

Cumulative Impact Sediment Chemistry at CMPs in February 2020

| 6 & 7/2/2020 | | As | Cd | Cr | Cu | Pb | Hg | Ni | Ag | Zn | TOC | TBT | T-DDT | 4,4'-DDE | PCBs | Low M.W. PAHs | High M.W. PAHs |
|---------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|----------|-------|---------------|----------------|
| Station | Replicate | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg | ug/kg |
| Limits of Reporting (LOR) | | 0.1 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.2 | 200 | 0.50 | 2.00 | 2.00 | 3 | 55 | 100 |
| ESC-RNA | 1 | 11.1 | 0.10 | 26.91 | 31.69 | 30.15 | 0.09 | 17.45 | 0.18 | 91.5 | 6,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 12.0 | 0.12 | 28.42 | 30.80 | 31.66 | 0.08 | 18.42 | 0.18 | 93.6 | 5,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 10.3 | 0.12 | 27.64 | 34.67 | 30.52 | 0.09 | 17.54 | 0.21 | 99.7 | 7,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 12.2 | 0.12 | 29.18 | 33.30 | 32.13 | 0.09 | 18.86 | 0.18 | 96.2 | 5,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 11.6 | 0.10 | 29.57 | 32.86 | 32.93 | 0.84 | 19.39 | 0.18 | 97.9 | 8,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 11.0 | 0.12 | 27.00 | 32.24 | 30.08 | 0.10 | 17.39 | 0.17 | 93.3 | 6,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 12.1 | 0.10 | 27.53 | 29.34 | 30.38 | 0.09 | 17.88 | 0.16 | 91.6 | 7,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 10.2 | 0.11 | 25.24 | 30.54 | 28.18 | 0.07 | 15.97 | 0.18 | 87.4 | 7,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 10.8 | 0.10 | 26.28 | 30.87 | 30.85 | 0.08 | 16.81 | 0.17 | 89.7 | 7,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 11.0 | 0.11 | 28.54 | 33.40 | 30.54 | 0.09 | 18.33 | 0.20 | 98.0 | 7,100 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 10.9 | 0.11 | 27.40 | 32.92 | 29.58 | 0.09 | 17.49 | 0.20 | 95.5 | 6,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 11.4 | 0.10 | 27.55 | 32.39 | 29.65 | 0.14 | 17.57 | 0.18 | 93.8 | 6,700 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RNB | 1 | 14.5 | 0.07 | 24.27 | 21.71 | 31.99 | 0.10 | 14.31 | 0.09 | 89.0 | 4,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 12.0 | 0.06 | 22.20 | 20.14 | 33.32 | 0.11 | 12.81 | 0.09 | 96.0 | 4,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 11.5 | 0.06 | 20.67 | 18.03 | 29.72 | 0.07 | 12.02 | 0.09 | 82.2 | 4,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 15.0 | 0.09 | 26.28 | 22.77 | 35.94 | 0.09 | 15.89 | 0.11 | 101.3 | 5,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 12.1 | 0.06 | 22.20 | 23.82 | 32.42 | 0.06 | 12.76 | 0.10 | 93.5 | 2,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 11.4 | 0.06 | 21.22 | 18.29 | 30.60 | 0.15 | 12.15 | 0.08 | 89.8 | 3,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 11.8 | 0.08 | 21.73 | 18.77 | 32.52 | 0.06 | 12.25 | 0.10 | 106.3 | 4,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 11.6 | 0.07 | 22.07 | 19.67 | 32.61 | 0.07 | 12.61 | 0.09 | 93.6 | 2,100 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 12.0 | 0.07 | 21.97 | 19.48 | 32.44 | 0.07 | 12.66 | 0.09 | 93.2 | 4,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 12.7 | 0.07 | 24.13 | 21.71 | 31.45 | 0.12 | 14.37 | 0.11 | 90.4 | 3,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 11.8 | 0.08 | 23.11 | 23.72 | 30.89 | 0.08 | 13.39 | 0.10 | 95.2 | 3,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 13.1 | 0.06 | 23.26 | 18.54 | 32.05 | 0.09 | 14.16 | 0.07 | 91.2 | 3,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RMA | 1 | 14.0 | 0.14 | 32.14 | 42.91 | 34.37 | 0.09 | 20.51 | 0.42 | 106.2 | 8,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 14.1 | 0.16 | 33.20 | 45.32 | 34.86 | 0.09 | 20.65 | 0.24 | 111.2 | 13,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 13.4 | 0.13 | 30.13 | 40.16 | 32.14 | 0.09 | 18.82 | 0.21 | 100.6 | 9,200 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 14.9 | 0.16 | 32.89 | 47.51 | 34.18 | 0.46 | 20.68 | 0.26 | 105.3 | 12,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 13.5 | 0.14 | 31.32 | 45.34 | 32.65 | 0.09 | 19.58 | 0.24 | 106.4 | 12,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 14.2 | 0.15 | 32.33 | 44.98 | 34.15 | 0.13 | 20.40 | 0.26 | 106.8 | 9,800 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 16.0 | 0.15 | 37.40 | 47.65 | 39.23 | 0.10 | 24.01 | 0.25 | 119.5 | 10,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 15.2 | 0.17 | 36.37 | 47.44 | 37.66 | 0.10 | 22.64 | 0.29 | 115.6 | 8,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 14.9 | 0.16 | 34.08 | 48.50 | 35.44 | 0.16 | 21.38 | 0.26 | 111.5 | 8,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 14.6 | 0.15 | 34.10 | 47.48 | 35.01 | 0.10 | 21.27 | 0.26 | 114.2 | 10,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 12.9 | 0.15 | 32.03 | 38.64 | 33.27 | 0.10 | 20.60 | 0.21 | 103.2 | 8,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 15.2 | 0.13 | 34.88 | 48.06 | 35.89 | 0.10 | 21.75 | 0.26 | 110.1 | 9,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RMB | 1 | 13.7 | 0.15 | 35.22 | 27.49 | 34.63 | 0.06 | 22.34 | 0.12 | 95.1 | 9,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 13.7 | 0.11 | 34.28 | 26.67 | 34.53 | 0.08 | 21.73 | 0.12 | 92.9 | 11,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 14.0 | 0.12 | 33.87 | 26.39 | 33.75 | 0.07 | 21.72 | 0.12 | 92.4 | 8,700 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 13.2 | 0.12 | 33.35 | 26.65 | 33.76 | 0.07 | 21.36 | 0.12 | 91.7 | 9,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 13.9 | 0.13 | 32.95 | 26.84 | 34.57 | 0.07 | 20.90 | 0.14 | 92.1 | 11,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 13.2 | 0.11 | 33.29 | 26.15 | 34.08 | 0.07 | 21.34 | 0.17 | 91.2 | 12,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 12.5 | 0.13 | 31.31 | 26.40 | 31.59 | 0.07 | 19.62 | 0.11 | 88.0 | 8,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 11.9 | 0.11 | 30.54 | 26.41 | 31.51 | 0.11 | 19.15 | 0.11 | 86.0 | 8,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 12.9 | 0.12 | 33.62 | 27.42 | 34.39 | 0.21 | 21.62 | 0.11 | 92.4 | 9,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 13.3 | 0.12 | 32.41 | 25.01 | 32.91 | 0.06 | 20.64 | 0.12 | 88.6 | 8,700 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 13.7 | 0.15 | 33.91 | 26.00 | 34.18 | 0.07 | 22.02 | 0.12 | 93.1 | 9,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 11.8 | 0.11 | 27.63 | 24.70 | 28.09 | 0.05 | 17.38 | 0.11 | 80.2 | 8,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RFA | 1 | 11.5 | 0.11 | 25.37 | 29.41 | 29.62 | 0.45 | 15.44 | 0.18 | 88.1 | 7,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 11.5 | 0.10 | 24.14 | 28.54 | 28.48 | 0.07 | 14.85 | 0.15 | 84.0 | 6,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 10.0 | 0.10 | 22.91 | 27.54 | 27.49 | 0.10 | 13.92 | 0.14 | 81.3 | 8,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 10.8 | 0.08 | 23.86 | 27.31 | 27.82 | 0.18 | 14.75 | 0.14 | 80.0 | 6,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 10.5 | 0.10 | 23.71 | 28.64 | 26.95 | 0.08 | 14.50 | 0.15 | 82.8 | 6,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 10.4 | 0.10 | 23.92 | 29.20 | 27.67 | 0.10 | 14.49 | 0.16 | 82.4 | 8,700 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 9.7 | 0.09 | 21.71 | 25.75 | 23.86 | 0.08 | 13.35 | 0.13 | 74.7 | 6,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 12.1 | 0.12 | 26.13 | 28.46 | 30.13 | 0.08 | 16.24 | 0.17 | 87.4 | 7,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 9.9 | 0.12 | 22.09 | 25.42 | 25.67 | 0.10 | 13.51 | 0.14 | 76.1 | 6,700 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 9.6 | 0.08 | 20.23 | 23.86 | 22.90 | 0.23 | 12.34 | 0.13 | 69.6 | 7,600 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 6.4 | 0.05 | 14.26 | 15.77 | 16.53 | <0.05 | 8.79 | 0.10 | 48.4 | 7,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 9.7 | 0.07 | 21.71 | 25.22 | 25.40 | 0.12 | 13.40 | 0.15 | 75.5 | 6,900 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RFB | 1 | 13.1 | 0.15 | 30.46 | 25.44 | 32.65 | 0.08 | 18.38 | 0.12 | 89.8 | 9,700 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 12.7 | 0.14 | 28.01 | 26.70 | 30.69 | 0.08 | 16.98 | 0.13 | 87.4 | 9,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 3 | 15.0 | 0.11 | 31.46 | 28.54 | 34.19 | 0.08 | 18.64 | 0.12 | 95.2 | 8,100 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 4 | 13.9 | 0.16 | 31.50 | 28.86 | 34.26 | 0.15 | 19.15 | 0.15 | 98.5 | 9,700 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 5 | 13.7 | 0.14 | 30.35 | 27.76 | 34.12 | 0.05 | 18.23 | 0.12 | 93.7 | 8,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 6 | 15.6 | 0.12 | 31.88 | 28.77 | 35.12 | 0.07 | 18.98 | 0.13 | 96.7 | 8,700 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 7 | 14.6 | 0.14 | 32.39 | 29.54 | 36.00 | 0.07 | 19.85 | 0.14 | 98.8 | 8,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 8 | 15.5 | 0.13 | 34.87 | 30.86 | 37.76 | 0.07 | 21.13 | 0.15 | 104.6 | 9,300 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 9 | 15.8 | 0.12 | 32.26 | 29.56 | 35.64 | 0.07 | 19.25 | 0.16 | 99.0 | 8,500 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 10 | 17.8 | 0.14 | 32.99 | 30.50 | 37.20 | 0.12 | 19.67 | 0.13 | 99.9 | 9,400 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 11 | 17.4 | 0.10 | 33.88 | 30.48 | 36.13 | 0.08 | 20.31 | 0.13 | 101.8 | 8,200 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 12 | 15.6 | 0.13 | 31.63 | 28.21 | 33.38 | 0.07 | 18.41 | 0.13 | 96.3 | 9,700 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| ESC-RCA | 1 | 4.9 | 0.12 | 12.70 | 18.79 | 18.25 | 0.10 | 7.23 | 0.15 | 44.2 | 10,000 | <5 | <2 | <0.5 | <3 | <50 | <100 |
| | 2 | 6.4 | 0.12 | 17.02 | 20.18 | 19.29 | 0.08 | 11.41 | | | | | | | | | |