



MITIGATING ENVIRONMENTAL IMPACTS TO ARCTIC WETLANDS FROM OIL AND GAS DEVELOPMENT ACTIVITIES

Ray Valente
Marine Scientist
Shell Global Solutions



BACKGROUND

- ❑ Shell partnership with Wetlands International
- ❑ Overall goal: conserving wetlands and mitigating potential impacts of Shell's Arctic development activities through use of sustainable operating practices.
- ❑ In 2012, WI completed an extensive report that:
 - Reviews the extent, variety and function of Arctic wetlands
 - Describes the potential environmental impacts of oil and gas operations on these fragile ecosystems, and
 - Identifies numerous methods for impact mitigation and ecosystem



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Oil and gas industry impact on arctic wetlands: mitigation, recovery and rehabilitation/restoration options. Final report. G. Peter Kershaw (ed.). Wetlands International, Ede, 2012, 237 pp.

Shell Arctic Theme Leader: Robert Blaauw
Wetlands International CEO: Jane Madgwick

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Layout and technical editing: Anastasia Markina

Project coordinators: Tatyana Bobrovitskaya (Shell), Mikkel Kallesoe (Shell), Tatiana Minayeva (Wetlands International) and Ward Hagemeijer (Wetlands International)

RESULTS SUMMARY

- ❑ Arctic wetlands (peatlands) provide a wide range of ecosystem services
- ❑ Permafrost and hydrology are the critical factors in structuring and maintaining Arctic wetlands
- ❑ There are many different types of potential impacts to Arctic wetlands from oil and gas activities
- ❑ But also, a long list of mitigations that can be applied at each level of the mitigation hierarchy.^{1E}



