Dear Minister McKenna,

As scientists who have studied and worked around the globe on conservation issues for many decades, we appreciate the leadership that you and others in government have shown over the last year in moving forward conservation and environmental initiatives. Biodiversity losses are mounting as was summarized in the recently released report of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services and in testimony to the Standing Committee on Environment and Sustainability on June 17. Canada itself is struggling as demonstrated in last month’s State of Canada’s Birds report, the continued decline of Woodland Caribou, slow recovery of listed species at risk, and many new additions to that list each year. Changes to the world’s climate, its environment, and our social systems as a result of human-caused greenhouse gas emissions are increasingly alarming as we see so vividly in Canada when large fires and floods linked to changing climate dominate the news.

Your government’s positive vision for achieving ambitious biodiversity, ecological, and climate change goals has been an important beacon to the world to show that nations can achieve great things even in today’s troubled times.

Now, as we approach the year 2020 and the deadline for achieving the Convention on Biodiversity goal of protecting at least 17% of Canada’s lands, it is vital that the implementation of a world leading conservation vision be carried out with unwavering commitment to achieving truly groundbreaking results.

In particular, it will be crucial for Canada to demonstrate a clear path to 17% -- and beyond – through the Nature Fund and other measures. The historic investments made possible through the Canada Nature Fund provide a unique and critical opportunity to support ambitious action towards Canada’s current and future biodiversity protection goals.

Clearly, reaching the 17% goal will only be possible through your government’s support of the many Indigenous government and community proposals for Indigenous Protected and Conserved Areas (IPCAs), especially those that encompass very large landscapes across the boreal forest region. We applaud your support for Indigenous leadership in conservation to date and urge you to give high priority to these forward-thinking efforts.

IPCAs represent extraordinary opportunities to not only meet Canada’s international biodiversity commitments but also protect key carbon stores while at the same time contributing to renewed relationships with Indigenous Peoples. Placing these areas at the heart of Canada’s plan to meeting its current and future commitments is a key step forward for Canada and the global community.

In addition, ensuring that all areas considered under the 17% goal (including Other Effective Area-based Conservation Measures) provide long-term effective and enduring protection of Canada’s biodiversity and ecosystem services will be crucial to demonstrating international leadership. Areas that are currently undeveloped because of regulations, policy or as a result of voluntary measures or standards as in wetland and riparian buffer strips on lands managed for forestry or agriculture, should not be added to the tally of protected areas. While such conservation-minded land use practices are especially valuable in developed areas, reliance on such practices in undeveloped landscapes would distort the protected areas concept, leading potentially to decline of fish, wildlife, and plant populations and
ecosystem functions. Such areas could, on the other hand, be legally established as protected areas and made off limits to all industrial activity including sub-surface activity in order to make meaningful progress to protecting and enhancing biodiversity.

As you know, Canada is steward to some of the world’s most significant ecological and biodiversity features including one of the world’s largest areas of ecologically intact forests—the Boreal Forest. This region supports billions of migratory birds including threatened species like the Whooping Crane and the Canada Warbler that connect the landscapes across the Western Hemisphere as they make their migratory journeys to wintering grounds that stretch from southern Canada and the U.S. to southern Chile and Argentina. The Boreal Forest is also one of the last strongholds for many species of large mammals including both Woodland and Migratory Caribou, Grizzly Bear, Timber Wolf, and Wolverine. The region encompasses some of the world’s largest lakes, largest wetlands, and the longest undammed river systems left in North America. Held within its peatlands and soils are over 200 billion tonnes of carbon, equivalent to decades of the world’s current greenhouse gas emissions. Ecosystem functions and services across the Boreal Forest region are also intact over most of its extent.

Significant support of IPCAs and other strong conservation measures will be crucial to ensuring that these values are maintained into the future. Such an outcome will be a sign of hope for all the people of Canada and of the world.

Sincerely,

Nancy Turner, Ph.D.
Distinguished Professor Emeritus and 2015 Pierre Elliott Trudeau Fellow
School of Environmental Studies
University of Victoria

David Schindler, Ph.D.
Professor Emeritus of Ecology
University of Alberta

Micheline Manseau, Ph.D.
Adjunct Professor, University of Manitoba’s Natural Resource Institute & Trent University
Research Scientist
Environment and Climate Change Canada

Gretchen Daily, Ph.D.
Director, Center for Conservation Biology
Bing Professor of Environmental Science
Department of Biology
Stanford University

Nigel Roulet, Ph.D.
James McGill Professor of Biogeoscience and Department Chair
Department of Geography
McGill University

Monica Mulrennan, Ph.D.
Associate Vice-President Research
Concordia University

Rebecca Rooney, Ph.D.
Assistant Professor
Department of Biology
University of Waterloo

Isabelle M. Côté, Ph.D.
Professor and Chair
Biological Sciences
Simon Fraser University

Jeremy Kerr, Ph.D.
University Research Chair in Macroecology and Conservation
Professor, Department of Biology
University of Ottawa

Suzanne Simard, Ph.D.
Professor of Forest Ecology
Department of Forest and Conservation Sciences
University of British Columbia

Nalini Nadkarni, Ph.D.
Professor, Department of Biology
University of Utah

Jim Schaefer, Ph.D.
Professor of Biology
Trent University

Natalie Ban, Ph.D.
Associate Professor
Environmental Studies
University of Victoria

Colleen Cassady St. Clair, Ph.D.
Professor, Biological Sciences
University of Alberta
Stuart Pimm, Ph.D.
Doris Duke Professor of Conservation
Nicholas School of the Environment
Duke University

Terry Root, Ph.D.
Senior Fellow
Woods Institute for the Environment
Stanford University

Lenore Fahrig, Ph.D.
Professor of Biology
Co-director of the Geomatics and Landscape Ecology Research Laboratory
Carleton University

Peter Raven, Ph.D.
President Emeritus
Missouri Botanical Garden

Marguerite Xenopoulos, Ph.D.
Professor
Department of Biology
Trent University

Britt Hall, Ph.D.
Associate Professor
Department of Biology
University of Regina

John Jacobs, Ph.D.
Honorary Research Professor
Department of Geography
Memorial University of Newfoundland

Carissa Brown, Ph.D.
Associate Professor of Biogeography
Department of Geography
Memorial University of Newfoundland

Suzanne Bayley, Ph.D.
Emeritus Professor of Ecology
University of Alberta
Jim Strittholt, Ph.D.
President/Executive Director
Conservation Biology Institute

Nicola Koper, Ph.D.
Professor & Associate Head
Natural Resources Institute
University of Manitoba

Wendy Palen, Ph.D.
Associate Professor
Department of Biological Science
Simon Fraser University

Gordon Orians, Ph.D.
Professor Emeritus
Department of Biology
University of Washington

Heidi Swanson, Ph.D.
Associate Professor and University Research Chair
Department of Biology
University of Waterloo

Karen Kidd, Ph.D.
Professor and Stephen A. Jarislowsky Chair in Environment and Health
School of Geography & Earth Sciences and Department of Biology
McMaster University

Ilona Naujokaitis-Lewis, Ph.D.
Research Scientist
Wildlife & Landscape Science Directorate
Environment and Climate Change Canada

Helen Baulch, Ph.D.
Associate Professor
School of Environment and Sustainability
University of Saskatchewan

Jeff Wells, Ph.D.
Vice President of Boreal Conservation
National Audubon Society
Associate, Cornell University Laboratory of Ornithology

cc: Stephen Lucas, Deputy Minister, ECCC
    Niall O’Dea, Associate Assistant Deputy Minister, Canadian Wildlife Service, ECCC