1. The analysis of water samples from a river shows the following contents. Please indicate if this water source meets the drinking water standards in terms of EU Guidelines, WHO Guidelines and TSS266 (Turkish Guidelines for drinking water). State what type treatment must be applied to meet the drinking water standards for each parameter.

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| --- | --- | --- | --- | --- | --- |
| Parameter | Sample results | EU Guidelines | WHO | TSS266 | Treatment method |
| Turbidity (NTU) | 150 |  |  |  |  |
| Color (CU) | 25 |  |  |  |  |
| Iron (mg/L) | 1.5 |  |  |  |  |
| Manganese (mg/L) | 0. 5 |  |  |  |  |
| Arsenic (mg/L) | 1 |  |  |  |  |
| Coliform (#/100 mL) | 100 |  |  |  |  |
| Fluoride (mg/L) | 1 |  |  |  |  |
| Sulfate (mg/L) | 200 |  |  |  |  |
| Mercury (mg/L) | 0.0001 |  |  |  |  |