

**Biotic and Abiotic Remediation of Acetaminophen with Woodchip and Biochar-amended  
Woodchip Adsorbents**

James Patrick Wade

Thesis submitted to the faculty of the Virginia Polytechnic Institute and State University in  
partial fulfillment of the requirements for the degree of

Master of Science in  
Biological Systems Engineering

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Gene Yagow

Naraine Persaud

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Blacksburg, Virginia

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James Wade &lt;jpw9w@vt.edu&gt;

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2 messages

**James Wade** <jpw9w@vt.edu>

Tue, Jun 16, 2015 at 2:45 PM

To: halden@asu.edu

Dr. Halden

I am conducting research on an emerging contaminant and am interested in adapting the figure from the 2013 review article titled "Pharmaceuticals in the built and natural water environment of the United States". Specifically, I am looking at Figure 1 which shows the inputs and interconnectivity of pharmaceuticals to the environment.

As this pertains to my Master's thesis I do require permission from the original author. If you would like a copy of what I have created from your template I am happy to provide it.

Sincerely  
James Wade

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M.S. Candidate Biological Systems Engineering  
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[jpw9w@vt.edu](mailto:jpw9w@vt.edu)

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**Rolf Halden** <Rolf.Halden@asu.edu>

Tue, Jun 16, 2015 at 5:47 PM

To: James Wade &lt;jpw9w@vt.edu&gt;

Cc: Julie Kurth &lt;Julie.Kurth@asu.edu&gt;

Dear James -

I do not know what the copyright stipulations are for that paper. I safe route is to make modifications and note so in the legend of the figure. I am supportive of your goal to use the Figure but do not have time to look into the legal side of it. Feel free to work with Julie Kurth from Biodesign if need be, or a person at ASU she can refer you to. Many thanks,

Rolf

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**From:** James Wade <jpw9w@vt.edu>**Date:** Tuesday, June 16, 2015 at 11:45 AM**To:** System Administrator <[halden@asu.edu](mailto:halden@asu.edu)>**Subject:** 2013 Water Review article Figure 1 use permission

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