**Pamunkey River 2018 Archived Data**

**Upper Pamunkey**

**October 2018** monitoring data (177 dissolved oxygen and temperature readings) logged dissolved oxygen levels ranging from 3.48 mg/L to 10.48 mg/L with an average of 9.24 mg/L. Water temperature ranged from 11.06 °C (51.91 °F) to 14.32 °C (57.78 °F) with an average of 12.47 °C (54.45 °F).

Note: Monitors for dissolved oxygen and temperature were placed in operation on October 24, 2018.

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| **October 2018** | **Dissolved Oxygen** | **Temperature** |
| Recorded Samples | 177 | 177 |
| Maximum | 10.48 mg/L | 14.32 °C |
| Minimum | 3.48 mg/L | 11.06 °C |
| Average | 9.24 mg/L | 12.47 °C |

**November 2018** monitoring data (720 dissolved oxygen and temperature readings) logged dissolved oxygen levels ranging from 6.41 mg/L to 10.98 mg/L with an average of 9.00 mg/L. Water temperature ranged from 6.78 °C (44.20 °F) to 15.82 °C (60.48 °F) with an average of 10.90 °C (51.62 °F).

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| **November 2018** | **Dissolved Oxygen** | **Temperature** |
| Recorded Samples | 720 | 720 |
| Maximum | 10.98 mg/L | 15.82 °C |
| Minimum | 6.41 mg/L | 6.78 °C |
| Average | 9.00 mg/L | 10.90 °C |

**December 2018** monitoring data (744 dissolved oxygen and temperature readings) logged dissolved oxygen levels ranging from 10.05 mg/L to12.59 mg/L with an average of 11.19 mg/L. Water temperature ranged from 2.76 °C (36.97 °F) to 9.76 °C (49.57 °F) with an average of 6.63 °C (43.93 °F).

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| **December 2018** | **Dissolved Oxygen** | **Temperature** |
| Recorded Samples | 744 | 744 |
| Maximum | 12.59 mg/L | 9.76 °C |
| Minimum | 10.05 mg/L | 2.76 °C |
| Average | 11.19 mg/L | 6.63 °C |

**Middle Pamunkey**

**September 2018** monitoring data (273 dissolved oxygen and temperature readings) logged dissolved oxygen levels ranging from 4.43 mg/L to 7.29 mg/L with an average of 6.05 mg/L. Water temperature ranged from 22.14 °C (71.85 °F) to 25.76 °C (78.37 °F) with an average of 23.69 °C (74.64 °F).

\*Note: Monitors for dissolved oxygen and temperature were placed in operation on September 19, 2018.

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| **September 2018** | **Dissolved Oxygen** | **Temperature** |
| **Recorded Samples** | 273 | 273 |
| **Maximum** | 7.29 mg/L | 25.76 °C |
| **Minimum** | 4.43 mg/L | 22.14 °C |
| **Average** | 6.05 mg/L | 23.69 °C |

**October 2018** monitoring data (744 dissolved oxygen and temperature readings) logged dissolved oxygen levels ranging from -0.01 mg/L to 9.18 mg/L with an average of 6.09 mg/L. Water temperature ranged from 11.54 °C (52.77 °F) to 24.12 °C (75.42 °F) with an average of 18.29 °C (64.92 °F).

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| **October 2018** | **Dissolved Oxygen** | **Temperature** |
| **Recorded Samples** | 744 | 744 |
| **Maximum** | 9.18 mg/L | 24.12 °C |
| **Minimum** | -0.01 mg/L | 11.54 °C |
| **Average** | 6.09 mg/L | 18.29 °C |

**November 2018** monitoring data (720 dissolved oxygen and temperature readings) logged dissolved oxygen levels ranging from -0.02 mg/L to 10.85 mg/L with an average of 5.02 mg/L. Water temperature ranged from 6.9 °C (44.42°F) to 18.28 °C (64.90 °F) with an average of 10.77 °C (51.39 °F).

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| **November 2018** | **Dissolved Oxygen** | **Temperature** |
| **Recorded Samples** | 720 | 720 |
| **Maximum** | 10.85 mg/L | 18.28 °C |
| **Maximum** | -0.02 mg/L | 6.9 °C |
| **Average** | 5.02 mg/L | 10.77 °C |

**December 2018** monitoring data (744 dissolved oxygen and temperature readings) logged dissolved oxygen levels ranging from 3.62 mg/L to 12.40 mg/L with an average of 10.32 mg/L. Water temperature ranged from 2.60 °C (36.68 °F) to 9.46 °C (49.03 °F) with an average of 6.53 °C (43.75 °F).

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| **December 2018** | **Dissolved Oxygen** | **Temperature** |
| **Recorded Samples** | 744 | 744 |
| **Maximum** | 12.40 mg/L | 9.46 °C |
| **Minimum** | 3.62 mg/L | 2.60 °C |
| **Average** | 10.32 mg/L | 6.53 °C |

**Lower Pamunkey**

**September 2018** monitoring data (287 dissolved oxygen and temperature readings) logged dissolved oxygen levels ranging from 3.81 mg/L to 8.29 mg/L with an average of 4.99 mg/L. Water temperature ranged from 23.04 °C (73.47 °F) to 30.88 °C (87.58 °F) with an average of 24.64 °C (76.35 °F).

\*Note: Monitors for dissolved oxygen and temperature were placed in operation on September 18, 2018.

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| **September 2018** | **Dissolved Oxygen** | **Temperature** |
| **Recorded Samples** | 287 | 287 |
| **Maximum** | 8.29 mg/L | 30.88 °C |
| **Minimum** | 3.81 mg/L | 23.04 °C |
| **Average** | 4.99 mg/L | 24.64 °C |

**October 2018** monitoring data (743 dissolved oxygen and temperature readings) logged dissolved oxygen levels ranging from 0.08 mg/L to 8.74 mg/L with an average of 5.99 mg/L. Water temperature ranged from 12.28 °C (54.10 °F) to 26.06 °C (78.91 °F) with an average of 19.67 °C (67.41 °F).

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| **October 2018** | **Dissolved Oxygen** | **Temperature** |
| **Recorded Samples**  | 743 | 743 |
| **Maximum** | 8.74 mg/L | 26.06 °C |
| **Minimum** | 0.08 mg/L | 12.28 °C |
| **Average** | 5.99 mg/L | 19.67 °C |

**November 2018** monitoring data (720 dissolved oxygen and temperature readings) logged dissolved oxygen levels ranging from 5.34 mg/L to10.75 mg/L with an average of 8.67 mg/L. Water temperature ranged from 6.14 °C (43.05 °F) to 16.1 °C (60.98 °F) with an average of 10.98 °C (51.76 °F).

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| **November 2018** | **Dissolved Oxygen** | **Temperature** |
| **Recorded Samples**  | 720 | 720 |
| **Maximum** | 10.75 mg/L | 16.1 °C |
| **Minimum** | 5.34 mg/L | 6.14 °C |
| **Average** | 8.67 mg/L | 10.98 °C |

**December 2018** monitoring data (744 dissolved oxygen and temperature readings) logged dissolved oxygen levels ranging from 9.24 mg/L to 12.61 mg/L with an average of 11.06 mg/L. Water temperature ranged from 3.22 °C (37.80 °F) to 9.14 °C (48.45 °F) with an average of 6.62 °C (43.92 °F).

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| **December 2018** | **Dissolved Oxygen** | **Temperature** |
| **Recorded Samples** | 744 | 744 |
| **Maximum** | 12.61 mg/L | 9.14 °C |
| **Minimum** | 9.24 mg/L | 3.22 °C |
| **Average** | 11.06 mg/L | 6.62 °C |