**Water Filtration Worksheet**

*Please create a sketch of your water filter below. Be sure to label different part of the filter.*

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| **Filter Sketch:** |
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*Answer the following questions completely. If you need more space, you may use another piece of paper.*

1. Describe your water filter. (i.e. What materials did you use? What order did you place your materials? How much of each material did you use?) Why did you use this design?
2. How effective was your water filter? Was it completely clean or did some pollutants still linger? How do you know? (i.e. Was there a scent to the water, a color, or cloudiness?)
3. Do you think having many layers of materials or only a few layers is move effective for cleaning water? Why?
4. How do you think the speed of the water flow through the filter affects its ability to filter? Why?
5. What would you do differently next time you created a filter? If you wouldn’t change anything, why would you keep your original design?
6. Based off this activity, what are some issues that may occur when we develop riparian zones into things like parking lots or roads? Do you think it pollutes our water quality of rivers? Why?