

10 Appendix A – Notes on Individual Reservoirs

ADKI – EL2_5272_5270 – Adkins Pond

(Eastern Shore)

Adkins Pond is an impoundment located in southeastern Wicomico County, Maryland. The water overflows the dam into Adkins Race, a tributary to the Pocomoke River. Adkins Pond is used as a recreational facility for boating and fishing with an adjacent picnic area. The Maryland Department of Environment (MDE) submitted phosphorus and sediment TMDLs for Adkins Pond in 2001, which were approved by EPA in 2002.

A simple FTABLE was generated for Adkins Pond, based on stage, volume, and discharge data provided by MDE. This impoundment was added to the Phase 6 Model in the *Beta 3* and subsequent calibrations.

BRAS – JA5_7480_0001 – Brasfield Dam

(James River Basin; Appomattox River)

Brasfield Dam impounds Lake Chesdin on the Appomattox River in Chesterfield and Dinwiddie counties, Virginia. The gravity dam was completed in 1968 and is owned by STS Hydropower. The lake is managed primarily for water supply purposes.

(1) Project notes indicate that the project was waiting on data from STS Hydropower at the time of the initial delivery (11/03/03) of reservoir FTABLEs to the Chesapeake Bay Program (CBP). The notes also indicate that no close proxies were available, but that the FTABLE from Raystown (RAYS, SJ4_2360_2340) would be used.

(2) Project notes indicate that a simple (single) FTABLE was received on 12/16/03. The source of the data used to generate the table is unknown, but this does not appear to be a proxy table copied from another reservoir.

BRIG – XU2_4070_4330 – Brighton Dam

(Patuxent River Basin; above Bowie, Maryland)

Brighton Dam impounds Tridelphia Reservoir on the Patuxent River in Montgomery County, Maryland. It is a buttress dam completed in 1943 and owned by Alternative Energy Associates, Ltd. The reservoir is managed for hydroelectric power generation and water supply.

(1) Project notes indicate that no contacts and no data were available for this reservoir as of 11/03/03 and suggest a size-based proxy could be used for the FTABLE.

(2) Later, updated note indicates that the FTABLE from Western Branch (WBRA, JB2_7800_0001) should be used as a proxy for Brighton.

**Chesapeake Bay Program Phase 6 Watershed Model – Appendix 10A – Notes on Large Reservoirs
Final Model Documentation for the Midpoint Assessment – 10/19/2018**

(3) An e-mail from 7/21/04 indicates that stage/discharge data had been acquired for Brighton from the dam operator, but files containing the data have not been found.

(4) The FTABLE in the CBP files used in the model (1/18/07) has clearly been modified from the East Sydney (ESYD, SU2_0292_0320) FTABLE, with one season added. The Brighton FTABLE now has three seasons with transition periods.

BUSH – SW3_1130_1390 – Alvin R. Bush Dam

(Susquehanna River Basin; West Branch Susquehanna River)

Alvin R. Bush Dam impounds Kettle Creek Lake on Kettle Creek in Clinton County, Pennsylvania. It is an earth dam completed in 1962 and operated by the Baltimore District of the U.S. Army Corps of Engineers. The reservoir is managed for flood control and recreation.

(1) FTABLE delivered from Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship was developed from data acquired from dam/reservoir managers.

CENT XU0_4092_4090– Centennial Lake

(Patuxent River)

Centennial Lake is an impoundment located near Columbia in Howard County, Maryland. The impoundment lies on a tributary of the Little Patuxent River, which is in turn a tributary of the Patuxent River. MDE submitted phosphorus and sediment TMDLs for Centennial Lake in 2001, which were approved by EPA in 2002.

A simple FTABLE was generated for Centennial Lake, based on stage, based on stage, volume, and discharge data provided by MDE. This impoundment was added to the Phase 6 Model in the *Beta 3* and subsequent calibrations.

CLOP PM1_4252_4250– Clopper Lake

(Potomac River)

Clopper Lake is an impoundment located within Seneca Creek State Park, near Gaithersburg in Montgomery County, Maryland. The impoundment lies on Long Draught Branch, a tributary of the Seneca Creek. Seneca Creek lies in the Potomac River Drainage Basin. Clopper Lake was constructed for flood control and recreation. MDE submitted phosphorus and sediment TMDLs for Clopper Lake in 2001, which were approved by EPA in 2002.

A simple FTABLE was generated for Clopper Lake, based on stage, based on stage, volume, and discharge data provided by MDE. This impoundment was added to the Phase 6 Model in the *Beta 3* and subsequent calibrations.

**Chesapeake Bay Program Phase 6 Watershed Model – Appendix 10A – Notes on Large Reservoirs
Final Model Documentation for the Midpoint Assessment – 10/19/2018**

CONO – SL9_2720_0001 – Conowingo Lake

(Susquehanna River Basin; Lower Susquehanna River below West Branch confluence, not including the Juniata River)

Conowingo Lake is impounded by a dam on the Susquehanna River in Harford County, Maryland. The concrete gravity dam was completed in 1928 and is owned and operated by Susquehanna Power Company and Philadelphia Electric Company. The reservoir is managed for hydroelectric power generation, water supply, and recreation.

(1) FTABLE was prepared and calibrated by CBP staff using a simple stage-discharge relationship.

COWA – SU2_0741_0690 – Cowanesque Lake

(Susquehanna River Basin; Upper Susquehanna River, above the confluence with West Branch)

Cowanesque Lake is impounded by a dam on the Cowanesque River in Tioga County, Pennsylvania. The earth and rockfill dam was completed in 1980 and is operated by the Baltimore District of the U.S. Army Corps of Engineers. The reservoir is managed for flood control and recreation.

(1) FTABLE delivered from Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship developed from data acquired from dam/reservoir managers was used.

CURW – SW4_1860_1720 – Curwensville Lake

(Susquehanna River; West Branch Susquehanna River)

Curwensville Lake is impounded by a dam on the West Branch of the Susquehanna River in Clearfield County, Pennsylvania. The earth dam was completed in 1965 and is operated by the Baltimore District of the U.S. Army Corps of Engineers. The reservoir is managed for flood control and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship developed from data acquired from dam/reservoir managers was used.

DEEP – GY0_4240_3951 – Deep Creek Reservoir

(Youghiogheny River Basin)

The Deep Creek Reservoir is impounded by a dam on Deep Creek in Garrett County, Maryland. The earth dam was completed in 1925 and is owned and operated by the Pennsylvania Electric Company. The reservoir is managed for hydroelectric power generation and recreation.

**Chesapeake Bay Program Phase 6 Watershed Model – Appendix 10A – Notes on Large Reservoirs
Final Model Documentation for the Midpoint Assessment – 10/19/2018**

(1) Project notes indicate that contacts and FTABLE data were not available for this reservoir in western Maryland outside the Bay watershed. Pennsylvania Electric is mentioned as a possible contact.

(2) In a later, undated note, the simple, standard FTABLE from Swift Creek (SWIF, JA0_7291_7290) was suggested as a size-based proxy.

(3) The FTABLE in use in the model (1/18/07) is an exact copy of the Swift Creek (SWIF, JA0_7291_7290) FTABLE which is a simple stage-discharge relationship.

ELLI – PLO_5141_5140 – T. Nelson Elliott Reservoir

(Potomac River Basin; Lower Potomac River below Chain Bridge)

Broad Run Reservoir is impounded by the T. Nelson Elliott Dam on Broad Run (Occoquan River) in Prince William County, Virginia. The gravity dam was completed in 1968 and is operated by the city of Manassas. The reservoir is managed for hydroelectric power generation and water supply.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship developed from data acquired from dam/reservoir managers was used.

ESYD – SU2_0291_0320 – East Sidney Dam

(Susquehanna River Basin; Upper Susquehanna River above confluence with West Branch)

The East Sidney Dam impounds a reservoir on Ouleout Creek in Otsego County, New York. The earth gravity dam was completed in 1950 and is operated by the Baltimore District of the U.S. Army Corps of Engineers. The reservoir is managed for flood control and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03. Two season FTABLEs with transition periods were developed from data acquired from dam/reservoir managers.

GATH – JU3_6900_6950 – Gathright Dam

(James River Basin; Upper James River, above Maury confluence)

The Gathright Dam impounds Lake Moomaw on the Jackson River in Alleghany County, Virginia. The earth and rockfill dam was completed in 1978 and is operated by the Norfolk District of the U.S. Army Corps of Engineers. The reservoir is managed for flood control and recreation.

(1) FTABLE delivered from Virginia Water Science Center to CBP on 11/03/03. A complex, seven-season FTABLE with transition periods between seasons was developed from data acquired from dam/reservoir managers.

HOLT – SL9_2700_2720 – Holtwood Dam

(Susquehanna River Basin; Lower Susquehanna River below West Branch confluence, not including the Juniata River)

The Holtwood or McCalls Ferry Dam impounds a reservoir on the lower Susquehanna River in Lancaster County, Pennsylvania. The concrete gravity dam was completed in 1910 and is operated by the Pennsylvania Power and Light Corporation. The reservoir is managed for hydroelectric power generation and recreation.

(1) FTABLE was prepared and calibrated by CBP staff as a simple stage-discharge relationship.

JOHN-EL0_5400_0001-Johnson

(Eastern Shore)

Johnson Pond is a fairly large impoundment located at the outlet of the Upper Wicomico River in Wicomico County, Maryland. The impoundment, owned by the City of Salisbury, originally served as a mill pond but was significantly expanded following construction of a concrete dam in 1933 to its present dimension. The dam at Johnson Pond is the designated dividing line between tidal and non-tidal waters in the Wicomico River. MDE submitted phosphorus and sediment TMDLs for Johnson Pond in 2001, which were approved by EPA that same year.

A simple FTABLE was generated for Johnson Pond, based on stage, based on stage, volume, and discharge data provided by MDE. This impoundment was added to the Phase 6 Model in the *Beta 3* and subsequent calibrations.

LIBE – WM0_3881_3880 – Liberty Reservoir

(Western Shore of Chesapeake Bay; Middle Western Shore, including the Patapsco and Back rivers)

Liberty Reservoir is impounded by a dam on the North Branch of the Patapsco River in Baltimore County, Maryland. The gravity dam was completed in 1953 and is owned and operated by the Baltimore City Department of Public Works. The reservoir is managed for water supply and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship was developed from data acquired from dam/reservoir managers.

LING- PM1_3711_3710-Linganore Lake

(Potomac River)

**Chesapeake Bay Program Phase 6 Watershed Model – Appendix 10A – Notes on Large Reservoirs
Final Model Documentation for the Midpoint Assessment – 10/19/2018**

Lake Linganore is an impoundment located within Eagle Head development, near the city of Frederick in Frederick County, Maryland. The impoundment lies on Linganore Creek, a tributary of the Monocacy River. Linganore Creek lies in the Lower Monocacy River Drainage Basin. Lake Linganore was constructed for water supply and recreation. MDE submitted phosphorus and sediment TMDLs for Lake Linganore in 2002, which were approved by EPA in 2003.

A simple FTABLE was generated for Lake Linganore, based on stage, based on stage, volume, and discharge data provided by MDE. This impoundment was added to the Phase 6 Model in the *Beta 3* and subsequent calibrations.

LITT- PM1_4251_4250-Little Seneca Lake

Little Seneca Lake is an impoundment on Little Seneca Creek, a tributary to Seneca Creek, which in turn is a tributary of the Potomac River. It is located in Montgomery County, Maryland. It is used for water supply and recreation.

A simple FTABLE was generated for Little Seneca Lake, based on stage, volume, and discharge data provided by ICPRB.

LOCH – WU3_3480_3481 – Loch Raven Reservoir

(Western Shore of Chesapeake Bay; Upper Western Shore)

Lock Raven Reservoir is impounded by a dam on the Gunpowder River in Baltimore County, Maryland. The gravity dam was completed in 1923 and is owned and operated by the Baltimore City Department of Public Works. The reservoir is managed for water supply and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship was developed from data acquired from dam/reservoir managers.

MARB – SLO_2831_2830 – Lake Marburg

(Susquehanna River Basin; Lower Susquehanna River below West Branch confluence, not including the Juniata River)

Lake Marburg is impounded by a dam on the West Branch of Codorus Creek in York County, Pennsylvania. The earth dam was completed in 1967 and is owned and operated by the P.H. Glatfelter Company. The reservoir is managed for water supply and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship was developed from data acquired from dam/reservoir managers.

**Chesapeake Bay Program Phase 6 Watershed Model – Appendix 10A – Notes on Large Reservoirs
Final Model Documentation for the Midpoint Assessment – 10/19/2018**

MEAD – JB1_8090_0001 – Lake Mead

(James River Basin; James River below Richmond, not including the Appomattox River)

Lake Mead is impounded by a dam on the Nansemond River in Suffolk City, Virginia. The gravity dam was completed in 1959 and is owned and operated by the city of Portsmouth Department of Utilities. The reservoir is managed for water supply.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship was developed from data acquired from dam/reservoir managers.

NANN – YP2_6390_6330 – North Anna Reservoir

(York River Basin; Pamunkey River)

Lake Anna is impounded by a dam on the North Anna River in Spotsylvania County, Virginia. The earth gravity dam was completed in 1972 and is owned and operated by the Virginia Dominion Power Company. The reservoir is managed hydroelectric power generation, flood control, and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship was developed from data acquired from dam/reservoir managers.

.

OTSE – SU2_0030_0140 – Otsego Lake

(Susquehanna River Basin; Upper Susquehanna River, above confluence with West Branch)

Otsego Lake is impounded by a dam on the Susquehanna River in Otsego County, New York. The buttress dam was completed in 1900 and is owned and operated by the village of Cooperstown, New York. The reservoir is managed for water supply and recreation.

(1) Project notes on 11/03/03 identify the reservoir owner as the city of Cooperstown, New York, but state that no contacts had been made.

(2) A later project note suggests that the FTABLE from East Sydney (ESYD, SU2_0292_0320) should be used as a proxy for the Otsego FTABLE.

(3) E-mails from January 2004 indicate contact with a researcher at the State University of New York at Oneonta who had data on the hydrology of Otsego Lake. Conversations with Alan Simpson in February 2007 revealed that Alan had worked with data from Otsego to generate an FTABLE.

(4) The FTABLE for Ostego in CBP model files (01/17/07) is an exact copy of the East Sydney FTABLE. It has two seasonal stage/discharge relationships with a transition period between them.

**Chesapeake Bay Program Phase 6 Watershed Model – Appendix 10A – Notes on Large Reservoirs
Final Model Documentation for the Midpoint Assessment – 10/19/2018**

PRET – WU0_3021_3020 – Prettyboy Reservoir

(Western Shore of Chesapeake Bay; Upper Western Shore)

Prettyboy Reservoir is impounded by a dam on the Gunpowder River in Baltimore County, Maryland. The gravity dam was completed in 1936 and is owned and operated by the Baltimore City Department of Public Works. The reservoir is managed for water supply and recreation.

(1) FTABLE delivered from Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship was developed from data acquired from dam/reservoir managers.

RAND – PU3_4450_4440 – Jennings Randolph Lake

(Potomac River Basin; Upper Potomac River, above Shenandoah confluence)

Jennings Randolph Lake, also known as Bloomington Lake, is impounded by a dam on the North Branch of the Potomac River in Garrett County, Maryland, and Mineral County, West Virginia. The earth and rockfill dam was completed in 1981 and is operated by the Baltimore District of the U.S. Army Corps of Engineers. The reservoir is managed for flood control and stormwater management, water supply, and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03 was developed from data acquired from dam/reservoir managers. It is a three-season FTABLE with transitional periods between two of the three seasons.

RAYS – SJ4_2360_2340 – Raystown Lake

(Susquehanna River Basin; Juniata River)

Raystown Lake is impounded by a dam on the Raystown Branch of the Juniata River in Huntingdon County, Pennsylvania. The earth and rockfill dam was completed in 1973 and is operated by the Baltimore District of the U.S. Army Corps of Engineers. The reservoir is managed for flood control, stormwater management, and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03 was developed from data acquired from dam/reservoir managers. It is a two-season FTABLE with transitional periods between the seasons.

ROCK – XU2_4330_4480 – Rocky Gorge Dam

(Patuxent River Basin; Patuxent River above Bowie, Maryland)

Rocky Gorge Dam, also known as Duckett Dam, impounds a reservoir on the Patuxent River in Prince George's County, Maryland. The concrete buttress dam was completed in 1953 and is owned and operated by the Washington Suburban Sanitary Commission. The reservoir is managed for water supply and recreation.

Chesapeake Bay Program Phase 6 Watershed Model – Appendix 10A – Notes on Large Reservoirs Final Model Documentation for the Midpoint Assessment – 10/19/2018

(1) Notes indicate that the project had received data to create a single FTABLE at the time of the initial delivery (11/03/03) of reservoir FTABLEs to the CBP.

(2) A later, undated note indicates that the FTABLE from East Sydney (ESYD, SU2_0291_0320) would be used as a size-based proxy.

(3) The FTABLE in the CBP files used in the model (1/18/07) does not appear to be a proxy from any other reservoir, and was likely developed from reservoir data, but the source of that data is unknown. It is a simple stage-discharge relationship.

SAFE – SL9_2520_2700 – Safe Harbor Dam

(Susquehanna River Basin; Lower Susquehanna River below West Branch confluence, not including the Juniata River)

Safe Harbor Dam impounds a reservoir on the Susquehanna River in Lancaster County, Pennsylvania. The gravity dam was completed in 1930 and is owned and operated by the Safe Harbor Water Power Commission. The reservoir is managed for hydroelectric power generation, recreation, and water supply.

(1) FTABLE was prepared and calibrated by CBP staff. with a simple stage-discharge relationship.

SAVA – PU1_4190_4300 – Savage River Dam

(Potomac River Basin; Upper Potomac River, above the Shenandoah confluence)

Savage River Dam impounds a reservoir on the Savage River in Garrett County, Maryland. The earth and rockfill dam was completed in 1952 and is owned and operated by the Upper Potomac River Commission. The reservoir is managed water supply, flood control, and stormwater management.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03. was developed from data acquired from dam/reservoir managers. It is a two-season FTABLE with transitional periods between the seasons.

SAYE – SW3_1690_1660 – Foster Joseph Sayers Dam

(Susquehanna River Basin; West Branch Susquehanna River)

Foster Joseph Sayers Dam impounds a reservoir on Bald Eagle Creek in Centre County, Pennsylvania. The earth dam was completed in 1969 and is operated by the Baltimore District of the U.S. Army Corps of Engineers. The reservoir is managed for flood control, stormwater management, and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03 was developed from data acquired from dam/reservoir managers. Two separate FTABLE files appear to be in use by the CBP.

***Chesapeake Bay Program Phase 6 Watershed Model – Appendix 10A – Notes on Large Reservoirs
Final Model Documentation for the Midpoint Assessment – 10/19/2018***

Before July 1994, this is modeled as a three-season FTABLE (SW3_1690_2222) with transitional periods between the seasons. After July 1994, the reservoir is modeled with a two-season FTABLE (SW3_1690_1660), also with transitional periods.

SMIT – OR4_7940_8270 – Smith Mountain Lake
(Roanoke River Basin; not including the Dan River)

Smith Mountain Lake is impounded by a dam on the Roanoke River in Bedford County, Virginia. The arch dam was completed in 1963 and is owned and operated by Appalachian Power Company. The reservoir is managed for hydroelectric power generation and recreation.

(1) Data from this reservoir was combined with that from the nearby Leesville reservoir to generate a single FTABLE representing the joint operations of both. Thus, there is no FTABLE with this reach code. For information on the development of the FTABLE, see notes on Leesville (LEES, OR4_8271_8120).

SRIV – JL2_6441_6520 – South Rivanna Reservoir
(James River Basin; Lower James River, below the Maury River confluence, above Richmond, Virginia)

The South Rivanna Reservoir is impounded by a dam on the South Fork of the Rivanna River in Albemarle County, Virginia. The gravity dam was completed in 1966 and is owned and operated by the Rivanna Water and Sewer Authority. The reservoir is managed for water supply and hydroelectric power generation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03 is based on a simple stage-discharge relationship developed from data acquired from dam/reservoir managers.

STEV – SW3_1091_1380 – George B. Stevenson Reservoir
(Susquehanna River Basin; West Branch Susquehanna River)

George B. Stevenson Reservoir is impounded by a dam on First Fork of Sinnemahoning Creek in Cameron County, Pennsylvania. The earth dam was completed in 1956 and is owned and operated by the Pennsylvania Department of Natural Resources Bureau of State Parks. The reservoir is managed for flood control, stormwater management, and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03 using a simple stage-discharge relationship was developed from data acquired from dam/reservoir managers.

STON – PU1_4840_4760 – Stony River Dam
(Potomac River Basin; Upper Potomac River, above the Shenandoah confluence)

**Chesapeake Bay Program Phase 6 Watershed Model – Appendix 10A – Notes on Large Reservoirs
Final Model Documentation for the Midpoint Assessment – 10/19/2018**

The Stony River Dam and Mt. Storm Power Station Dams impound two reservoirs near each other on the Stony River in Grant County, West Virginia. The upstream Stony River Reservoir is owned by Westvaco and was used to control water flow for a paper pulp mill. The downstream Mt. Storm Lake is owned and operated by Dominion Energy as cooling water for a coal-fired power-generation facility. The reservoirs are simulated together for the watershed model.

(1) Notes indicate that no contacts and no data were available for the reservoir at the time of the initial delivery (11/03/03) of reservoir FTABLEs to the CBP. They suggest developing a size-based proxy.

(2) A later, undated note indicates that the FTABLE from Swift Creek (SWIF, JAO_7291_7290) would be used as a size-based proxy.

(3) The FTABLE in the CBP files used in the model (1/18/07) is an exact copy of the Swift Creek (SWIF, JAO_7291_7290) FTABLE and is based on a simple stage-discharge relationship.

SWIF – JAO_7291_7290 – Swift Creek Reservoir
(James River Basin; Appomattox River)

Swift Creek Reservoir is impounded by a dam on Swift Creek in Chesterfield County, Virginia. The earth dam was completed in 1965 and is owned and operated by Chesterfield County. The reservoir is managed for water supply and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03 was developed with a simple stage-discharge relationship was developed from data acquired from dam/reservoir managers.

TIOG – SU3_0831_0790 – Tioga Lake
(Susquehanna River Basin; Upper Susquehanna River, above the confluence with West Branch)

Tioga Lake is impounded by a dam on the Tioga River in Tioga County, Pennsylvania. The earth and rock-fill dam was completed in 1979 and is operated by the Baltimore District of the U.S. Army Corps of Engineers. The reservoir is managed for flood control, stormwater management, and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03 was developed from data acquired from dam/reservoir managers. The FTABLE resulted from the combination of the joined Tioga and Hammond reservoirs, which are operated together.

TONY- ELO_5767_0001-Tony Tank Lake
(Eastern Shore)

Tony Tank Lake is a small, elongated impoundment located near the cities of Fruitland and Salisbury in Wicomico County, Maryland. The impoundment lies on Tony Tank Creek, a tributary of the Wicomico

***Chesapeake Bay Program Phase 6 Watershed Model – Appendix 10A – Notes on Large Reservoirs
Final Model Documentation for the Midpoint Assessment – 10/19/2018***

River. The impoundment, owned by Wicomico County and used for recreational purposes, was created in 1948 by the construction of the Shad Point Dam. The dam, which also functions as a base for MD Route 307, is the designated dividing line between tidal and non-tidal waters in Tony Tank Creek. The MDE submitted phosphorus and sediment TMDLs for Tony Tank Lake in 1999, which were approved by EPA that same year.

A simple FTABLE was generated for Tony Tank Lake, based on stage, based on stage, volume, and discharge data provided by MDE. This impoundment was added to the Phase 6 Model in the Beta 3 and subsequent calibrations.

UOCC – PLO_5250_0001 – Occoquan Reservoir

(Potomac River Basin; Lower Potomac River, below Chain Bridge)

The Occoquan Reservoir is impounded by a dam on the Occoquan River in Fairfax County, Virginia. The dam was completed in 1976 and is owned and operated by the Upper Occoquan Sewage Authority.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship was developed from data acquired from dam/reservoir managers.

URIE - EU0_3726_3724- Urieville Lake

(Eastern Shore)

Urieville Lake is a small, Y-shaped impoundment located near Kennedyville in Kent County, Maryland. The impoundment lies on Morgan Creek, a tributary of the Middle Chester River. The impoundment, owned by the State of Maryland, was constructed prior to the Revolutionary War and originally served as a mill pond. The current concrete dam and earthen dike were constructed during 1955 to restore the impoundment and to function as a base for MD Route 213. The dam at Urieville Lake is the designated dividing line between tidal and non-tidal waters in Morgan Creek of the Chester River MDE submitted phosphorus and sediment TMDLs for Urieville Lake in 1999, which were approved by EPA that same year.

A simple FTABLE was generated for Urieville Lake, based on stage, based on stage, volume, and discharge data provided by MDE. This impoundment was added to the Phase 6 Model in the Beta 3 and subsequent calibrations.

WARR – SJ4_2060_2010 – Warrior Ridge Dam

(Susquehanna River Basin; Juniata River)

Warrior Ridge Dam impounds a reservoir on the Juniata River in Huntingdon County, Pennsylvania. The buttress dam was completed in 1906 and is owned and operated by the American Hydro Power Partners. The reservoir is managed for hydroelectric power generation.

***Chesapeake Bay Program Phase 6 Watershed Model – Appendix 10A – Notes on Large Reservoirs
Final Model Documentation for the Midpoint Assessment – 10/19/2018***

(1) Notes indicate that the project was waiting on data from American Hydropower at the time of the initial delivery (11/03/03) of reservoir FTABLEs to the CBP.

(2) A later, undated note indicates that no close proxies were available but that the FTABLE from Raystown (RAYS, SJ4_2360_2340) would be used temporarily.

(3) The FTABLE in the CBP files used in the model (1/18/07) has been slightly modified from the Raystown (RAYS, SJ4_2360_2340) FTABLE. Like the Raystown FTABLE, it has two seasons with no transition period.

WBRA – JB2_7800_0001 – Western Branch Reservoir

(James River Basin; James River below Richmond, not including the Appomattox River)

Western Branch Reservoir is impounded by a dam the Western Branch of the Nansemond River in Suffolk City, Virginia. The earth dam was completed in 1963 and is owned and operated by the city of Norfolk Department of Utilities. The reservoir is managed for water supply and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03 was developed with a simple stage-discharge relationship with data acquired from dam/reservoir managers.

WHIT – SU3_0240_0350 – Whitney Point Dam

(Susquehanna River Basin; Upper Susquehanna River, above the confluence with West Branch)

Whitney Point Dam impounds a reservoir on the Otselic River in Broome County, New York. The earth dam was completed in 1942 and is operated by the Baltimore District of the U.S. Army Corps of Engineers. The reservoir is managed for flood control, stormwater management, and recreation.

(1) FTABLE delivered from USGS Virginia Water Science Center to CBP on 11/03/03. A simple stage-discharge relationship was developed from data acquired from dam/reservoir managers.