

عنوان مقاله:

Probing the lethal agent in the hot spring of the Death Valley in Tashan city, South of Iran

محل انتشار:

چهارمین کنفرانس بین المللی برنامه ریزی و مدیریت محیط زیست (سال: 1396)

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خلاصه مقاله:

The Death Valley spring which is located in the Zagros Mountains, Khuzestan Province, Iran, emerges along the Bangestan Fault and it is a unique landscape. Water flows from a hot headstream through a colorful bed into the valley for about 2 km down-run and disappears through the alluvial deposits. In the last decade, it was reported that five persons and many animals have died as a result of gas inhalation from it. Attempts have been made to find out the secret behind the availability of organisms in the mentioned spring and the reason for the death of five persons. The purpose of this paper is to study the Death Valley, which is located in the south of Iran (Tashan City), as well as the lethal agent and other index mineral compounds in its water. Air analysis was performed near the headstream to know more about the fatal gas in the area. The results showed that the concentration of Hydrogen sulfide was as high as 400 ppm during hot season which could lead to pulmonary edema and death. Water in the area contains a high concentration of sulfide (1780 mg/L) which is a characteristic of thermal or hot spring waters. This gas is available along the stream and also far from the spring. The eminence of spring water is high enough to be exploited for remedial purposes. Hydrogen sulfide (a poisonous gas) was detected near the spring and has caused the death of 5 people as a result of pulmonary failure. The highest concentration was observed in the spring (400 ppm) and at the hot months of the year.

کلمات کلیدی:

Death Valley, Hydrogen sulfide, poisonous gas, Heavy metal, Tashan

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