

REVIEW MEMORANDUM

April 14, 2014

To: Dan Courtemanch, Project Manager, Division of Land Resource Regulation
From: John Hopeck, Ph.D., Division of Environmental Assessment

Re: Bingham Wind Project, L-25973-24-A-N

- 1) Subsurface explorations at the site indicate that the majority of the area is underlain by basal till over metasedimentary bedrock, with minor amounts of organic layers, fill, and reworked till or outwash in some areas. Bedrock is fairly consistent across the site, with the exception of material sampled at B-T21, which appears to have an elevated content of sulfide minerals. Small sulfidic deposits could be expected to develop from organic-rich muds in the depositional environment of these units, but do not appear to be widespread. Avoidance or minimization of disturbance of any such material should be simple to accomplish given the available area; except in very minor amounts, rocks with obvious elevated sulfide content should not be used in rock sandwiches or other BMPs where they will be exposed to concentrated flows.
- 2) There appear to be some minor mislabeling of some figures or locations, but these can generally be resolved unambiguously with reference to other information provided, with the following exceptions:
 - a) Explorations B-T51 and B-T52 are not clearly shown on the site plans in the copy of the report received
 - b) Two locations are identified as P-21 on Exploration Location Plan 1H
 - c) Exploration Location Plan 1M shows a P-37A for which no log was received.
- 3) Many sections of the geotechnical report are used in site-specific design of the turbine pads and surrounding, for purposes such as design of grounding systems, foundation design, and other features of the turbine pads with no direct environmental impact. This information was reviewed for consistency with the other geotechnical information, but not for assessing those particular aspects of turbine pad design.