

ROBERT A. VAN LONKHUYZEN

Ecological and Geographical Sciences Section
Environmental Science Division
Argonne National Laboratory

Education:

B.A. Trinity Christian College, Biology, 1990

Professional Experience:

1994-Present Assistant Terrestrial Ecologist
Environmental Science Division
Argonne National Laboratory

Responsible for analysis of ecological resources, particularly wetlands and vegetation communities, and assessment of impacts to those resources. Prepared documents for NEPA, CERCLA, Clean Water Act, Fish and Wildlife Coordination Act, Endangered Species Act, and Executive Orders 11988 and 11990. Conducted field investigations for the collection of data for ecological risk assessment, biodiversity studies, protected species surveys, habitat suitability modeling, wetland delineation, natural resource management, and environmental impact assessment. Coordinated with federal and state agencies for compliance with regulations concerning wetlands, threatened and endangered species, and other ecological resources. Developed plans for ecological restoration, wetland management, and wetland mitigation.

Summary of Previous Experience:

1992-1994 Term Appointment
Environmental Assessment Division
Argonne National Laboratory

Conducted analyses on wetlands and other ecological resources; authored wetland and ecological sections for various NEPA documents. Assisted in the interpretation of multispectral aerial videography for the assessment of impacts to terrestrial resources, wetlands, and threatened and endangered species for the Western Area Power Administration EIS. Consulted and coordinated activities with Federal and State agencies to ensure compliance with the Endangered Species Act, the Fish and Wildlife Coordination Act, the Clean Air Act, and wetland regulations. Assessed impacts to wetlands from sediment removal operations, borrow soils excavation, and development of a wetland/shorebird complex in support of cleanup operations at the Weldon Spring Site. Assessed impacts to ecological resources, including wetlands and threatened and endangered species, from operational changes and construction at McGuire Air Force

Base. Conducted wetland delineations and data collection for an ecological risk assessment at Aberdeen Proving Ground. Assessed impacts of construction projects on ecological resources in the St. Lawrence River valley. Field activities included riparian vegetation surveys and wetland delineations. Activities in support of Argonne National Laboratory's Environment, Safety and Health program included performing wetland delineations for ANL projects; providing consultation on wetlands on the ANL site; assisting in assessment of impacts to wetlands and development of mitigation for wetland losses.

1991-1992 Special Term Appointee
 Environmental Assessment Division
 Argonne National Laboratory

Assisted Ecology Section staff in field data collection and organization, GIS analysis, and literature search for various projects. Conducted field sampling and plant identification for various studies including: habitat analysis of tallgrass prairie, forest, and old-field habitat, reproductive strategies in a fallow deer population, small mammal populations, and fish and macroinvertebrate populations. Collected data relating to terrestrial resources and wetlands of the upper Colorado River Basin and created a database for the preparation of an Environmental Impact Statement on hydroelectric generation. Participated in the development of a wetland inventory program for the ANL site, identified and delineated wetlands on ANL property, and assisted in the production of a technical report on the wetlands of the ANL site. Produced 48 wetland maps on a geographic information system. Collected specimens and created an herbarium of plant species of the ANL site.

Research Interests:

Ecology of wetland systems
Ecosystem response to disturbance
Ecological risk analysis
Plant community characterization
Ecological restoration and management

Professional Activities:

Member, Illinois Native Plant Society
Monitor, Plants of Concern/Chicago Wilderness

Publications:

Author or co-author of 60+ reports, conference publications, and presentations.