Scientific Research



Search Keywords, Title, Author, ISBN, ISSN

Home	Journals	Books	Conferences	News	About Us	; Job:
Home > Journal > Earth & Environmental Sciences > JWARP					Open Special Issues	
Indexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges					Published Special Issues	
JWARP> Vol.2 No.4, April 2010					Special Issues Guideline	
OPEN@ACCESS Environmental Effect of Reservoirs Accumulating Highly					JWARP Subscription	
Mineralized Oil-Field Waste Waters					Most popular papers in JWARP	
PDF (Size: 206KB) PP. 309-313 DOI: 10.4236/jwarp.2010.24035 Author(s)					About JWARP News	
Ilyusya M. Gabbasova, Ruslan R. Suleymanov				Frequently Asked Questions		
ABSTRACT The effect of oilfield waste water on the ground, the soil and the underground water has been studied. The reservoir is shown to be the source of environmental pollution due to the seepage of highly mineralized waste water through the reservoir bed and walls. Increased water mineralization in the spring two kilometers downward from the reservoir is one indication of it. Desalinization of the water should be expected in 140 years' time. Typical chernozem formed on the area under study 40 years after the contamination have be-come naturally desalinized and desolonized as a result of a washing water regime and a genetically high content of carbonates and gypsum in the profile and soil forming rocks. Moreover, they retain an increased content of water-soluble salts, exchangeable sodium and electrical resistance, which is trained for allelia calle and espectrum exercutation between burdenscheib enbaging					Recommend to Peers	
					Recommend to Library	
					Contact Us	
					Downloads:	402,262
which is typical for alkali soils and solonetzs. The humus accumulative horizons show hydrophobic behavior. Due to leaching carbonates content, cation exchange capacity, mobile nitrogen and phosphorus availability decrease. Soil contamination by OWW leads to the accumulation of toxic elements in the soil and				Visits:	1,011,016	
vegetation. KEYWORDS Oilfield Waste Water, Salinization, Toxic Elements, Ground Waters, Soil Properties					Sponsors, Associates, ai Links >>	

## Cite this paper

I. Gabbasova and R. Suleymanov, "Environmental Effect of Reservoirs Accumulating Highly Mineralized Oil-Field Waste Waters," *Journal of Water Resource and Protection*, Vol. 2 No. 4, 2010, pp. 309-313. doi: 10.4236/jwarp.2010.24035.

## References

- [1] M. Z. Gainutdinov, M. Y. Giliazov and I. T. Khramov, " Change in Agrochemical Properties of Alkaline Cher-nozems under the Impact of Oil-Field Waste Waters and their Remediaton," Agrochemistry, Russia, No. 7, 1982, pp. 111-116.
- [2] N. P. Solntseva and A. P. Sadov, " Influence of Waste Brines on Soils in the Area of Urengoi Oil and Gas Con-densate Deposit," Soil Science, Russia, Vol. 3, 1997, pp. 322-329.
- [3] N. P. Solntseva, " Oil mining and geochemical transfor-mation of landscape," Moscow, 1998.
- [4] I. M. Gabbasova, F. K. Khaziev and V. Y. Khakimov, " The Effect of Sewage Water from an Oil Field on the Properties and Biological Activity of Typical Cher-nozem," Eurasian Soil Science, Vol. 35, No. 1, 2002, pp. 85-90.
- [5] P. Baltrenas and A. Kazlauskiene, " Grass vegetation dy-namics in soil contaminated with salt," Ekologija, Vol. 53, No. 3, 2007, pp. 58-63.
- [6] J.-I. Choung, S.-J. Yu, M.-K. Oh, N.-H. Baek, J.-K. Ko and J.-K. Lee, "Varietal Responses of Rice Growth and Yield to Soil Salt Content," Korean Journal Crop Science, Vol. 47, No. 6, 2002, pp. 422-426.
- [7] J. Wrobel, M. Mikiciuk and A. Stolarska, " Effect of Salt Soil Stress on Gas Exchange in Three Forms of Basket Willow (Salix viminalis L.)," Ekofizjologiczne Aspekty Reakcji Roslin na Czynniki Stresowe,

Warszawa, Vol. 509, 2005, pp. 269-281.

[8]