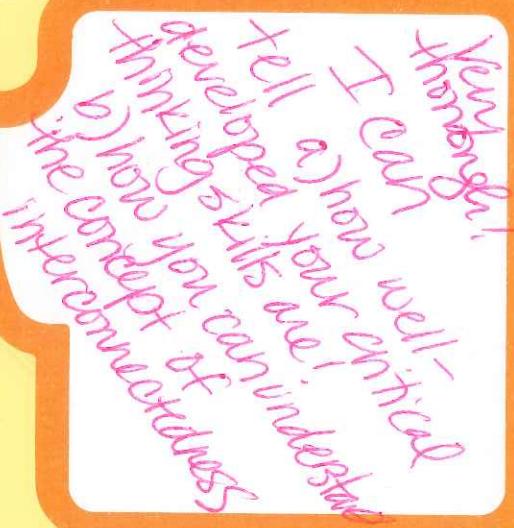# Into the Shark Tank: Criterion A: Inquiring & Analyzing - Task 2 — Oberdorf, Ryan

Evaluating ONE Existing Solution Graphic Organizer

Select one of the existing solutions you researched that you think is most inspiring to evaluate below. Firefighters using as little water as possible (during drought)

Effective Components	Ineffective Components	Ways to Improve
What parts work well in successfully change? **Why?**	Where does the solution fall short? What limits its ability to successfully improve the problem? **Why?**	How could this solution be modified, transformed, replaced, or made better in any way?

Effective Components

• Adjustable hose nozzel (they can adjust the amount of water that come from the hose (tailor it to the intensity of the fire))

• Put out smoldering ashes with tools that don't require water (they may stamp them out)

• When spraying the edge of a wild fire to stop it from spreading, they use mist. (water in a stream just rolls of trees and stuff and ends up on the ground. The mist will settle where it lands because it's not too heavy)

• Every source of water is used that is close before firefighters tap into community's drinking water (ex-pools, small ponds, etc)

• Training is conducted without water

• Water that is used in certain sites during training is recycled. (firefighters drain the water into an tank then pump it back into the fire engines)

• Water is transported in trucks, planes, and helicopters from long distances away when water is not available on the immediate site.

• As little water is used as possible during drought

the Nozzel bringing about positive (they an aerator, will add pressure to the water to spray longer distances I like an aerator, will add pressure to the water to spray longer distances which is an additional benefit)

Ineffective Components

• Fire fighters may not be prepared if they to not practice with actual water. (ex- they may not know how to handle a running fire hose)

• Vehicles may take to long to arrive at site of fire.

• The hose nozzel shoots out a solid stream of water.

• Stuff can still burn if it is sprayed with mist.

Ways to Improve

• Install drain water recycling tanks at all fire stations that often face droughts.

• Maybe create a water reservation system. Little by little, a system at firestation source, regardless of there being a drought or not. The water that is taken every day will be stored in a huge tank that can be used when absolutely necessary.

• The nozzel could is tailor the water needs, but also have an aerator. The aerator will divide the one solid stream into many tiny streams. This gives an illusion of a lot of water being short out, but in reality it is less...

...should "set the hose to 'shower'"... stuff get wet to the point burn.

Due to my stance on chemicals, they can be ineffective and effective. If water is no longer an option, chemicals can be used to take care of or put out a fire. However, chemicals are potentially harmful to the environment.