University of Massachusetts Amherst

# Ambient and Landfill-Impacted Groundwater Quality in the Hudson Valley of Southeastern New York State



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| Changes made to address comments of Reviewer # 1 | | |
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| Reviewer's Comment Number | Substance of Comment: | How comment was addressed: |
| 1. Page 1, Abstract. | Replace: ".....upgradient monitoring wells at a large....." By: " ".....upgradient, presumably uncontaminated, monitoring wells,installed in different rock formations, at a large....." | Change made as suggested |
| 2. Page 2, Section 1, Introduction. | Comment, or add at the end of the first paragraph ("In evaluation of.....within the region"): "For future study, researchers should consider adding ambient water quality values for the parameters selected in this study, in particular rock formations". | Suggestion for future study noted. No change necessary |
| 3. Page 4, Paragraph 2 | ("All of the landfills...."), 1st sentence: Replace: ".....background monitoring point". By: ".....background monitoring well". Or: ".....background groundwater monitoring point". | Change made as suggested. |
| 4. Page 4, Paragraph 2 | ("All of the landfills...."), 2nd. sentence ("In selecting..."): Replace: ".....quality impact". By:".....quality impact, or other significant, off-site, impacts" | An equivalent change was made to address this comment. |
| 5. Page 7, Section 3.1, Paragraph 1 | ("Variability is...."): Replace: ".....data sets due to differences....." By: ".....data sets due to lithological variations within the same rock type,differences....." | An equivalent change was made to address this comment. |
| 6. Page 9, Section 3.3, Paragraph 2 | ("Seven of the ten...."): Replace: ".....promulgated groundwater...." By: ".....promulgated federal and/or State groundwater...." | Change made as suggested. |
| 7. Page 9, Section 3.3, Paragraph 4 | ("Total phenols...."): Replace: "....health- based groundwater..." By: "....health-based State groundwater..." | Change made as suggested. |
| 8. Page 9, Section 3.3, Paragraph 5 | ("In addition to iron...."): Replace: "....applicable groundwater..." By: "....applicable State groundwater..." | Change made as suggested. |
| 9. Page 11, Section 3.4, Paragraph 2 | ("Iron and manganese...."): Replace: ".....difference in sample preparation." By: ".....difference in sample collection, preparation and, possibly water turbidity." | An equivalent change was made to address this comment. |
| 10. Page 12, Section 3.5, Paragraph 1 | ("Differences between...."): Replace: ".....> hardness > 1.0 > chloride >..." By: ".....> hardness > chloride >..." (Comment: the 1.0 value may be confusing). | Change made as suggested. |
| 11. Page 12, Section 4.0, Paragraph 1 | ("This study...."): Replace: ".....differences in sample preparation." By: ".....differences in sample collection, preparation and, possibly water turbidity." | An equivalent change was made to address this comment. |