

RAZISKOVALNA NALOGA

PLASTIKA -

GROŽNJA ALI FANTASTIKA?

Tematsko področje: Ekologija z varstvom okolja

Plastic – threat or fiction?

POVZETEK

Okoljevarstveniki že vrsto let opozarjajo na nevarnosti, ki jih plastika predstavlja za okolje in vodna telesa. Kljub temu se večina ljudi ne odziva in ne spreminja svojih navad in s tem prispeva k onesnaževanju. Cilj naše raziskovalne naloge je, da ljudem pokažemo, da tudi najmanjši odpadki vplivajo na okolje ter da so reke veliko bolj onesnažene, kot se lahko vidi s prostim očesom in da velik del k temu prispeva mikroplastika.

Odšli smo na teren in na lastne oči videli, kako umazane so reke v resnici. Očistili smo okolico zgornjega in spodnjega toka potoka Trboveljščice ter količini odpadkov in najdene mikroplastike primerjali med seboj. Ugotovitve smo primerjali tudi s šolo iz sosednjega mesta Zagorje ob Savi in z rezultati s predela Save med Krškim in Brežicami.

Ugotovili smo, da je zgornji tok bolj potoka onesnažen kot spodnji, predvsem s kmetijskimi odpadki. Spodnji tok je imel več cigaretnih ogorkov. S primerjavo z drugimi lokacijami smo ugotovili, da Trboveljščica ne vpliva močno na koncentracijo plastike v reki Savi, v katero se potok izliva. Enak zaključek smo dobili pri hipotezi z mikroplastiko.

Ključne besede: onesnaževanje, mikroplastika, odpadki, plastika.

ABSTRACT

Even though environmentalists have been warning us about the dangerous effects plastic has on our environment and bodies of water for years, most people don't react and don't change their habits, which actively help the pollution. The goal of our research paper is to show people that even the smallest piece of trash impacts the environment and that the rivers are a lot more polluted than it may seem at first and that the huge reason for that is microplastic.

We went to the field and saw how dirty the rivers actually are. We cleaned the surrounding area of the upper and lower stream and compared the found quantities of plastic and microplastic to each other. We even compared them to the results of the neighbouring town Zagorje ob Savi and to the results from the part of Sava between Krško and Brežice.

We figured out that the upper stream is a lot more polluted than the lower stream, mainly with agricultural waste. The lower stream had more cigarette butts. When compared to the other locations we figured that the pollution of Trboveljščica doesn't really affect the pollution of Sava, into which the stream flows. We've come to the same conclusion with the hypothesis about the microplastic.

Key words: pollution, microplastic, waste, plastic