**AUTHOR’S RESPONSES TO REVIEWER’S COMMENTS**

**Manuscript title:** Membrane Diffusion Chambers and Above Ground Mesocosms for the Study of Microbial Responses to Groundwater Geochemistry (John Lisle)

**Manuscript ID:** JoVE55151R1

1. Please re-write steps of your protocol section in imperative tense, as if you are telling someone how to do the technique (i.e. "Do this", "Measure that" etc.). Please try to avoid usage of phrases such as “should be”, “could be”, “would be” and write in the active/imperative style. As currently written, the protocol section is not in imperative tense.

**Author’s response:** See the tracked changes in the revised manuscript.  
  
2. Additionally, the protocol section, and the steps contain descriptions which are not action items. Please be succinct in explaining what the protocol/technique is and remove all the descriptive text and place them as a NOTE under the protocol step if necessary.

**Author’s response:** See the tracked changes in the revised manuscript.

3. Please simplify steps of your protocol section so that individual steps contain only 2-3 actions per step.

**Author’s response:** See the tracked changes in the revised manuscript.

4. After you have made all of the recommended changes to your protocol (listed above), please re-evaluate the length of your protocol section. There is a 10 page limit for the protocol text, but there is a 2.75 pages limit for filmable content. If your protocol is longer than 3 pages, please highlight (in yellow) 2.75 pages (or less) of text to identify which portions of the protocol are most important to include in the video; i.e. which steps should be visualized to tell the most cohesive story of your protocol steps. Please see JoVEs instructions for authors for more clarification. Remember that the non-highlighted protocol steps will remain in the manuscript and therefore will still be available to the reader.

**Author’s response:** See the yellow highlighted passages in the revised manuscript.

5. Figure Legends section is missing. Please place the “Figure Legends” section before the “Discussion” section after the “Representative results section”. Figure Legends should not appear in the protocol section.  
  
**Author’s response:** The legends have been moved to cited location in the revised manuscript.