

# REFERENCE 1991 - 8

## MOBILE WASTEWATER TREATMENT TEMPORARY CAMP SOLUTION



### Wastewater situation

- Domestic wastewater
- High load of detergents
- Distinct resident number fluctuation

### Influent

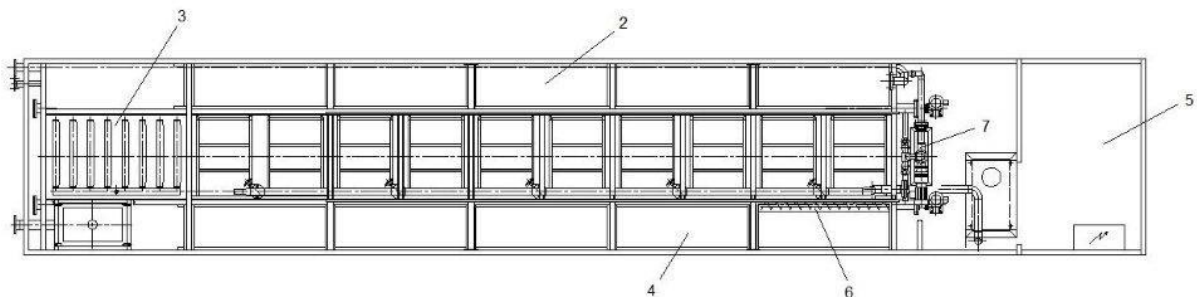
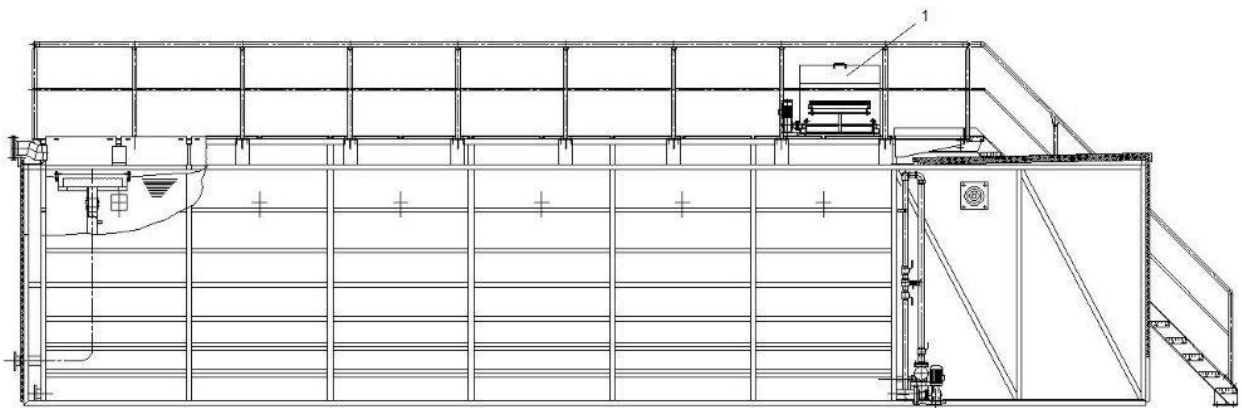
|                    |           |                   |
|--------------------|-----------|-------------------|
| COD                | 400 - 800 | mg/l              |
| BOD <sub>5</sub>   | 200 - 400 | mg/l              |
| pH                 | 7,5 - 8,0 |                   |
| NH <sub>4</sub> -N | 70        | mg/l              |
| P <sub>tot</sub>   | 8,0       | mg/l              |
| Inflow per hour    | 0,6 - 1,1 | m <sup>3</sup> /h |

### Elimination

|     |
|-----|
| 90% |
| 98% |
| 90  |
| 89  |

### Submerged Fixed Bed Biofilm Reactor –ENVIMAC SFBBR-Reactor:

|                                  |      |                                |
|----------------------------------|------|--------------------------------|
| Volume of carrier                | 10   | m <sup>3</sup>                 |
| Specific surface                 | 100  | m <sup>2</sup> /m <sup>3</sup> |
| BOD-surface load                 | 8,0  | g BOD/d*m <sup>2</sup>         |
| Primary/final sedimentation tank | 4,74 | m <sup>3</sup>                 |



**Container-Treatment Plant with SFBBR [1 Sieve, 2 Presedimentation, 3 Aerated Fixed Bed, 4 Final sedimentation, 5 Engine room, 6 Capping, 7 Water and sludge pumps]**