**Tennessee-Big Sandy River Basin**

The segment of the Tennessee and Big Sandy River Basin which lies in Virginia is made up of the Holston, Clinch-Powell, and Big Sandy River Subbasins. These subbasins are located in the extreme southwest portion of Virginia and cover 4,140 square miles or approximately 10.5 percent of the Commonwealth's total land area.

The Virginia portion of the Tennessee-Big Sandy River Basin is defined by both hydrologic and political boundaries. The West Virginia State line lies to the northeast, Kentucky to the west, and Tennessee to the south. The New River Basin makes up the eastern boundary.

While the Tennessee and Big Sandy Rivers are fed by numerous southwest Virginia streams, neither river forms within the Commonwealth itself. The Big Sandy subbasin contains the Levisa and Tug Forks which flow northward into Kentucky forming the Big Sandy River. The Tennessee River is formed in Tennessee by the southwestward flowing Holston, Clinch and Powell tributaries. Both of the major river subbasins eventually empty into the Gulf of Mexico via the Ohio and Mississippi Rivers.

The Tennessee-Big Sandy River Basin spans three physiographic provinces: the Cumberland Plateau, Valley and Ridge, and the Blue Ridge. The Big Sandy portion of the basin lies within the Cumberland Plateau. This province is characterized as rugged, with mountainous terrain and steep valleys. The Tennessee portion, lying in the Valley and Ridge Province, is characterized by parallel valleys and ridges running in a northeast to southwest direction. A small portion, located in the Blue Ridge Province, is more plateau-like, with no single, prominent ridge which characterizes the Ridge and Valley province to the north.

Within Virginia, approximately 48 percent of the Tennessee River Basin is forested, while cropland and pasture make up another 39.7 percent. The Big Sandy portion of the basin is approximately 86 percent forest, with only about 5 percent in cropland and pasture. Urban areas make up only a small percentage of the total land area.

The 1994 population for the Tennessee-Big Sandy River Basin was approximately 310,309, or 5 percent of Virginia's total population. All or part of the following jurisdictions lie within the basin: counties - Lee, Scott, Russell, Washington, Smyth, Tazewell, Buchanan, Dickinson, Bland, Wythe, Grayson and Wise; cities - Norton and Bristol.

The climate of the Tennessee portion of the basin is considered temperate with an average annual temperature of 53°F. Temperatures of 105°F and -27°F have been recorded. Average annual precipitation in the basin is approximately 45.5 inches with an average annual snowfall of 15 to 20 inches. The climate of the Big Sandy portion of the basin is considered moderate with an average annual temperature of 54°F. Extremes of 100°F and -23°F have been recorded. Average annual precipitation is 44 inches, with an annual snowfall of 20 to 30 inches.

The Tennessee-Big Sandy River Basin is divided into six USGS hydrologic units as follows: HUC 05070201 - Tug Fork; HUC 05070202 - Upper Levisa; HUC 06010101 - North Fork Holston; HUC 06010102 - South abd Middle Fork Holston; HUC 06010205 - Upper Clinch; and HUC 01010206 - Powell River. The six hydrologic units are further divided into 48 waterbodies or watersheds.

Basin assessment information is presented in Tables 2.6-6-1, 2.6-6-2, 2.6-6-3.

**TABLE 2.6-6-1** **TENNESSEE - BIG SANDY RIVER BASIN INDIVIDUAL USE SUPPORT SUMMARY**

**Total Size Monitored:**

Rivers - 3,174.02 miles
Lakes - 3,107.00 acres
Estuaries -0 sq. miles

**Basin Size**

Rivers-5,037miles
Lakes - 9,491acres
Estuaries -0 sq.miles

| Use | Water Body Type | Size Fully Supporting | Size Fully Supporting but Threatened | Size Partially Supporting | Size Not Supporting | Total Size Assessed |
|---|---|---|---|---|---|---|
| **Aquatic Life** | River | 1,342.43 | 1566.62 | 175.26 | 57.18 | 3141.49 |
| | Lake | 3,107.00 | 0 | 0 | 0 | 3107 |
| | Estuary | - | - | - | - | 0 |
| **Fish Consumption** | River | 5,756.39 | 0 | 0 | 80.40 | 5836.79 |
| | Lake | 3,107.00 | 0 | 0 | 0 | 3107 |
| | Estuary | - | - | - | - | 0 |
| **Shellfishing** | River | - | - | - | - | 0 |
| | Lake | - | - | - | - | 0 |
| | Estuary | - | - | - | - | 0 |
| **Swimming** | River | 532.59 | 53.96 | 22.75 | 111.41 | 720.71 |
| | Lake | 3,107.00 | 0 | 0 | 0 | 3107 |
| | Estuary | - | - | - | - | 0 |
| **Drinking Water** | River | 109.07 | 0 | 0 | 0 | 109.07 |
| | Lake | 3,107.00 | 0 | 0 | 0 | 3107 |
| | Estuary | - | - | - | - | 0 |

**TABLE 2.6-6-2 SIZE OF WATERS IMPAIRED BY VARIOUS CAUSE CATEGORIES IN TENNESSEE-BIG SANDY BASIN**

| Cause of Impairment | Type | Major Impact | Moderate/ Minor Impact |
|---|---|---|---|
| **General Standards (Benthic)** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 48.09<br>0<br>0 | 59.40<br>0<br>0 |
| **Unknown Toxicity** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0<br>0<br>0 | 0<br>0<br>0 |
| **Pesticides** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0<br>0<br>0 | 0<br>0<br>0 |
| **Priority Organics** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0<br>0<br>0 | 0<br>0<br>0 |
| **Metals** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 80.40<br>0<br>0 | 38.10<br>0<br>0 |
| **pH** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 5.94<br>0<br>0 | 38.10<br>0<br>0 |
| **Siltation** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0<br>0<br>0 | 37.07<br>0<br>0 |
| **Organic Enrichment/Low D.O.** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 17.67<br>0<br>0 | 16.50<br>0<br>0 |
| **Thermal Modification** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0<br>0<br>0 | 0<br>0<br>0 |
| **Pathogen Indicators** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 111.41<br>0<br>0 | 22.75<br>0<br>0 |
| **Habitat Alterations** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0<br>0<br>0 | 38.10<br>0<br>0 |
| **Suspended Solids** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0<br>0<br>0 | 0<br>0<br>0 |

**TABLE 2.6-6-3 SIZE OF WATERS IMPAIRED BY VARIOUS SOURCE CATEGORIES IN TENNESSEE-BIG SANDY BASIN**

| Source of Impairment | Type | Major Impact | Moderate/ Minor Impact |
|---|---|---|---|
| **Industrial Point Sources** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0<br>0<br>0 | 0<br>0<br>0 |
| **Municipal Point Sources** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 1.52<br>0<br>0 | 0<br>0<br>0 |
| **Grazing Related Sources** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0<br>0<br>0 | 37.23<br>0<br>0 |
| **Agriculture** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 16.50<br>0<br>0 | 5.69<br>0<br>0 |
| **Silviculture** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0<br>0<br>0 | 5.69<br>0<br>0 |
| **Urban Runoff/Storm Sewers** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 51.09<br>0<br>0 | 57.48<br>0<br>0 |
| **Resource Extraction** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 33.57<br>0<br>0 | 97.87<br>0<br>0 |
| **Land Disposal** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 68.66<br>0<br>0 | 22.75<br>0<br>0 |
| **Source Unknown** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0<br>0<br>0 | 29.74<br>0<br>0 |
| **Habitat Modification** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 1.87<br>0<br>0 | 12.30<br>0<br>0 |
| **Point/Source/Nonpoint Source** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 0.74<br>0<br>0 | 5.33<br>0<br>0 |
| **VDH Fish Consumption Advisory** | River (mi)<br>Lakes (acres)<br>Estuary ($mi^2$) | 80.40<br>0<br>0 | 0<br>0<br>0 |

| | MONITORING STATIONS | | CONVENTIONAL WATER COLUMN MONITORING DATA # VIOLATIONS / # SAMPLES | | | | | | | OTHER MONITORING DATA | | | | | | | | | | | | SEDIMENT. | | | | FISH TISSUE. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| REG & WIOND | IDENTIFICATION NUMBER | TYPE | TEMP | | D.O. | | pH | | TPH TOR ASP LP | | CHLORIDE | | CBCAIA | | #b MEXTCLESD | | #c EXCGEND | | #d MEXTCLESD | | #e EXCGEND | | #f MEXTCLESD | | #g EXCGEND | | BIO MON | TYPE BIOL STN | COMMENTS |
| S-O01R | 6CSFH097.42 | A | 0 / 28 | S | 0 / 28 | S | 0 / 28 | S | 0 / 27 | S | 0 / 0 | W | 0 / 20 | S | | | | | 0 | S | 0 | S | | | | | | | | |
| S-O02R | 6CBVD000.02 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | | |
| S-O02R | 6CBVD000.07 | A | 2 / 20 | S | 0 / 20 | S | 0 / 20 | S | 0 / 20 | S | 0 / 0 | W | 0 / 13 | S | | | | | 1 | S | 0 | S | | | | | | | Cr,Ni-Point Source is gone |
| S-O02R | 6CBVD001.22 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | | |
| S-O02R | 6CSFH073.62 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | | |
| S-O02R | 6CSFH075.61 | A | 0 / 58 | S | 0 / 58 | S | 0 / 58 | S | 0 / 56 | S | 0 / 0 | W | 1 / 40 | S | | | | | 0 | S | 0 | S | | | | | | | | |
| S-O02R | 6CWLC009.63 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | | |
| S-O02R | 6CWLC010.20 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | | |
| S-O02R | 6CSFH088.88 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | | |
| S-O03R | 6CMFH045.72 | A | 0 / 29 | S | 0 / 29 | S | 0 / 29 | S | 0 / 28 | S | 0 / 0 | W | 1 / 19 | S | | | | | 0 | S | 0 | S | | | | | | | | |
| S-O03R | 6CMFH053.36 | A | 0 / 29 | S | 0 / 29 | S | 0 / 29 | S | 0 / 28 | S | 0 / 0 | W | 3 / 20 | T | | | | | 1 | S | 0 | S | | | | | | | Sb |
| S-O03R | 6CMFH026.00 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | | |
| S-O04R | 6CMFH033.40 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | | |
| S-O04R | 6CMFH033.40 | A | 0 / 58 | S | 0 / 58 | S | 0 / 58 | S | 0 / 57 | S | 0 / 0 | W | 5 / 40 | S | | | | | 0 | S | 0 | S | | | | | | | | |
| S-O05R | 6CMFH004.00 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | | |
| S-O05R | 6CMFH013.21 | A | 0 / 59 | S | 0 / 59 | S | 0 / 59 | S | 2 / 57 | S | 0 / 0 | W | 2 / 40 | S | | | | | 1 | S | 0 | S | | | | | | | Sb |
| S-O05R | 6CMFH026.00 | A | 0 / 30 | S | 0 / 30 | S | 0 / 30 | S | 0 / 27 | S | 0 / 0 | W | 1 / 20 | S | | | | | 1 | S | 0 | S | | | | | | | Sb |
| S-O06R | 6CWLF001.46 | A,B | 0 / 20 | S | 0 / 20 | S | 0 / 20 | S | 9 / 20 | T | 0 / 0 | W | 2 / 10 | J | | | | | 2,1 | T | 0 | S | | | | | MI | net | Hg,Sb/combined with 6CWFL001.46 |
| S-O06L | 6CSFH070.80 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| **S-O07R** | **6CBEV015.27** | A | 0 / 20 | S | 0 / 20 | S | 0 / 20 | S | 0 / 18 | S | 0 / 0 | W | **10 / 12** | **N** | | | | | 11,1 | T | 0 | S | | | | | | | Pb,Ni,Th,Zn/FC data thru 9-97 |
| **S-O07R** | **6CBEV021.07** | A | 0 / 20 | S | 0 / 20 | S | 0 / 20 | S | 1 / 18 | S | 0 / 0 | W | **4 / 13** | **N** | | | | | 2 | S | 0 | S | | | | | | | Pb/data thru 9-97 |
| S-O07R | 6CBEV023.99 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | MI | | |
| S-O07R | 6CBEV024.60 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | MI | | |
| **S-O09R** | **6CLIB003.65** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| **S-O09R** | **6CNFH098.47** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| S-O09R | 6CNFH097.67 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| S-O10R | 6CLAE000.80 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | SI | | |
| **S-O10R** | **6CLAE013.29** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| S-O10R | 6CLUC001.68 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | SI | net | |
| S-O10R | 6CNFH089.25 | A | 0 / 56 | S | 0 / 56 | S | 0 / 56 | S | 1 / 54 | S | 0 / 0 | W | 3 / 39 | S | | | | | 0 | S | 0 | S | | | | | | | |
| S-O11R | 6CBRU000.20 | B | / | S | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| S-O11R | 6CNFH080.43 | A | 0 / 21 | S | 0 / 21 | S | 0 / 21 | S | 1 / 18 | S | 0 / 0 | W | 2 / 12 | J | | | | | 12,2 | T | 0 | S | | | | | | | Hg,Ni,Th |
| **S-O11R** | **6CNFH080.45** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| **S-O11R** | **6CTOO000.35** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| S-O11L | 6CBRU01.86 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| S-O12R | 6CABR001.00 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| **S-O12R** | **6CCOV001.51** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| S-O12R | 6CGRN000.06 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | SI | net | |
| S-O12R | 6CNFH059.65 | A | 0 / 52 | S | 0 / 52 | S | 0 / 52 | S | 0 / 52 | S | 0 / 0 | W | 2 / 36 | S | | | | | 8 | T | 1 | S | | | | | | | Hg,PCP |
| **S-O13R** | **6CNFH007.78** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| **S-O13R** | **6CNFH008.78** | A | 0 / 56 | S | 0 / 56 | S | 0 / 56 | S | 2 / 56 | S | 0 / 0 | W | **10 / 39** | **P** | | | | | 2 | T | 0 | S | | | | | | | Hg |
| S-O14R | 6CBMC002.90 | A | 0 / 29 | S | 0 / 29 | S | 0 / 29 | S | 1 / 28 | S | 0 / 0 | W | 3 / 20 | T | | | | | 0 | S | 0 | S | | | | | | | |
| S-P01R | 6BCAV002.88 | C,SS | / | | | | | | | | | | | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| **S-P01R** | **6BCLN346.80** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| S-P02R | 6BCLN339.53 | A | 0 / 29 | S | 0 / 29 | S | 0 / 29 | S | 0 / 27 | S | 0 / 0 | W | 0 / 18 | S | | | | | 0 | S | 0 | S | | | | | | | |
| S-P03R | 6BCLN315.11 | A | 0 / 19 | S | 0 / 19 | S | 0 / 18 | S | 0 / 18 | S | 0 / 0 | W | 1 / 11 | J | | | | | 0 | S | 1 | S | | | | | | | PCP |
| **S-P03R** | **6BMID000.20** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **VI** | net | |
| **S-P04R** | **6BLWS000.90** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |

| | MONITORING STATIONS | | CONVENTIONAL WATER COLUMN MONITORING DATA # VIOLATIONS / # SAMPLES | | | | | OTHER MONITORING DATA | | | | | | | | | SEDIMENT. | | FISH TISSUE. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| REG & WIN BIOND | IDENTIFICATION NUMBER | TYPE | TEMP | D.O. | pH | TOTAL PHOSPHORUS | CHLORIDE | CHLORIDE | CHLORIDE | #b MEXTCLESD | #c EXCGEAND | #d MEXTCLESD | #e EXCGEAND | #f MEXTCLESD | #g EXCGEAND | BIOMON | TYPE BIOL STN | COMMENTS |
| S-P04R | 6BSWO000.11 | B | / | / | / | / | / | / | / | | | | | | | SI | net | |
| S-P04L | 6BHUN005.24 | C,SS | / | / | / | / | / | / | / | | | 0 S | 0 S | 0 S | 0 S | | | |
| S-P05R | 6BLTR000.75 | A | 0 / 11 J | 0 / 11 J | 0 / 11 J | 0 / 11 J | 0 / 0 W | 0 / 7 J | | | | 0 S | 0 S | | | | | |
| S-P06R | 6BBCD001.84 | B | / | / | / | / | / | / | / | | | | | | | NI | ref | |
| S-P06R | 6BBCD004.18 | A | 0 / 19 S | 0 / 19 S | 0 / 19 S | 0 / 19 S | 0 / 0 W | 0 / 9 J | | | | 0 S | 0 S | | | | | |
| S-P07R | 6BCLN264.96 | B | / | / | / | / | / | / | / | | | | | | | SI | net | |
| S-P07R | 6BCLN269.57 | B | / | / | / | / | / | / | / | | | | | | | NI | ref | |
| S-P07R | 6BCLN271.50 | A | 0 / 57 S | 0 / 57 S | 0 / 56 S | 0 / 56 S | 0 / 0 W | 4 / 36 S | | | | 0 S | 0 S | | | | | |
| **S-P08R** | **6BDUM000.14** | B | / | / | / | / | / | / | / | | | | | | | **MI** | net | |
| S-P08R | 6BDUM003.37 | C,SS | / | / | / | / | / | / | / | | | 0 S | 0 S | 0 S | 0 S | | | |
| S-P09R | 6BCLN237.09 | A | 0 / 57 S | 0 / 57 S | 0 / 56 S | 0 / 57 S | 0 / 0 W | 1 / 36 S | | | | 0 S | 2 S | | | | | PCB,PCP |
| S-P09R | 6BSNK001.03 | B | / | / | / | / | / | / | / | | | | | | | NI | net | |
| S-P09R | 6BCLN229.70 | SS | / | / | / | / | / | / | / | | | 0 S | 0 S | | | | | |
| S-P09R | 6BCLN236.00 | C,SS | / | / | / | / | / | / | / | | | 0 S | 0 S | 0 S | 0 S | | | |
| S-P09R | 6BCLN245.38 | SS | / | / | / | / | / | / | / | | | 0 S | 0 S | | | | | |
| S-P09R | 6BCLN264.96 | C,SS | / | / | / | / | / | / | / | | | 0 S | 0 S | 0 S | 0 S | | | |
| S-P09R | 6BCLN266.08 | SS | / | / | / | / | / | / | / | | | 0 S | 0 S | | | | | |
| S-P09R | 6BCLN298.35 | SS | / | / | / | / | / | / | / | | | 0 S | 0 S | | | | | |
| S-P10R | 6BLCC000.09 | A | 0 / 6 J | 0 / 6 J | 0 / 6 J | 0 / 6 J | 0 / 0 W | 2 / 6 J | | | | 0 S | 0 S | | | | net | |
| **S-P10R** | **6BLCC000.65** | B | / | / | / | / | / | / | / | | | | | | | **VI** | net | |
| S-P11R | 6BGUE006.45 | C,SS | / | / | / | / | / | / | / | | | 0 S | 0 S | 0 S | 0 S | | | |
| **S-P11R** | **6BGUE006.50** | A,B | 0 / 19 S | 0 / 19 S | 0 / 19 S | 1 / 18 S | 0 / 0 W | 0 / 11 J | | | | 0 S | 0 S | | | **MI** | net | supporting data from TVA |
| S-P12R | 6BSNY000.23 | B | / | / | / | / | / | / | / | | | | | | | NI | ref | |
| S-P13R | 6BCLN203.54 | B | / | / | / | / | / | / | / | | | | | | | NI | ref | |
| S-P13R | 6BCLN206.70 | A | 0 / 28 S | 0 / 28 S | 0 / 28 S | 0 / 28 S | 0 / 0 W | 0 / 17 J | | | | 0 S | 0 S | | | | | |
| S-P13R | 6BCLN211.00 | A | 0 / 31 S | 0 / 31 S | 0 / 31 S | 0 / 31 S | 0 / 0 W | 0 / 21 S | | | | 0 S | 0 S | | | | | |
| **S-P13R** | **6BSTO000.45** | B | / | / | / | / | / | / | / | | | | | | | **MI** | | |
| S-P13R | 6BSTO004.56 | A | 0 / 19 S | 0 / 19 S | 0 / 19 S | 0 / 19 S | 0 / 0 W | 1 / 12 J | | | | 2 T | 1 S | | | | | Cr,Pb,PCP |
| **S-P13R** | **6BSTO004.73** | B | / | / | / | / | / | / | / | | | | | | | **MI** | net | |
| **S-P13R** | **6BSTO005.26** | B | / | / | / | / | / | / | / | | | | | | | **MI** | ref | |
| S-P13R | 6BCLN224.20 | SS | / | / | / | / | / | / | / | | | 0 S | 0 S | | | | | |
| S-P14R | 6BCOP002.00 | A | 0 / 30 S | 0 / 30 S | 1 / 30 S | 0 / 29 S | 0 / 0 W | 0 / 18 S | | | | 0 S | 0 S | | | | | |
| S-P14R | 6BCOP002.68 | B | / | / | / | / | / | / | / | | | | | | | SI | net | |
| S-P14R | 6BCOP002.00 | C,SS | / | / | / | / | / | / | / | | | 0 S | 0 S | 0 S | 0 S | | | |
| S-P15R | 6BNFC003.80 | A | 0 / 20 S | 0 / 20 S | 0 / 20 S | 1 / 20 S | 0 / 0 W | 1 / 13 S | | | | 0 S | 1 S | | | | | PCP |
| **S-P17R** | **6BCAL000.03** | B | / | / | / | / | / | / | / | | | | | | | **MI** | net | |
| **S-P17R** | **6BPOW180.78** | A | 0 / 20 S | 0 / 20 S | 0 / 20 S | 0 / 20 S | 0 / 0 W | **4 / 13 P** | | | | 1 S | 1 S | | | | | Sb, PCP |
| **S-P17R** | **Black Creek** | SS | / | / | / | / | / | / | / | | | | | | | **MI** | | Special Study by Va Tech |
| S-P17R | 6BRIN000.08 | B | / | / | / | / | / | / | / | | | | | | | NI | | |
| S-P18R | 6BPLL002.55 | B | / | / | / | / | / | / | / | | | | | | | MI | net | Currently listed as Threatened |
| S-P18R | 6BPLL006.38 | A | 0 / 7 J | 0 / 7 J | 0 / 7 J | 0 / 7 J | 0 / 0 W | 0 / 7 J | | | | 0 S | 0 S | | | | | |
| S-P19R | 6BPOW138.91 | A | 0 / 28 S | 0 / 28 S | 0 / 28 S | 0 / 28 S | 0 / 0 W | 1 / 19 S | | | | 0 S | 0 S | | | | | |
| S-P19R | 6BPOW143.53 | A | 0 / 31 S | 0 / 31 S | 0 / 31 S | 0 / 31 S | 0 / 0 W | 0 / 21 S | | | | 0 S | 0 S | | | | | |
| S-P19R | 6BPOW165.78 | A | 0 / 59 S | 0 / 59 S | 0 / 58 S | 0 / 57 S | 0 / 0 W | 3 / 39 S | | | | 0 S | 1 S | | | | | PCP |
| S-P19R | 6BPOW143.81 | SS | / | / | / | / | / | / | / | | | 0 S | 0 S | | | | | |
| S-P20R | 6BSRA001.34 | C,SS | / | / | / | / | / | / | / | | | 0 S | 0 S | 0 S | 0 S | | | |
| S-P20R | 6BPWL001.49 | A | 4 / 20 T | 0 / 30 S | 0 / 20 S | 0 / 21 S | 0 / 0 W | 2 / 14 T | | | | 0 S | 0 S | | | | | |
| **S-P20R** | **6BPWL005.49** | B | / | / | / | / | / | / | / | | | | | | | **MI** | | |

| RG&WIB ON D | MONITORING STATIONS IDENTIFICATION NUMBER | TYPE | CONVENTIONAL WATER COLUMN MONITORING DATA # VIOLATIONS / # SAMPLES TEMP | RES | D.O. | RES | pH | RES | OTHER MONITORING DATA THOSAL PHOSUS | RES | CHLORIDE | RES | CBCAFORMA | RES | #b MEXTCLESD | RES | #c EXCGEAND | RES | SEDIMENT. #d MEXTCLESD | RES | #e EXCGEAND | RES | FISH TISSUE. #f MEXTCLESD | RES | #g EXCGEAND | RES | BIOMON | TYPE BIOLSTN | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **S-P20R** | **6BSRA000.40** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | | |
| **S-P20R** | **6BSRA001.11** | A | 0 / 20 | S | 0 / 20 | S | 0 / 20 | S | 0 / 19 | S | 0 / 0 | W | **7 / 13** | **N** | | | | | 1 | S | 0 | S | | | | | | | Ni |
| S-P20R | 6BPWL001.62 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| S-P20L | 6BPWL025.32 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| S-P21R | 6BPOW128.37 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| **S-P21R** | **Beatie Creek** | SS | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **VI** | | Special Study |
| S-P21R | 6BPOW138.91 | A | 0 / 28 | S | 0 / 28 | S | 0 / 28 | S | 0 / 28 | S | 0 / 0 | W | 1 / 19 | S | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| **S-P22R** | **6BWAL001.57** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| S-P23R | 6BMTN003.56 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | ref | |
| S-P23R | 6BPOW121.15 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| S-P23R | 6APOW121.76 | SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | | | | | | | |
| S-P24R | 6BIND010.25 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| S-P24R | 6BIND009.10 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| S-Q01R | 6ADRK036.38 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| S-Q01R | 6AHRP000.63 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | MI | net | Currently listed as Threatened |
| S-Q03R | 6AKOX008.11 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| S-Q03R | 6AKOX008.11 | A | 0 / 20 | S | 0 / 20 | S | 0 / 20 | S | 0 / 19 | S | 0 / 0 | W | 2 / 14 | T | | | 0 | S | 1 | S | 0 | S | | | | | | | Ni/FC thru 10-97 |
| **S-Q03R** | **6AKOX011.08** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| **S-Q03R** | **6APPW000.60** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **VI** | | |
| **S-Q04R** | **6AGAR000.16** | A,B | 0 / 30 | S | 0 / 30 | S | 0 / 29 | S | 0 / 27 | S | 0 / 0 | W | 3 / 16 | T | | | | | 0 | S | 0 | S | | | | | **VI** | net | |
| **S-Q04R** | **6ALEV151.90** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| S-Q04R | 6AGAR001.78 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| S-Q05R | 6ADIS001.24 | A | 0 / 17 | S | 0 / 18 | S | 0 / 17 | S | 0 / 20 | S | 0 / 0 | W | 0 / 14 | S | | | 0 | S | 0 | S | 0 | S | | | | | | | |
| S-Q05R | 6ADIS002.80 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| S-Q05R | 6ADIS017.94 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| S-Q05R | 6ADIS002.72 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| S-Q06R | 6ABIP000.65 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | T | net | combined with 6ABIP000.47 |
| S-Q06R | 6ALEV143.86 | A | 0 / 57 | S | 0 / 57 | S | 0 / 56 | S | 1 / 54 | S | 0 / 0 | W | 4 / 40 | S | | | | | 4 | T | 0 | S | | | | | | | Sb,Pb,Ni,Zn |
| S-Q06R | 6ALEV151.29 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| S-Q07R | 6ASAT000.00 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | | |
| S-Q07R | 6ASAT000.03 | A | 0 / 18 | S | 0 / 18 | S | 0 / 18 | S | 0 / 20 | S | 0 / 0 | W | 3 / 14 | T | | | 0 | S | 1 | S | 0 | S | | | | | | net | Sb |
| S-Q07R | 6ASAT004.56 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| **S-Q08R** | **6ABLC002.30** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **VI** | net | |
| **S-Q08R** | **6ALEV130.29** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **VI** | net | Ni, Zn, PCB |
| S-Q08R | 6ALEV131.52 | A | 0 / 57 | S | 0 / 57 | S | 0 / 56 | S | 0 / 54 | S | 0 / 0 | W | 4 / 38 | S | | | | | 2 | T | 0 | S | | | | | | | |
| S-Q08R | 6ALEV130.00 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| S-Q09R | 6ARSS034.53 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| S-Q10R | 6AFRY002.25 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| S-Q10R | 6ARSS026.98 | A | 0 / 30 | S | 0 / 30 | S | 0 / 29 | S | 0 / 29 | S | 0 / 0 | W | 0 / 21 | S | | | | | 0 | S | 0 | S | | | | | | | |
| S-Q11R | 6AMCR000.20 | A,B | 0 / 8 | J | 0 / 8 | J | 0 / 8 | J | 0 / 8 | J | 0 / 0 | W | 1 / 7 | J | | | | | 0 | S | 0 | S | | | | | NI | net | |
| S-Q11R | 6AMCR000.55 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| **S-Q11R** | **6AMCR007.46** | A | 0 / 21 | S | 0 / 21 | S | 0 / 21 | S | 0 / 20 | S | 0 / 0 | W | **4 / 13** | **P** | | | 1 | S | 0 | S | 0 | S | | | | | | | |
| S-Q11R | 6AMCR000.54 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| S-Q12R | 6ARSS025.55 | C,SS | / | | / | | / | | / | | / | | / | | | | | | 0 | S | 0 | S | 0 | S | 0 | S | | | |
| **S-Q12R** | **6ARPC000.80** | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | **MI** | net | |
| S-Q12R | 6ARSS011.54 | A | 0 / 47 | S | 0 / 47 | S | 0 / 46 | S | 1 / 45 | S | 0 / 0 | W | 0 / 29 | S | | | | | 0 | S | 0 | S | | | | | | | |
| S-Q12R | 6ARSS011.64 | B | / | | / | | / | | / | | / | | / | | | | | | | | | | | | | | NI | net | |
| S-Q12R | 6ARSS014.15 | A | 0 / 13 | S | 0 / 13 | S | 0 / 13 | S | 0 / 13 | S | 0 / 0 | W | 0 / 13 | S | | | | | 0 | S | 0 | S | | | | | | | |

| REGION | BIOID | MONITORING STATIONS IDENTIFICATION NUMBER | TYPE | CONVENTIONAL WATER COLUMN MONITORING DATA # VIOLATIONS / # SAMPLES TEMP | D.O. | pH | OTHER MONITORING DATA TOTAL HOLOR ACIDS | CHLORIDE | CHLORIDE | BACTERIA | # b MEXTC LED | # c EXCEED | SEDIMENT. # d MEXCEED | # e EXCEED | FISH TISSUE. # f MEXCEED | # g EXCEED | BIOMON | TYPE BIOL STN | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S-Q12R | | 6ARSS025.40 | A | 0 / 44 S | 0 / 44 S | 0 / 43 S | 2 / 41 S | 0 / 0 W | 1 / 28 S | | | 0 S | 0 S | | | | | | |
| **S-Q13R** | | **6APNK000.08** | B | / | / | / | / | / | / | | | | | | | | **MI** | net | |
| S-Q13R | | 6APNK001.29 | C,SS | / | / | / | / | / | / | | | 0 S | 0 S | 0 S | 0 S | 0 S | | | |
| S-Q13L | | 6APNR002.15 | C,SS | / | / | / | / | / | / | | | 0 S | 0 S | 0 S | 0 S | 0 S | | | |
| S-Q13R | | 6APNR023.86 | A | 0 / 21 S | 0 / 21 S | 0 / 21 S | 1 / 22 S | 0 / 0 W | 1 / 15 S | | | 0 S | 0 S | | | | | | combined with 6APNR019.09 |
| **S-Q13R** | | **6APNS000.40** | B | / | / | / | / | / | / | | | | | | | | **VI** | net | |
| S-Q14R | | 6ACNR009.17 | A | 0 / 20 S | 0 / 20 S | 0 / 20 S | 1 / 20 S | 0 / 0 W | 0 / 14 S | | | 1 S | 0 S | | | | | | Be |
| S-Q14R | | 6ACNR017.28 | B | / | / | / | / | / | / | | | | | | | | SI | | |
| S-Q14R | | 6ACNR003.00 | C,SS | / | / | / | / | / | / | | | 0 S | 0 S | 0 S | 0 S | 0 S | | | |