section1C\_stream\_reach\_physical\_char

NYSDEC SMAS : Keleigh Reynolds

4/16/2020

Table :Ranked habitat characteristics and calculated HMA for the Wallkill River Survey, 2017-2019. Epifaunal substrate (Epi. Cover); Embeddedness/Pool Substrate Characterization (Embed. Pool.); Velocity Depth Regime/Pool Variability (Vel/Dep Reg.); Sediment Deposition (Sed. Dep.); Channel Flow Status (Flow Status); Channel Alteration (Chan. Alt.); Riffle Frequency/Stream Sinuosity (Rif. Freq.); Left and Right Bank Stability (L.B. and R.B. Stability); Left and Right Bank Vegetation (L.B. and R.B. Veg); Width of Left and Right Bank Vegetative Zone (L.B. and R.B. Veg Zone); Habitat Model Affinity Score (HMA Score); HMA Assessment (HMA Assess.)

| **SITE\_ID** | **PWL ID** | **Gradient** | **Epi.  Cover** | **Embed.   Pool.** | **Vel/Dep.   Reg.** | **Sed.   Dep.** | **Flow   Status** | **Chan.   Alt** | **Rif.   Freq** | **L.B.   Stability** | **R.B.   Stability** | **L.B.   Veg** | **R.B.  Veg** | **L.B.   Veg Zone** | **R.B.   Veg Zone** | **HMA   Score** | **HMA   Assess.** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13-WALK-60.1 | 1306-0017 | Low | 12.0 | 8.0 | 8.0 | 5.0 | 10.0 | 7.0 | 2.0 | 8.0 | 4.0 | 7.0 | 5.0 | 7.0 | 6.0 | 59.7 | Severe |
| 13-POCH-1.8 | 1306-0078 | High | 11.5 | 14.5 | 7.5 | 14.0 | 16.0 | 13.5 | 5.0 | 6.5 | 6.0 | 6.0 | 3.0 | 4.0 | 3.0 | 61.0 | Moderate |
| 13-RUTG-1.5 | 1306-0006 | High | 15.5 | 15.0 | 15.0 | 14.0 | 16.5 | 15.5 | 14.5 | 3.0 | 7.5 | 6.5 | 8.5 | 4.0 | 8.5 | 79.6 | Altered |
| 13-QKER-0.9 | 1306-0025 | High | 13.0 | 3.0 | 9.0 | 3.0 | 18.0 | 12.0 | 5.0 | 8.0 | 8.0 | 7.0 | 7.0 | 3.0 | 4.0 | 55.2 | Severe |
| 13-QKER-0.9 | 1306-0025 | Low | 5.0 | 5.0 | 4.0 | 10.0 | 15.0 | 10.0 | 13.0 | 8.0 | 8.0 | 7.0 | 7.0 | 4.0 | 4.0 | 67.1 | Moderate |
| 13-RIOG-0.7 | 1306-0061 | Low | 17.0 | NA | 14.0 | 15.0 | 15.0 | 16.0 | 13.0 | 6.0 | 6.0 | 6.0 | 6.0 | 4.0 | 4.0 | 85.2 | Natural |
| 13-WCHEE-0.6 | 1306-0061 | High | 10.5 | 12.5 | 10.5 | 10.5 | 18.5 | 15.5 | 9.5 | 7.5 | 6.5 | 6.5 | 6.0 | 5.0 | 4.0 | 68.0 | Moderate |
| 13-WALK-46.6 | 1306-0017 | High | 13.5 | NA | NA | 7.5 | 16.5 | 11.5 | 7.5 | 7.0 | 5.5 | NA | 6.5 | 7.5 | 7.0 | 76.0 | Altered |
| 13-MONH-4.1 | 1306-0074 | High | NA | 12.0 | 10.0 | 14.5 | 15.5 | 16.0 | 16.5 | 7.5 | 7.0 | 8.0 | 3.0 | 8.5 | 2.5 | 76.2 | Altered |
| 13-MONH-0.4 | 1306-0074 | High | 16.0 | 15.5 | 15.0 | 12.5 | 18.5 | 16.0 | 15.5 | 7.0 | 7.0 | 7.5 | 6.0 | 6.0 | 4.5 | 81.2 | Natural |
| 13-LGUN-6.0 | 1306-0059 | High | 9.0 | 20.0 | 10.0 | 11.0 | 19.0 | 19.0 | 13.0 | 7.0 | 9.0 | 4.0 | NA | 9.0 | NA | 82.3 | Natural |
| 13-GUNK-40.3 | 1306-0048 | High | 10.0 | 15.0 | 2.0 | 6.0 | 18.0 | 17.0 | 0.0 | 9.0 | 7.0 | 7.0 | 8.0 | 6.0 | 9.0 | 63.0 | Moderate |
| 13-GUNK-37.7 | 1306-0047 | High | 11.0 | 15.0 | 10.0 | NA | 19.0 | 8.0 | 9.0 | 7.0 | 7.0 | 5.0 | 4.0 | 5.0 | 5.0 | 68.0 | Moderate |
| 13-GUNK\_T35-0.2 | 1306-0047 | High | 15.0 | 11.0 | 10.0 | 16.0 | 19.0 | 16.0 | 13.0 | 9.0 | 9.0 | 4.0 | 10.0 | 5.0 | 10.0 | 81.2 | Natural |
| 13-MASO-0.2 | 1306-0072 | High | 17.0 | 18.0 | 14.0 | 17.0 | 17.0 | 17.0 | 16.0 | 7.0 | 7.0 | 6.0 | 6.0 | 2.0 | 2.0 | 80.1 | Natural |
| 13-WALK-44.4 | 1306-0038 | High | 14.0 | 13.5 | 9.5 | 15.0 | 19.5 | 14.0 | 14.0 | 8.0 | 7.0 | 5.0 | 6.0 | 5.0 | 6.5 | 75.4 | Altered |
| 13-WALK-35.6 | 1306-0038 | High | 10.0 | 14.0 | 13.0 | 14.0 | 18.0 | 13.0 | 5.0 | 6.0 | 5.0 | 6.0 | 6.0 | 5.0 | 5.0 | 66.3 | Moderate |
| 13-WALK-35.6 | 1306-0038 | Low | 11.0 | 12.0 | 18.0 | 17.0 | 19.0 | 19.0 | 9.0 | 9.0 | 7.0 | 8.0 | 6.0 | 9.0 | 6.0 | 90.6 | Natural |
| 13-WALK-29.9 | 1306-0038 | High | 11.0 | 17.0 | 13.5 | 18.0 | 20.0 | 19.0 | 12.0 | 8.0 | 8.0 | 10.0 | 8.5 | 9.5 | 6.0 | 87.3 | Natural |
| 13-TINW-0.5 | 1306-0068 | High | 10.5 | 12.5 | 11.0 | 7.5 | 17.0 | 16.5 | 11.0 | 5.0 | 7.5 | 6.5 | 7.0 | 6.5 | 9.5 | 70.7 | Altered |
| 13-WALK-26.9 | 1306-0038 | High | NA | 15.5 | 17.0 | 17.5 | 19.5 | 18.5 | 11.0 | 9.0 | 8.0 | 8.5 | 5.0 | 9.0 | 3.0 | 87.0 | Natural |
| 13-DWAR-2.0 | 1306-0062 | High | 13.5 | 18.5 | 14.5 | 16.0 | 15.5 | 18.5 | 15.0 | 9.0 | 7.0 | 8.0 | 8.0 | 6.0 | 5.5 | 84.5 | Natural |
| 13-WALK-22.8 | 1306-0038 | High | 15.0 | 16.0 | 14.5 | 16.0 | 20.0 | 14.0 | 15.5 | 8.5 | 9.0 | 7.0 | 7.5 | 5.0 | 6.0 | 84.5 | Natural |
| 13-WALK-19.0 | 1306-0038 | High | 16.0 | 17.0 | 15.0 | 11.0 | 18.5 | 13.5 | 15.5 | 8.5 | 9.0 | 7.0 | 7.0 | 6.0 | 4.5 | 82.0 | Natural |
| 13-GUNK-0.4 | 1306-0045 | High | 19.0 | 15.5 | 19.0 | 15.5 | 18.5 | 17.5 | 19.0 | 9.0 | 8.5 | 9.0 | 7.0 | 7.0 | 5.5 | 92.8 | Natural |
| 13-PKIL-0.4 | 1306-0044 | High | 14.5 | 14.0 | 14.0 | 14.5 | 15.5 | 14.5 | 16.0 | 5.5 | 5.0 | 8.0 | 6.0 | NA | 3.5 | 80.4 | Natural |
| 13-WKLEI-0.6 | 1306-0042 | High | 9.0 | 4.0 | 10.0 | 5.0 | 14.0 | 18.0 | 5.0 | 10.0 | 6.0 | 8.0 | 6.0 | 6.0 | 10.0 | 61.3 | Moderate |
| 13-WKLEI-0.6 | 1306-0042 | Low | 5.0 | 5.0 | 5.0 | 6.0 | 12.0 | 15.0 | 7.0 | 2.0 | 2.0 | 9.0 | 8.0 | 9.0 | 6.0 | 61.1 | Moderate |
| 13-WALK-2.1 | 1306-0027 | Low | 15.0 | 13.0 | 11.0 | 11.0 | 17.0 | 15.0 | 14.0 | 9.0 | 8.0 | 8.0 | 6.0 | 10.0 | 1.0 | 91.3 | Natural |
| 13-SWAK-1.7 | 1306-0039 | High | 13.0 | 15.5 | 16.0 | 17.5 | 17.0 | 17.0 | 18.5 | 9.0 | 9.0 | 8.0 | 8.0 | 9.0 | 7.5 | 91.2 | Natural |