

# TEMPEST: Porewater Sulfide

2025 Samples

2025-12-11

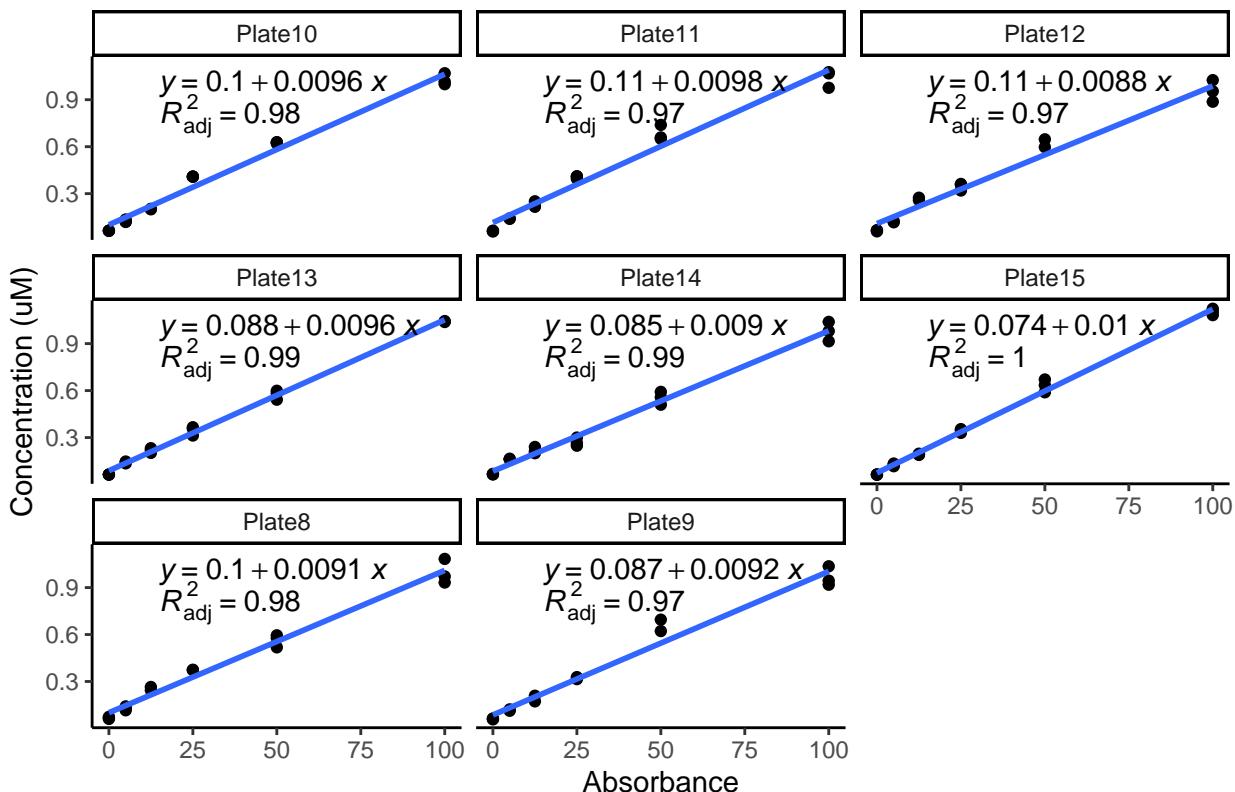
## Run Information

```
###things that need to be changed
Date_Run = "20250926"
plates<- c("Plate8","Plate9","Plate10","Plate11","Plate12","Plate13","Plate14","Plate15")
Month = "Sept"
Year = "2025"
Run_by = "Zoe Read" #Instrument user
Script_run_by = "Zoe Read" #Code user
Project = "COMPASS"

run_notes="MC 10 was low in 4/8 plates. Plate 1 and 4 dups were bad.
2/8 dups were bad. Used 10 uL spike for all plates.
3/8 spikes were bad. Plate 15 Std curve used for all plates."#any notes from run

#Stds that should be excluded
# stds_to_remove<-data.frame(Plate=c("Plate6"),IDs=c("Std 3"))
stds_to_remove<-NA
```

## STD Curves



# Checking STD Data against QAQC file

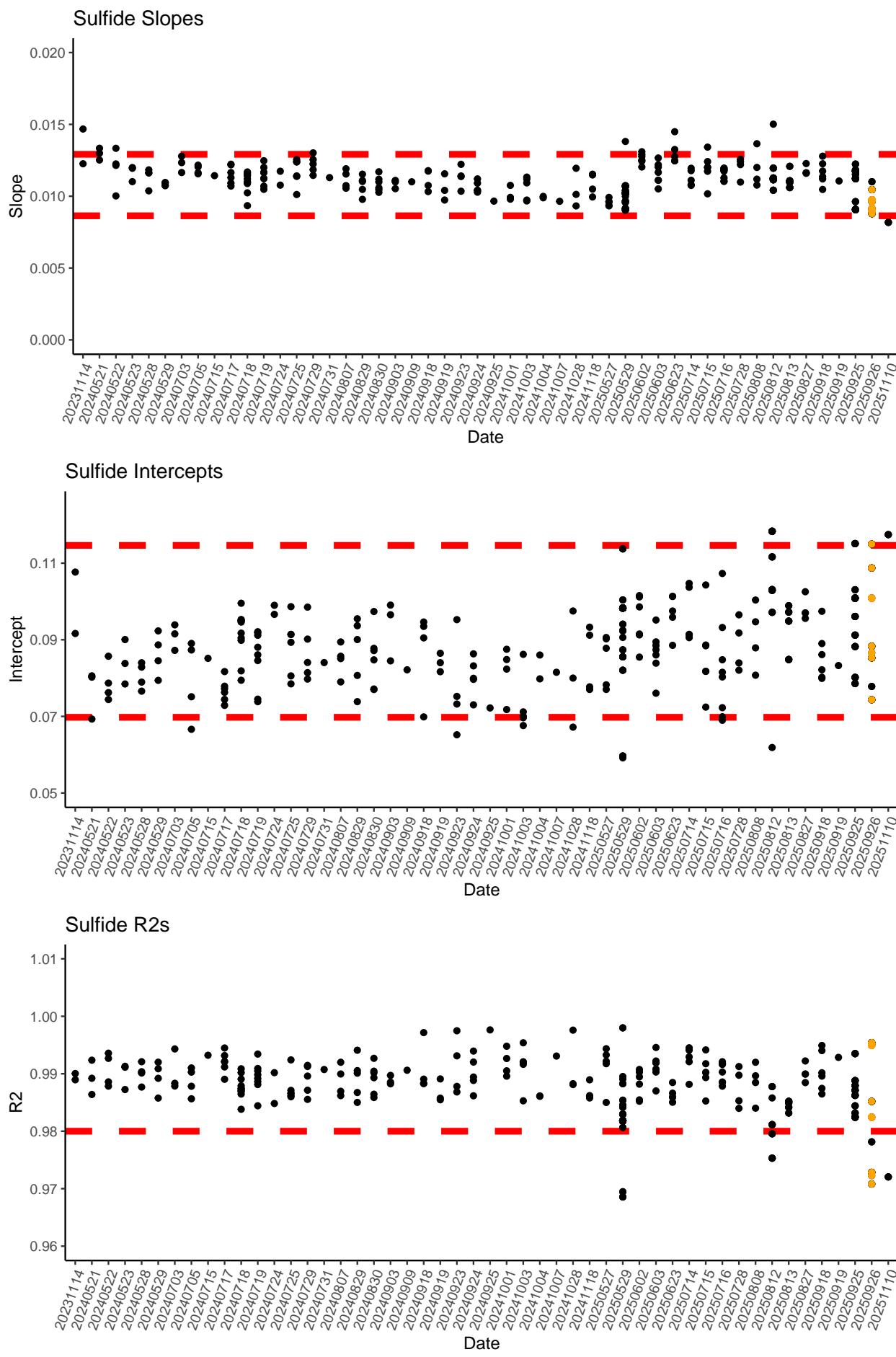
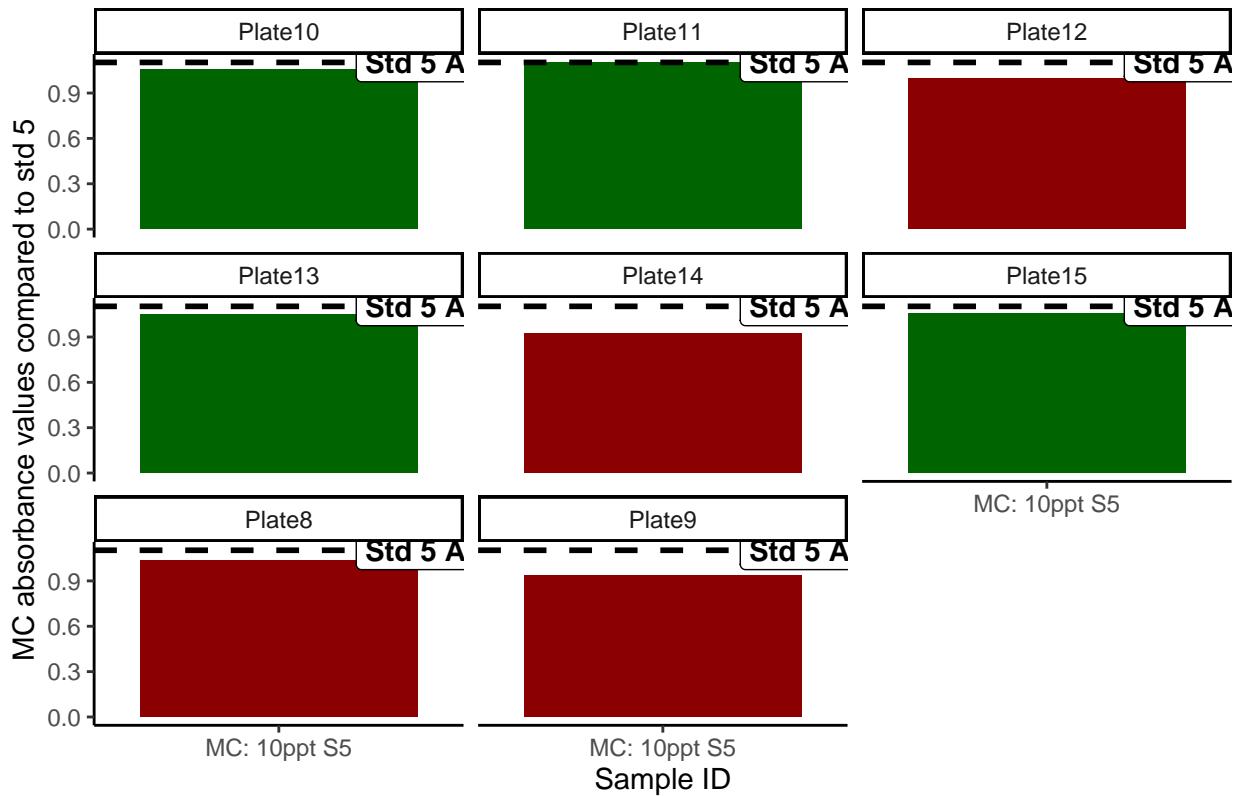


Table 1: Best std curve to use:

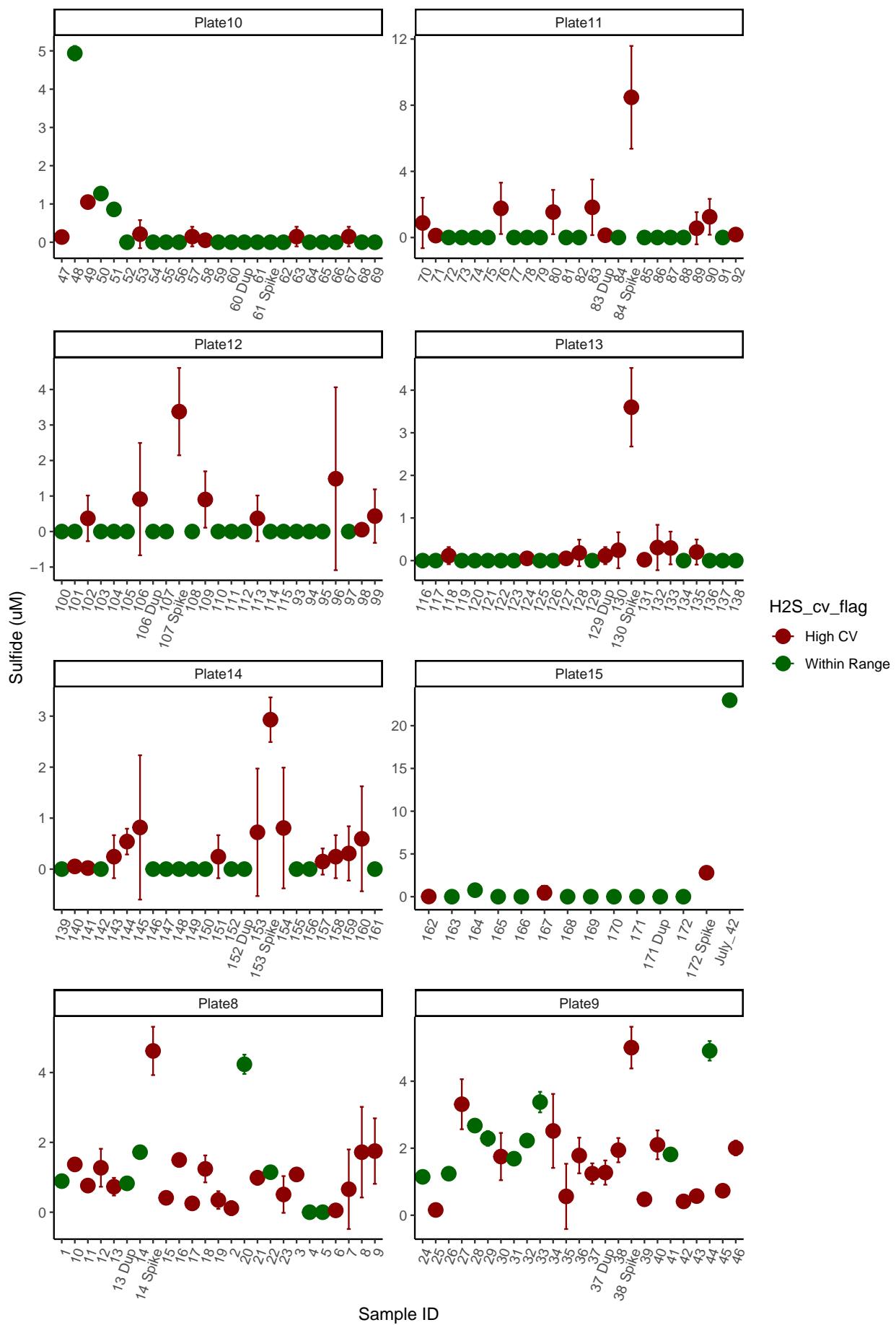
Date	Project	R2	Slope	Intercept	Top_STD	Plate
20250926	COMPASS	0.9954127	0.0104582	0.0743561	100	Plate15

## Matrix Check QAQC

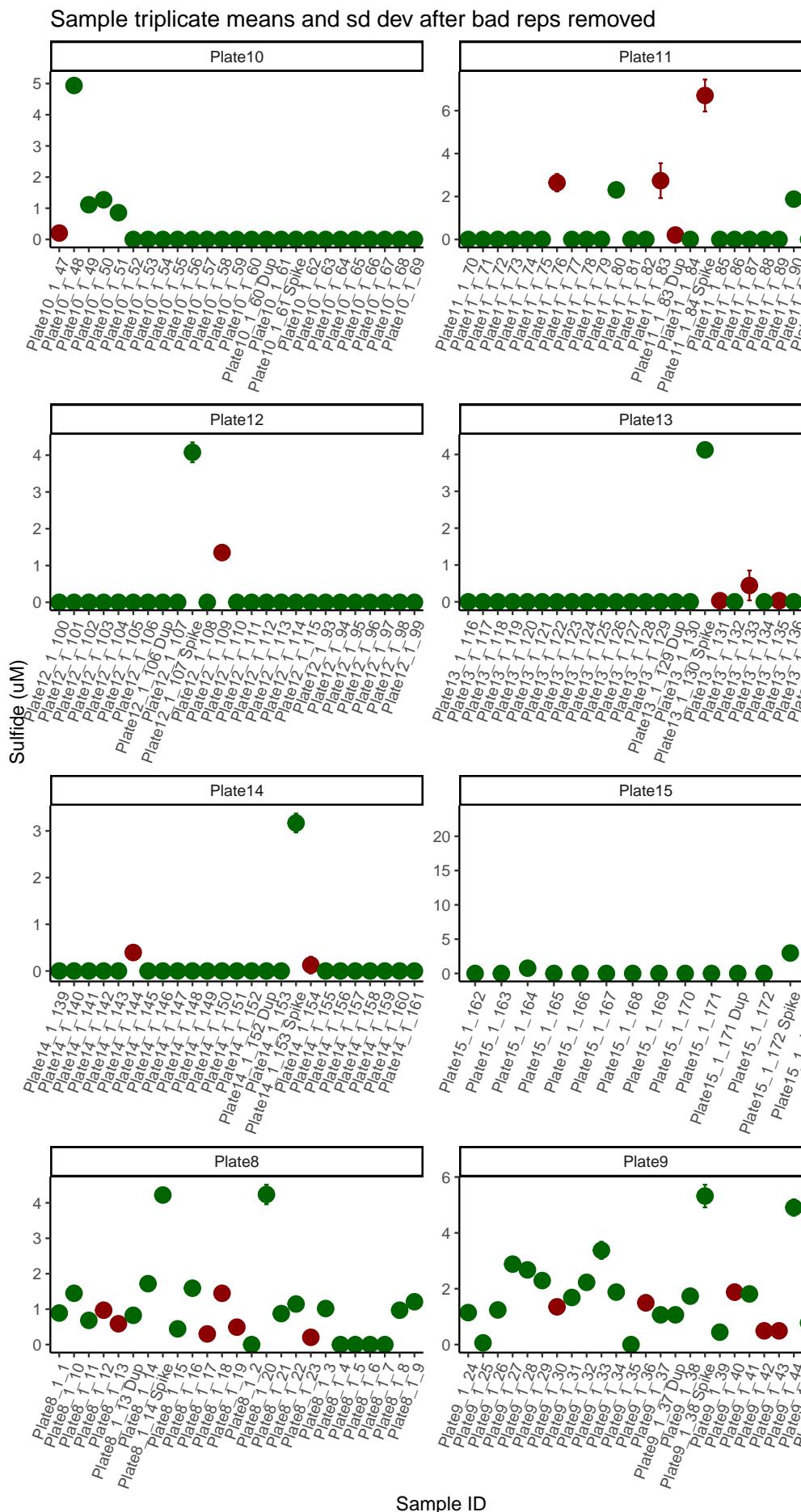
### Matrix Effects



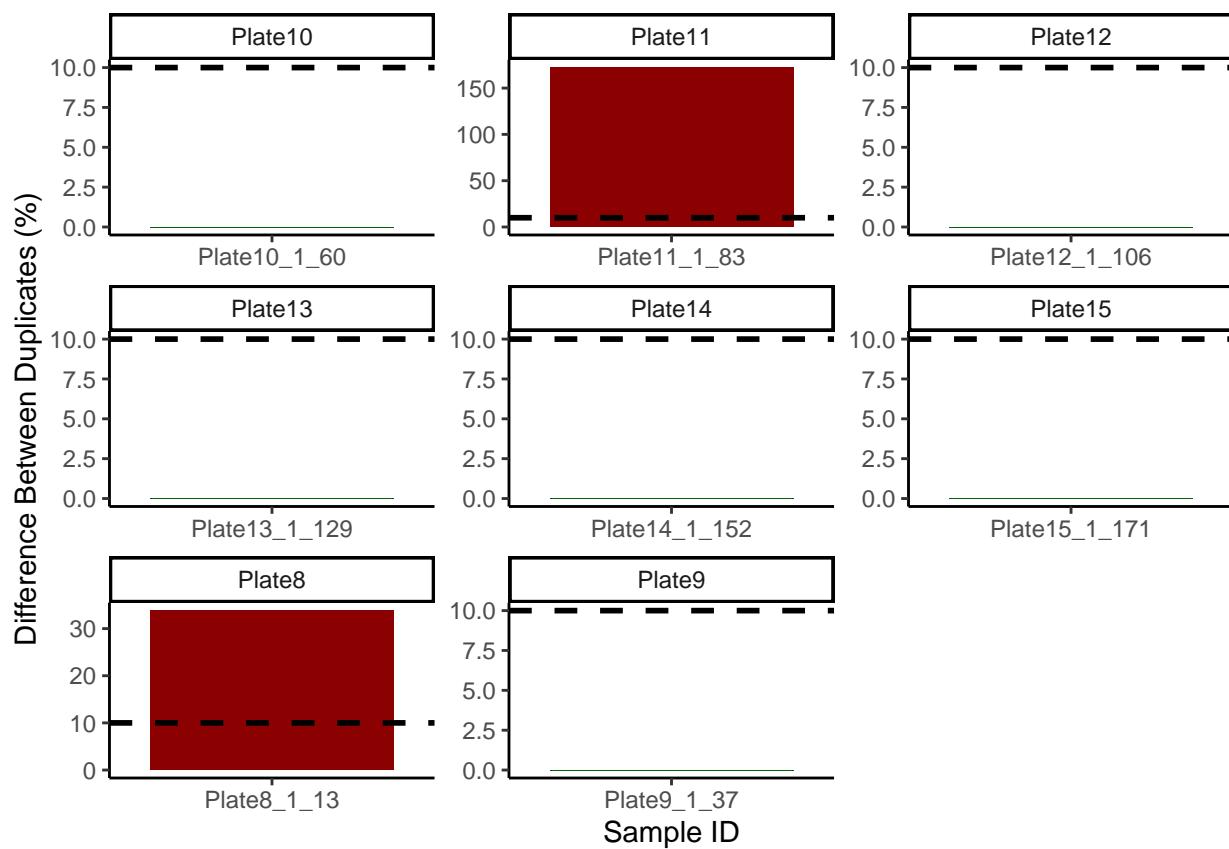
Sample triplicate means and sd dev before bad reps removed



## Remove bad reps

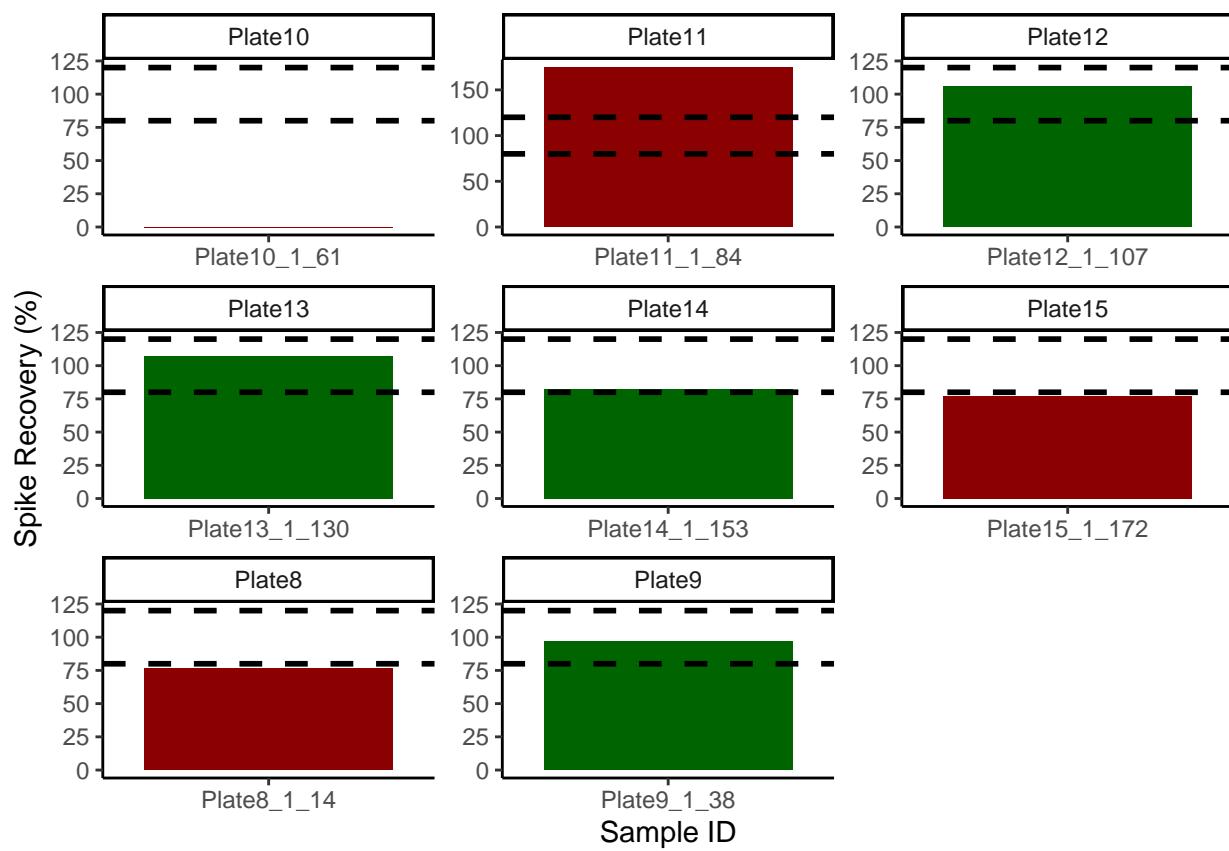


## Check the dups for QAQC



```
## [1] ">60% of Duplicates are within <10%"
```

## Check the spks for QAQC



```
## [1] "<60% of Spikes are out of range - REASSESS"
```

```
## ***All sample IDs are present in metadata.***
```

## Visualize Data by Plot

### Samples: Sulfide

