

Supplemental file description

1. TDP reproducibility.csv file

We selected samples with a range of SRP concentrations and re-analyzed their TDP concentrations five months after the original analysis of their TDP concentrations.

Column header	description	unit
ID	Sample ID	nd
SRP	SRP concentration	μM
TDP	TDP concentration from original analysis	μM
TDP_rerun	TDP concentration from reanalysis	μM

2. GLY concentration.csv file

Glyphosate (GLY) with known concentrations (0.5 to 2 μM) was prepared at the same time as the seawater samples with the same analytical procedure to determine its concentration.

Column header	description	unit
date	Analysis date	(mm/dd/yy)
GLY standard concentration	GLY standard concentration	μM
Measured GLY concentration	Measured GLY concentration	μM

3. ATP concentration.csv file

Adenosine triphosphate (ATP) with known concentrations (0.5 to 2 μM) was prepared at the same time as the seawater samples with the same analytical procedure to determine its concentration.

Column header	description	unit
date	Analysis date	(mm/dd/yy)
ATP standard concentration	ATP standard concentration	μM
Measured ATP concentration	Measured ATP concentration	μM

4. waterconcentrations.csv file

Ultra-pure water (18.2 MΩ*cm) was prepared at the same time as the seawater samples with the same analytical procedures to determine its TDP concentration.

Column header	description	unit
date	Analysis date	(mm/dd/yy)
Measured water concentration	Measured Ultra-pure water concentration	μM

5. GOMconcentration.csv file

We used Gulf of Mexico (GOM) surface seawater as an internal TDP lab standard and GOM surface seawater was prepared as the same as the seawater samples with the same analytical procedures to determine its concentration.

Column header	description	unit
date	Analysis date	(mm/dd/yy)
Measured GOM concentration	Measured GOM seawater concentration	μM