



Apatit JSC Biodiversity Preservation Program



Biodiversity Preservation Program

The Company obligations in preservation of biodiversity, natural landscapes, and natural complexes in regions of its presence are documented in the Environmental Protection Policy of PhosAgro PJSC



Objective

Preservation of natural ecosystems diversity in regions of the Company operation at a level ensuring their sustainable existence



Tasks



monitoring of the biodiversity state within the economic activity boundaries



monitoring of biological diversity indicator species in the regions of the Company presence

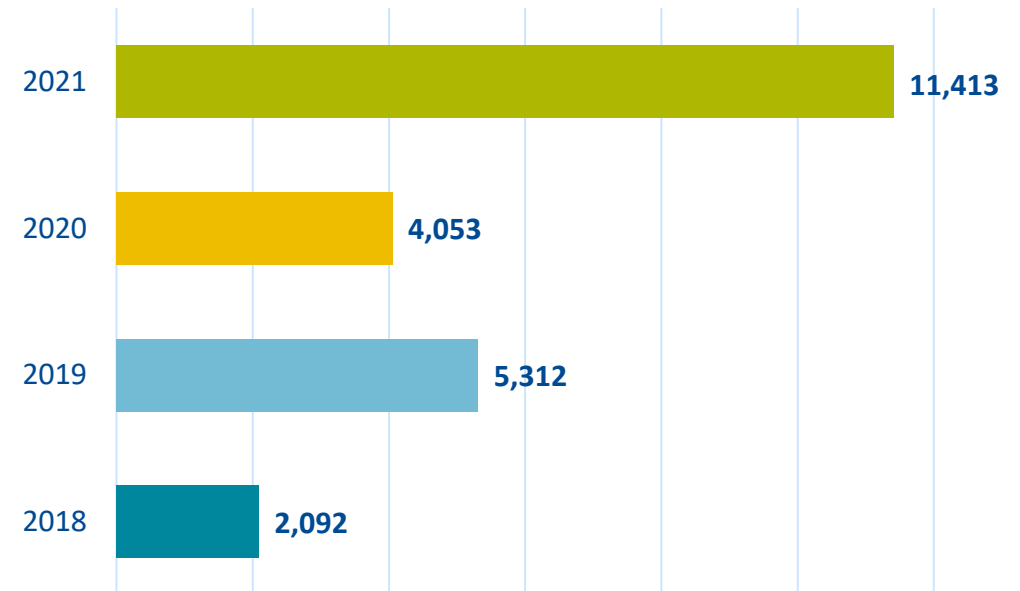


reproduction of aquatic biological resources in fishery water bodies



carrying out research in the field of biodiversity preservation

Costs for implementation of the Biodiversity Preservation Program, mRUB



Flora, fauna, soils ecological monitoring program. Volkhov subsidiary

The environmental monitoring program is implemented at stages of construction and installation, and operation of designed facilities

According to results of fauna, soils, and geobotanical surveys in the sanitary protection zone in July-September 2021:



Fauna and flora

- species composition of fauna in all biotopes of the surveyed area is typical of the studied region
- there are no autumn migratory flocks of birds
- there are no rare and protected plant species recorded in the Red Data Books of the Leningrad Region and Russia
- monitoring of phytocenoses composition and structure has been performed
- schematic map of plant communities has been detailed
- marker indicators of forest stand have been defined



Soils

- Types of soil have been identified
- Schematic map of main soil varieties distribution has been drawn up
- Comparative analysis of selected soils at observation control points with background parameter values has been carried out.

A flora, fauna, soils ecological monitoring program for the Volkhov subsidiary facilities of the Apatit JSC has been prepared.

Biodiversity Preservation Program Cherepovets site (Vologda region) 1/2



The Biodiversity Preservation Program was developed with engagement of a research organization

In the course of the inventory survey, the following has been conducted

8 routes

18 length
km

59

Moss species

22

Lichen species

11

Mushroom species

354

Vascular plant species

8

Amphibian species

6

Reptile species

48

Mammal species

161

Bird species

45

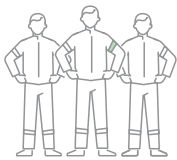
Terrestrial invertebrates families

All species are in a satisfactory condition and do not need special restoration and preservation measures

Biodiversity Preservation Program Cherepovets site (Vologda region) 2/2

Performed:

1



Route and point botanical
and zoological observations

2



Biodiversity (flora and fauna) state
characteristics



Indicator species monitoring plan



Assessment, description, and selection of
biological diversity indicator species

4

3



Indicator species:

Plants:

- **Scots pine (*Pinus sylvestris* L.)** – indicator of industrial pollution - needles.

Vertebrate animals:

- **Red fox (*Vulpes vulpes* L.)**
- **Pine marten (*Martes martes* L.)**
- **American mink (*Mustela vison* Schreber)**
- **Moose (*Alces alces* L.)**
- **Raccoon dog (*Nyctereutes procyonoides* Gray)**

Monitoring and assessment of the status of indicator species is carried out at intervals of 1 time in 3 years, for animals using the method of route accounting by footprints in the snow.

Program for biological resources reproduction in water bodies

BRR release in 2021

1,161,976 PCS

Fish juveniles released into water bodies in the Company presence regions during the 2018 – 2021 period.

