



Deutscher Akademischer Austausch Dienst German Academic Exchange Service



The use of the Parthenocíssus quinquefolia in biological reclamation of waste rock dumps

Strohyi Oleksii¹, Bachelor student, Vyacheslav Fedotov², Head od the Lab, Dnipro University of Technology, Dep. of Ecology and Env. Technologies



Parthenocissus quinquefolia – is a species of flowering plant in the grape family. It is native to eastern and central North America and is frequently used for vertical gardening.



Contacts: Department of Ecology and Environmental Technologies, DUT, D. Yavornytskogo 19, Dnipro E-mail: ¹ lex200119@gmail.com ² vaclavdnepr@i.ua Advantages and disadvantages of using Parthenocissus quinquefolia for reclamation

Advantages

-Unpretentious to the soil, prefers stony soils
-It grows quickly
-Dry- resistant
-Frost-resistant
-Reinforces slopes with root system
- Fruits attract all kinds of different animals

Disadvantages

-Invasive species, that is capable of displacing other species Experience of using *Parthenocissus quinquefolia* for landscaping waste rock dumps in Ukraine

Parthenocíssus quinquefolia – is already being used in many waste rock dumps in Ukraine. It is mainly planted by the birds and it's mixed together with all kinds of different plants that are able to survive in that tough environment. It has being seen growing on waste rock dumps in Kryvyi Rih, Dokuchayivsk and Donetsk.







Conclusion: Considering the lack of disadvantages, introduced species is one of the best solutions for reclamation of waste rock dumps. "EcoMining: Development of Integrated PhD Program

for Sustainable Mining & Environmental Activities"

