.

It is important to prepare for an emergency and by looking at this map, we can know in advance the areas that are most at risk of flooding to determine how it will affect where we live, work and play such as our homes, offices and school routes etc.

## Important notes about the map

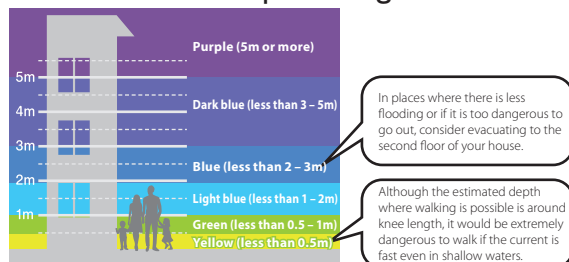
- \*This map has been created based on the assumption that due to a natural disaster, all the retention pond levees have collapsed all at once allowing the large body of accumulated water to flood the land.
- \*The actual area of inundation may differ to the projected area of inundation on the map.
- \*The map shows maximum flood depth based on the assumption that all the water from the city's 35 retention ponds will flow downstream.
- \*The map indicates the maximum flood depth when flood levels peak. Actual inundation will gradually spread over time. It does not imply that maximum flood depths occur simultaneously across all projected flood areas.
- \*In times of heavy rain, nearby rivers may flood. Flooding may also occur beyond the range illustrated in this figure.
- \*Once the water levels in the retention ponds subside, flood waters will gradually recede.



**Obu City website**  
<https://www.city.obu.aichi.jp/>



### Maximum flood depth and guideline



### Type of levee collapse

<p><b>Structural damage</b> Waterways</p>	Cracks etc. that occur in the levee walls form waterways which gradually become larger eventually leading to the levee collapsing.
<p><b>Landslide damage</b> Heavy rain</p>	Water and rain accumulated in the retention pond saturates the levee walls, causing the slopes to slide and the levee to eventually collapse.
<p><b>Overflow damage</b> Water overflow</p>	Due to heavy rain etc., water accumulated in the retention pond will overflow, spilling over the levee, eroding the slope and eventually causing it to collapse.

Created in March 2016