

# St. Martins Marsh Aquatic Preserve

## SEACAR Discrete Water Quality Analysis

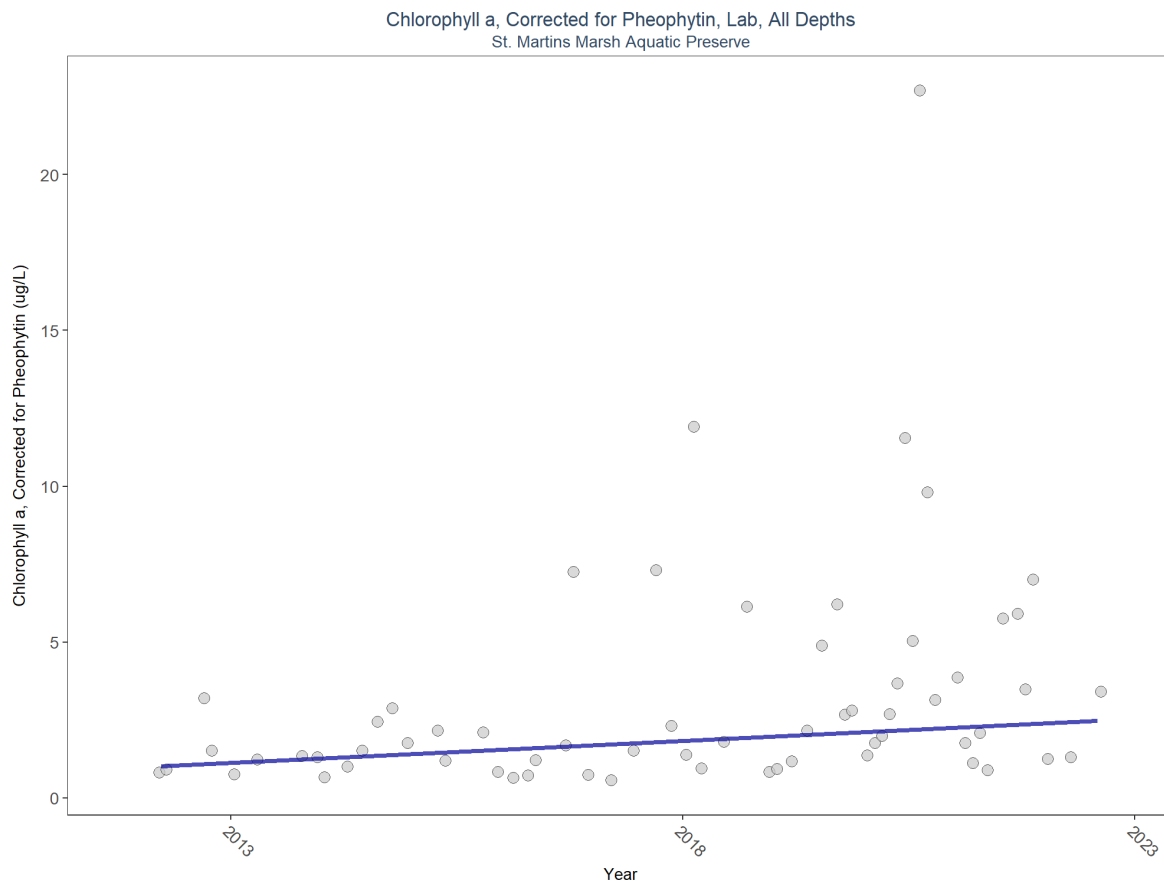
Last compiled on 26 June, 2024

### Contents

<b>Parameters</b>	<b>2</b>
Chlorophyll a, Corrected for Pheophytin . . . . .	2
Chlorophyll a, Uncorrected for Pheophytin . . . . .	3
Colored Dissolved Organic Matter . . . . .	4
Dissolved Oxygen . . . . .	5
pH . . . . .	6
Salinity . . . . .	7
Secchi Depth . . . . .	8
Total Nitrogen . . . . .	9
Total Phosphorus . . . . .	10
Total Suspended Solids . . . . .	11
Turbidity . . . . .	12
Water Temperature . . . . .	13

## Parameters

### Chlorophyll a, Corrected for Pheophytin

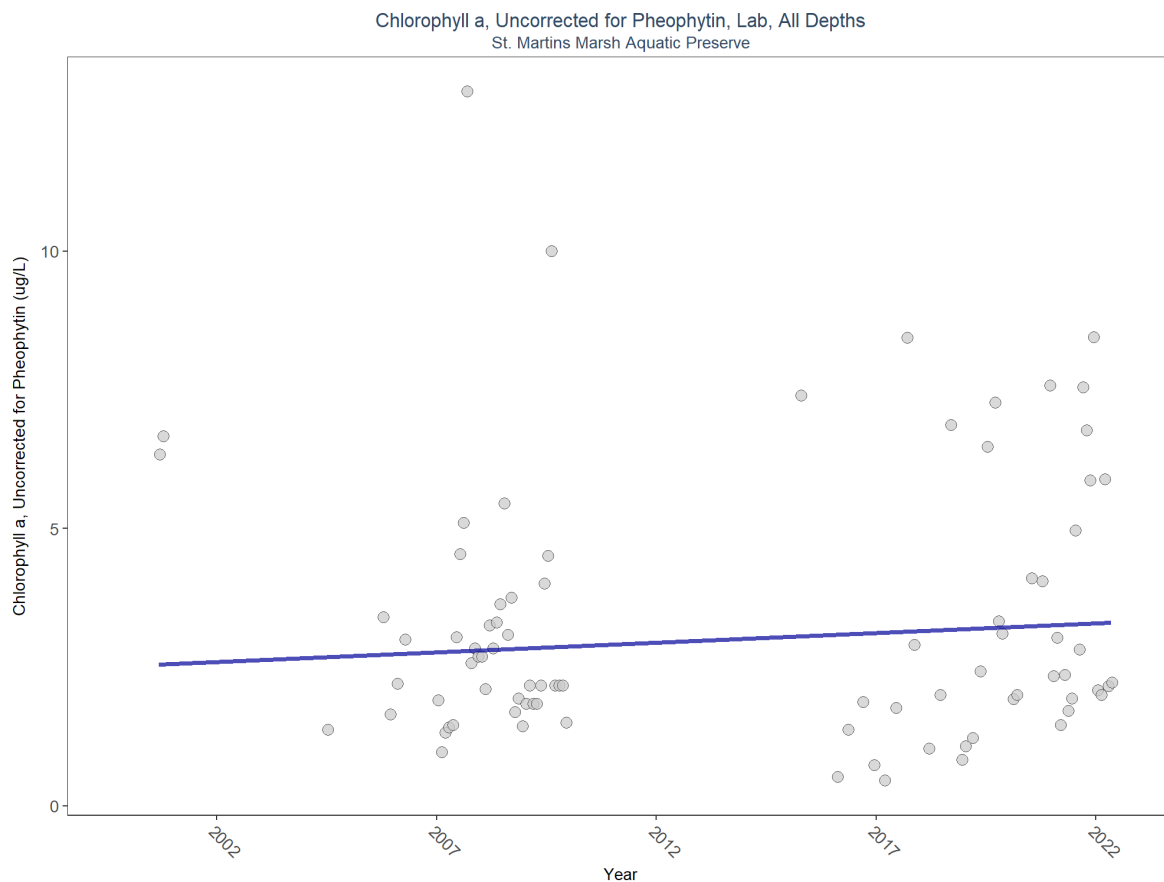


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	200	11	1.4	TRUE	0.4226	0.0006	0.141131	0.9926875	8.9598	0.6256	2

$p < 0.00005$  appear as 0 due to rounding.

*SennIntercept* is intercept value at beginning of  
record for monitoring location

## Chlorophyll a, Uncorrected for Pheophytin

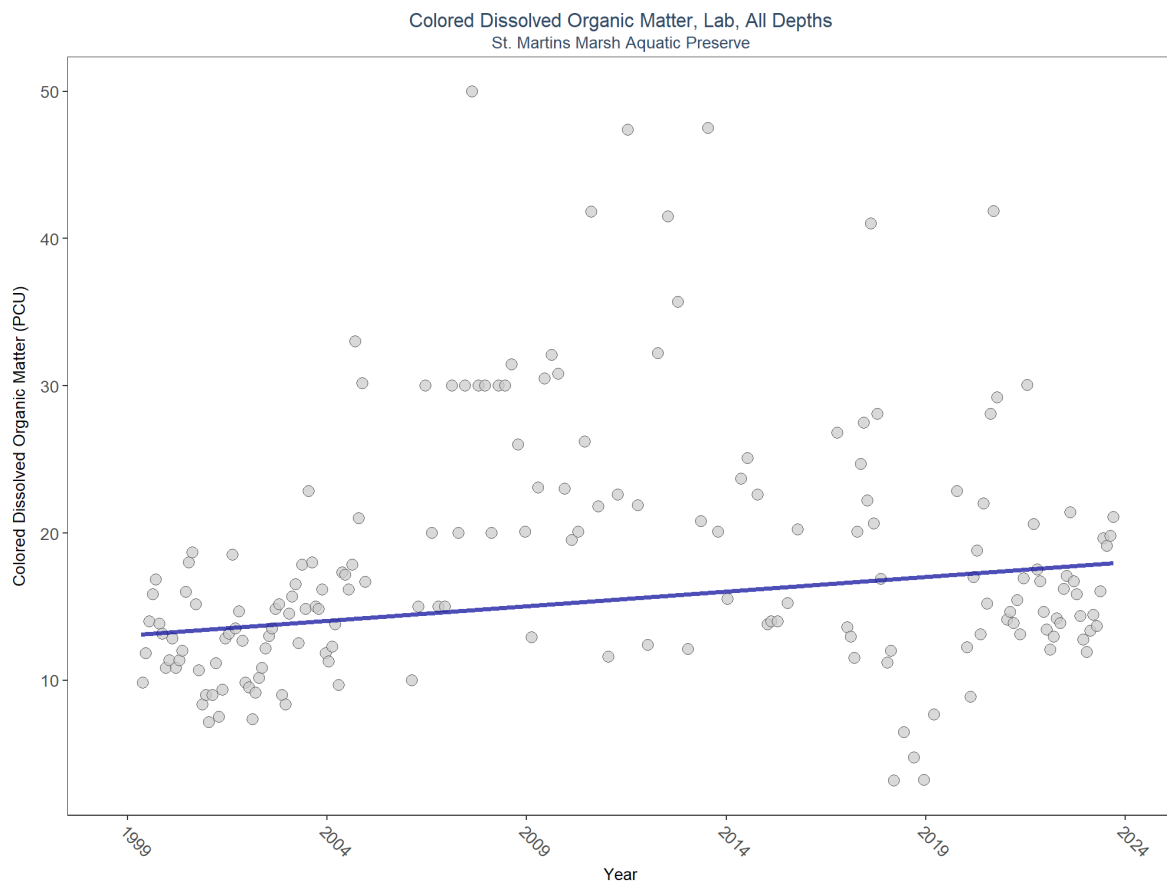


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	526	15	2	TRUE	0.0896	0.2730	0.03487578	2.529285	6.737	0.82	0

$p < 0.00005$  appear as 0 due to rounding.

SennIntercept is intercept value at beginning of  
record for monitoring location

## Colored Dissolved Organic Matter

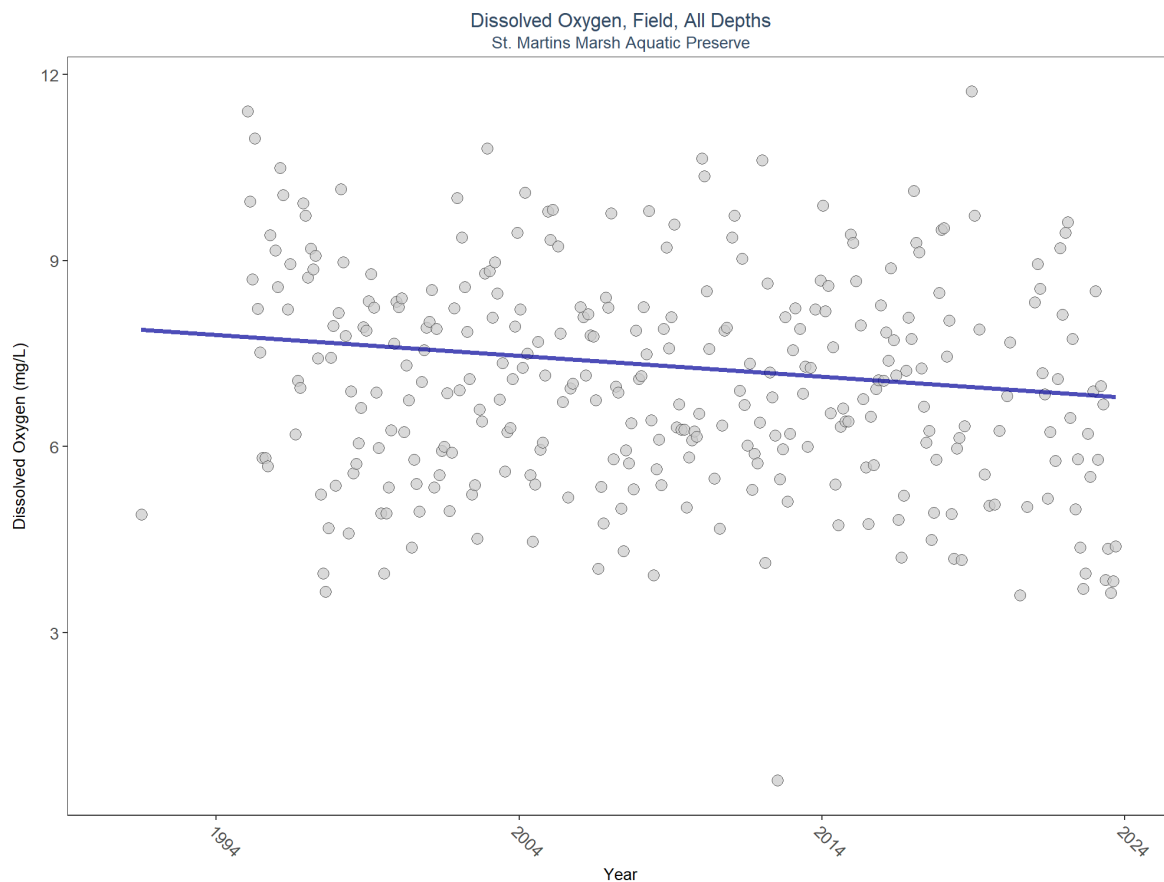


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	809	24	13	TRUE	0.2575	0.0000	0.1982941	13.05614	2.9762	0.991	1

$p < 0.00005$  appear as 0 due to rounding.

*SennIntercept* is intercept value at beginning of record for monitoring location

# Dissolved Oxygen

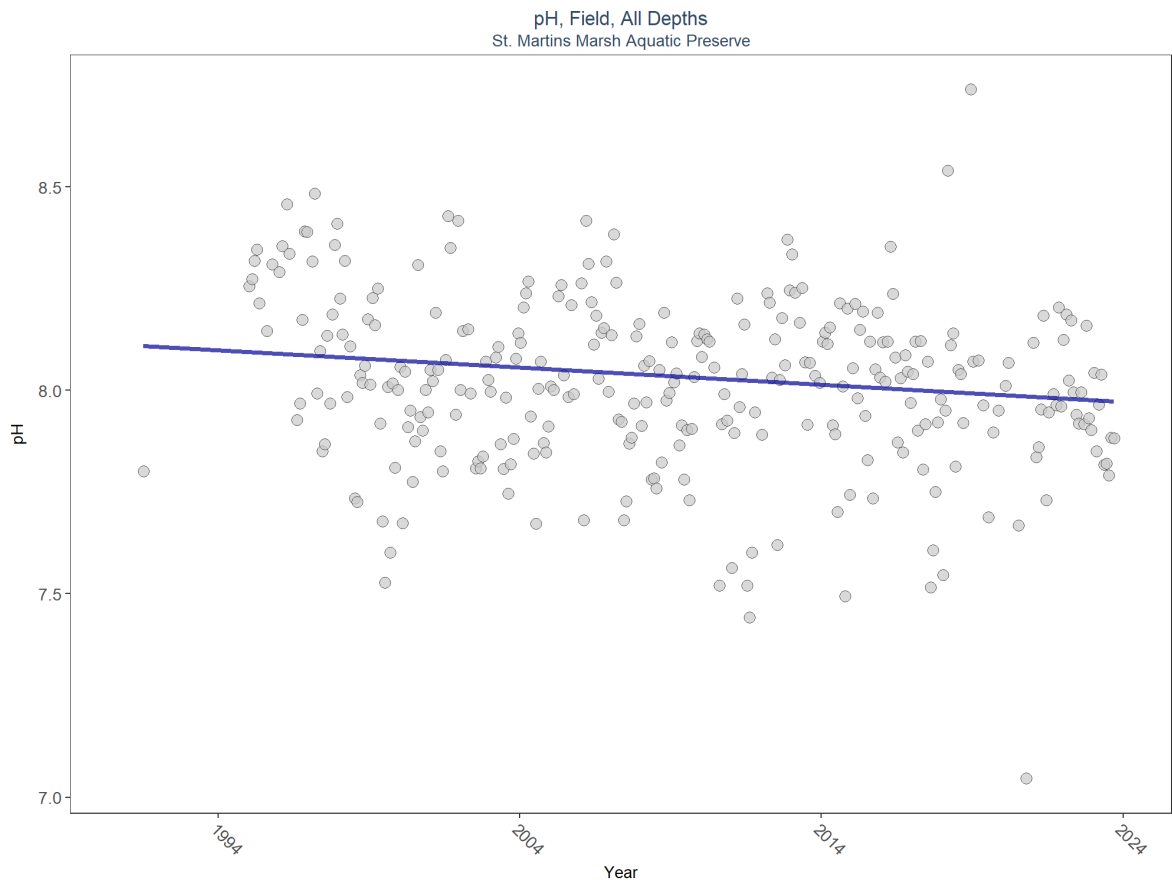


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	8320	30	7.3	TRUE	-0.1493	0.0002	-0.0335146	7.899965	7.3281	0.7719	-1

$p < 0.00005$  appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of  
record for monitoring location*

pH

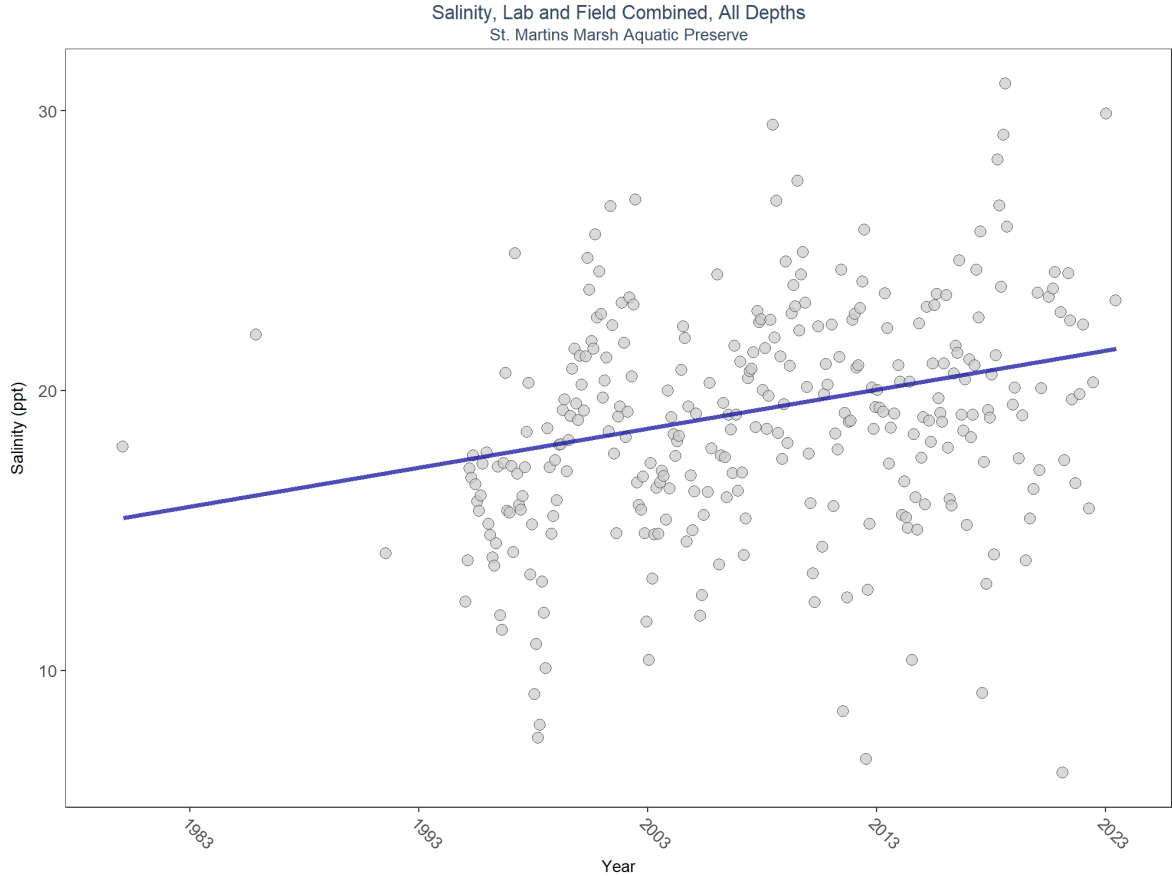


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	4443	30	8.08	TRUE	-0.1286	0.0018	-0.004237621	8.110875	13.4041	0.2677	-1

*p < 0.00005 appear as 0 due to rounding.*

*SennIntercept is intercept value at beginning of  
record for monitoring location*

Salinity

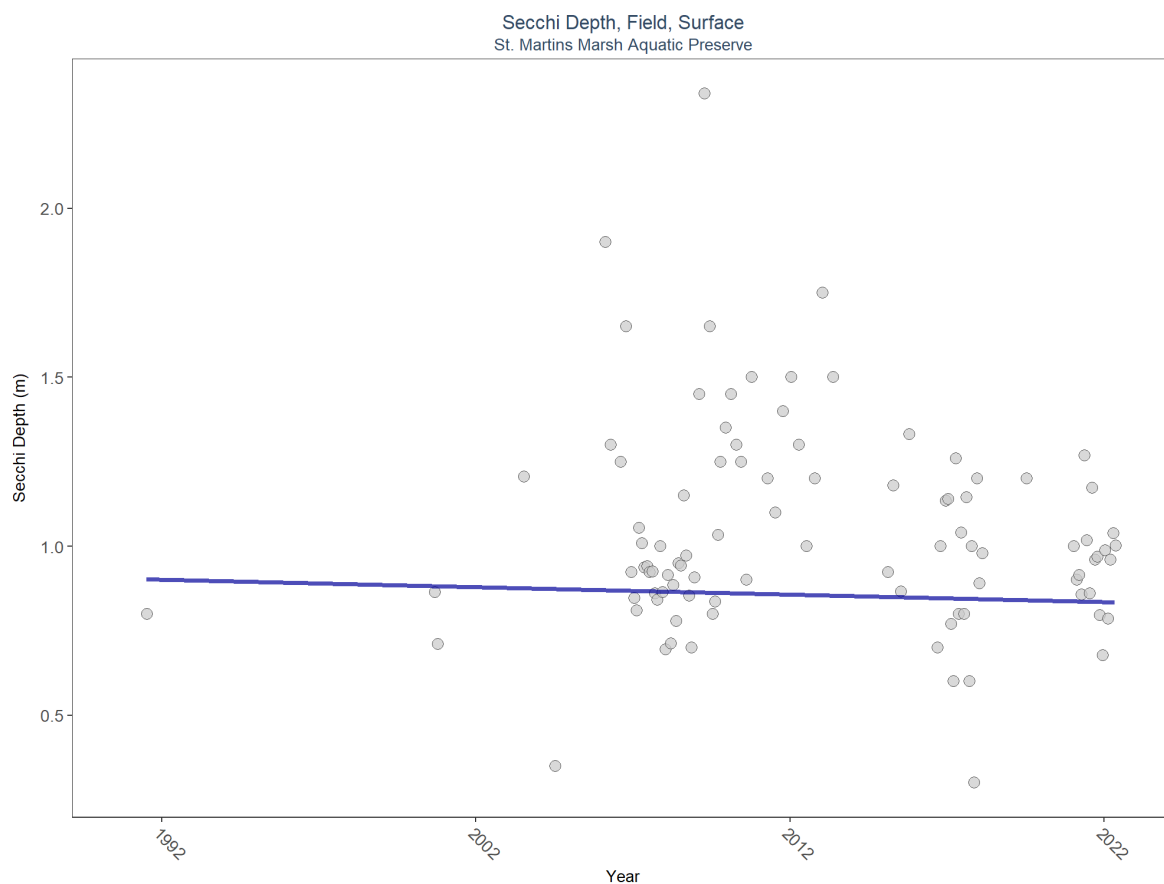


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	8994	32	18.2	TRUE	0.1856	0.0000	0.1388889	15.44786	16.411	0.1265	1

$p < 0.00005$  appear as 0 due to rounding.

SennIntercept is intercept value at beginning of  
record for monitoring location

# Secchi Depth



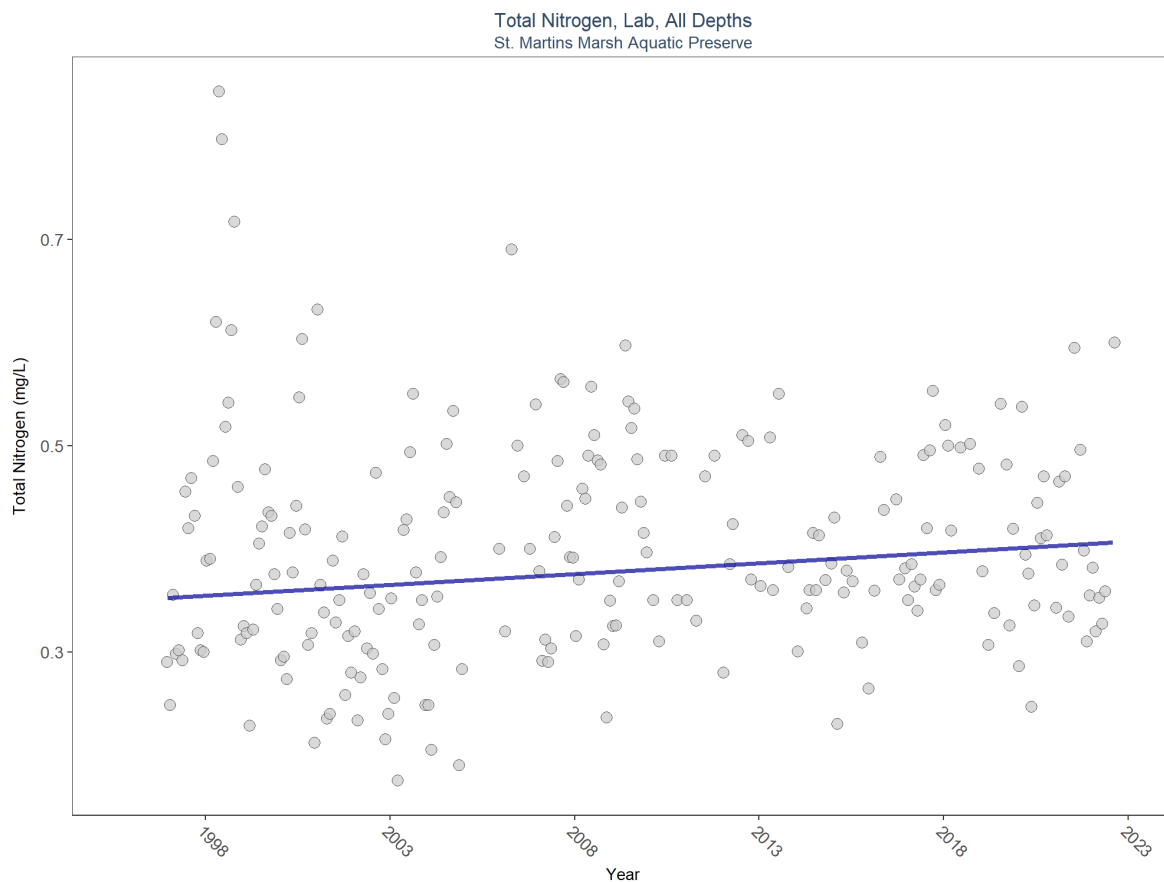
RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
Surface	688	19	0.9	TRUE	-0.0525	0.4836	-0.002188759	0.9035061	4.4708	0.9541	0

$p < 0.00005$  appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of record for monitoring location*



# Total Nitrogen

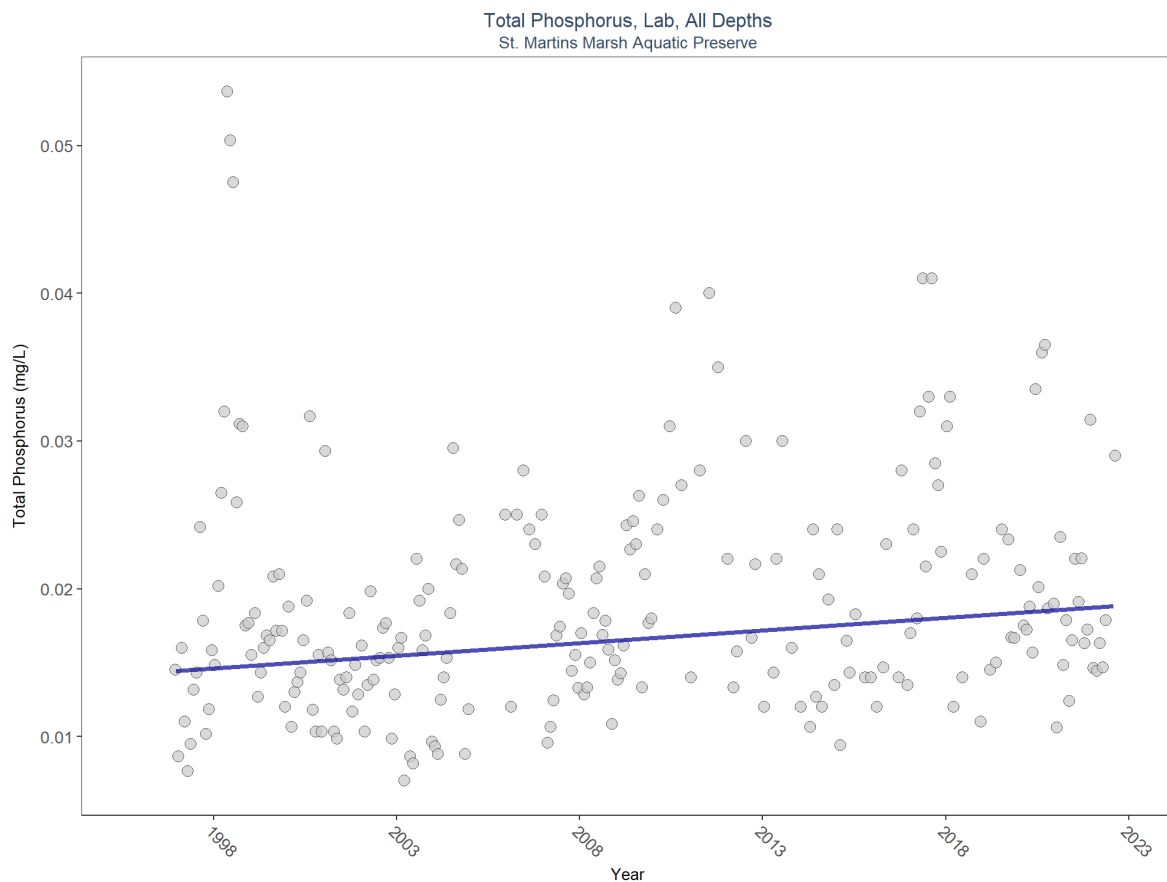


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	1167	27	0.37	TRUE	0.1293	0.0075	0.002083333	0.3505873	5.9031	0.8797	1

$p < 0.00005$  appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

## Total Phosphorus

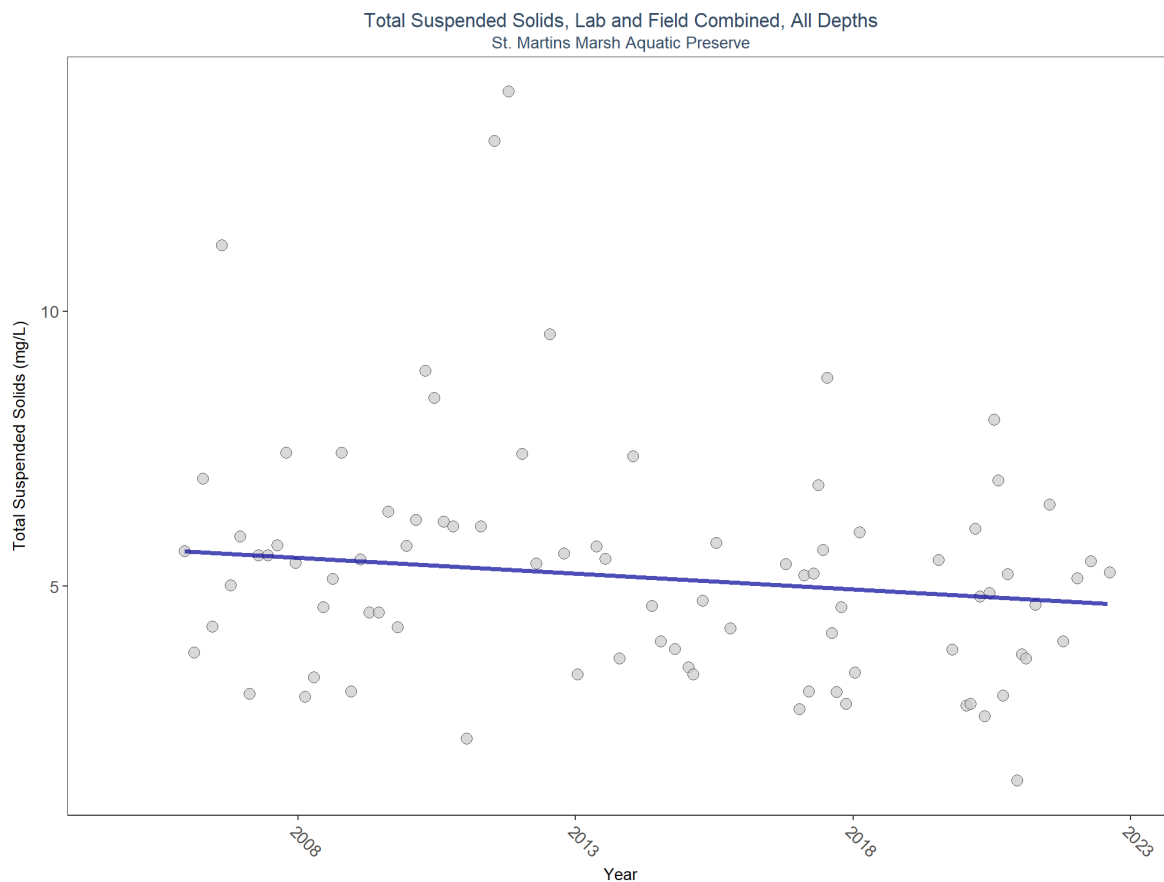


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	1220	27	0.015	TRUE	0.1796	0.0002	0.0001716857	0.01426478	0.881	1	1

$p < 0.00005$  appear as 0 due to rounding.

SennIntercept is intercept value at beginning of  
record for monitoring location

## Total Suspended Solids

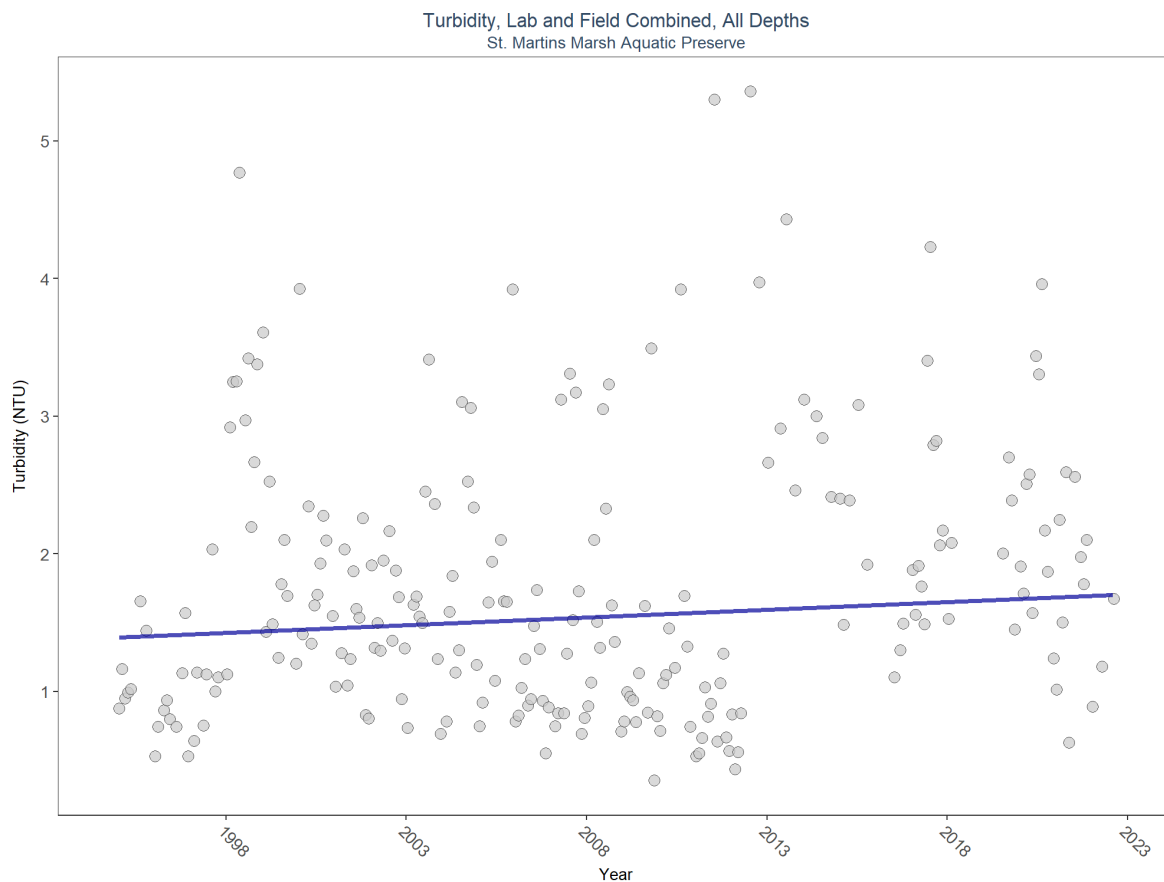


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	151	18	4.62	TRUE	-0.1354	0.0872	-0.05738462	5.692106	8.6949	0.5613	0

$p < 0.00005$  appear as 0 due to rounding.

*SennIntercept is intercept value at beginning of record for monitoring location*

# Turbidity

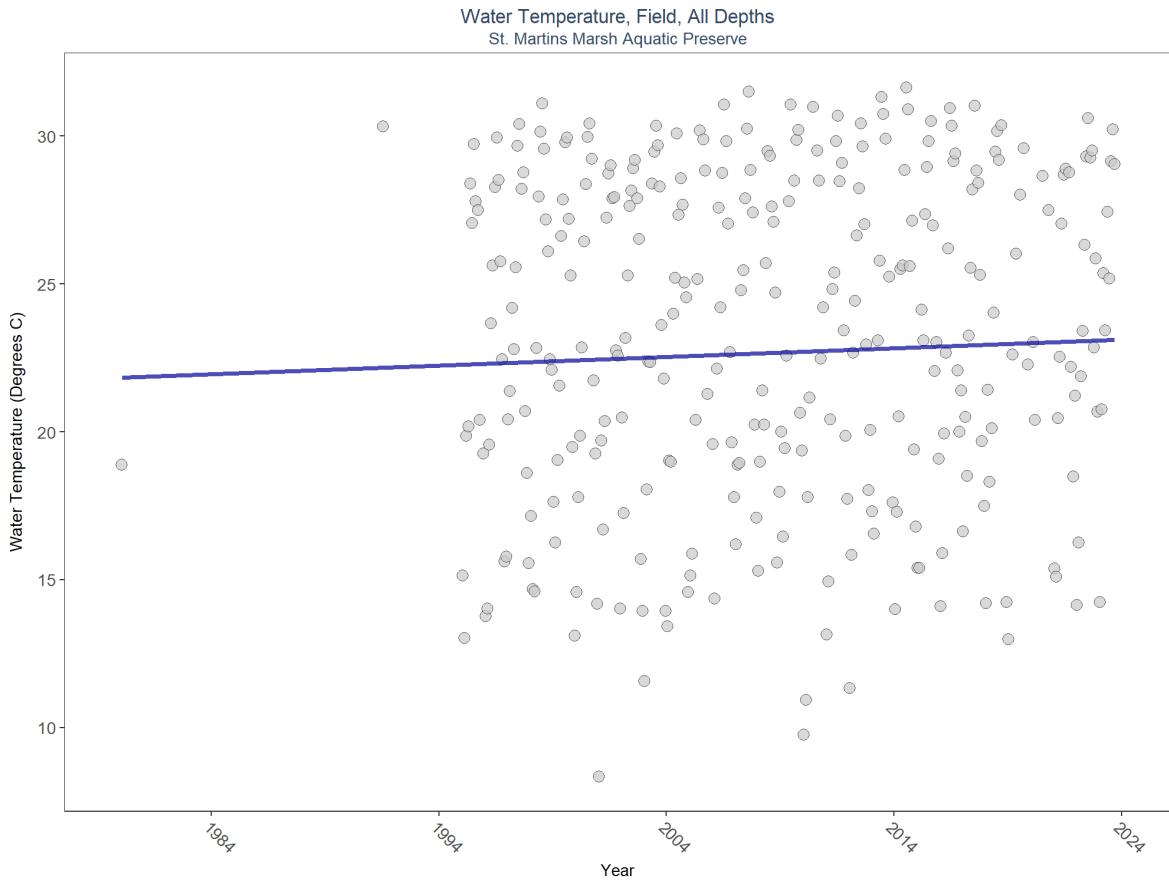


RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	2982	28	1.1	TRUE	0.069	0.1204	0.011125	1.39404	4.883	0.9367	0

$p < 0.00005$  appear as 0 due to rounding.

SennIntercept is intercept value at beginning of record for monitoring location

# Water Temperature



RelativeDepth	N_Data	N_Years	Median	Independent	tau	p	SennSlope	SennIntercept	ChiSquared	pChiSquared	Trend
All	8782	31	22.65	TRUE	0.1098	0.0084	0.02907962	21.83728	10.5532	0.4814	1

*p < 0.00005 appear as 0 due to rounding.*

*SennIntercept is intercept value at beginning of  
record for monitoring location*