Harpeth River
TMDL Development Process

START

EPA DEVELOPS HYDROLOGIC MODEL

STAKEHOLDERS REVIEW HYDROLOGIC MODEL

DO STAKEHOLDERS AGREE?

YES

NO

STAKEHOLDER COLLECT WATER QUALITY DATA

ID POTENTIAL ENDPOINTS W/ STAKEHOLDERS

ARE THERE DATA GAPS? (EPA)

NO

YES

ID DATA GAPS

INPUT CALIBRATED HYDROLOGIC MODEL

CALIBRATE WATER QUALITY MODEL

SELECT ENDPOINT WITH STAKEHOLDERS DESIGNED TO MEET WATER QUALITY STANDARDS

SUCCESSFUL VALIDATION

NO

YES

DO STAKEHOLDERS AGREE?

YES

NO

RESOLUTION

DISCUSSION

DOES VALIDATION SHOW ENDPOINT TO BE APPROPRIATE?

NO

YES

CALCULATE NEEDED REDUCTION (Run model at critical & existing conditions to determine assimila-tive capacity)

QUANTIFY SOURCE CONTRIBUTIONS

RUN ALLOCATION SCENARIOS CONSIDERING WLA, LA & MOS

SELECT SCENARIO

DO STAKEHOLDERS AGREE?

YES

NO

RESOLUTION

DISCUSSION

TDEC/EPA FINISH TMDL

COMPLETE THROUGH TRADITIONAL TDEC TMDL PROCESS

DRAFT TMDL IS WRITTEN

DOES TMDL TAKE INTO ACCOUNT:
-seasonality
-all flow regimes
-margin of safety (MOS)
-waste load allocation (WLA)
-load allocation (LA)
-background loading
-future growth
-critical conditions
-reasonable assurance

NO

YES

STAKEHOLDER REVIEW

DO STAKEHOLDERS AGREE?

YES

NO

RESOLUTION

DISCUSSION

SUBMIT DRAFT TO EPA

PUBLIC NOTICE

RESPOND TO COMMENTS

SUBMIT PROPOSED FINAL TO EPA

EPA APPROVES TMDL

IMPLEMENTATION

PLANNING
FUNDING
EFFECTIVENESS MONITORING

POINT SOURCES VIA PERMIT (TDEC)

PERMIT COMPLIANCE MONITORING

NON-POINT SOURCES VIA STAKEHOLDERS

EFFECTIVENESS MONITORING

RWMc 09/13/2018