



# Industrial and storm water cleanup from oils, fats and petroleum products

# PROBLEM

**INDUSTRIAL AND STORM WASTEWATER** is a process drain. It is formed as a result of any activities of every industrial enterprise (metallurgy, oil production, oil refining, food industry, etc.). Storm water is rain washes from roads, buildings, soil, and etc.

## PROBLEMS IN INDUSTRIAL AND STORM WATER TREATMENT:

- Low efficiency of the existing technologies for industrial and storm wastewater treatment from petroleum products (30-60 mg/l against optimal 0.05-1 mg/l).
- High capital and operating costs of existing technologies for oil-containing water treatment, reagent costs.

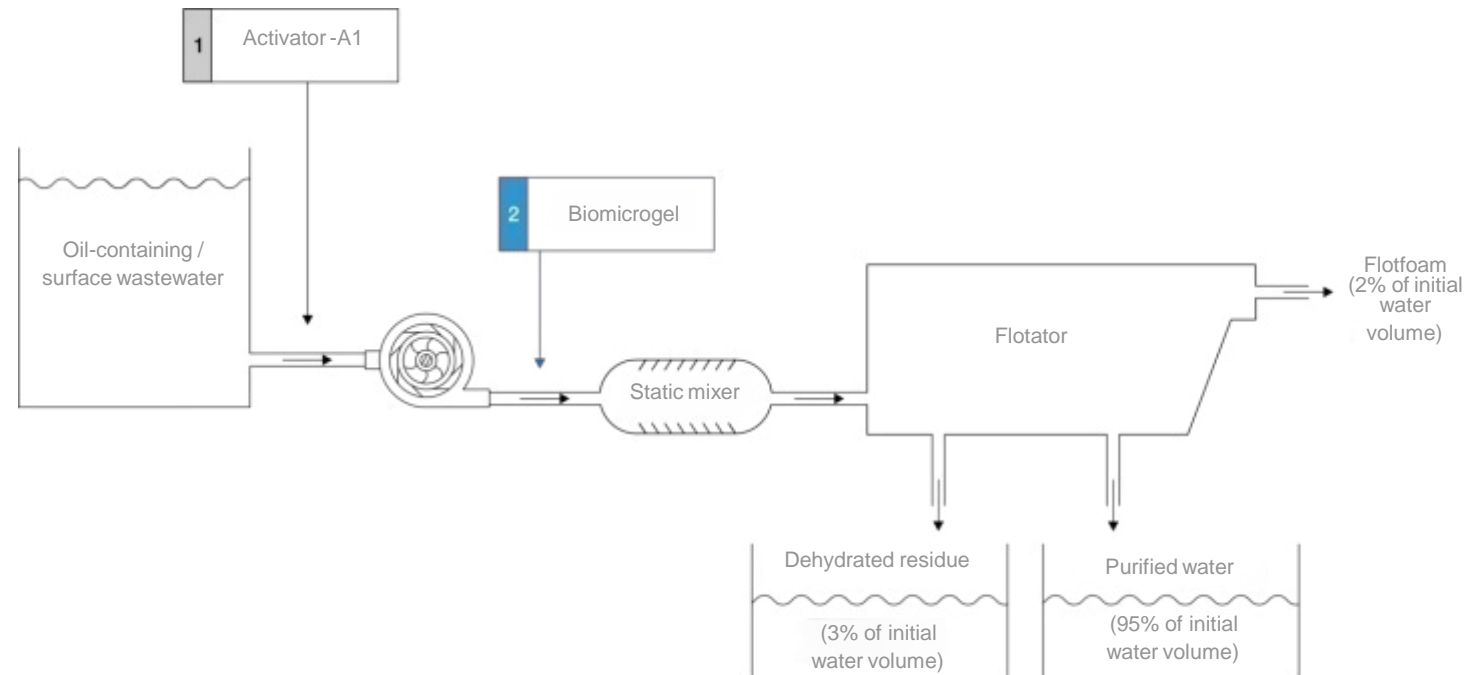
TABLE OF STANDARD INDICATORS FOR INDUSTRIAL AND STORM WASTEWATER

Indicator	from	to
Petroleum products	100 mg/dm <sup>3</sup>	1500 mg/dm <sup>3</sup>
pH	7	9

# SOLUTION

## IN INDUSTRIAL AND STORM WASTEWATER TREATMENT /flotation

### SCHEME OF INDUSTRIAL AND STORM WASTEWATER TREATMENT THROUGH FLOTATION FACILITY\*



#### PRODUCTS USED IN THIS SOLUTION:

- Biomicrogel® BMG-C2
- Biomicrogel® BMG-C200.5
- Biomicrogel® BMG-C210
- Activator - A1

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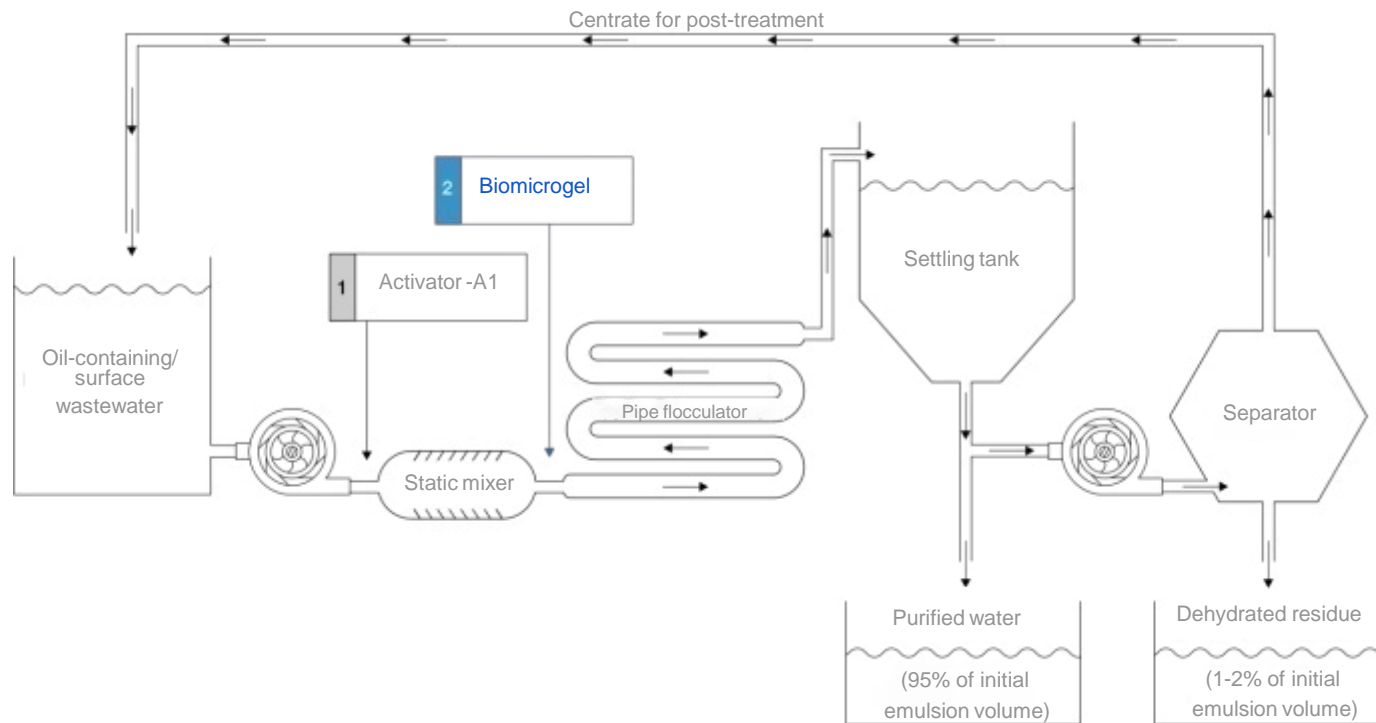
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\*The proposed solution is accompanied by all necessary permits: SEER, SRC, TR CU Declaration of conformity.

# SOLUTION

## IN INDUSTRIAL AND STORM WASTEWATER TREATMENT / settling tank

### SCHEME OF INDUSTRIAL AND STORM WASTEWATER TREATMENT THROUGH SETTLING TECHNOLOGY\*



#### PRODUCTS USED IN THIS SOLUTION:

- Biomicrogel® BMG-C2
- Biomicrogel® BMG-C200.5
- Biomicrogel® BMG-C210
- Activator - A1

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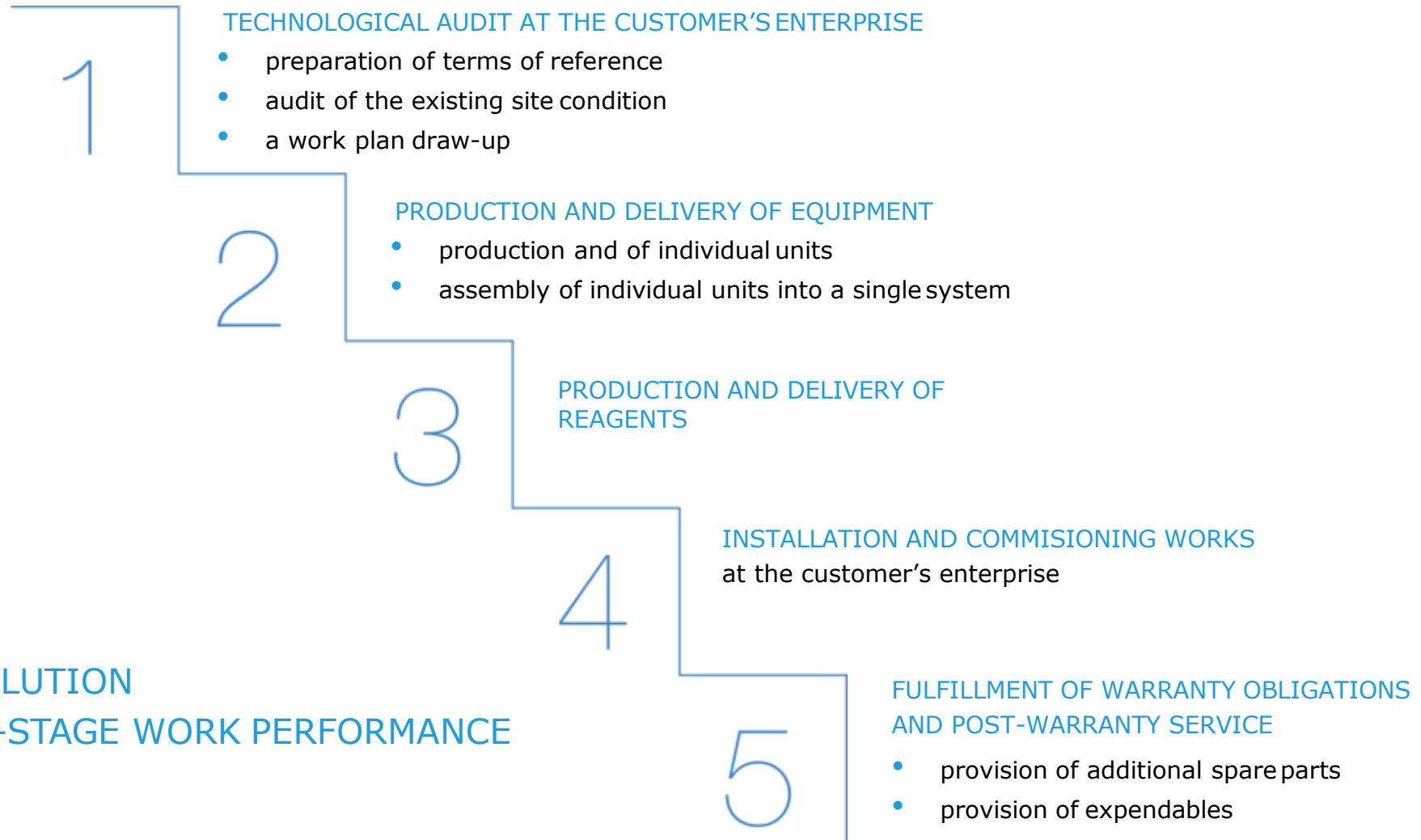
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# OUR OFFER



WE OFFER A  
TURN-KEY SOLUTION  
OR STAGE-BY-STAGE WORK PERFORMANCE

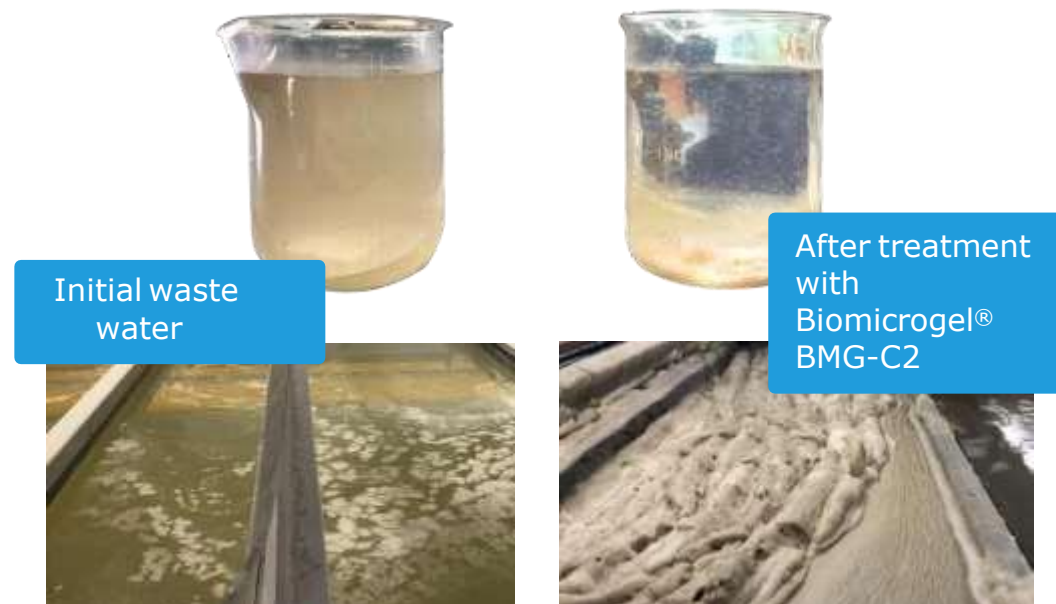
# RESULTS OF THE SOLUTION IMPLEMENTATION

## KEY INDICATORS OF THE POST-IMPLEMENTATION PROCESS

Indicator	Value
Petroleum products	0,05 mg/dm <sup>3</sup>
pH	7,5 - 8,5

## BENEFITS / ADVANTAGES OF IMPLEMENTATION:

- improvement of water treatment efficiency from petroleum products
- reduction of reagent cost through dosage optimization and increase in the reagent speed rate
- obtaining the residue of IV hazard class (Biomicrogel® has a confirmed IV hazard class)
- reduction of the residue amount transferred for disposal / utilization
- application of the most eco-friendly solution (raw materials are plant-based polysaccharides)
- the solution is integrated into the existing equipment line



Depending on the customer's requirements, as well as the conditions of the technological application, it is possible to select reagents for both surfacing of contaminants (in flotation conditions) and their deposition (in a settling tank)

## REFERENCE LIST:



# WHERE TO START?

UPON DRAWING UP THE INITIAL TERMS OF REFERENCE:

1

We will provide  
samples to conduct lab  
tests



2

We offer an on-site lab  
test service  
(you just pay the experts' work)



3

We offer an on-site  
industrial test service  
(you just pay for the  
product and work of  
specialists)



After passing these stages, the solution will be implemented as efficiently as possible and will show the best result.

# ABOUT COMPANY



Operates both in Russia and abroad:  
South-East Asia, the European Union, the USA, Australia, and Brazil.



Developer and patent holder of solutions based on microgels under **Biomicrogel®** brand  
(>60 patents, >50 countries)



2 production sites, 4 chemical laboratories and an experimental site.

Owns an R&D facility, engineering department and technical support service.



Resident of the Skolkovo Innovation Center (Moscow, Russia)  
Resident of "Nadezhinskaya" Priority Development Area (Vladivostok, Russia)





# ALL BMG PRODUCTS

- [Biomicrogel® BMG-P1 sorbent](#)
- [Biomicrogel® BMG-P2 coagulant](#)
- [Biomicrogel® BMG-C2 flocculant](#)
- [Biomicrogel® BMG-C3 soil and sand cleaning agent](#)
- [Biomicrogel® BMG-C4 oil extraction agent](#)
- [Biomicrogel® BMG-C6 solid surface cleaning agent](#)
- [Spilltex® dip net for petroleum product collection from water surface](#)
- [Spilltex® filter cloth for sumplaying](#)
- [Spilltex® filter barrier cloth for shallow rivers](#)
- [Spilltex® universal filter cloth](#)

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# ALL BMG SOLUTIONS

- [Industrial and storm drain cleanup from oils, fats and petroleum products](#)
- [Coolant processing in metallurgy and pipe rolling](#)
- [Coolant processing in mechanical engineering](#)
- [Performance gains in vegetable oil extraction](#)
- [Oil and petroleum product spill](#)
- [Cleanup of solid surfaces from oils and petroleum products](#)
- [Soil washing from petroleum products](#)
- [Purification of bottom and produced water](#)

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