

# DIN EN 14614:2022-04 (E)

## Water quality - Guidance standard for assessing the hydromorphological features of rivers

---

<b>Contents</b>		<b>Page</b>
European foreword .....		4
Introduction .....		5
1	Scope .....	6
2	Normative references .....	6
3	Terms and definitions .....	6
4	Principle .....	14
5	Study context and requirements .....	14
5.1	Investigating hydromorphology across both space and time .....	14
5.2	Desk study .....	15
5.3	Field survey .....	16
5.4	Analysis and interpretation .....	16
6	Delineation .....	16
6.1	General .....	16
6.2	Extent of delineation .....	17
6.3	Catchments .....	17
6.4	Landscape units .....	17
6.5	Valley segments .....	18
6.6	River reach units .....	18
7	Characterization .....	20
7.1	General .....	20
7.2	Catchment to valley segment units .....	20
7.3	River reach units .....	22
8	Reference conditions .....	31
8.1	Pristine reference conditions .....	31
8.2	Near-natural reference conditions and processes .....	32
9	Quality assurance in obtaining and analysing data .....	33
9.1	Qualifications and experience .....	33
9.2	Training .....	33
9.3	Certification, data entry and validation .....	34
Annex A (informative) Overview of some freely available pan-European data sets .....		35
Annex B (informative) Explanations of the relevance of elements in this document .....		38
B.1	Introduction .....	38
B.2	Hydromorphological characteristics indicative of processes and human pressures at spatial scales from catchment to valley segment (Table 1) .....	38
B.3	Hydromorphological characteristics indicative of flow and sediment transport processes (Table 2) .....	39
B.4	Hydromorphological characteristics indicative of river channel size and type (Table 3) ....	40
B.5	Hydromorphological characteristics of the river bed (Table 4) .....	41

<b>B.6</b>	<b>Hydromorphological characteristics of the river channel (and large island) margins (Table 5)</b> .....	<b>42</b>
<b>B.7</b>	<b>Hydromorphological characteristics of floodplains (Table 6)</b> .....	<b>43</b>
	<b>Annex C (informative) River and related floodplain styles</b> .....	<b>45</b>
	<b>Bibliography</b> .....	<b>50</b>