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| **Appendix 1. The details of sampling sites selected in Rawalpindi and Islamabad area for the present study.***G= Grasses; S= Shrubs; H= Herbs; T= Trees; FW= Freshwater; Lo= Lotic; Le= Lentic; M= Marsh; CL= Cropland; WS= Water storage; WP= Wildlife Park; U= Urban; R= Rural; RP= Recreation Park; N= None; OP= Organic pollution; MW= Municipal Waste* |
|  **Locality** | **Name** | **Major vegetation** | **Substrate** | **Wetland type** | **Land Use** | **Pollution** |
| 1. Rawal Lake
 | Bani Gala | G, H | M | FW, Lo | CL | N |
| 1. Rawal Lake
 | Dam Spillway | G, S | R, M | FW, Le, M | WS | N |
| 1. Loi Bher Wildlife Park (LBWP)
 | Zoo Area | G, H | R, M | FW, Lo | WP | OP |
| 1. Loi Bher Wildlife Park (LBWP)
 | Near Park Entrance | G, H | R, M | FW, Lo | WP | OP |
| 1. Nullah Lai
 | Katariyan | G | M | Lo | U | MW |
| 1. Nullah Lai
 | Amar Chok | G, H | R, M | Lo | U | MW |
| 1. Soan River
 | Soan A | G, H | R, M | Lo | U | MW |
| 1. Soan River
 | Soan B | G, H | R, M | Lo | U | MW |
| 1. Saidpur Village
 | Upstream | S, T | R | Lo | U | N |
| 1. Saidpur Village
 | Downstream | G, H | R, M | Lo | U | MW |
| 1. Quaid e Azam University
 | Stream A | G, H | R, M | Lo | R, CL | N |
| 1. Quaid e Azam University
 | Stream B | G, S | R, M | Lo | R, CL | N |
| 1. Faizabad
 | Auriyan A | G, H | M | Lo | U | MW |
| 1. Faizabad
 | Auriyan B | G, H | M | Lo | U | MW |
| 1. Arid Agriculture University Rawalpindi

(AAUR) | AAUR A | G | M | Le | U | N |
| 1. Arid Agriculture University Rawalpindi
 | AAUR B | G, H | R, M | Le | U | N |
| 1. Ayub park
 | Ayub Park A  | G, H | R, M | Le | RP | N |
| 1. Ayub park
 | Ayub Park B | G, H | R, M | Le | RP | N |