Riverine Habitat Audit Procedure --- SHEET 13 *Hydrology and Water Quality*

Date (dd/mm/yy) ☐☐/☐☐/☐☐ Recorder _____

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Basin ☐☐☐ Sub-section ☐☐☐☐ Site ☐☐☐☐ Tributary Name _____

NON- SURVEY DATA

Water Flow

Gauge Number ☐☐☐☐☐☐
Gauge Reading (m) ☐☐☐☐☐☐
Flow estimate (ML/day) ☐☐☐☐☐☐

Water Quality Classification

Use Good, bad, ugly Ecology

receiving water standard

Pre-urban Av. min 7 day flow
Av. min 7 day flow now
Projected av. min 7 day flow
flow exceeded 95% of time
lag time then & now
peak volume
peak velocity. max bankfull velocity
design vol
duration of inundation
total diversion ratio
seasonality
variability coefficient.

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2 Time since last runoff

☐☐☐☐ Days since last bankfull discharge
☐☐☐☐ Days since last major flood
☐☐☐☐ Days since last major rainfall event

3 General Local Conditions

☐ 1 Wet Season
☐ 2 Dry Season

☐ 1 Drier than normal
☐ 2 Wetter than normal
☐ 3 Typical conditions

Note: Other parameters

High Flow
Low Flow
Flow Duration Analaysis
Seasonality
Variability
Statistics

Flood model outputs
Signs in stream of current flow level

3 Visual Water Quality Assessment

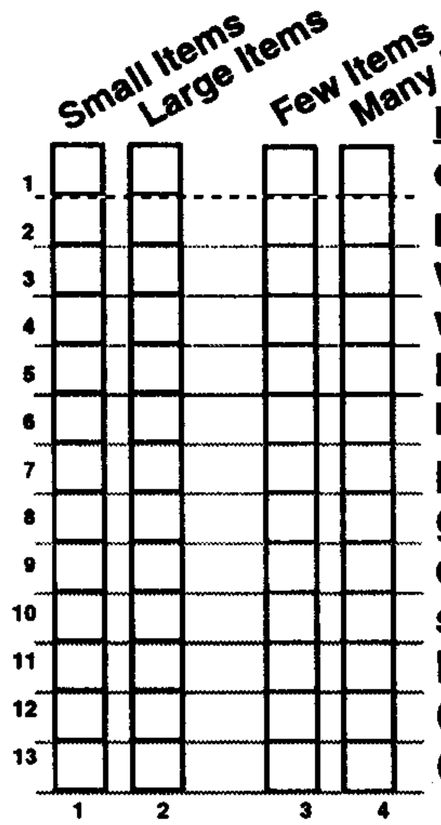
1 ☐ Unusual odour
2 ☐ Unnatural colour
3 ☐ Foams
4 ☐ Iron Stains - orange bed
5 ☐ Discharge pipes
6 ☐ Aquatic plants dirty
7 ☐ Rocks black underneath
8 ☐ Organic slime on rocks
9 ☐ Benthic algae - sparce
10 ☐ Benthic algae - moderate
11 ☐ Benthic algae - dense
12 ☐ Organic debris
13 ☐ Local pipe / drain
14 ☐ Other _____
15 ☐ Other _____

Turbidity

1 ☐ water very clear
2 ☐ low - slightly cloudy
3 ☐ mod - cloudy in deep water
4 ☐ high - cloudy in shallows
5 ☐ very high - very turbid

Water surface scum/oils

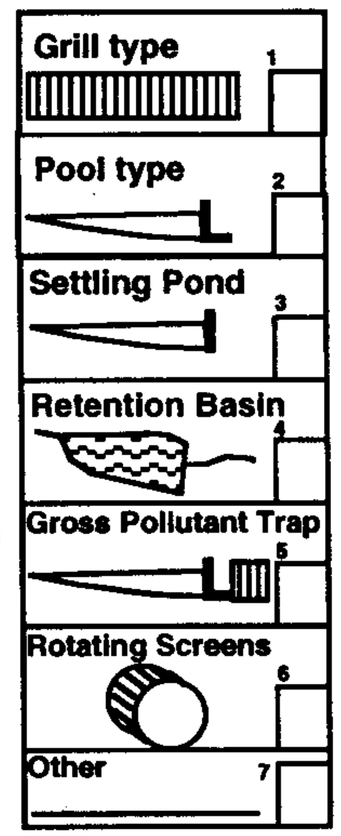
1 ☐ Slick - thick oil/grease
2 ☐ Sheen - thin "rainbow" coating
3 ☐ Globs - thick greasy areas patches
4 ☐ Flecks - thin oil areas in small flecks
5 ☐ Blue-green algae / other algal scum
6 ☐ Other _____
7 ☐ Other _____



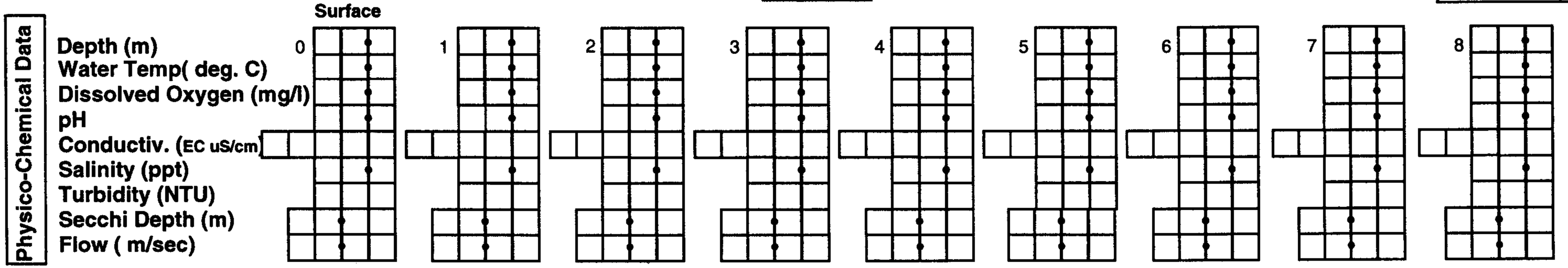
Litter and Rubbish in bed and on banks

organic material - compost, garden waste
paper / cardboard
wood - building materials, planks
wood - dumped branches, trees
household garbage. junk
building materials - bricks, concrete, plaster
plastics
glass, bottles
car/ truck/ bike tyres+ other rubber
small metal - corrigated iron,tins,cans,trolleys
large metal - car bodies etc.
Other _____
Other _____

Trash collection devices



INSTREAM WATER QUALITY MEASUREMENTS - Note: this is optional

Time Measured ☐☐☐☐

Physico-Chemical Data