# Apalachicola Bay Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Corrected for Pheophytin levels in the Apalachicola Bay Aquatic Preserve. Over the course of 2000 - 2023, a Significantly increasing trend was detected in Chlorophyll a, Corrected for Pheophytin, supported by 493 samples.

## Chlorophyll a, Uncorrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Uncorrected for Pheophytin levels in the Apalachicola Bay Aquatic Preserve. An analysis over 2002 - 2023 revealed a Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin levels, with135 samples contributing to this finding.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Apalachicola Bay Aquatic Preserve. An analysis over 1992 - 2023 revealed a Significantly decreasing trend in Dissolved Oxygen levels, with46230 samples contributing to this finding.

## Dissolved Oxygen Saturation

This table outlines a key observation related to Dissolved Oxygen Saturation levels in the Apalachicola Bay Aquatic Preserve. Over the course of 2000 - 2023, a Significantly increasing trend was detected in Dissolved Oxygen Saturation, supported by 4454 samples.

## Salinity

The following table highlights the significant trends in Salinity within the Apalachicola Bay Aquatic Preserve. The data indicate a No significant trend in Salinity from 1964 - 2023, based on the analysis of 56237 samples.

## Secchi Depth

The following table highlights the significant trends in Secchi Depth within the Apalachicola Bay Aquatic Preserve. Over the course of 1992 - 2023, a No significant trend was detected in Secchi Depth, supported by 21885 samples.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Apalachicola Bay Aquatic Preserve over the study period. Over the course of 1992 - 2023, a No significant trend was detected in Total Nitrogen, supported by 487 samples.

## Total Phosphorus

The data reveals notable changes in Total Phosphorus in the Apalachicola Bay Aquatic Preserve over the study period. An analysis over 1992 - 2023 revealed a Significantly decreasing trend in Total Phosphorus levels, with551 samples contributing to this finding.

## Total Suspended Solids

The data reveals notable changes in Total Suspended Solids in the Apalachicola Bay Aquatic Preserve over the study period. The data indicate a No significant trend in Total Suspended Solids from 1992 - 2023, based on the analysis of 112 samples.

## Turbidity

The data reveals notable changes in Turbidity in the Apalachicola Bay Aquatic Preserve over the study period. The data indicate a No significant trend in Turbidity from 1992 - 2023, based on the analysis of 15514 samples.

## Water Temperature

The data reveals notable changes in Water Temperature in the Apalachicola Bay Aquatic Preserve over the study period. An analysis over 1964 - 2023 revealed a No significant trend in Water Temperature levels, with55058 samples contributing to this finding.

## pH

The following table highlights the significant trends in pH within the Apalachicola Bay Aquatic Preserve. An analysis over 1964 - 2023 revealed a Significantly decreasing trend in pH levels, with35507 samples contributing to this finding.

# Apalachicola National Estuarine Research Reserve

## Chlorophyll a, Corrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Corrected for Pheophytin levels in the Apalachicola National Estuarine Research Reserve. A clear Significantly increasing trend in Chlorophyll a, Corrected for Pheophytin was observed from 1999 - 2023, according to data from 1121 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Uncorrected for Pheophytin in the Apalachicola National Estuarine Research Reserve over the study period. The data indicate a No significant trend in Chlorophyll a, Uncorrected for Pheophytin from 2000 - 2023, based on the analysis of 467 samples.

## Dissolved Oxygen

The data reveals notable changes in Dissolved Oxygen in the Apalachicola National Estuarine Research Reserve over the study period. The data indicate a Significantly decreasing trend in Dissolved Oxygen from 1992 - 2023, based on the analysis of 71612 samples.

## Dissolved Oxygen Saturation

This table outlines a key observation related to Dissolved Oxygen Saturation levels in the Apalachicola National Estuarine Research Reserve. A clear No significant trend in Dissolved Oxygen Saturation was observed from 2000 - 2023, according to data from 5623 samples.

## Salinity

The data reveals notable changes in Salinity in the Apalachicola National Estuarine Research Reserve over the study period. The data indicate a Significantly decreasing trend in Salinity from 1964 - 2023, based on the analysis of 85674 samples.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the Apalachicola National Estuarine Research Reserve over the study period. A clear No significant trend in Secchi Depth was observed from 1992 - 2023, according to data from 37193 samples.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Apalachicola National Estuarine Research Reserve over the study period. An analysis over 1992 - 2023 revealed a Significantly increasing trend in Total Nitrogen levels, with1133 samples contributing to this finding.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the Apalachicola National Estuarine Research Reserve. The data indicate a Significantly decreasing trend in Total Phosphorus from 1992 - 2023, based on the analysis of 1230 samples.

## Total Suspended Solids

The data reveals notable changes in Total Suspended Solids in the Apalachicola National Estuarine Research Reserve over the study period. Over the course of 1992 - 2023, a Significantly decreasing trend was detected in Total Suspended Solids, supported by 697 samples.

## Turbidity

The following table highlights the significant trends in Turbidity within the Apalachicola National Estuarine Research Reserve. Over the course of 1992 - 2023, a Significantly increasing trend was detected in Turbidity, supported by 22938 samples.

## Water Temperature

The following table highlights the significant trends in Water Temperature within the Apalachicola National Estuarine Research Reserve. A clear No significant trend in Water Temperature was observed from 1964 - 2023, according to data from 84548 samples.

## pH

Here, we present the analysis of pH trends at the Apalachicola National Estuarine Research Reserve. A clear Significantly decreasing trend in pH was observed from 1964 - 2023, according to data from 56861 samples.

# Banana River Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Corrected for Pheophytin levels in the Banana River Aquatic Preserve. Over the course of 2005 - 2023, a No significant trend was detected in Chlorophyll a, Corrected for Pheophytin, supported by 418 samples.

## Chlorophyll a, Uncorrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Uncorrected for Pheophytin trends at the Banana River Aquatic Preserve. A clear Significantly decreasing trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 1999 - 2023, according to data from 324 samples.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Banana River Aquatic Preserve. Over the course of 1990 - 2023, a Significantly decreasing trend was detected in Dissolved Oxygen, supported by 29112 samples.

## Dissolved Oxygen Saturation

The data reveals notable changes in Dissolved Oxygen Saturation in the Banana River Aquatic Preserve over the study period. Over the course of 1991 - 2023, a Significantly increasing trend was detected in Dissolved Oxygen Saturation, supported by 7294 samples.

## Salinity

The data reveals notable changes in Salinity in the Banana River Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Salinity from 1990 - 2023, based on the analysis of 30601 samples.

## Secchi Depth

Here, we present the analysis of Secchi Depth trends at the Banana River Aquatic Preserve. The data indicate a No significant trend in Secchi Depth from 1991 - 2023, based on the analysis of 7892 samples.

## Total Nitrogen

This table outlines a key observation related to Total Nitrogen levels in the Banana River Aquatic Preserve. An analysis over 1997 - 2023 revealed a Significantly decreasing trend in Total Nitrogen levels, with2150 samples contributing to this finding.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the Banana River Aquatic Preserve. Over the course of 1997 - 2023, a Significantly increasing trend was detected in Total Phosphorus, supported by 4495 samples.

## Total Suspended Solids

The following table highlights the significant trends in Total Suspended Solids within the Banana River Aquatic Preserve. The data indicate a Significantly decreasing trend in Total Suspended Solids from 1997 - 2023, based on the analysis of 2338 samples.

## Turbidity

Here, we present the analysis of Turbidity trends at the Banana River Aquatic Preserve. Over the course of 1996 - 2023, a No significant trend was detected in Turbidity, supported by 13360 samples.

## Water Temperature

This table outlines a key observation related to Water Temperature levels in the Banana River Aquatic Preserve. An analysis over 1990 - 2023 revealed a Significantly increasing trend in Water Temperature levels, with30599 samples contributing to this finding.

## pH

Here, we present the analysis of pH trends at the Banana River Aquatic Preserve. An analysis over 1990 - 2023 revealed a Significantly decreasing trend in pH levels, with22007 samples contributing to this finding.

# Big Bend Seagrasses Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Corrected for Pheophytin within the Big Bend Seagrasses Aquatic Preserve. A clear Significantly increasing trend in Chlorophyll a, Corrected for Pheophytin was observed from 1995 - 2023, according to data from 4414 samples.

## Chlorophyll a, Uncorrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Uncorrected for Pheophytin levels in the Big Bend Seagrasses Aquatic Preserve. The data indicate a Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin from 1990 - 2023, based on the analysis of 5925 samples.

## Colored Dissolved Organic Matter

The data reveals notable changes in Colored Dissolved Organic Matter in the Big Bend Seagrasses Aquatic Preserve over the study period. A clear Significantly increasing trend in Colored Dissolved Organic Matter was observed from 2001 - 2023, according to data from 2444 samples.

## Dissolved Oxygen

Here, we present the analysis of Dissolved Oxygen trends at the Big Bend Seagrasses Aquatic Preserve. Over the course of 1985 - 2023, a Significantly decreasing trend was detected in Dissolved Oxygen, supported by 137502 samples.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Big Bend Seagrasses Aquatic Preserve. A clear No significant trend in Dissolved Oxygen Saturation was observed from 1999 - 2023, according to data from 1239 samples.

## Salinity

The data reveals notable changes in Salinity in the Big Bend Seagrasses Aquatic Preserve over the study period. A clear Significantly decreasing trend in Salinity was observed from 1964 - 2023, according to data from 142979 samples.

## Secchi Depth

The following table highlights the significant trends in Secchi Depth within the Big Bend Seagrasses Aquatic Preserve. Over the course of 1991 - 2023, a Significantly increasing trend was detected in Secchi Depth, supported by 47287 samples.

## Total Nitrogen

The following table highlights the significant trends in Total Nitrogen within the Big Bend Seagrasses Aquatic Preserve. The data indicate a Significantly increasing trend in Total Nitrogen from 1990 - 2023, based on the analysis of 7766 samples.

## Total Phosphorus

The following table highlights the significant trends in Total Phosphorus within the Big Bend Seagrasses Aquatic Preserve. Over the course of 1992 - 2023, a Significantly increasing trend was detected in Total Phosphorus, supported by 6019 samples.

## Total Suspended Solids

This table outlines a key observation related to Total Suspended Solids levels in the Big Bend Seagrasses Aquatic Preserve. The data indicate a Significantly decreasing trend in Total Suspended Solids from 1990 - 2023, based on the analysis of 2831 samples.

## Turbidity

Here, we present the analysis of Turbidity trends at the Big Bend Seagrasses Aquatic Preserve. Over the course of 1990 - 2023, a Significantly decreasing trend was detected in Turbidity, supported by 42434 samples.

## Water Temperature

This table outlines a key observation related to Water Temperature levels in the Big Bend Seagrasses Aquatic Preserve. A clear Significantly increasing trend in Water Temperature was observed from 1964 - 2023, according to data from 144311 samples.

## pH

This table outlines a key observation related to pH levels in the Big Bend Seagrasses Aquatic Preserve. The data indicate a Significantly decreasing trend in pH from 1964 - 2023, based on the analysis of 95264 samples.

# Biscayne Bay Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Corrected for Pheophytin trends at the Biscayne Bay Aquatic Preserve. The data indicate a No significant trend in Chlorophyll a, Corrected for Pheophytin from 2004 - 2023, based on the analysis of 449 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Uncorrected for Pheophytin within the Biscayne Bay Aquatic Preserve. The data indicate a Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin from 1993 - 2023, based on the analysis of 2228 samples.

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the Biscayne Bay Aquatic Preserve. Over the course of 1970 - 2023, a Significantly decreasing trend was detected in Dissolved Oxygen, supported by 16950 samples.

## Dissolved Oxygen Saturation

Here, we present the analysis of Dissolved Oxygen Saturation trends at the Biscayne Bay Aquatic Preserve. An analysis over 1995 - 2023 revealed a Significantly increasing trend in Dissolved Oxygen Saturation levels, with5771 samples contributing to this finding.

## Salinity

This table outlines a key observation related to Salinity levels in the Biscayne Bay Aquatic Preserve. An analysis over 1993 - 2023 revealed a Significantly decreasing trend in Salinity levels, with19366 samples contributing to this finding.

## Secchi Depth

Here, we present the analysis of Secchi Depth trends at the Biscayne Bay Aquatic Preserve. Over the course of 2000 - 2022, a No significant trend was detected in Secchi Depth, supported by 667 samples.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Biscayne Bay Aquatic Preserve over the study period. A clear Significantly increasing trend in Total Nitrogen was observed from 1993 - 2023, according to data from 6505 samples.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the Biscayne Bay Aquatic Preserve. A clear Significantly increasing trend in Total Phosphorus was observed from 1970 - 2023, according to data from 6436 samples.

## Total Suspended Solids

The data reveals notable changes in Total Suspended Solids in the Biscayne Bay Aquatic Preserve over the study period. The data indicate a No significant trend in Total Suspended Solids from 1994 - 2023, based on the analysis of 1577 samples.

## Turbidity

Here, we present the analysis of Turbidity trends at the Biscayne Bay Aquatic Preserve. A clear Significantly decreasing trend in Turbidity was observed from 1993 - 2023, according to data from 11184 samples.

## Water Temperature

This table outlines a key observation related to Water Temperature levels in the Biscayne Bay Aquatic Preserve. Over the course of 1969 - 2023, a Significantly increasing trend was detected in Water Temperature, supported by 20489 samples.

## pH

The data reveals notable changes in pH in the Biscayne Bay Aquatic Preserve over the study period. The data indicate a Significantly decreasing trend in pH from 1970 - 2023, based on the analysis of 13516 samples.

# Cape Haze Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Corrected for Pheophytin within the Cape Haze Aquatic Preserve. A clear Significantly increasing trend in Chlorophyll a, Corrected for Pheophytin was observed from 2003 - 2023, according to data from 98 samples.

## Chlorophyll a, Uncorrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Uncorrected for Pheophytin levels in the Cape Haze Aquatic Preserve. The data indicate a No significant trend in Chlorophyll a, Uncorrected for Pheophytin from 2001 - 2023, based on the analysis of 101 samples.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Cape Haze Aquatic Preserve. An analysis over 1989 - 2023 revealed a Significantly decreasing trend in Dissolved Oxygen levels, with8283 samples contributing to this finding.

## Salinity

This table outlines a key observation related to Salinity levels in the Cape Haze Aquatic Preserve. Over the course of 1957 - 2023, a No significant trend was detected in Salinity, supported by 8585 samples.

## Secchi Depth

The following table highlights the significant trends in Secchi Depth within the Cape Haze Aquatic Preserve. The data indicate a Significantly increasing trend in Secchi Depth from 1994 - 2023, based on the analysis of 5727 samples.

## Total Nitrogen

Here, we present the analysis of Total Nitrogen trends at the Cape Haze Aquatic Preserve. A clear Significantly increasing trend in Total Nitrogen was observed from 1998 - 2023, according to data from 385 samples.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the Cape Haze Aquatic Preserve. Over the course of 1999 - 2023, a Significantly increasing trend was detected in Total Phosphorus, supported by 427 samples.

## Total Suspended Solids

This table outlines a key observation related to Total Suspended Solids levels in the Cape Haze Aquatic Preserve. The data indicate a Significantly increasing trend in Total Suspended Solids from 2003 - 2023, based on the analysis of 328 samples.

## Turbidity

The data reveals notable changes in Turbidity in the Cape Haze Aquatic Preserve over the study period. The data indicate a No significant trend in Turbidity from 1995 - 2023, based on the analysis of 1633 samples.

## Water Temperature

This table outlines a key observation related to Water Temperature levels in the Cape Haze Aquatic Preserve. A clear No significant trend in Water Temperature was observed from 1957 - 2023, according to data from 8602 samples.

## pH

The data reveals notable changes in pH in the Cape Haze Aquatic Preserve over the study period. Over the course of 1989 - 2023, a Significantly decreasing trend was detected in pH, supported by 7871 samples.

# Cockroach Bay Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Corrected for Pheophytin trends at the Cockroach Bay Aquatic Preserve. The data indicate a No significant trend in Chlorophyll a, Corrected for Pheophytin from 2000 - 2023, based on the analysis of 844 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Uncorrected for Pheophytin within the Cockroach Bay Aquatic Preserve. A clear No significant trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 1999 - 2023, according to data from 964 samples.

## Colored Dissolved Organic Matter

The following table highlights the significant trends in Colored Dissolved Organic Matter within the Cockroach Bay Aquatic Preserve. An analysis over 2001 - 2023 revealed a Significantly decreasing trend in Colored Dissolved Organic Matter levels, with275 samples contributing to this finding.

## Dissolved Oxygen

Here, we present the analysis of Dissolved Oxygen trends at the Cockroach Bay Aquatic Preserve. Over the course of 1989 - 2023, a Significantly decreasing trend was detected in Dissolved Oxygen, supported by 22760 samples.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Cockroach Bay Aquatic Preserve. An analysis over 1993 - 2023 revealed a Significantly decreasing trend in Dissolved Oxygen Saturation levels, with10448 samples contributing to this finding.

## Salinity

Here, we present the analysis of Salinity trends at the Cockroach Bay Aquatic Preserve. An analysis over 1958 - 2023 revealed a Significantly decreasing trend in Salinity levels, with22801 samples contributing to this finding.

## Secchi Depth

The following table highlights the significant trends in Secchi Depth within the Cockroach Bay Aquatic Preserve. An analysis over 1995 - 2023 revealed a Significantly increasing trend in Secchi Depth levels, with11881 samples contributing to this finding.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Cockroach Bay Aquatic Preserve over the study period. Over the course of 1999 - 2023, a No significant trend was detected in Total Nitrogen, supported by 1438 samples.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the Cockroach Bay Aquatic Preserve. Over the course of 2000 - 2023, a Significantly increasing trend was detected in Total Phosphorus, supported by 1252 samples.

## Total Suspended Solids

This table outlines a key observation related to Total Suspended Solids levels in the Cockroach Bay Aquatic Preserve. Over the course of 2000 - 2020, a No significant trend was detected in Total Suspended Solids, supported by 155 samples.

## Turbidity

The following table highlights the significant trends in Turbidity within the Cockroach Bay Aquatic Preserve. Over the course of 1999 - 2023, a No significant trend was detected in Turbidity, supported by 991 samples.

## Water Temperature

The data reveals notable changes in Water Temperature in the Cockroach Bay Aquatic Preserve over the study period. An analysis over 1958 - 2023 revealed a No significant trend in Water Temperature levels, with23018 samples contributing to this finding.

## pH

The following table highlights the significant trends in pH within the Cockroach Bay Aquatic Preserve. The data indicate a Significantly decreasing trend in pH from 1989 - 2023, based on the analysis of 21984 samples.

# Estero Bay Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Corrected for Pheophytin levels in the Estero Bay Aquatic Preserve. An analysis over 2006 - 2023 revealed a No significant trend in Chlorophyll a, Corrected for Pheophytin levels, with1912 samples contributing to this finding.

## Chlorophyll a, Uncorrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Uncorrected for Pheophytin trends at the Estero Bay Aquatic Preserve. A clear Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 1999 - 2023, according to data from 896 samples.

## Colored Dissolved Organic Matter

Here, we present the analysis of Colored Dissolved Organic Matter trends at the Estero Bay Aquatic Preserve. The data indicate a Significantly increasing trend in Colored Dissolved Organic Matter from 2011 - 2023, based on the analysis of 1636 samples.

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the Estero Bay Aquatic Preserve. Over the course of 1971 - 2023, a No significant trend was detected in Dissolved Oxygen, supported by 10602 samples.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Estero Bay Aquatic Preserve. A clear Significantly decreasing trend in Dissolved Oxygen Saturation was observed from 2011 - 2023, according to data from 2424 samples.

## Salinity

The following table highlights the significant trends in Salinity within the Estero Bay Aquatic Preserve. Over the course of 1963 - 2023, a Significantly decreasing trend was detected in Salinity, supported by 4492 samples.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the Estero Bay Aquatic Preserve over the study period. An analysis over 2001 - 2023 revealed a Significantly increasing trend in Secchi Depth levels, with2759 samples contributing to this finding.

## Total Nitrogen

Here, we present the analysis of Total Nitrogen trends at the Estero Bay Aquatic Preserve. Over the course of 1991 - 2023, a Significantly increasing trend was detected in Total Nitrogen, supported by 6992 samples.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the Estero Bay Aquatic Preserve. The data indicate a No significant trend in Total Phosphorus from 1998 - 2023, based on the analysis of 2501 samples.

## Total Suspended Solids

Here, we present the analysis of Total Suspended Solids trends at the Estero Bay Aquatic Preserve. A clear No significant trend in Total Suspended Solids was observed from 1992 - 2023, according to data from 5158 samples.

## Turbidity

This table outlines a key observation related to Turbidity levels in the Estero Bay Aquatic Preserve. A clear No significant trend in Turbidity was observed from 1999 - 2023, according to data from 1998 samples.

## Water Temperature

The following table highlights the significant trends in Water Temperature within the Estero Bay Aquatic Preserve. The data indicate a No significant trend in Water Temperature from 1963 - 2023, based on the analysis of 10058 samples.

## pH

Here, we present the analysis of pH trends at the Estero Bay Aquatic Preserve. An analysis over 1991 - 2023 revealed a Significantly decreasing trend in pH levels, with9908 samples contributing to this finding.

# Florida Keys National Marine Sanctuary

## Chlorophyll a, Corrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Corrected for Pheophytin in the Florida Keys National Marine Sanctuary over the study period. Over the course of 2004 - 2023, a Significantly increasing trend was detected in Chlorophyll a, Corrected for Pheophytin, supported by 1978 samples.

## Chlorophyll a, Uncorrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Uncorrected for Pheophytin levels in the Florida Keys National Marine Sanctuary. Over the course of 1989 - 2023, a No significant trend was detected in Chlorophyll a, Uncorrected for Pheophytin, supported by 20188 samples.

## Colored Dissolved Organic Matter

This table outlines a key observation related to Colored Dissolved Organic Matter levels in the Florida Keys National Marine Sanctuary. Over the course of 2001 - 2023, a Significantly increasing trend was detected in Colored Dissolved Organic Matter, supported by 972 samples.

## Dissolved Oxygen

The data reveals notable changes in Dissolved Oxygen in the Florida Keys National Marine Sanctuary over the study period. The data indicate a Significantly decreasing trend in Dissolved Oxygen from 1970 - 2023, based on the analysis of 44102 samples.

## Dissolved Oxygen Saturation

The data reveals notable changes in Dissolved Oxygen Saturation in the Florida Keys National Marine Sanctuary over the study period. A clear Significantly increasing trend in Dissolved Oxygen Saturation was observed from 1995 - 2023, according to data from 28578 samples.

## Salinity

Here, we present the analysis of Salinity trends at the Florida Keys National Marine Sanctuary. An analysis over 1955 - 2023 revealed a No significant trend in Salinity levels, with52318 samples contributing to this finding.

## Secchi Depth

This table outlines a key observation related to Secchi Depth levels in the Florida Keys National Marine Sanctuary. Over the course of 1993 - 2023, a No significant trend was detected in Secchi Depth, supported by 4898 samples.

## Total Nitrogen

Here, we present the analysis of Total Nitrogen trends at the Florida Keys National Marine Sanctuary. The data indicate a Significantly decreasing trend in Total Nitrogen from 1989 - 2023, based on the analysis of 33671 samples.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the Florida Keys National Marine Sanctuary. A clear Significantly decreasing trend in Total Phosphorus was observed from 1970 - 2023, according to data from 30855 samples.

## Total Suspended Solids

This table outlines a key observation related to Total Suspended Solids levels in the Florida Keys National Marine Sanctuary. A clear Significantly decreasing trend in Total Suspended Solids was observed from 2007 - 2023, according to data from 514 samples.

## Turbidity

This table outlines a key observation related to Turbidity levels in the Florida Keys National Marine Sanctuary. A clear No significant trend in Turbidity was observed from 1991 - 2023, according to data from 3316 samples.

## Water Temperature

The data reveals notable changes in Water Temperature in the Florida Keys National Marine Sanctuary over the study period. Over the course of 1955 - 2023, a Significantly increasing trend was detected in Water Temperature, supported by 48588 samples.

## pH

This table outlines a key observation related to pH levels in the Florida Keys National Marine Sanctuary. The data indicate a Significantly decreasing trend in pH from 1970 - 2023, based on the analysis of 8694 samples.

# Fort Pickens State Park Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Corrected for Pheophytin within the Fort Pickens State Park Aquatic Preserve. An analysis over 1994 - 2022 revealed a Significantly decreasing trend in Chlorophyll a, Corrected for Pheophytin levels, with386 samples contributing to this finding.

## Chlorophyll a, Uncorrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Uncorrected for Pheophytin within the Fort Pickens State Park Aquatic Preserve. A clear Significantly decreasing trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 1998 - 2022, according to data from 226 samples.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Fort Pickens State Park Aquatic Preserve. The data indicate a No significant trend in Dissolved Oxygen from 1991 - 2023, based on the analysis of 1102 samples.

## Dissolved Oxygen Saturation

The data reveals notable changes in Dissolved Oxygen Saturation in the Fort Pickens State Park Aquatic Preserve over the study period. A clear Significantly increasing trend in Dissolved Oxygen Saturation was observed from 1999 - 2018, according to data from 247 samples.

## Salinity

Here, we present the analysis of Salinity trends at the Fort Pickens State Park Aquatic Preserve. The data indicate a No significant trend in Salinity from 1974 - 2023, based on the analysis of 1048 samples.

## Secchi Depth

Here, we present the analysis of Secchi Depth trends at the Fort Pickens State Park Aquatic Preserve. The data indicate a No significant trend in Secchi Depth from 1987 - 2023, based on the analysis of 432 samples.

## Total Nitrogen

Here, we present the analysis of Total Nitrogen trends at the Fort Pickens State Park Aquatic Preserve. Over the course of 1999 - 2022, a Significantly decreasing trend was detected in Total Nitrogen, supported by 96 samples.

## Total Phosphorus

The data reveals notable changes in Total Phosphorus in the Fort Pickens State Park Aquatic Preserve over the study period. A clear No significant trend in Total Phosphorus was observed from 1999 - 2022, according to data from 124 samples.

## Total Suspended Solids

The data reveals notable changes in Total Suspended Solids in the Fort Pickens State Park Aquatic Preserve over the study period. The data indicate a Significantly decreasing trend in Total Suspended Solids from 1997 - 2012, based on the analysis of 255 samples.

## Turbidity

The data reveals notable changes in Turbidity in the Fort Pickens State Park Aquatic Preserve over the study period. An analysis over 1996 - 2016 revealed a Significantly decreasing trend in Turbidity levels, with310 samples contributing to this finding.

## Water Temperature

Here, we present the analysis of Water Temperature trends at the Fort Pickens State Park Aquatic Preserve. An analysis over 1986 - 2023 revealed a No significant trend in Water Temperature levels, with1141 samples contributing to this finding.

## pH

The data reveals notable changes in pH in the Fort Pickens State Park Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in pH from 1991 - 2023, based on the analysis of 920 samples.

# Gasparilla Sound-Charlotte Harbor Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Corrected for Pheophytin within the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. The data indicate a Significantly increasing trend in Chlorophyll a, Corrected for Pheophytin from 2001 - 2023, based on the analysis of 1444 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Uncorrected for Pheophytin within the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. Over the course of 1997 - 2023, a No significant trend was detected in Chlorophyll a, Uncorrected for Pheophytin, supported by 1367 samples.

## Colored Dissolved Organic Matter

Here, we present the analysis of Colored Dissolved Organic Matter trends at the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. A clear Significantly decreasing trend in Colored Dissolved Organic Matter was observed from 2001 - 2023, according to data from 945 samples.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. A clear Significantly decreasing trend in Dissolved Oxygen was observed from 1971 - 2023, according to data from 55485 samples.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. A clear Significantly increasing trend in Dissolved Oxygen Saturation was observed from 1992 - 2023, according to data from 609 samples.

## Salinity

The following table highlights the significant trends in Salinity within the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. The data indicate a Significantly decreasing trend in Salinity from 1954 - 2023, based on the analysis of 54021 samples.

## Secchi Depth

This table outlines a key observation related to Secchi Depth levels in the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. The data indicate a No significant trend in Secchi Depth from 1994 - 2023, based on the analysis of 32106 samples.

## Total Nitrogen

This table outlines a key observation related to Total Nitrogen levels in the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. A clear Significantly increasing trend in Total Nitrogen was observed from 1993 - 2023, according to data from 6154 samples.

## Total Phosphorus

The following table highlights the significant trends in Total Phosphorus within the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. A clear Significantly increasing trend in Total Phosphorus was observed from 1999 - 2023, according to data from 4251 samples.

## Total Suspended Solids

This table outlines a key observation related to Total Suspended Solids levels in the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. A clear No significant trend in Total Suspended Solids was observed from 1996 - 2023, according to data from 5091 samples.

## Turbidity

This table outlines a key observation related to Turbidity levels in the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. A clear Significantly decreasing trend in Turbidity was observed from 1995 - 2023, according to data from 9902 samples.

## Water Temperature

The following table highlights the significant trends in Water Temperature within the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. A clear Significantly increasing trend in Water Temperature was observed from 1954 - 2023, according to data from 56419 samples.

## pH

The following table highlights the significant trends in pH within the Gasparilla Sound-Charlotte Harbor Aquatic Preserve. The data indicate a Significantly increasing trend in pH from 1955 - 2023, based on the analysis of 52185 samples.

# Guana River Marsh Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Corrected for Pheophytin within the Guana River Marsh Aquatic Preserve. A clear Significantly increasing trend in Chlorophyll a, Corrected for Pheophytin was observed from 2002 - 2023, according to data from 1522 samples.

## Chlorophyll a, Uncorrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Uncorrected for Pheophytin levels in the Guana River Marsh Aquatic Preserve. A clear Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 2002 - 2023, according to data from 1211 samples.

## Colored Dissolved Organic Matter

The data reveals notable changes in Colored Dissolved Organic Matter in the Guana River Marsh Aquatic Preserve over the study period. Over the course of 2007 - 2023, a No significant trend was detected in Colored Dissolved Organic Matter, supported by 182 samples.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Guana River Marsh Aquatic Preserve. An analysis over 1995 - 2023 revealed a Significantly decreasing trend in Dissolved Oxygen levels, with7535 samples contributing to this finding.

## Dissolved Oxygen Saturation

The data reveals notable changes in Dissolved Oxygen Saturation in the Guana River Marsh Aquatic Preserve over the study period. The data indicate a No significant trend in Dissolved Oxygen Saturation from 1999 - 2023, based on the analysis of 1150 samples.

## Salinity

Here, we present the analysis of Salinity trends at the Guana River Marsh Aquatic Preserve. An analysis over 1995 - 2023 revealed a Significantly decreasing trend in Salinity levels, with8270 samples contributing to this finding.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the Guana River Marsh Aquatic Preserve over the study period. An analysis over 1999 - 2023 revealed a No significant trend in Secchi Depth levels, with1330 samples contributing to this finding.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Guana River Marsh Aquatic Preserve over the study period. A clear Significantly increasing trend in Total Nitrogen was observed from 1997 - 2023, according to data from 1930 samples.

## Total Phosphorus

The data reveals notable changes in Total Phosphorus in the Guana River Marsh Aquatic Preserve over the study period. The data indicate a Significantly decreasing trend in Total Phosphorus from 1997 - 2023, based on the analysis of 2716 samples.

## Total Suspended Solids

This table outlines a key observation related to Total Suspended Solids levels in the Guana River Marsh Aquatic Preserve. A clear Significantly decreasing trend in Total Suspended Solids was observed from 1997 - 2023, according to data from 1652 samples.

## Turbidity

This table outlines a key observation related to Turbidity levels in the Guana River Marsh Aquatic Preserve. The data indicate a Significantly increasing trend in Turbidity from 1995 - 2023, based on the analysis of 4991 samples.

## Water Temperature

Here, we present the analysis of Water Temperature trends at the Guana River Marsh Aquatic Preserve. Over the course of 1995 - 2023, a Significantly increasing trend was detected in Water Temperature, supported by 8223 samples.

## pH

Here, we present the analysis of pH trends at the Guana River Marsh Aquatic Preserve. The data indicate a Significantly decreasing trend in pH from 1995 - 2023, based on the analysis of 6101 samples.

# Guana Tolomato Matanzas National Estuarine Research Reserve

## Chlorophyll a, Corrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Corrected for Pheophytin in the Guana Tolomato Matanzas National Estuarine Research Reserve over the study period. Over the course of 2002 - 2023, a Significantly increasing trend was detected in Chlorophyll a, Corrected for Pheophytin, supported by 7125 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Uncorrected for Pheophytin within the Guana Tolomato Matanzas National Estuarine Research Reserve. The data indicate a Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin from 2002 - 2023, based on the analysis of 5502 samples.

## Colored Dissolved Organic Matter

The following table highlights the significant trends in Colored Dissolved Organic Matter within the Guana Tolomato Matanzas National Estuarine Research Reserve. Over the course of 2007 - 2023, a Significantly decreasing trend was detected in Colored Dissolved Organic Matter, supported by 1483 samples.

## Dissolved Oxygen

The data reveals notable changes in Dissolved Oxygen in the Guana Tolomato Matanzas National Estuarine Research Reserve over the study period. Over the course of 1995 - 2023, a Significantly decreasing trend was detected in Dissolved Oxygen, supported by 21501 samples.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Guana Tolomato Matanzas National Estuarine Research Reserve. Over the course of 1999 - 2023, a No significant trend was detected in Dissolved Oxygen Saturation, supported by 2194 samples.

## Salinity

This table outlines a key observation related to Salinity levels in the Guana Tolomato Matanzas National Estuarine Research Reserve. The data indicate a Significantly decreasing trend in Salinity from 1980 - 2023, based on the analysis of 24767 samples.

## Secchi Depth

Here, we present the analysis of Secchi Depth trends at the Guana Tolomato Matanzas National Estuarine Research Reserve. A clear Significantly decreasing trend in Secchi Depth was observed from 1999 - 2023, according to data from 2713 samples.

## Total Nitrogen

The following table highlights the significant trends in Total Nitrogen within the Guana Tolomato Matanzas National Estuarine Research Reserve. Over the course of 1997 - 2023, a Significantly increasing trend was detected in Total Nitrogen, supported by 5368 samples.

## Total Phosphorus

The data reveals notable changes in Total Phosphorus in the Guana Tolomato Matanzas National Estuarine Research Reserve over the study period. An analysis over 1997 - 2023 revealed a Significantly decreasing trend in Total Phosphorus levels, with8011 samples contributing to this finding.

## Total Suspended Solids

The following table highlights the significant trends in Total Suspended Solids within the Guana Tolomato Matanzas National Estuarine Research Reserve. A clear Significantly decreasing trend in Total Suspended Solids was observed from 1997 - 2023, according to data from 4235 samples.

## Turbidity

The data reveals notable changes in Turbidity in the Guana Tolomato Matanzas National Estuarine Research Reserve over the study period. The data indicate a Significantly increasing trend in Turbidity from 1995 - 2023, based on the analysis of 14653 samples.

## Water Temperature

Here, we present the analysis of Water Temperature trends at the Guana Tolomato Matanzas National Estuarine Research Reserve. The data indicate a Significantly increasing trend in Water Temperature from 1995 - 2023, based on the analysis of 24240 samples.

## pH

This table outlines a key observation related to pH levels in the Guana Tolomato Matanzas National Estuarine Research Reserve. The data indicate a Significantly decreasing trend in pH from 1995 - 2023, based on the analysis of 17684 samples.

# Indian River-Malabar to Vero Beach Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Corrected for Pheophytin levels in the Indian River-Malabar to Vero Beach Aquatic Preserve. An analysis over 2003 - 2023 revealed a Significantly increasing trend in Chlorophyll a, Corrected for Pheophytin levels, with663 samples contributing to this finding.

## Chlorophyll a, Uncorrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Uncorrected for Pheophytin trends at the Indian River-Malabar to Vero Beach Aquatic Preserve. The data indicate a Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin from 2000 - 2023, based on the analysis of 494 samples.

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the Indian River-Malabar to Vero Beach Aquatic Preserve. An analysis over 1991 - 2023 revealed a Significantly decreasing trend in Dissolved Oxygen levels, with52869 samples contributing to this finding.

## Dissolved Oxygen Saturation

Here, we present the analysis of Dissolved Oxygen Saturation trends at the Indian River-Malabar to Vero Beach Aquatic Preserve. The data indicate a Significantly increasing trend in Dissolved Oxygen Saturation from 1991 - 2023, based on the analysis of 12817 samples.

## Salinity

The following table highlights the significant trends in Salinity within the Indian River-Malabar to Vero Beach Aquatic Preserve. The data indicate a Significantly decreasing trend in Salinity from 1972 - 2023, based on the analysis of 55766 samples.

## Secchi Depth

This table outlines a key observation related to Secchi Depth levels in the Indian River-Malabar to Vero Beach Aquatic Preserve. Over the course of 1991 - 2023, a Significantly increasing trend was detected in Secchi Depth, supported by 22900 samples.

## Total Nitrogen

This table outlines a key observation related to Total Nitrogen levels in the Indian River-Malabar to Vero Beach Aquatic Preserve. Over the course of 1997 - 2023, a Significantly decreasing trend was detected in Total Nitrogen, supported by 3105 samples.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the Indian River-Malabar to Vero Beach Aquatic Preserve. An analysis over 1997 - 2023 revealed a No significant trend in Total Phosphorus levels, with6316 samples contributing to this finding.

## Total Suspended Solids

The data reveals notable changes in Total Suspended Solids in the Indian River-Malabar to Vero Beach Aquatic Preserve over the study period. A clear Significantly decreasing trend in Total Suspended Solids was observed from 1997 - 2023, according to data from 3177 samples.

## Turbidity

The data reveals notable changes in Turbidity in the Indian River-Malabar to Vero Beach Aquatic Preserve over the study period. An analysis over 1995 - 2023 revealed a Significantly decreasing trend in Turbidity levels, with14310 samples contributing to this finding.

## Water Temperature

Here, we present the analysis of Water Temperature trends at the Indian River-Malabar to Vero Beach Aquatic Preserve. The data indicate a Significantly increasing trend in Water Temperature from 1972 - 2023, based on the analysis of 54907 samples.

## pH

This table outlines a key observation related to pH levels in the Indian River-Malabar to Vero Beach Aquatic Preserve. The data indicate a Significantly decreasing trend in pH from 1980 - 2023, based on the analysis of 43857 samples.

# Indian River-Vero Beach to Ft. Pierce Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Corrected for Pheophytin in the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve over the study period. The data indicate a Significantly decreasing trend in Chlorophyll a, Corrected for Pheophytin from 2002 - 2023, based on the analysis of 250 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Uncorrected for Pheophytin in the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve over the study period. An analysis over 2001 - 2023 revealed a Significantly decreasing trend in Chlorophyll a, Uncorrected for Pheophytin levels, with162 samples contributing to this finding.

## Dissolved Oxygen

The data reveals notable changes in Dissolved Oxygen in the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve over the study period. Over the course of 1992 - 2023, a Significantly decreasing trend was detected in Dissolved Oxygen, supported by 7660 samples.

## Dissolved Oxygen Saturation

The data reveals notable changes in Dissolved Oxygen Saturation in the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Dissolved Oxygen Saturation from 1992 - 2023, based on the analysis of 797 samples.

## Salinity

Here, we present the analysis of Salinity trends at the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve. A clear No significant trend in Salinity was observed from 1992 - 2023, according to data from 8369 samples.

## Secchi Depth

The following table highlights the significant trends in Secchi Depth within the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve. Over the course of 1992 - 2023, a No significant trend was detected in Secchi Depth, supported by 1889 samples.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve over the study period. An analysis over 1997 - 2023 revealed a Significantly decreasing trend in Total Nitrogen levels, with1008 samples contributing to this finding.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve. A clear No significant trend in Total Phosphorus was observed from 1997 - 2023, according to data from 2075 samples.

## Total Suspended Solids

The following table highlights the significant trends in Total Suspended Solids within the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve. The data indicate a Significantly decreasing trend in Total Suspended Solids from 1997 - 2023, based on the analysis of 854 samples.

## Turbidity

Here, we present the analysis of Turbidity trends at the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve. A clear No significant trend in Turbidity was observed from 1995 - 2023, according to data from 3923 samples.

## Water Temperature

The data reveals notable changes in Water Temperature in the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve over the study period. A clear Significantly increasing trend in Water Temperature was observed from 1992 - 2023, according to data from 8401 samples.

## pH

Here, we present the analysis of pH trends at the Indian River-Vero Beach to Ft. Pierce Aquatic Preserve. Over the course of 1992 - 2023, a Significantly decreasing trend was detected in pH, supported by 5704 samples.

# Jensen Beach to Jupiter Inlet Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Corrected for Pheophytin trends at the Jensen Beach to Jupiter Inlet Aquatic Preserve. An analysis over 2002 - 2023 revealed a No significant trend in Chlorophyll a, Corrected for Pheophytin levels, with237 samples contributing to this finding.

## Chlorophyll a, Uncorrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Uncorrected for Pheophytin trends at the Jensen Beach to Jupiter Inlet Aquatic Preserve. A clear Significantly decreasing trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 1997 - 2023, according to data from 319 samples.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Jensen Beach to Jupiter Inlet Aquatic Preserve. The data indicate a Significantly increasing trend in Dissolved Oxygen from 1972 - 2023, based on the analysis of 9613 samples.

## Dissolved Oxygen Saturation

This table outlines a key observation related to Dissolved Oxygen Saturation levels in the Jensen Beach to Jupiter Inlet Aquatic Preserve. The data indicate a Significantly increasing trend in Dissolved Oxygen Saturation from 1993 - 2023, based on the analysis of 3923 samples.

## Salinity

This table outlines a key observation related to Salinity levels in the Jensen Beach to Jupiter Inlet Aquatic Preserve. Over the course of 1972 - 2023, a Significantly increasing trend was detected in Salinity, supported by 9503 samples.

## Secchi Depth

Here, we present the analysis of Secchi Depth trends at the Jensen Beach to Jupiter Inlet Aquatic Preserve. Over the course of 1993 - 2023, a No significant trend was detected in Secchi Depth, supported by 5231 samples.

## Total Nitrogen

The following table highlights the significant trends in Total Nitrogen within the Jensen Beach to Jupiter Inlet Aquatic Preserve. Over the course of 2000 - 2023, a No significant trend was detected in Total Nitrogen, supported by 486 samples.

## Total Phosphorus

The data reveals notable changes in Total Phosphorus in the Jensen Beach to Jupiter Inlet Aquatic Preserve over the study period. The data indicate a Significantly decreasing trend in Total Phosphorus from 1991 - 2023, based on the analysis of 900 samples.

## Total Suspended Solids

This table outlines a key observation related to Total Suspended Solids levels in the Jensen Beach to Jupiter Inlet Aquatic Preserve. Over the course of 1994 - 2023, a No significant trend was detected in Total Suspended Solids, supported by 968 samples.

## Turbidity

This table outlines a key observation related to Turbidity levels in the Jensen Beach to Jupiter Inlet Aquatic Preserve. Over the course of 1991 - 2023, a No significant trend was detected in Turbidity, supported by 632 samples.

## Water Temperature

Here, we present the analysis of Water Temperature trends at the Jensen Beach to Jupiter Inlet Aquatic Preserve. A clear Significantly increasing trend in Water Temperature was observed from 1972 - 2023, according to data from 9441 samples.

## pH

The data reveals notable changes in pH in the Jensen Beach to Jupiter Inlet Aquatic Preserve over the study period. An analysis over 1972 - 2023 revealed a Significantly decreasing trend in pH levels, with8638 samples contributing to this finding.

# Lemon Bay Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Corrected for Pheophytin trends at the Lemon Bay Aquatic Preserve. The data indicate a Significantly decreasing trend in Chlorophyll a, Corrected for Pheophytin from 1998 - 2023, based on the analysis of 482 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Uncorrected for Pheophytin in the Lemon Bay Aquatic Preserve over the study period. An analysis over 1999 - 2023 revealed a Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin levels, with405 samples contributing to this finding.

## Dissolved Oxygen

Here, we present the analysis of Dissolved Oxygen trends at the Lemon Bay Aquatic Preserve. An analysis over 1971 - 2023 revealed a Significantly decreasing trend in Dissolved Oxygen levels, with11301 samples contributing to this finding.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Lemon Bay Aquatic Preserve. An analysis over 1998 - 2023 revealed a Significantly decreasing trend in Dissolved Oxygen Saturation levels, with4305 samples contributing to this finding.

## Salinity

The data reveals notable changes in Salinity in the Lemon Bay Aquatic Preserve over the study period. An analysis over 1954 - 2023 revealed a Significantly decreasing trend in Salinity levels, with8646 samples contributing to this finding.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the Lemon Bay Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Secchi Depth from 1995 - 2023, based on the analysis of 1737 samples.

## Total Nitrogen

This table outlines a key observation related to Total Nitrogen levels in the Lemon Bay Aquatic Preserve. Over the course of 1995 - 2023, a No significant trend was detected in Total Nitrogen, supported by 1802 samples.

## Total Phosphorus

The data reveals notable changes in Total Phosphorus in the Lemon Bay Aquatic Preserve over the study period. The data indicate a Significantly decreasing trend in Total Phosphorus from 1995 - 2023, based on the analysis of 1987 samples.

## Total Suspended Solids

Here, we present the analysis of Total Suspended Solids trends at the Lemon Bay Aquatic Preserve. Over the course of 1995 - 2021, a No significant trend was detected in Total Suspended Solids, supported by 716 samples.

## Turbidity

The following table highlights the significant trends in Turbidity within the Lemon Bay Aquatic Preserve. A clear No significant trend in Turbidity was observed from 1995 - 2023, according to data from 4729 samples.

## Water Temperature

The data reveals notable changes in Water Temperature in the Lemon Bay Aquatic Preserve over the study period. Over the course of 1954 - 2023, a Significantly increasing trend was detected in Water Temperature, supported by 12347 samples.

## pH

This table outlines a key observation related to pH levels in the Lemon Bay Aquatic Preserve. A clear Significantly decreasing trend in pH was observed from 1955 - 2023, according to data from 9571 samples.

# Loxahatchee River-Lake Worth Creek Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Corrected for Pheophytin within the Loxahatchee River-Lake Worth Creek Aquatic Preserve. A clear No significant trend in Chlorophyll a, Corrected for Pheophytin was observed from 2001 - 2023, according to data from 2780 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Uncorrected for Pheophytin in the Loxahatchee River-Lake Worth Creek Aquatic Preserve over the study period. Over the course of 1997 - 2023, a No significant trend was detected in Chlorophyll a, Uncorrected for Pheophytin, supported by 3805 samples.

## Colored Dissolved Organic Matter

The data reveals notable changes in Colored Dissolved Organic Matter in the Loxahatchee River-Lake Worth Creek Aquatic Preserve over the study period. Over the course of 2001 - 2023, a Significantly increasing trend was detected in Colored Dissolved Organic Matter, supported by 607 samples.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Loxahatchee River-Lake Worth Creek Aquatic Preserve. An analysis over 1991 - 2023 revealed a Significantly decreasing trend in Dissolved Oxygen levels, with8713 samples contributing to this finding.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Loxahatchee River-Lake Worth Creek Aquatic Preserve. Over the course of 1995 - 2023, a Significantly decreasing trend was detected in Dissolved Oxygen Saturation, supported by 7160 samples.

## Salinity

The data reveals notable changes in Salinity in the Loxahatchee River-Lake Worth Creek Aquatic Preserve over the study period. A clear No significant trend in Salinity was observed from 1972 - 2023, according to data from 7669 samples.

## Secchi Depth

This table outlines a key observation related to Secchi Depth levels in the Loxahatchee River-Lake Worth Creek Aquatic Preserve. The data indicate a Significantly increasing trend in Secchi Depth from 1994 - 2023, based on the analysis of 3795 samples.

## Total Nitrogen

This table outlines a key observation related to Total Nitrogen levels in the Loxahatchee River-Lake Worth Creek Aquatic Preserve. The data indicate a Significantly decreasing trend in Total Nitrogen from 1991 - 2023, based on the analysis of 3321 samples.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the Loxahatchee River-Lake Worth Creek Aquatic Preserve. The data indicate a No significant trend in Total Phosphorus from 1991 - 2023, based on the analysis of 4263 samples.

## Total Suspended Solids

Here, we present the analysis of Total Suspended Solids trends at the Loxahatchee River-Lake Worth Creek Aquatic Preserve. Over the course of 1994 - 2023, a No significant trend was detected in Total Suspended Solids, supported by 3751 samples.

## Turbidity

The data reveals notable changes in Turbidity in the Loxahatchee River-Lake Worth Creek Aquatic Preserve over the study period. An analysis over 1991 - 2023 revealed a Significantly increasing trend in Turbidity levels, with3951 samples contributing to this finding.

## Water Temperature

The following table highlights the significant trends in Water Temperature within the Loxahatchee River-Lake Worth Creek Aquatic Preserve. A clear Significantly increasing trend in Water Temperature was observed from 1972 - 2023, according to data from 6480 samples.

## pH

This table outlines a key observation related to pH levels in the Loxahatchee River-Lake Worth Creek Aquatic Preserve. The data indicate a No significant trend in pH from 1991 - 2023, based on the analysis of 8413 samples.

# Matlacha Pass Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Corrected for Pheophytin levels in the Matlacha Pass Aquatic Preserve. An analysis over 2002 - 2023 revealed a No significant trend in Chlorophyll a, Corrected for Pheophytin levels, with1099 samples contributing to this finding.

## Chlorophyll a, Uncorrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Uncorrected for Pheophytin trends at the Matlacha Pass Aquatic Preserve. Over the course of 1999 - 2023, a Significantly increasing trend was detected in Chlorophyll a, Uncorrected for Pheophytin, supported by 385 samples.

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the Matlacha Pass Aquatic Preserve. An analysis over 1989 - 2023 revealed a Significantly decreasing trend in Dissolved Oxygen levels, with8761 samples contributing to this finding.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Matlacha Pass Aquatic Preserve. Over the course of 2007 - 2023, a No significant trend was detected in Dissolved Oxygen Saturation, supported by 768 samples.

## Salinity

The data reveals notable changes in Salinity in the Matlacha Pass Aquatic Preserve over the study period. A clear No significant trend in Salinity was observed from 1954 - 2023, according to data from 7937 samples.

## Secchi Depth

Here, we present the analysis of Secchi Depth trends at the Matlacha Pass Aquatic Preserve. Over the course of 1994 - 2023, a Significantly increasing trend was detected in Secchi Depth, supported by 4773 samples.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Matlacha Pass Aquatic Preserve over the study period. A clear Significantly increasing trend in Total Nitrogen was observed from 1996 - 2023, according to data from 1606 samples.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the Matlacha Pass Aquatic Preserve. The data indicate a Significantly increasing trend in Total Phosphorus from 1998 - 2023, based on the analysis of 1278 samples.

## Total Suspended Solids

The following table highlights the significant trends in Total Suspended Solids within the Matlacha Pass Aquatic Preserve. A clear No significant trend in Total Suspended Solids was observed from 2003 - 2023, according to data from 844 samples.

## Turbidity

Here, we present the analysis of Turbidity trends at the Matlacha Pass Aquatic Preserve. The data indicate a No significant trend in Turbidity from 1995 - 2023, based on the analysis of 2152 samples.

## Water Temperature

Here, we present the analysis of Water Temperature trends at the Matlacha Pass Aquatic Preserve. Over the course of 1954 - 2023, a No significant trend was detected in Water Temperature, supported by 8903 samples.

## pH

This table outlines a key observation related to pH levels in the Matlacha Pass Aquatic Preserve. Over the course of 1989 - 2023, a No significant trend was detected in pH, supported by 8082 samples.

# Nassau River-St. Johns River Marshes Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Corrected for Pheophytin levels in the Nassau River-St. Johns River Marshes Aquatic Preserve. Over the course of 2001 - 2023, a Significantly increasing trend was detected in Chlorophyll a, Corrected for Pheophytin, supported by 554 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Uncorrected for Pheophytin within the Nassau River-St. Johns River Marshes Aquatic Preserve. A clear No significant trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 2004 - 2023, according to data from 382 samples.

## Dissolved Oxygen

Here, we present the analysis of Dissolved Oxygen trends at the Nassau River-St. Johns River Marshes Aquatic Preserve. The data indicate a Significantly decreasing trend in Dissolved Oxygen from 1982 - 2024, based on the analysis of 35029 samples.

## Dissolved Oxygen Saturation

This table outlines a key observation related to Dissolved Oxygen Saturation levels in the Nassau River-St. Johns River Marshes Aquatic Preserve. Over the course of 2000 - 2024, a No significant trend was detected in Dissolved Oxygen Saturation, supported by 1081 samples.

## Salinity

Here, we present the analysis of Salinity trends at the Nassau River-St. Johns River Marshes Aquatic Preserve. A clear No significant trend in Salinity was observed from 1980 - 2024, according to data from 16861 samples.

## Secchi Depth

This table outlines a key observation related to Secchi Depth levels in the Nassau River-St. Johns River Marshes Aquatic Preserve. A clear Significantly decreasing trend in Secchi Depth was observed from 1982 - 2024, according to data from 14622 samples.

## Total Nitrogen

The following table highlights the significant trends in Total Nitrogen within the Nassau River-St. Johns River Marshes Aquatic Preserve. An analysis over 1988 - 2023 revealed a No significant trend in Total Nitrogen levels, with897 samples contributing to this finding.

## Total Phosphorus

The following table highlights the significant trends in Total Phosphorus within the Nassau River-St. Johns River Marshes Aquatic Preserve. An analysis over 1983 - 2023 revealed a Significantly decreasing trend in Total Phosphorus levels, with1618 samples contributing to this finding.

## Total Suspended Solids

This table outlines a key observation related to Total Suspended Solids levels in the Nassau River-St. Johns River Marshes Aquatic Preserve. A clear No significant trend in Total Suspended Solids was observed from 1997 - 2023, according to data from 700 samples.

## Turbidity

This table outlines a key observation related to Turbidity levels in the Nassau River-St. Johns River Marshes Aquatic Preserve. Over the course of 1997 - 2023, a Significantly increasing trend was detected in Turbidity, supported by 820 samples.

## Water Temperature

The following table highlights the significant trends in Water Temperature within the Nassau River-St. Johns River Marshes Aquatic Preserve. The data indicate a Significantly increasing trend in Water Temperature from 1982 - 2024, based on the analysis of 36605 samples.

## pH

Here, we present the analysis of pH trends at the Nassau River-St. Johns River Marshes Aquatic Preserve. Over the course of 1982 - 2024, a Significantly increasing trend was detected in pH, supported by 25407 samples.

# North Fork St. Lucie Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Corrected for Pheophytin within the North Fork St. Lucie Aquatic Preserve. An analysis over 2002 - 2022 revealed a No significant trend in Chlorophyll a, Corrected for Pheophytin levels, with340 samples contributing to this finding.

## Chlorophyll a, Uncorrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Uncorrected for Pheophytin within the North Fork St. Lucie Aquatic Preserve. A clear No significant trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 1999 - 2022, according to data from 374 samples.

## Dissolved Oxygen

Here, we present the analysis of Dissolved Oxygen trends at the North Fork St. Lucie Aquatic Preserve. A clear Significantly decreasing trend in Dissolved Oxygen was observed from 1989 - 2023, according to data from 5937 samples.

## Salinity

The following table highlights the significant trends in Salinity within the North Fork St. Lucie Aquatic Preserve. The data indicate a Significantly decreasing trend in Salinity from 1994 - 2023, based on the analysis of 5436 samples.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the North Fork St. Lucie Aquatic Preserve over the study period. An analysis over 1996 - 2023 revealed a No significant trend in Secchi Depth levels, with1610 samples contributing to this finding.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the North Fork St. Lucie Aquatic Preserve over the study period. Over the course of 1999 - 2023, a No significant trend was detected in Total Nitrogen, supported by 528 samples.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the North Fork St. Lucie Aquatic Preserve. The data indicate a Significantly decreasing trend in Total Phosphorus from 1999 - 2023, based on the analysis of 989 samples.

## Total Suspended Solids

The following table highlights the significant trends in Total Suspended Solids within the North Fork St. Lucie Aquatic Preserve. A clear No significant trend in Total Suspended Solids was observed from 1999 - 2023, according to data from 975 samples.

## Turbidity

The following table highlights the significant trends in Turbidity within the North Fork St. Lucie Aquatic Preserve. An analysis over 1999 - 2023 revealed a No significant trend in Turbidity levels, with484 samples contributing to this finding.

## Water Temperature

This table outlines a key observation related to Water Temperature levels in the North Fork St. Lucie Aquatic Preserve. Over the course of 1989 - 2023, a Significantly increasing trend was detected in Water Temperature, supported by 6076 samples.

## pH

The data reveals notable changes in pH in the North Fork St. Lucie Aquatic Preserve over the study period. The data indicate a Significantly decreasing trend in pH from 1989 - 2023, based on the analysis of 6010 samples.

# Pellicer Creek Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Corrected for Pheophytin levels in the Pellicer Creek Aquatic Preserve. A clear No significant trend in Chlorophyll a, Corrected for Pheophytin was observed from 2002 - 2021, according to data from 3913 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Uncorrected for Pheophytin in the Pellicer Creek Aquatic Preserve over the study period. An analysis over 2002 - 2021 revealed a No significant trend in Chlorophyll a, Uncorrected for Pheophytin levels, with3008 samples contributing to this finding.

## Dissolved Oxygen

The data reveals notable changes in Dissolved Oxygen in the Pellicer Creek Aquatic Preserve over the study period. The data indicate a No significant trend in Dissolved Oxygen from 2002 - 2022, based on the analysis of 1700 samples.

## Dissolved Oxygen Saturation

The data reveals notable changes in Dissolved Oxygen Saturation in the Pellicer Creek Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Dissolved Oxygen Saturation from 2004 - 2022, based on the analysis of 159 samples.

## Salinity

The following table highlights the significant trends in Salinity within the Pellicer Creek Aquatic Preserve. A clear No significant trend in Salinity was observed from 2002 - 2022, according to data from 2465 samples.

## Secchi Depth

This table outlines a key observation related to Secchi Depth levels in the Pellicer Creek Aquatic Preserve. An analysis over 2002 - 2022 revealed a No significant trend in Secchi Depth levels, with374 samples contributing to this finding.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Pellicer Creek Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Total Nitrogen from 2002 - 2021, based on the analysis of 1863 samples.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the Pellicer Creek Aquatic Preserve. The data indicate a No significant trend in Total Phosphorus from 2002 - 2021, based on the analysis of 2946 samples.

## Total Suspended Solids

Here, we present the analysis of Total Suspended Solids trends at the Pellicer Creek Aquatic Preserve. Over the course of 2005 - 2021, a No significant trend was detected in Total Suspended Solids, supported by 1219 samples.

## Water Temperature

The following table highlights the significant trends in Water Temperature within the Pellicer Creek Aquatic Preserve. An analysis over 2002 - 2022 revealed a No significant trend in Water Temperature levels, with1760 samples contributing to this finding.

## pH

This table outlines a key observation related to pH levels in the Pellicer Creek Aquatic Preserve. Over the course of 2002 - 2022, a Significantly decreasing trend was detected in pH, supported by 1692 samples.

# Pine Island Sound Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Corrected for Pheophytin in the Pine Island Sound Aquatic Preserve over the study period. Over the course of 2001 - 2023, a No significant trend was detected in Chlorophyll a, Corrected for Pheophytin, supported by 2027 samples.

## Chlorophyll a, Uncorrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Uncorrected for Pheophytin trends at the Pine Island Sound Aquatic Preserve. A clear No significant trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 1999 - 2023, according to data from 959 samples.

## Colored Dissolved Organic Matter

Here, we present the analysis of Colored Dissolved Organic Matter trends at the Pine Island Sound Aquatic Preserve. An analysis over 2001 - 2023 revealed a No significant trend in Colored Dissolved Organic Matter levels, with1179 samples contributing to this finding.

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the Pine Island Sound Aquatic Preserve. An analysis over 1985 - 2023 revealed a Significantly decreasing trend in Dissolved Oxygen levels, with27988 samples contributing to this finding.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Pine Island Sound Aquatic Preserve. Over the course of 2014 - 2023, a Significantly increasing trend was detected in Dissolved Oxygen Saturation, supported by 1780 samples.

## Salinity

This table outlines a key observation related to Salinity levels in the Pine Island Sound Aquatic Preserve. The data indicate a Significantly decreasing trend in Salinity from 1954 - 2023, based on the analysis of 26638 samples.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the Pine Island Sound Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Secchi Depth from 1994 - 2023, based on the analysis of 16231 samples.

## Total Nitrogen

The following table highlights the significant trends in Total Nitrogen within the Pine Island Sound Aquatic Preserve. The data indicate a Significantly increasing trend in Total Nitrogen from 1995 - 2023, based on the analysis of 4100 samples.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the Pine Island Sound Aquatic Preserve. The data indicate a No significant trend in Total Phosphorus from 1998 - 2023, based on the analysis of 2649 samples.

## Total Suspended Solids

Here, we present the analysis of Total Suspended Solids trends at the Pine Island Sound Aquatic Preserve. An analysis over 1987 - 2023 revealed a No significant trend in Total Suspended Solids levels, with2520 samples contributing to this finding.

## Turbidity

Here, we present the analysis of Turbidity trends at the Pine Island Sound Aquatic Preserve. Over the course of 1995 - 2023, a No significant trend was detected in Turbidity, supported by 5445 samples.

## Water Temperature

This table outlines a key observation related to Water Temperature levels in the Pine Island Sound Aquatic Preserve. An analysis over 1954 - 2023 revealed a Significantly increasing trend in Water Temperature levels, with29796 samples contributing to this finding.

## pH

This table outlines a key observation related to pH levels in the Pine Island Sound Aquatic Preserve. Over the course of 1955 - 2023, a No significant trend was detected in pH, supported by 25506 samples.

# Pinellas County Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Corrected for Pheophytin trends at the Pinellas County Aquatic Preserve. The data indicate a No significant trend in Chlorophyll a, Corrected for Pheophytin from 2000 - 2023, based on the analysis of 3048 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Uncorrected for Pheophytin within the Pinellas County Aquatic Preserve. The data indicate a Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin from 1999 - 2023, based on the analysis of 6190 samples.

## Colored Dissolved Organic Matter

The data reveals notable changes in Colored Dissolved Organic Matter in the Pinellas County Aquatic Preserve over the study period. An analysis over 2001 - 2023 revealed a Significantly increasing trend in Colored Dissolved Organic Matter levels, with828 samples contributing to this finding.

## Dissolved Oxygen

Here, we present the analysis of Dissolved Oxygen trends at the Pinellas County Aquatic Preserve. Over the course of 1974 - 2023, a No significant trend was detected in Dissolved Oxygen, supported by 90162 samples.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Pinellas County Aquatic Preserve. Over the course of 1992 - 2023, a Significantly increasing trend was detected in Dissolved Oxygen Saturation, supported by 29352 samples.

## Salinity

This table outlines a key observation related to Salinity levels in the Pinellas County Aquatic Preserve. The data indicate a Significantly decreasing trend in Salinity from 1954 - 2023, based on the analysis of 87672 samples.

## Secchi Depth

Here, we present the analysis of Secchi Depth trends at the Pinellas County Aquatic Preserve. The data indicate a Significantly increasing trend in Secchi Depth from 1994 - 2023, based on the analysis of 25859 samples.

## Total Nitrogen

Here, we present the analysis of Total Nitrogen trends at the Pinellas County Aquatic Preserve. A clear Significantly decreasing trend in Total Nitrogen was observed from 1999 - 2023, according to data from 15524 samples.

## Total Phosphorus

The following table highlights the significant trends in Total Phosphorus within the Pinellas County Aquatic Preserve. The data indicate a No significant trend in Total Phosphorus from 1999 - 2023, based on the analysis of 15236 samples.

## Total Suspended Solids

This table outlines a key observation related to Total Suspended Solids levels in the Pinellas County Aquatic Preserve. Over the course of 2000 - 2023, a Significantly decreasing trend was detected in Total Suspended Solids, supported by 11748 samples.

## Turbidity

The following table highlights the significant trends in Turbidity within the Pinellas County Aquatic Preserve. The data indicate a No significant trend in Turbidity from 1995 - 2023, based on the analysis of 20740 samples.

## Water Temperature

The following table highlights the significant trends in Water Temperature within the Pinellas County Aquatic Preserve. A clear Significantly increasing trend in Water Temperature was observed from 1954 - 2023, according to data from 95789 samples.

## pH

This table outlines a key observation related to pH levels in the Pinellas County Aquatic Preserve. A clear Significantly decreasing trend in pH was observed from 1955 - 2023, according to data from 85325 samples.

# Rocky Bayou State Park Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Corrected for Pheophytin levels in the Rocky Bayou State Park Aquatic Preserve. An analysis over 2012 - 2023 revealed a Significantly decreasing trend in Chlorophyll a, Corrected for Pheophytin levels, with110 samples contributing to this finding.

## Chlorophyll a, Uncorrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Uncorrected for Pheophytin trends at the Rocky Bayou State Park Aquatic Preserve. The data indicate a No significant trend in Chlorophyll a, Uncorrected for Pheophytin from 2001 - 2023, based on the analysis of 459 samples.

## Colored Dissolved Organic Matter

This table outlines a key observation related to Colored Dissolved Organic Matter levels in the Rocky Bayou State Park Aquatic Preserve. An analysis over 2001 - 2023 revealed a No significant trend in Colored Dissolved Organic Matter levels, with129 samples contributing to this finding.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Rocky Bayou State Park Aquatic Preserve. A clear Significantly increasing trend in Dissolved Oxygen was observed from 1994 - 2022, according to data from 642 samples.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Rocky Bayou State Park Aquatic Preserve. The data indicate a Significantly increasing trend in Dissolved Oxygen Saturation from 2000 - 2022, based on the analysis of 610 samples.

## Salinity

This table outlines a key observation related to Salinity levels in the Rocky Bayou State Park Aquatic Preserve. The data indicate a No significant trend in Salinity from 1994 - 2022, based on the analysis of 629 samples.

## Secchi Depth

Here, we present the analysis of Secchi Depth trends at the Rocky Bayou State Park Aquatic Preserve. The data indicate a Significantly decreasing trend in Secchi Depth from 1995 - 2023, based on the analysis of 466 samples.

## Total Nitrogen

Here, we present the analysis of Total Nitrogen trends at the Rocky Bayou State Park Aquatic Preserve. A clear Significantly increasing trend in Total Nitrogen was observed from 2001 - 2023, according to data from 639 samples.

## Total Phosphorus

The data reveals notable changes in Total Phosphorus in the Rocky Bayou State Park Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Total Phosphorus from 2001 - 2023, based on the analysis of 470 samples.

## Turbidity

The following table highlights the significant trends in Turbidity within the Rocky Bayou State Park Aquatic Preserve. Over the course of 2008 - 2018, a Significantly decreasing trend was detected in Turbidity, supported by 221 samples.

## Water Temperature

The data reveals notable changes in Water Temperature in the Rocky Bayou State Park Aquatic Preserve over the study period. The data indicate a No significant trend in Water Temperature from 1994 - 2022, based on the analysis of 334 samples.

## pH

The data reveals notable changes in pH in the Rocky Bayou State Park Aquatic Preserve over the study period. Over the course of 1994 - 2022, a No significant trend was detected in pH, supported by 638 samples.

# Rookery Bay Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Corrected for Pheophytin within the Rookery Bay Aquatic Preserve. An analysis over 2002 - 2023 revealed a No significant trend in Chlorophyll a, Corrected for Pheophytin levels, with94 samples contributing to this finding.

## Chlorophyll a, Uncorrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Uncorrected for Pheophytin levels in the Rookery Bay Aquatic Preserve. An analysis over 1999 - 2023 revealed a No significant trend in Chlorophyll a, Uncorrected for Pheophytin levels, with1701 samples contributing to this finding.

## Colored Dissolved Organic Matter

Here, we present the analysis of Colored Dissolved Organic Matter trends at the Rookery Bay Aquatic Preserve. The data indicate a No significant trend in Colored Dissolved Organic Matter from 2001 - 2021, based on the analysis of 183 samples.

## Dissolved Oxygen

The data reveals notable changes in Dissolved Oxygen in the Rookery Bay Aquatic Preserve over the study period. A clear Significantly decreasing trend in Dissolved Oxygen was observed from 1989 - 2023, according to data from 3868 samples.

## Dissolved Oxygen Saturation

This table outlines a key observation related to Dissolved Oxygen Saturation levels in the Rookery Bay Aquatic Preserve. Over the course of 1998 - 2023, a No significant trend was detected in Dissolved Oxygen Saturation, supported by 154 samples.

## Salinity

Here, we present the analysis of Salinity trends at the Rookery Bay Aquatic Preserve. Over the course of 1954 - 2023, a No significant trend was detected in Salinity, supported by 5247 samples.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the Rookery Bay Aquatic Preserve over the study period. Over the course of 1998 - 2023, a No significant trend was detected in Secchi Depth, supported by 410 samples.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Rookery Bay Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Total Nitrogen from 1989 - 2023, based on the analysis of 2541 samples.

## Total Phosphorus

The data reveals notable changes in Total Phosphorus in the Rookery Bay Aquatic Preserve over the study period. An analysis over 1999 - 2023 revealed a No significant trend in Total Phosphorus levels, with2036 samples contributing to this finding.

## Total Suspended Solids

The data reveals notable changes in Total Suspended Solids in the Rookery Bay Aquatic Preserve over the study period. The data indicate a Significantly decreasing trend in Total Suspended Solids from 1989 - 2021, based on the analysis of 151 samples.

## Turbidity

This table outlines a key observation related to Turbidity levels in the Rookery Bay Aquatic Preserve. An analysis over 1989 - 2023 revealed a Significantly increasing trend in Turbidity levels, with1821 samples contributing to this finding.

## Water Temperature

The following table highlights the significant trends in Water Temperature within the Rookery Bay Aquatic Preserve. The data indicate a Significantly increasing trend in Water Temperature from 1954 - 2023, based on the analysis of 4503 samples.

## pH

The following table highlights the significant trends in pH within the Rookery Bay Aquatic Preserve. Over the course of 1955 - 2023, a Significantly decreasing trend was detected in pH, supported by 1849 samples.

# Rookery Bay National Estuarine Research Reserve

## Chlorophyll a, Corrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Corrected for Pheophytin in the Rookery Bay National Estuarine Research Reserve over the study period. The data indicate a No significant trend in Chlorophyll a, Corrected for Pheophytin from 2002 - 2023, based on the analysis of 199 samples.

## Chlorophyll a, Uncorrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Uncorrected for Pheophytin levels in the Rookery Bay National Estuarine Research Reserve. A clear Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 1994 - 2023, according to data from 3345 samples.

## Colored Dissolved Organic Matter

The data reveals notable changes in Colored Dissolved Organic Matter in the Rookery Bay National Estuarine Research Reserve over the study period. An analysis over 2001 - 2017 revealed a No significant trend in Colored Dissolved Organic Matter levels, with193 samples contributing to this finding.

## Dissolved Oxygen

The data reveals notable changes in Dissolved Oxygen in the Rookery Bay National Estuarine Research Reserve over the study period. Over the course of 1989 - 2023, a Significantly decreasing trend was detected in Dissolved Oxygen, supported by 14009 samples.

## Dissolved Oxygen Saturation

Here, we present the analysis of Dissolved Oxygen Saturation trends at the Rookery Bay National Estuarine Research Reserve. A clear Significantly decreasing trend in Dissolved Oxygen Saturation was observed from 1998 - 2023, according to data from 260 samples.

## Salinity

Here, we present the analysis of Salinity trends at the Rookery Bay National Estuarine Research Reserve. A clear Significantly decreasing trend in Salinity was observed from 1954 - 2023, according to data from 16711 samples.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the Rookery Bay National Estuarine Research Reserve over the study period. Over the course of 1998 - 2023, a Significantly decreasing trend was detected in Secchi Depth, supported by 694 samples.

## Total Nitrogen

The following table highlights the significant trends in Total Nitrogen within the Rookery Bay National Estuarine Research Reserve. The data indicate a No significant trend in Total Nitrogen from 1989 - 2023, based on the analysis of 4433 samples.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the Rookery Bay National Estuarine Research Reserve. The data indicate a No significant trend in Total Phosphorus from 1994 - 2023, based on the analysis of 4030 samples.

## Total Suspended Solids

This table outlines a key observation related to Total Suspended Solids levels in the Rookery Bay National Estuarine Research Reserve. Over the course of 1989 - 2017, a Significantly increasing trend was detected in Total Suspended Solids, supported by 358 samples.

## Turbidity

The following table highlights the significant trends in Turbidity within the Rookery Bay National Estuarine Research Reserve. Over the course of 1989 - 2023, a Significantly increasing trend was detected in Turbidity, supported by 6322 samples.

## Water Temperature

The data reveals notable changes in Water Temperature in the Rookery Bay National Estuarine Research Reserve over the study period. An analysis over 1954 - 2023 revealed a Significantly increasing trend in Water Temperature levels, with15440 samples contributing to this finding.

## pH

Here, we present the analysis of pH trends at the Rookery Bay National Estuarine Research Reserve. An analysis over 1955 - 2023 revealed a Significantly decreasing trend in pH levels, with6352 samples contributing to this finding.

# St. Andrews State Park Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Corrected for Pheophytin levels in the St. Andrews State Park Aquatic Preserve. Over the course of 2003 - 2023, a No significant trend was detected in Chlorophyll a, Corrected for Pheophytin, supported by 801 samples.

## Chlorophyll a, Uncorrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Uncorrected for Pheophytin trends at the St. Andrews State Park Aquatic Preserve. Over the course of 1990 - 2023, a Significantly decreasing trend was detected in Chlorophyll a, Uncorrected for Pheophytin, supported by 1025 samples.

## Colored Dissolved Organic Matter

This table outlines a key observation related to Colored Dissolved Organic Matter levels in the St. Andrews State Park Aquatic Preserve. Over the course of 2001 - 2023, a No significant trend was detected in Colored Dissolved Organic Matter, supported by 148 samples.

## Dissolved Oxygen

The data reveals notable changes in Dissolved Oxygen in the St. Andrews State Park Aquatic Preserve over the study period. An analysis over 1996 - 2023 revealed a No significant trend in Dissolved Oxygen levels, with1888 samples contributing to this finding.

## Dissolved Oxygen Saturation

Here, we present the analysis of Dissolved Oxygen Saturation trends at the St. Andrews State Park Aquatic Preserve. The data indicate a No significant trend in Dissolved Oxygen Saturation from 2005 - 2023, based on the analysis of 477 samples.

## Salinity

The data reveals notable changes in Salinity in the St. Andrews State Park Aquatic Preserve over the study period. A clear Significantly decreasing trend in Salinity was observed from 1974 - 2023, according to data from 1766 samples.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the St. Andrews State Park Aquatic Preserve over the study period. An analysis over 1991 - 2023 revealed a Significantly decreasing trend in Secchi Depth levels, with1758 samples contributing to this finding.

## Total Nitrogen

The following table highlights the significant trends in Total Nitrogen within the St. Andrews State Park Aquatic Preserve. A clear Significantly increasing trend in Total Nitrogen was observed from 1990 - 2023, according to data from 1180 samples.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the St. Andrews State Park Aquatic Preserve. A clear Significantly increasing trend in Total Phosphorus was observed from 1990 - 2023, according to data from 897 samples.

## Total Suspended Solids

Here, we present the analysis of Total Suspended Solids trends at the St. Andrews State Park Aquatic Preserve. A clear Significantly decreasing trend in Total Suspended Solids was observed from 2003 - 2015, according to data from 248 samples.

## Turbidity

Here, we present the analysis of Turbidity trends at the St. Andrews State Park Aquatic Preserve. Over the course of 2003 - 2023, a Significantly decreasing trend was detected in Turbidity, supported by 179 samples.

## Water Temperature

The following table highlights the significant trends in Water Temperature within the St. Andrews State Park Aquatic Preserve. A clear No significant trend in Water Temperature was observed from 1974 - 2023, according to data from 1954 samples.

## pH

This table outlines a key observation related to pH levels in the St. Andrews State Park Aquatic Preserve. Over the course of 1998 - 2023, a No significant trend was detected in pH, supported by 1800 samples.

# St. Joseph Bay Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Corrected for Pheophytin in the St. Joseph Bay Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Chlorophyll a, Corrected for Pheophytin from 2008 - 2023, based on the analysis of 480 samples.

## Chlorophyll a, Uncorrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Uncorrected for Pheophytin levels in the St. Joseph Bay Aquatic Preserve. The data indicate a Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin from 2001 - 2023, based on the analysis of 1163 samples.

## Colored Dissolved Organic Matter

The data reveals notable changes in Colored Dissolved Organic Matter in the St. Joseph Bay Aquatic Preserve over the study period. An analysis over 2001 - 2023 revealed a Significantly increasing trend in Colored Dissolved Organic Matter levels, with360 samples contributing to this finding.

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the St. Joseph Bay Aquatic Preserve. A clear Significantly decreasing trend in Dissolved Oxygen was observed from 1991 - 2023, according to data from 5734 samples.

## Dissolved Oxygen Saturation

Here, we present the analysis of Dissolved Oxygen Saturation trends at the St. Joseph Bay Aquatic Preserve. An analysis over 2005 - 2023 revealed a No significant trend in Dissolved Oxygen Saturation levels, with278 samples contributing to this finding.

## Salinity

The data reveals notable changes in Salinity in the St. Joseph Bay Aquatic Preserve over the study period. An analysis over 1991 - 2023 revealed a Significantly decreasing trend in Salinity levels, with6359 samples contributing to this finding.

## Secchi Depth

Here, we present the analysis of Secchi Depth trends at the St. Joseph Bay Aquatic Preserve. Over the course of 1991 - 2023, a Significantly increasing trend was detected in Secchi Depth, supported by 1289 samples.

## Total Nitrogen

Here, we present the analysis of Total Nitrogen trends at the St. Joseph Bay Aquatic Preserve. An analysis over 2001 - 2023 revealed a Significantly increasing trend in Total Nitrogen levels, with1541 samples contributing to this finding.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the St. Joseph Bay Aquatic Preserve. An analysis over 2001 - 2023 revealed a Significantly increasing trend in Total Phosphorus levels, with1149 samples contributing to this finding.

## Turbidity

The data reveals notable changes in Turbidity in the St. Joseph Bay Aquatic Preserve over the study period. A clear No significant trend in Turbidity was observed from 1995 - 2023, according to data from 2587 samples.

## Water Temperature

Here, we present the analysis of Water Temperature trends at the St. Joseph Bay Aquatic Preserve. Over the course of 1991 - 2023, a Significantly decreasing trend was detected in Water Temperature, supported by 6604 samples.

## pH

Here, we present the analysis of pH trends at the St. Joseph Bay Aquatic Preserve. The data indicate a Significantly decreasing trend in pH from 1991 - 2023, based on the analysis of 3985 samples.

# St. Martins Marsh Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Corrected for Pheophytin within the St. Martins Marsh Aquatic Preserve. The data indicate a Significantly increasing trend in Chlorophyll a, Corrected for Pheophytin from 2012 - 2022, based on the analysis of 200 samples.

## Chlorophyll a, Uncorrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Uncorrected for Pheophytin levels in the St. Martins Marsh Aquatic Preserve. The data indicate a No significant trend in Chlorophyll a, Uncorrected for Pheophytin from 2000 - 2022, based on the analysis of 524 samples.

## Colored Dissolved Organic Matter

The data reveals notable changes in Colored Dissolved Organic Matter in the St. Martins Marsh Aquatic Preserve over the study period. Over the course of 1999 - 2023, a Significantly increasing trend was detected in Colored Dissolved Organic Matter, supported by 809 samples.

## Dissolved Oxygen

The data reveals notable changes in Dissolved Oxygen in the St. Martins Marsh Aquatic Preserve over the study period. The data indicate a Significantly decreasing trend in Dissolved Oxygen from 1991 - 2023, based on the analysis of 8320 samples.

## Salinity

The following table highlights the significant trends in Salinity within the St. Martins Marsh Aquatic Preserve. The data indicate a Significantly increasing trend in Salinity from 1980 - 2023, based on the analysis of 8994 samples.

## Secchi Depth

The following table highlights the significant trends in Secchi Depth within the St. Martins Marsh Aquatic Preserve. The data indicate a No significant trend in Secchi Depth from 1991 - 2022, based on the analysis of 688 samples.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the St. Martins Marsh Aquatic Preserve over the study period. A clear Significantly increasing trend in Total Nitrogen was observed from 1996 - 2022, according to data from 1167 samples.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the St. Martins Marsh Aquatic Preserve. Over the course of 1996 - 2022, a Significantly increasing trend was detected in Total Phosphorus, supported by 1220 samples.

## Total Suspended Solids

The data reveals notable changes in Total Suspended Solids in the St. Martins Marsh Aquatic Preserve over the study period. Over the course of 2005 - 2022, a No significant trend was detected in Total Suspended Solids, supported by 150 samples.

## Turbidity

The following table highlights the significant trends in Turbidity within the St. Martins Marsh Aquatic Preserve. An analysis over 1995 - 2022 revealed a No significant trend in Turbidity levels, with2967 samples contributing to this finding.

## Water Temperature

Here, we present the analysis of Water Temperature trends at the St. Martins Marsh Aquatic Preserve. The data indicate a Significantly increasing trend in Water Temperature from 1980 - 2023, based on the analysis of 8782 samples.

## pH

The data reveals notable changes in pH in the St. Martins Marsh Aquatic Preserve over the study period. A clear Significantly decreasing trend in pH was observed from 1991 - 2023, according to data from 4443 samples.

# Yellow River Marsh Aquatic Preserve

## Chlorophyll a, Corrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Corrected for Pheophytin trends at the Yellow River Marsh Aquatic Preserve. The data indicate a Significantly decreasing trend in Chlorophyll a, Corrected for Pheophytin from 2002 - 2022, based on the analysis of 123 samples.

## Chlorophyll a, Uncorrected for Pheophytin

The following table highlights the significant trends in Chlorophyll a, Uncorrected for Pheophytin within the Yellow River Marsh Aquatic Preserve. A clear No significant trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 2001 - 2022, according to data from 48 samples.

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the Yellow River Marsh Aquatic Preserve. An analysis over 1977 - 2023 revealed a No significant trend in Dissolved Oxygen levels, with892 samples contributing to this finding.

## Dissolved Oxygen Saturation

The data reveals notable changes in Dissolved Oxygen Saturation in the Yellow River Marsh Aquatic Preserve over the study period. An analysis over 2002 - 2023 revealed a No significant trend in Dissolved Oxygen Saturation levels, with114 samples contributing to this finding.

## Salinity

Here, we present the analysis of Salinity trends at the Yellow River Marsh Aquatic Preserve. The data indicate a No significant trend in Salinity from 1995 - 2023, based on the analysis of 1069 samples.

## Total Nitrogen

This table outlines a key observation related to Total Nitrogen levels in the Yellow River Marsh Aquatic Preserve. The data indicate a Significantly increasing trend in Total Nitrogen from 2001 - 2022, based on the analysis of 89 samples.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the Yellow River Marsh Aquatic Preserve. A clear Significantly increasing trend in Total Phosphorus was observed from 2001 - 2022, according to data from 82 samples.

## Turbidity

The following table highlights the significant trends in Turbidity within the Yellow River Marsh Aquatic Preserve. Over the course of 1995 - 2022, a No significant trend was detected in Turbidity, supported by 569 samples.

## Water Temperature

The data reveals notable changes in Water Temperature in the Yellow River Marsh Aquatic Preserve over the study period. The data indicate a No significant trend in Water Temperature from 1977 - 2023, based on the analysis of 1063 samples.

## pH

This table outlines a key observation related to pH levels in the Yellow River Marsh Aquatic Preserve. The data indicate a No significant trend in pH from 1977 - 2023, based on the analysis of 567 samples.

# Alligator Harbor Aquatic Preserve

## Chlorophyll a, Uncorrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Uncorrected for Pheophytin levels in the Alligator Harbor Aquatic Preserve. Over the course of 2001 - 2023, a Significantly increasing trend was detected in Chlorophyll a, Uncorrected for Pheophytin, supported by 1052 samples.

## Colored Dissolved Organic Matter

The data reveals notable changes in Colored Dissolved Organic Matter in the Alligator Harbor Aquatic Preserve over the study period. An analysis over 2001 - 2023 revealed a No significant trend in Colored Dissolved Organic Matter levels, with319 samples contributing to this finding.

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the Alligator Harbor Aquatic Preserve. A clear Significantly decreasing trend in Dissolved Oxygen was observed from 1998 - 2023, according to data from 7608 samples.

## Salinity

The following table highlights the significant trends in Salinity within the Alligator Harbor Aquatic Preserve. An analysis over 1996 - 2023 revealed a Significantly decreasing trend in Salinity levels, with8844 samples contributing to this finding.

## Secchi Depth

The following table highlights the significant trends in Secchi Depth within the Alligator Harbor Aquatic Preserve. A clear No significant trend in Secchi Depth was observed from 1998 - 2023, according to data from 2344 samples.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Alligator Harbor Aquatic Preserve over the study period. A clear No significant trend in Total Nitrogen was observed from 2001 - 2023, according to data from 1370 samples.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the Alligator Harbor Aquatic Preserve. A clear Significantly increasing trend in Total Phosphorus was observed from 2001 - 2023, according to data from 990 samples.

## Turbidity

Here, we present the analysis of Turbidity trends at the Alligator Harbor Aquatic Preserve. Over the course of 1998 - 2022, a Significantly decreasing trend was detected in Turbidity, supported by 3543 samples.

## Water Temperature

Here, we present the analysis of Water Temperature trends at the Alligator Harbor Aquatic Preserve. An analysis over 1996 - 2023 revealed a No significant trend in Water Temperature levels, with9103 samples contributing to this finding.

## pH

The following table highlights the significant trends in pH within the Alligator Harbor Aquatic Preserve. Over the course of 1998 - 2023, a Significantly decreasing trend was detected in pH, supported by 4735 samples.

# Boca Ciega Bay Aquatic Preserve

## Chlorophyll a, Uncorrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Uncorrected for Pheophytin in the Boca Ciega Bay Aquatic Preserve over the study period. A clear Significantly decreasing trend in Chlorophyll a, Uncorrected for Pheophytin was observed from 2000 - 2023, according to data from 514 samples.

## Dissolved Oxygen

Here, we present the analysis of Dissolved Oxygen trends at the Boca Ciega Bay Aquatic Preserve. A clear No significant trend in Dissolved Oxygen was observed from 1974 - 2023, according to data from 28291 samples.

## Dissolved Oxygen Saturation

The data reveals notable changes in Dissolved Oxygen Saturation in the Boca Ciega Bay Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Dissolved Oxygen Saturation from 1992 - 2023, based on the analysis of 7764 samples.

## Salinity

The following table highlights the significant trends in Salinity within the Boca Ciega Bay Aquatic Preserve. Over the course of 1954 - 2023, a No significant trend was detected in Salinity, supported by 25632 samples.

## Secchi Depth

This table outlines a key observation related to Secchi Depth levels in the Boca Ciega Bay Aquatic Preserve. The data indicate a Significantly increasing trend in Secchi Depth from 1994 - 2023, based on the analysis of 7998 samples.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Boca Ciega Bay Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Total Nitrogen from 1999 - 2023, based on the analysis of 2818 samples.

## Total Phosphorus

The following table highlights the significant trends in Total Phosphorus within the Boca Ciega Bay Aquatic Preserve. Over the course of 1999 - 2023, a No significant trend was detected in Total Phosphorus, supported by 2686 samples.

## Total Suspended Solids

The following table highlights the significant trends in Total Suspended Solids within the Boca Ciega Bay Aquatic Preserve. A clear Significantly decreasing trend in Total Suspended Solids was observed from 2002 - 2023, according to data from 2589 samples.

## Turbidity

The data reveals notable changes in Turbidity in the Boca Ciega Bay Aquatic Preserve over the study period. A clear Significantly increasing trend in Turbidity was observed from 1995 - 2023, according to data from 6887 samples.

## Water Temperature

Here, we present the analysis of Water Temperature trends at the Boca Ciega Bay Aquatic Preserve. An analysis over 1954 - 2023 revealed a Significantly increasing trend in Water Temperature levels, with28866 samples contributing to this finding.

## pH

The following table highlights the significant trends in pH within the Boca Ciega Bay Aquatic Preserve. Over the course of 1974 - 2023, a Significantly decreasing trend was detected in pH, supported by 25551 samples.

# Cape Romano-Ten Thousand Islands Aquatic Preserve

## Chlorophyll a, Uncorrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Uncorrected for Pheophytin trends at the Cape Romano-Ten Thousand Islands Aquatic Preserve. The data indicate a Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin from 1994 - 2021, based on the analysis of 1620 samples.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Cape Romano-Ten Thousand Islands Aquatic Preserve. An analysis over 1989 - 2023 revealed a No significant trend in Dissolved Oxygen levels, with10010 samples contributing to this finding.

## Salinity

The data reveals notable changes in Salinity in the Cape Romano-Ten Thousand Islands Aquatic Preserve over the study period. The data indicate a No significant trend in Salinity from 1956 - 2023, based on the analysis of 10916 samples.

## Total Nitrogen

The following table highlights the significant trends in Total Nitrogen within the Cape Romano-Ten Thousand Islands Aquatic Preserve. An analysis over 1989 - 2023 revealed a No significant trend in Total Nitrogen levels, with1808 samples contributing to this finding.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the Cape Romano-Ten Thousand Islands Aquatic Preserve. An analysis over 1994 - 2023 revealed a No significant trend in Total Phosphorus levels, with1796 samples contributing to this finding.

## Turbidity

This table outlines a key observation related to Turbidity levels in the Cape Romano-Ten Thousand Islands Aquatic Preserve. Over the course of 1989 - 2023, a Significantly increasing trend was detected in Turbidity, supported by 4619 samples.

## Water Temperature

The data reveals notable changes in Water Temperature in the Cape Romano-Ten Thousand Islands Aquatic Preserve over the study period. Over the course of 1956 - 2023, a No significant trend was detected in Water Temperature, supported by 10525 samples.

## pH

The following table highlights the significant trends in pH within the Cape Romano-Ten Thousand Islands Aquatic Preserve. An analysis over 1956 - 2023 revealed a Significantly decreasing trend in pH levels, with4208 samples contributing to this finding.

# Coupon Bight Aquatic Preserve

## Chlorophyll a, Uncorrected for Pheophytin

The data reveals notable changes in Chlorophyll a, Uncorrected for Pheophytin in the Coupon Bight Aquatic Preserve over the study period. The data indicate a Significantly increasing trend in Chlorophyll a, Uncorrected for Pheophytin from 1995 - 2023, based on the analysis of 159 samples.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Coupon Bight Aquatic Preserve. Over the course of 1995 - 2021, a No significant trend was detected in Dissolved Oxygen, supported by 144 samples.

## Dissolved Oxygen Saturation

Here, we present the analysis of Dissolved Oxygen Saturation trends at the Coupon Bight Aquatic Preserve. A clear No significant trend in Dissolved Oxygen Saturation was observed from 1995 - 2023, according to data from 169 samples.

## Salinity

The data reveals notable changes in Salinity in the Coupon Bight Aquatic Preserve over the study period. An analysis over 1995 - 2023 revealed a Significantly increasing trend in Salinity levels, with177 samples contributing to this finding.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Coupon Bight Aquatic Preserve over the study period. Over the course of 1995 - 2023, a Significantly increasing trend was detected in Total Nitrogen, supported by 134 samples.

## Total Phosphorus

The data reveals notable changes in Total Phosphorus in the Coupon Bight Aquatic Preserve over the study period. Over the course of 1995 - 2023, a Significantly increasing trend was detected in Total Phosphorus, supported by 151 samples.

## Water Temperature

This table outlines a key observation related to Water Temperature levels in the Coupon Bight Aquatic Preserve. A clear No significant trend in Water Temperature was observed from 1995 - 2023, according to data from 210 samples.

# Mosquito Lagoon Aquatic Preserve

## Chlorophyll a, Uncorrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Uncorrected for Pheophytin trends at the Mosquito Lagoon Aquatic Preserve. An analysis over 1991 - 2023 revealed a No significant trend in Chlorophyll a, Uncorrected for Pheophytin levels, with106 samples contributing to this finding.

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the Mosquito Lagoon Aquatic Preserve. Over the course of 1991 - 2023, a No significant trend was detected in Dissolved Oxygen, supported by 4713 samples.

## Dissolved Oxygen Saturation

Here, we present the analysis of Dissolved Oxygen Saturation trends at the Mosquito Lagoon Aquatic Preserve. Over the course of 2006 - 2023, a Significantly decreasing trend was detected in Dissolved Oxygen Saturation, supported by 423 samples.

## Salinity

Here, we present the analysis of Salinity trends at the Mosquito Lagoon Aquatic Preserve. An analysis over 1995 - 2023 revealed a Significantly increasing trend in Salinity levels, with5137 samples contributing to this finding.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the Mosquito Lagoon Aquatic Preserve over the study period. A clear Significantly increasing trend in Secchi Depth was observed from 2006 - 2023, according to data from 596 samples.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Mosquito Lagoon Aquatic Preserve over the study period. A clear Significantly decreasing trend in Total Nitrogen was observed from 1997 - 2023, according to data from 370 samples.

## Total Phosphorus

The following table highlights the significant trends in Total Phosphorus within the Mosquito Lagoon Aquatic Preserve. A clear Significantly increasing trend in Total Phosphorus was observed from 1991 - 2023, according to data from 825 samples.

## Total Suspended Solids

The data reveals notable changes in Total Suspended Solids in the Mosquito Lagoon Aquatic Preserve over the study period. The data indicate a Significantly decreasing trend in Total Suspended Solids from 1997 - 2023, based on the analysis of 402 samples.

## Turbidity

The following table highlights the significant trends in Turbidity within the Mosquito Lagoon Aquatic Preserve. A clear Significantly increasing trend in Turbidity was observed from 1995 - 2023, according to data from 3467 samples.

## Water Temperature

The following table highlights the significant trends in Water Temperature within the Mosquito Lagoon Aquatic Preserve. An analysis over 1991 - 2023 revealed a Significantly increasing trend in Water Temperature levels, with5254 samples contributing to this finding.

## pH

The data reveals notable changes in pH in the Mosquito Lagoon Aquatic Preserve over the study period. The data indicate a No significant trend in pH from 1991 - 2023, based on the analysis of 3633 samples.

# Nature Coast Aquatic Preserve

## Chlorophyll a, Uncorrected for Pheophytin

This table outlines a key observation related to Chlorophyll a, Uncorrected for Pheophytin levels in the Nature Coast Aquatic Preserve. Over the course of 2005 - 2022, a No significant trend was detected in Chlorophyll a, Uncorrected for Pheophytin, supported by 2609 samples.

## Colored Dissolved Organic Matter

The following table highlights the significant trends in Colored Dissolved Organic Matter within the Nature Coast Aquatic Preserve. The data indicate a No significant trend in Colored Dissolved Organic Matter from 1999 - 2023, based on the analysis of 4394 samples.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Nature Coast Aquatic Preserve. The data indicate a No significant trend in Dissolved Oxygen from 1982 - 2023, based on the analysis of 8034 samples.

## Salinity

This table outlines a key observation related to Salinity levels in the Nature Coast Aquatic Preserve. Over the course of 1975 - 2023, a Significantly increasing trend was detected in Salinity, supported by 7177 samples.

## Secchi Depth

Here, we present the analysis of Secchi Depth trends at the Nature Coast Aquatic Preserve. A clear No significant trend in Secchi Depth was observed from 1991 - 2022, according to data from 2861 samples.

## Total Nitrogen

This table outlines a key observation related to Total Nitrogen levels in the Nature Coast Aquatic Preserve. A clear No significant trend in Total Nitrogen was observed from 1996 - 2022, according to data from 5015 samples.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the Nature Coast Aquatic Preserve. A clear No significant trend in Total Phosphorus was observed from 1996 - 2022, according to data from 5362 samples.

## Turbidity

Here, we present the analysis of Turbidity trends at the Nature Coast Aquatic Preserve. Over the course of 1995 - 2022, a Significantly decreasing trend was detected in Turbidity, supported by 1117 samples.

## Water Temperature

This table outlines a key observation related to Water Temperature levels in the Nature Coast Aquatic Preserve. The data indicate a No significant trend in Water Temperature from 1974 - 2023, based on the analysis of 7071 samples.

## pH

The data reveals notable changes in pH in the Nature Coast Aquatic Preserve over the study period. Over the course of 1991 - 2023, a No significant trend was detected in pH, supported by 5491 samples.

# Terra Ceia Aquatic Preserve

## Chlorophyll a, Uncorrected for Pheophytin

Here, we present the analysis of Chlorophyll a, Uncorrected for Pheophytin trends at the Terra Ceia Aquatic Preserve. An analysis over 1999 - 2023 revealed a Significantly decreasing trend in Chlorophyll a, Uncorrected for Pheophytin levels, with1055 samples contributing to this finding.

## Dissolved Oxygen

The following table highlights the significant trends in Dissolved Oxygen within the Terra Ceia Aquatic Preserve. An analysis over 1989 - 2023 revealed a No significant trend in Dissolved Oxygen levels, with22972 samples contributing to this finding.

## Dissolved Oxygen Saturation

The following table highlights the significant trends in Dissolved Oxygen Saturation within the Terra Ceia Aquatic Preserve. The data indicate a No significant trend in Dissolved Oxygen Saturation from 1993 - 2023, based on the analysis of 4823 samples.

## Salinity

This table outlines a key observation related to Salinity levels in the Terra Ceia Aquatic Preserve. An analysis over 1966 - 2023 revealed a Significantly decreasing trend in Salinity levels, with23241 samples contributing to this finding.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the Terra Ceia Aquatic Preserve over the study period. An analysis over 1995 - 2023 revealed a Significantly increasing trend in Secchi Depth levels, with8443 samples contributing to this finding.

## Total Nitrogen

Here, we present the analysis of Total Nitrogen trends at the Terra Ceia Aquatic Preserve. An analysis over 1995 - 2023 revealed a Significantly decreasing trend in Total Nitrogen levels, with2268 samples contributing to this finding.

## Total Phosphorus

The data reveals notable changes in Total Phosphorus in the Terra Ceia Aquatic Preserve over the study period. A clear Significantly decreasing trend in Total Phosphorus was observed from 1995 - 2023, according to data from 3087 samples.

## Total Suspended Solids

This table outlines a key observation related to Total Suspended Solids levels in the Terra Ceia Aquatic Preserve. A clear Significantly decreasing trend in Total Suspended Solids was observed from 1995 - 2023, according to data from 1600 samples.

## Turbidity

The data reveals notable changes in Turbidity in the Terra Ceia Aquatic Preserve over the study period. The data indicate a No significant trend in Turbidity from 1995 - 2023, based on the analysis of 7935 samples.

## Water Temperature

This table outlines a key observation related to Water Temperature levels in the Terra Ceia Aquatic Preserve. An analysis over 1966 - 2023 revealed a No significant trend in Water Temperature levels, with24171 samples contributing to this finding.

## pH

Here, we present the analysis of pH trends at the Terra Ceia Aquatic Preserve. Over the course of 1989 - 2023, a Significantly decreasing trend was detected in pH, supported by 21229 samples.

# Fort Clinch State Park Aquatic Preserve

## Dissolved Oxygen

The data reveals notable changes in Dissolved Oxygen in the Fort Clinch State Park Aquatic Preserve over the study period. An analysis over 1994 - 2023 revealed a Significantly decreasing trend in Dissolved Oxygen levels, with1376 samples contributing to this finding.

## Salinity

Here, we present the analysis of Salinity trends at the Fort Clinch State Park Aquatic Preserve. An analysis over 1994 - 2022 revealed a No significant trend in Salinity levels, with1381 samples contributing to this finding.

## Secchi Depth

The data reveals notable changes in Secchi Depth in the Fort Clinch State Park Aquatic Preserve over the study period. An analysis over 2000 - 2017 revealed a No significant trend in Secchi Depth levels, with1245 samples contributing to this finding.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Fort Clinch State Park Aquatic Preserve over the study period. Over the course of 2000 - 2023, a No significant trend was detected in Total Nitrogen, supported by 52 samples.

## Total Phosphorus

This table outlines a key observation related to Total Phosphorus levels in the Fort Clinch State Park Aquatic Preserve. Over the course of 2000 - 2023, a No significant trend was detected in Total Phosphorus, supported by 55 samples.

## Water Temperature

This table outlines a key observation related to Water Temperature levels in the Fort Clinch State Park Aquatic Preserve. A clear Significantly increasing trend in Water Temperature was observed from 1994 - 2023, according to data from 1399 samples.

## pH

The data reveals notable changes in pH in the Fort Clinch State Park Aquatic Preserve over the study period. An analysis over 1994 - 2023 revealed a No significant trend in pH levels, with1380 samples contributing to this finding.

# Lignumvitae Key Aquatic Preserve

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the Lignumvitae Key Aquatic Preserve. A clear No significant trend in Dissolved Oxygen was observed from 1997 - 2022, according to data from 215 samples.

## Salinity

The following table highlights the significant trends in Salinity within the Lignumvitae Key Aquatic Preserve. A clear No significant trend in Salinity was observed from 1997 - 2023, according to data from 244 samples.

## Water Temperature

This table outlines a key observation related to Water Temperature levels in the Lignumvitae Key Aquatic Preserve. A clear No significant trend in Water Temperature was observed from 1997 - 2023, according to data from 275 samples.

## pH

The following table highlights the significant trends in pH within the Lignumvitae Key Aquatic Preserve. A clear Significantly decreasing trend in pH was observed from 1997 - 2023, according to data from 265 samples.

# Southeast Florida Coral Reef Ecosystem Conservation Area

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the Southeast Florida Coral Reef Ecosystem Conservation Area. The data indicate a No significant trend in Dissolved Oxygen from 1970 - 2023, based on the analysis of 622 samples.

## Dissolved Oxygen Saturation

Here, we present the analysis of Dissolved Oxygen Saturation trends at the Southeast Florida Coral Reef Ecosystem Conservation Area. A clear No significant trend in Dissolved Oxygen Saturation was observed from 1995 - 2023, according to data from 272 samples.

## Salinity

The data reveals notable changes in Salinity in the Southeast Florida Coral Reef Ecosystem Conservation Area over the study period. A clear Significantly increasing trend in Salinity was observed from 1972 - 2023, according to data from 876 samples.

## Secchi Depth

Here, we present the analysis of Secchi Depth trends at the Southeast Florida Coral Reef Ecosystem Conservation Area. A clear Significantly increasing trend in Secchi Depth was observed from 1997 - 2023, according to data from 5866 samples.

## Total Phosphorus

Here, we present the analysis of Total Phosphorus trends at the Southeast Florida Coral Reef Ecosystem Conservation Area. Over the course of 2009 - 2023, a Significantly decreasing trend was detected in Total Phosphorus, supported by 11066 samples.

## Water Temperature

The data reveals notable changes in Water Temperature in the Southeast Florida Coral Reef Ecosystem Conservation Area over the study period. The data indicate a Significantly increasing trend in Water Temperature from 1970 - 2023, based on the analysis of 1472 samples.

# Tomoka Marsh Aquatic Preserve

## Dissolved Oxygen

This table outlines a key observation related to Dissolved Oxygen levels in the Tomoka Marsh Aquatic Preserve. Over the course of 1997 - 2023, a No significant trend was detected in Dissolved Oxygen, supported by 624 samples.

## Dissolved Oxygen Saturation

This table outlines a key observation related to Dissolved Oxygen Saturation levels in the Tomoka Marsh Aquatic Preserve. An analysis over 2009 - 2023 revealed a Significantly increasing trend in Dissolved Oxygen Saturation levels, with317 samples contributing to this finding.

## Salinity

Here, we present the analysis of Salinity trends at the Tomoka Marsh Aquatic Preserve. A clear No significant trend in Salinity was observed from 1998 - 2023, according to data from 602 samples.

## Secchi Depth

This table outlines a key observation related to Secchi Depth levels in the Tomoka Marsh Aquatic Preserve. A clear No significant trend in Secchi Depth was observed from 2000 - 2023, according to data from 279 samples.

## Total Nitrogen

The data reveals notable changes in Total Nitrogen in the Tomoka Marsh Aquatic Preserve over the study period. A clear Significantly decreasing trend in Total Nitrogen was observed from 1997 - 2022, according to data from 360 samples.

## Total Phosphorus

The data reveals notable changes in Total Phosphorus in the Tomoka Marsh Aquatic Preserve over the study period. An analysis over 1997 - 2023 revealed a No significant trend in Total Phosphorus levels, with604 samples contributing to this finding.

## Total Suspended Solids

The following table highlights the significant trends in Total Suspended Solids within the Tomoka Marsh Aquatic Preserve. An analysis over 1997 - 2023 revealed a No significant trend in Total Suspended Solids levels, with388 samples contributing to this finding.

## Turbidity

The following table highlights the significant trends in Turbidity within the Tomoka Marsh Aquatic Preserve. An analysis over 1997 - 2023 revealed a No significant trend in Turbidity levels, with416 samples contributing to this finding.

## Water Temperature

The data reveals notable changes in Water Temperature in the Tomoka Marsh Aquatic Preserve over the study period. The data indicate a No significant trend in Water Temperature from 1997 - 2023, based on the analysis of 640 samples.

## pH

Here, we present the analysis of pH trends at the Tomoka Marsh Aquatic Preserve. Over the course of 1997 - 2023, a Significantly increasing trend was detected in pH, supported by 613 samples.