

Pollution at Lake Quinsigamond

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An Educational and Technological Solution

Problem of continued lake polluting events

Timeline... 2009 2014 2016 2017

Commercial
Waste Spills

Sewage
Overflow

\$10M Fix

Sewage
Overflow

Project Goals:

- Understand the effects of runoff on the lake
- How and what spills are entering the lake
- Explore containment methods
- Decide upon the most effective solution(s)

Solution 1: The Sign

A sign that will be targeted towards kids to help keep the park clean. Research shows that with taglines like, “Help Gompei the Goat keep the park clean”, children will be advocates for environmental responsibility, and be environmental stewards in the future.



“Only YOU can prevent lake pollution!”



Imagine...

The highly successful Smokey the Bear campaign repurposed with Gompei.

Solution 2: The Sensor

This self sufficient sensor would be placed in an array around the site of the spills. They would detect pollution and send immediate feedback in the event of a spill.

Solar Powered



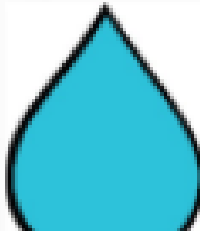





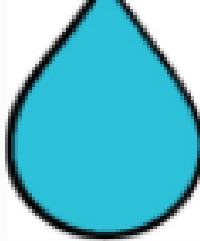
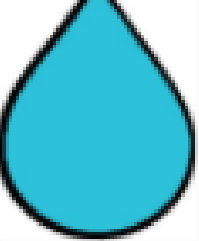

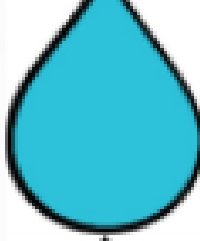
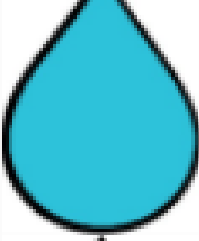

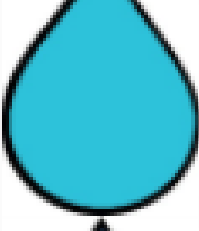
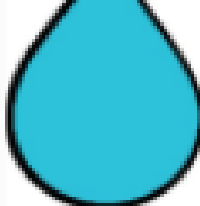

3G Capable

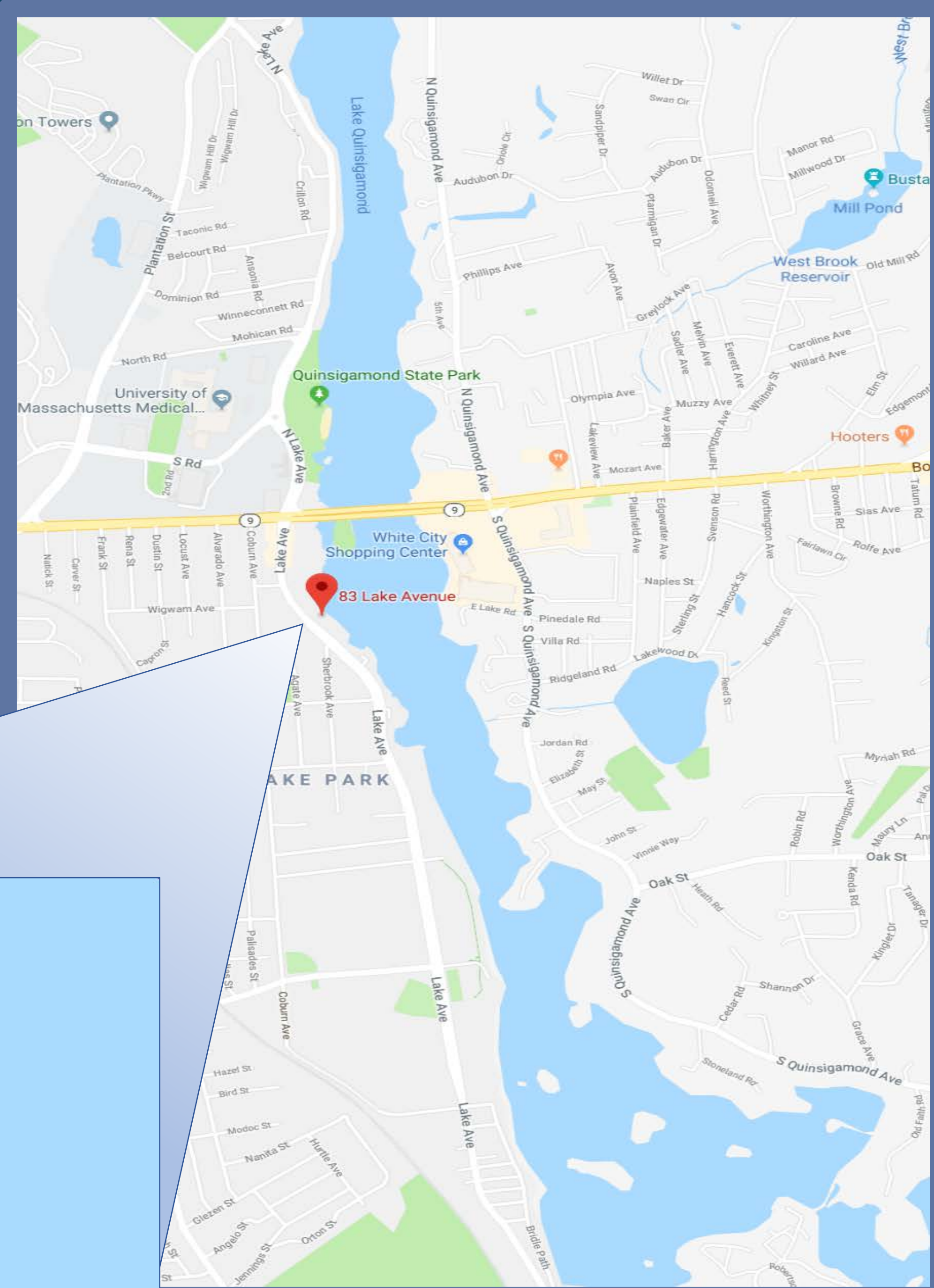
Sensors



PUGH Decision Chart

Categories are weighted and compared for each solution to determine which is best.

Education	Sensors	
Initial Cost		
Maintenance		
Simplicity		
Aesthetic		 
Versatility		
Effectiveness		
Durability		



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