**APPENDIX – NUMERIC FLOW TARGETS FOR THE HURON RIVER BASED ON DATA FROM MAINSTEM USGS GAGES**

**Hamburg Rd Gage (data from 2008-2015)**

**(all numbers refer to flow below dam)**

*Baseflow*

Baseflow is 154 cfs (50% August average daily exceedance flow)

Year round, keep flow above 124 cfs (20% less than baseflow).

*Spring Storms*

Spring flows (April 15-June 30): low flows are 155 cfs (90% average daily exceedance flow) and high flows are 651 (10% average daily exceedance flow). That leads to this simple chart that shows probable flows the operators are likely to experience.

Starting Flow Don’t Exceed in 12 hour period

Target (Double Starting Flow) Maximum (Triple Starting Flow)

150 cfs 300 cfs 450 cfs

200 cfs 400 cfs 600 cfs

300 cfs 600 cfs 900 cfs

400 cfs 800 cfs 1200 cfs

500 cfs 1000 cfs 1500 cfs

600 cfs 1200 cfs 1800 cfs

700 cfs 1400 cfs 2100 cfs

*Filling Impoundments*

When conducting filling of impoundments, water should be kept above 200 cfs (~70% exceedance flow).

**New Hudson Gage (data from 2005-2014)**

**(all numbers refer to flow below dam)**

*Baseflow*

Baseflow is 58 cfs (50% August average daily exceedance flow)

Year round, keep flow above 46 cfs (20% less than baseflow).

*Spring Storms*

Spring flows (April 15-June 30): low flows are 60 cfs (90% average daily exceedance flow) and high flows are 284 (10% average daily exceedance flow). That leads to this simple chart that shows probable flows the operators are likely to experience.

Starting Flow Don’t Exceed in 12 hour period

Target (Double Starting Flow) Maximum (Triple Starting Flow)

50 cfs 100 cfs 150 cfs

75 cfs 150 cfs 225 cfs

100 cfs 200 cfs 300 cfs

150 cfs 300 cfs 450 cfs

200 cfs 400 cfs 600 cfs

300 cfs 600 cfs 900 cfs

*Filling Impoundments*

When conducting filling of impoundments, downstream water should be kept above 100 cfs (~70% exceedance flow).

**Wall Steet Gage (2008-2015)**

**(all numbers refer to flow below dam)**

*Baseflow*

Baseflow is 272 cfs (50% August average daily exceedance flow)

Year round, keep flow above 218 cfs (20% less than baseflow).

*Spring Storms*

Spring flows (April 15-June 30): low flows are 307 cfs (90% average daily exceedance flow) and high flows are 1665 (10% average daily exceedance flow). That leads to this simple chart that shows probable flows the operators are likely to experience.

Starting Flow Don’t Exceed in 12 hour period

Target (Double Starting Flow) Maximum (Triple Starting Flow)

300 cfs 600 cfs 900 cfs

500 cfs 1000 cfs 1500 cfs

700 cfs 1400 cfs 2100 cfs

900 cfs 1800 cfs 2700 cfs

1100 cfs 2200 cfs 3300 cfs

1300 cfs 2600 cfs 3900 cfs

1500 cfs 3000 cfs 4500 cfs

1700 cfs 3400 cfs 5100 cfs

*Filling Impoundments*

When conducting filling of impoundments, water should be kept above 500 cfs (~70% exceedance flow).