Workshop Participant Recommendations for Potential Impacts that Should be the Subject of Scientific Research *

Special Scientific Committee on Unconventional Oil and Gas Development June 10, 2014 Workshop Summary

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Potential Impacts: Social-Community	
Communication of what is being done to improve oil and gas development for the purpose of reducing impacts (e.g., green completions)	
Life cycle analysis of hydraulic fracturing and whether use of this technology leads to greater use of natural gas	
Costs and benefits of changes in job availability and property values	
Financial loss from accidents, injuries, missed work time, and property loss	
Public perception issues	
Effects associated with influx of workers from outside the community (e.g., rising rent levels)	
Community members not receiving what they were promised, resulting in a lack of trust	
Need for implementation of regulations by state and federal authorities	
Need for community engagement in research	
Need vigilance and a better reporting system for spills and accidents	
Disparity in royalties and cash incentives among community members, leading to community fragmentation	
Potential Impacts: Ecological-Environmental	
Health of macroinvertebrates and the seasonal and spatial variation of impacts	
Ensuring that solid waste is disposed of in an appropriate landill or other disposal facility	
Spills and leaks from holding ponds and other sources that contaminate rivers, streams, and other water resources	
Induced seismic activity	
Emission variability among phases of oil and gas development	
Baseline aquifer quality data and effects on drinking water quality sourced from groundwater	
Insufficient groundwater quality data	
Surface water quality impacts and their seasonal variability	
Farm and domestic animal health and welfare	
How to reduce impacts of habitat fragmentation	

^{*} The HEI Committee has reached no conclusions at this time; therefore, nothing said at the workshop or included in documentation from the workshop, including this table, should be interpreted as a finding or a conclusion of the Committee. Findings from the Committee's work will be discussed at future workshops.