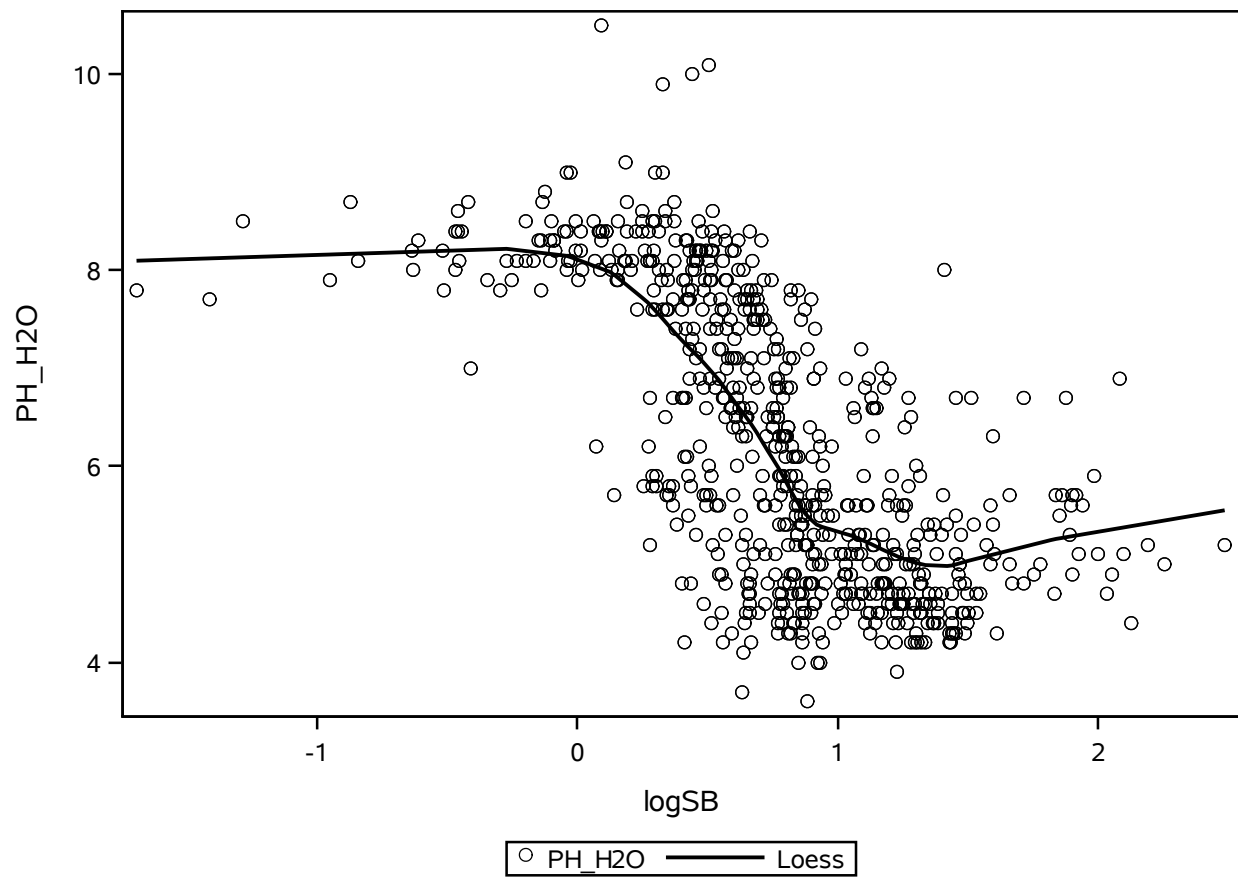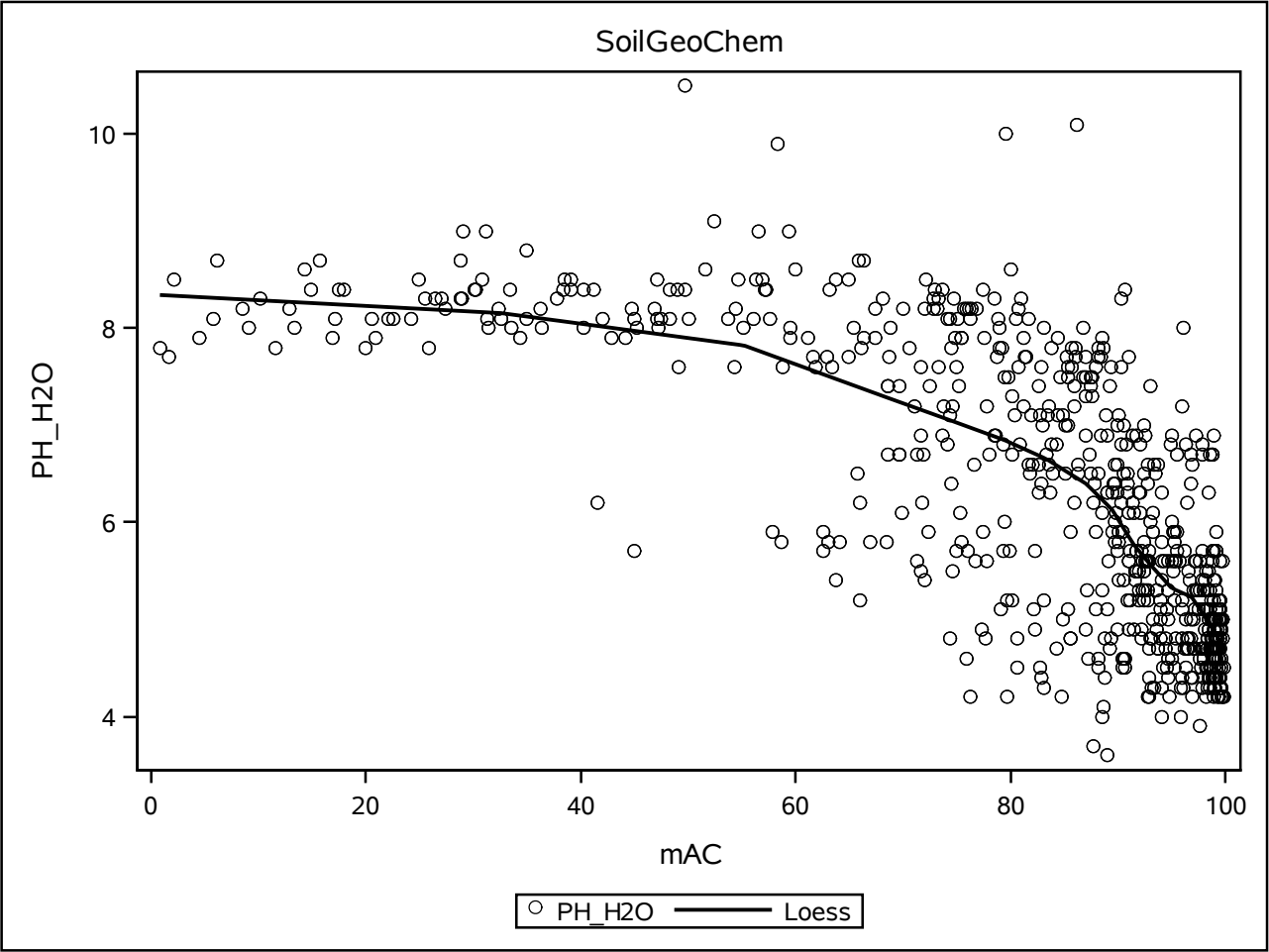SoilGeoChem

SoilGeoChem

The TPSPLINE Procedure
Dependent Variable: PH_H2O

Summary of Input Data Set	
Number of Non-Missing Observations	674
Number of Missing Observations	0
Unique Smoothing Design Points	674

Summary of Final Model	
Number of Regression Variables	0
Number of Smoothing Variables	1
Order of Derivative in the Penalty	2
Dimension of Polynomial Space	2

Summary Statistics of Final Estimation	
log10(n*Lambda)	-0.6729
Smoothing Penalty	44.3821
Residual SS	633.9358
Tr(I-A)	666.6539
Model DF	7.3461
Standard Deviation	0.9752
GCV	0.9614

Smoothing Parameter Selection for PH_H2O

Legend: ○ Golden Section Search Trials ☆ Selected Smoothing Parameter = -0.67

The TPSPLINE Procedure
Dependent Variable: PH_H2O

Fit Plot for PH_H2O

The TPSPLINE Procedure
Dependent Variable: PH_H2O

Residual by Predictors for PH_H2O
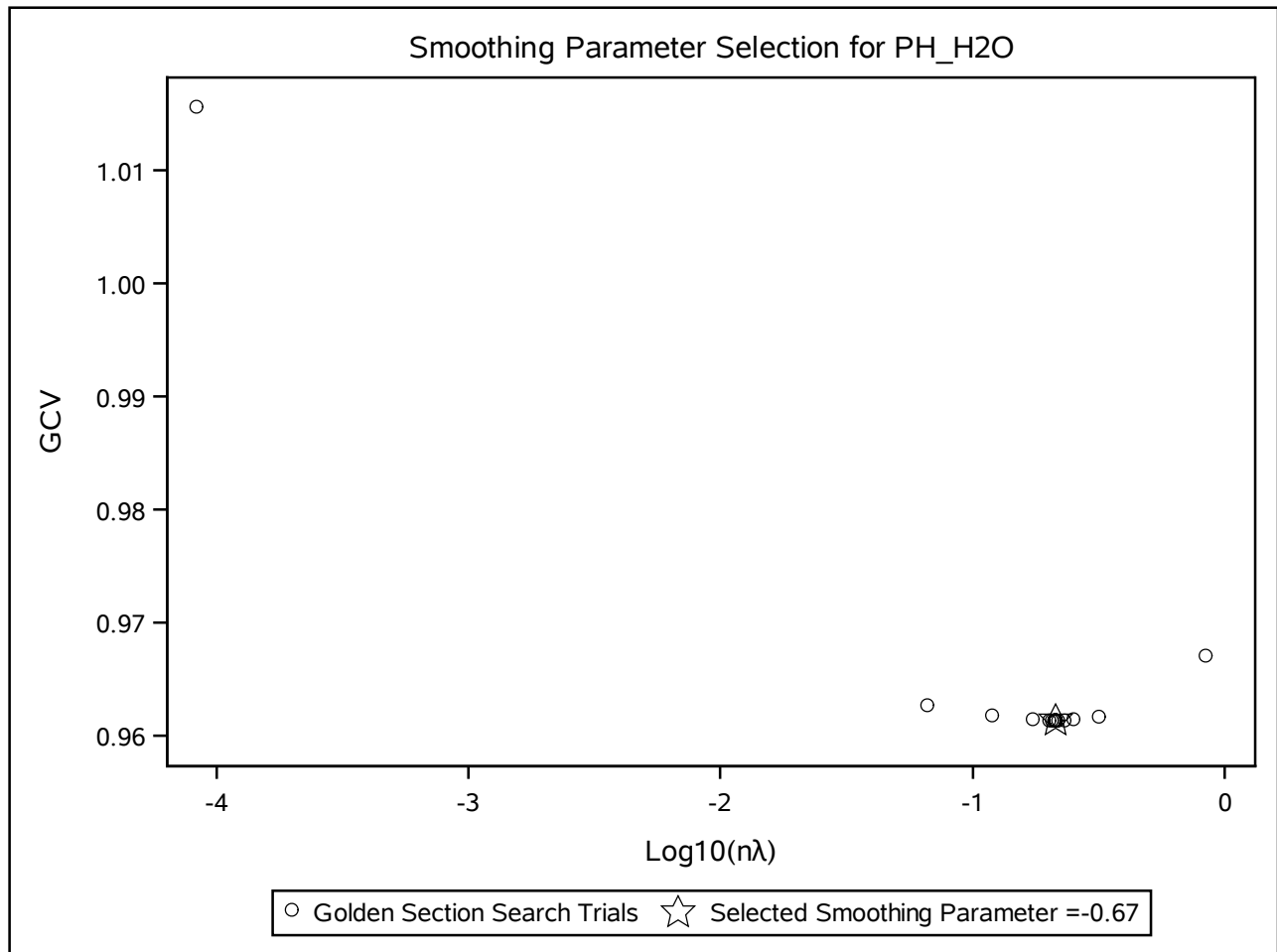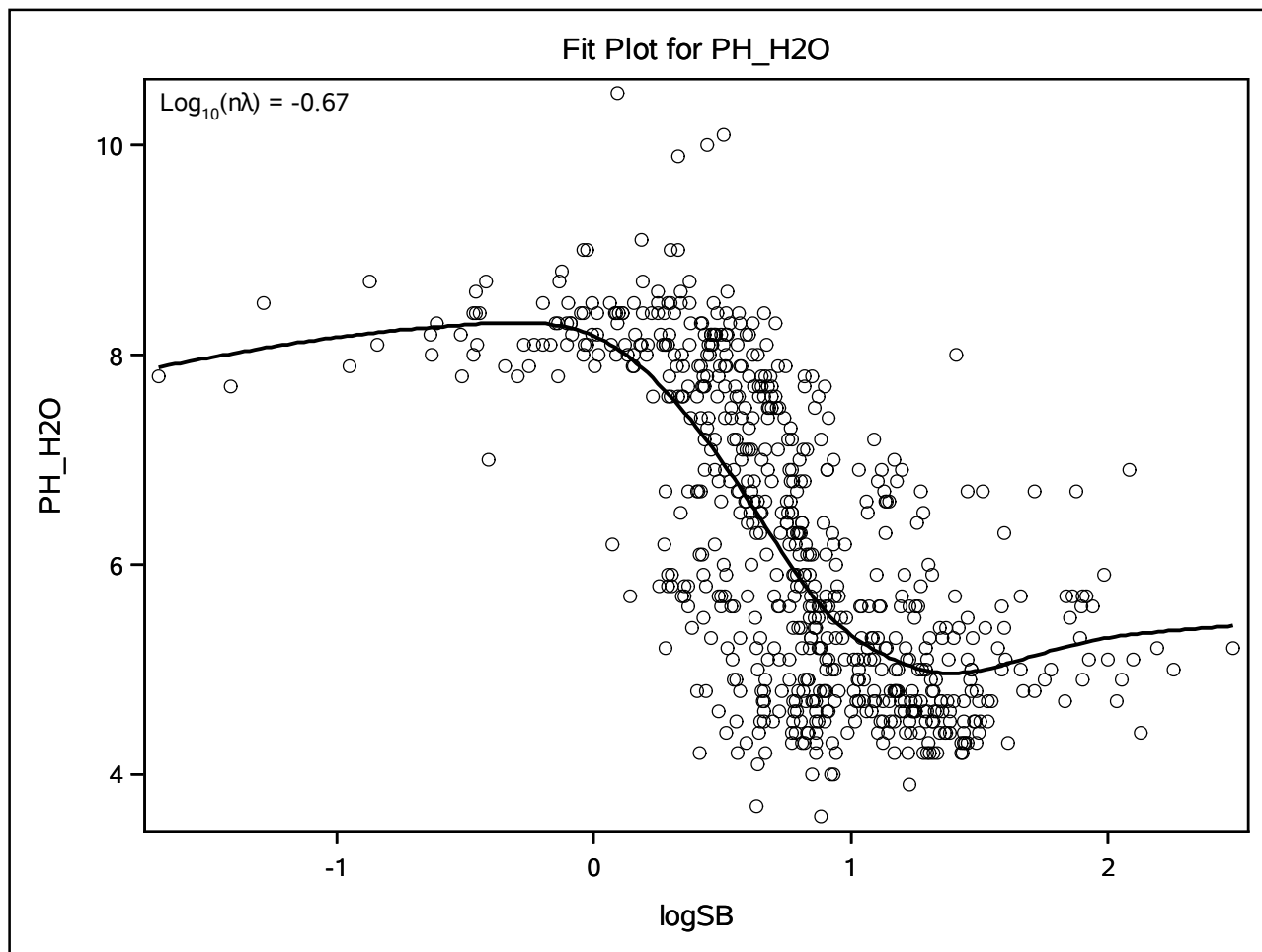
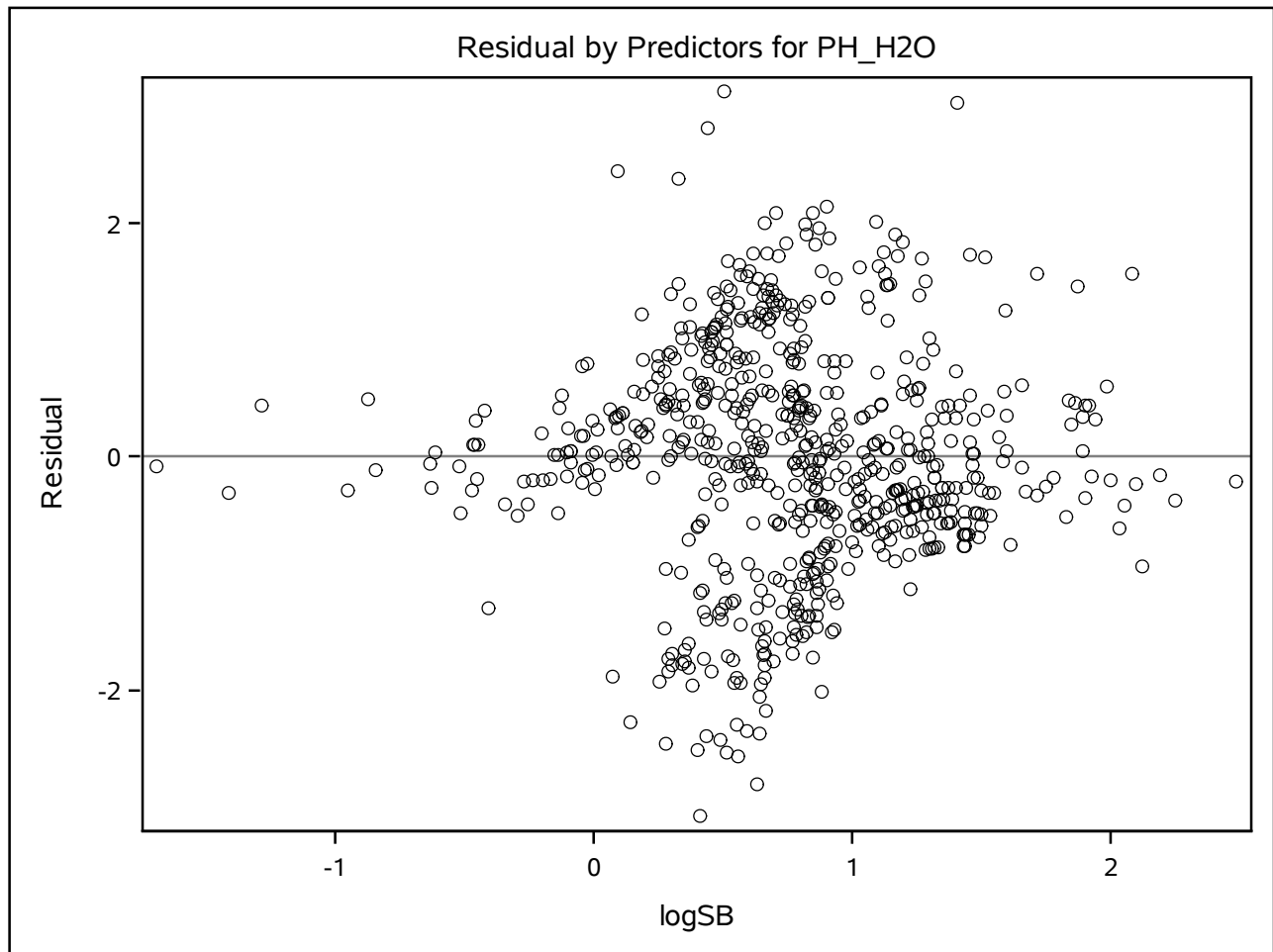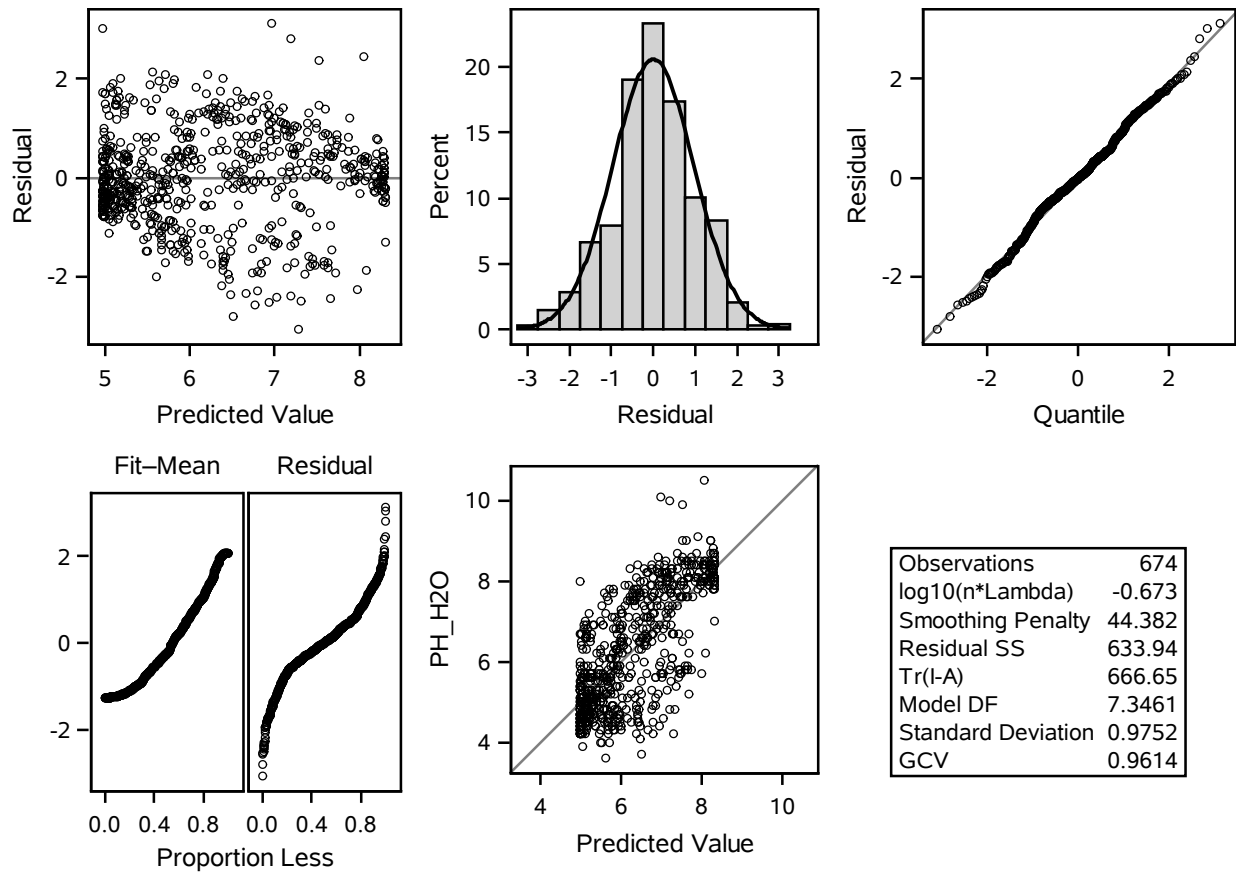# SoilGeoChem

The TPSPLINE Procedure
Dependent Variable: PH_H2O

Fit Diagnostics for PH_H2O

Observations	674
log10(n*Lambda)	-0.673
Smoothing Penalty	44.382
Residual SS	633.94
Tr(I-A)	666.65
Model DF	7.3461
Standard Deviation	0.9752
GCV	0.9614

SoilGeoChem

The TPSPLINE Procedure
Dependent Variable: PH_H2O

Summary of Input Data Set	
Number of Non-Missing Observations	674
Number of Missing Observations	0
Unique Smoothing Design Points	674

Summary of Final Model	
Number of Regression Variables	0
Number of Smoothing Variables	1
Order of Derivative in the Penalty	2
Dimension of Polynomial Space	2

Summary Statistics of Final Estimation	
log10(n*Lambda)	3.7978
Smoothing Penalty	0.0006
Residual SS	563.2642
Tr(I-A)	667.4227
Model DF	6.5773
Standard Deviation	0.9187
GCV	0.8523

Smoothing Parameter Selection for PH_H2O

○ Golden Section Search Trials   ☆ Selected Smoothing Parameter =3.798

The TPSPLINE Procedure
Dependent Variable: PH_H2O

Fit Plot for PH_H2O

$Log_{10}(n\lambda) = 3.798$

The TPSPLINE Procedure
Dependent Variable: PH_H2O

Residual by Predictors for PH_H2O

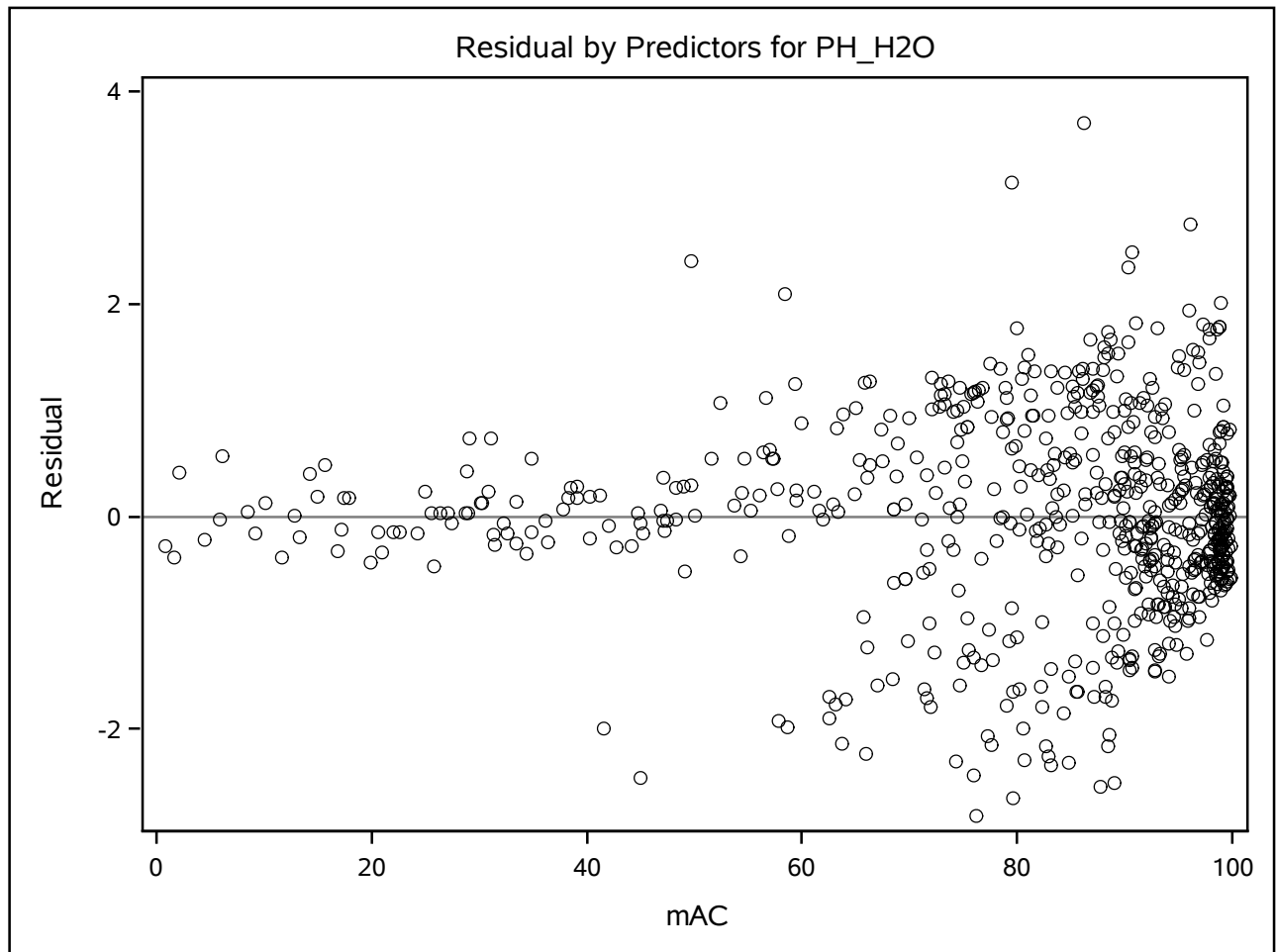SoilGeoChem

The TPSPLINE Procedure
Dependent Variable: PH_H2O