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Wastewater Treatment of Production Enterprises with the Help of High Water Plants

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Annotation: Wastewater treatment biotechnology of the oil refinery using high water plants was studied

Keywords: oil refining, phenols, organo-mineral substances, high water plants.

The otava waters of the Neftci refinery contain the harxil poison modular naphthanic acid, mercaptans, nitrogenous and sulfur compounds, phenols, hydrogen sulphide, arsenic, etc. Otava with Bandai content is dangerous to human life, including plants, animals, soils, if water is thrown into nature. Biologii methods of purification of okava waters, which jump petroleum products, have been created (1 Photo).

Effluents from the guard oil refinery were brought in, and experiments were carried out in two variants in laboratory conditions by placing them in 20-liter circular and square-shaped aquariums. The physico-chemical composition of The brought wastewater was determined. The petroleum products contained in wastewater are 190 mg/l, with no water-dissolved kislrod content. Because oxygen was used to oxidize organic matter in water. Biochemical oxygen consumption (KBS5) -250.5 mg02 / l; the oxidation state was 152.5 mg02/l, ammonia content was 5.5 mg/l, nitrites-0.02 mg/l, nitrates-4.0 mg/l, sulphates-132 mg/l, chlorides 121 mg/l.

In connection with the fact that oil products in water decompose under the influence of bacteria and turn into mineral substances, the amount decreased to 12.7 mg/l. These pointers are shown in the Table (Table 1).

Oil refinery chemical composition of wastewater high water plant eckandankeyingi change

Table-1

Указатели	Состав сточных вод	Состав сточных вод в конце эксперимента	Биомасса растения, г/м2	
			Начало	Окончание
Температура	25,0	26,5	300	686
pH-	6,5	7,5		
Цвет	Пурпурно-	белый		
Запах	5,0	1,0		
Ингредиенты, мг/л	142	44,4		
Содержание кислорода, мг/л	нет	4,8		
КБС5- мг 02/л	255,5	88,3		
Oxidation - mg02/L	150.5	34.2		
Аммоний, мг/л	5,5 ч	нет		
Nitritium, mg/l	4.0	нет		

Нитритий, мг/л	0,02	нет		
Сульфаты, мг/л	137	112,5		
Хлориды, мг/л	118	94,2		
Нефтепродукты, мг/л	190	13.7		

Experiments were continued, and experiments were carried out by diluting the water with water in a 1:1 ratio (50% effluent-50% effluent), as the growth and development of the pistia plant was inactive in the wastewater. A pistian plant of 300 g/m2 was planted in aquariums and its development was observed. During the experiment, the temperature, pH of the water was measured 3 times every day.

Figure 1. Aerotents that undergo primary purification from petroleum products

50 + 50% is diluted with tap water and the pistia plant is planted and the yield as well as the water purification rate is shown in Table 2. Oil refinery chemical composition of wastewater high water plant eckandanking change (diluted in a 1: 1 ratio)

Table-2

Указатели	**Состав сточных вод**	**Состав сточных вод в конце эксперимента**	**Биомасса растения, г/м2**	
			Начало	**Окончание**
Температура	26,0	26,8	300	850
pH-	7,0	7,5		
Цвет	Желтоватый,	без цвета		
Запах	3,0	нет		
Ингредиенты, мг/л	64,3	43,5		
Содержание кислорода, мг/л	2,0	4,8		
КБС5- мг 02/л	147,5	31,8		
Oxidation - mg02/L	159,0	27,2		
Аммоний, мг/л	2.0	нет		
Nitritium, mg/l	0.02	нет		
Нитритий, мг/л	3.8	нет		
Сульфаты, мг/л	101,5	94,5		
Хлориды, мг/л	68,0	43,4		
Нефтепродукты, мг/л	98,5	no		

As can be seen from Table 2, when the wastewater of the oil refinery was diluted by 50% with water from the impoundment, the growth and development of the pistia plant increased to a

certain level by 820 grams on the surface of 1 m2 of water. Changes in the chemical composition of the water were also observed. The amount of oxygen dissolved in the water increased to 4.5 mg/l. The amount of organic matter in the water, that is, the biochemical consumption of oxygen, was observed to be up to 33.8 mg02/ l, the oxidation rate decreased to 28.3 mg02/ L, and the ammonia, nitrite, nitrates in the environment decreased and even disappeared from the environment.

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