

APPENDIX

Media analysis was performed on biomass and media samples throughout the experiment, but no correlations could be made.

The first analysis was performed on 7-28-11.

Media analysis: ICP-MS

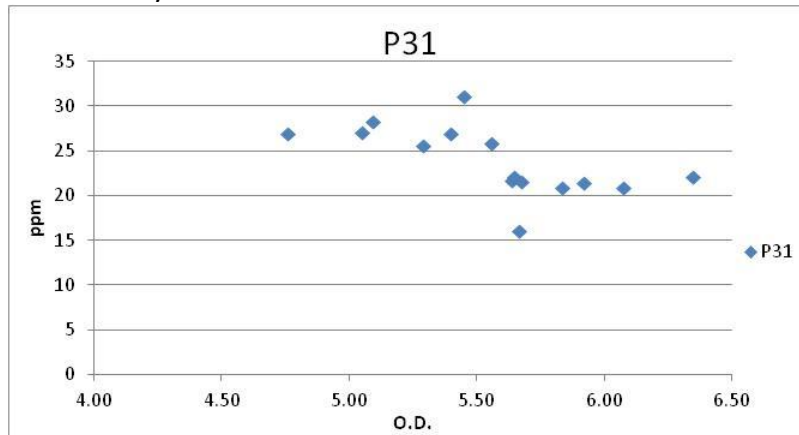


Figure 1: ICP-MS of P31 present in each sample vs. O.D.

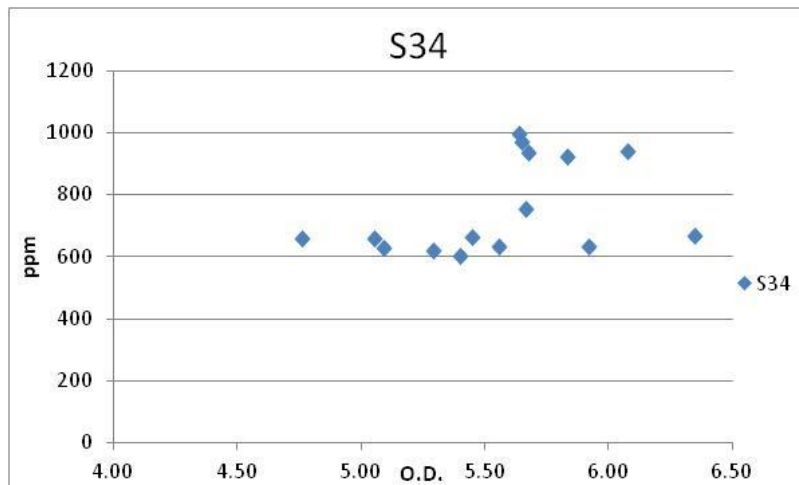


Figure 2: ICP-MS of S34 present in each sample vs. O.D.

Media analysis: IC-Anion

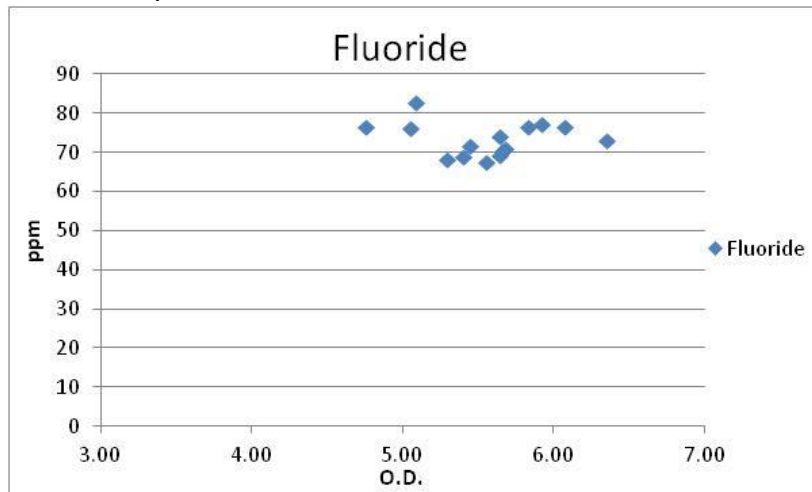


Figure 3: IC-Anion of Fluoride present in each sample vs. O.D.

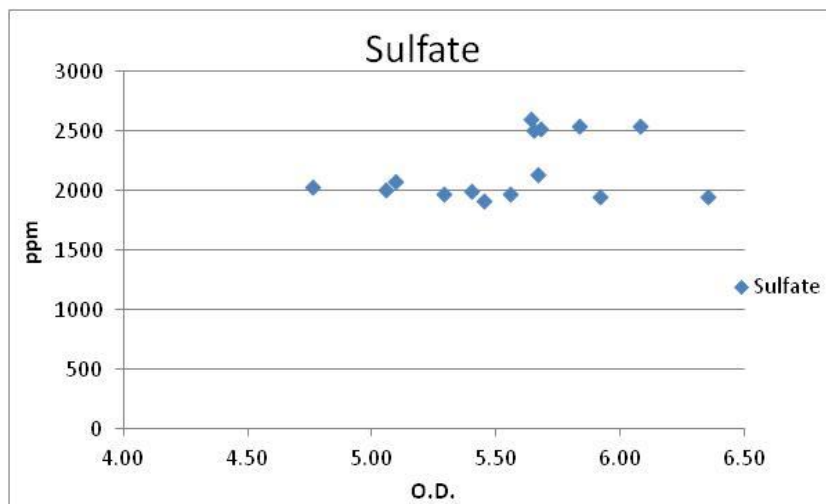


Figure 4: IC-Anion of Sulfate present in each sample vs. O.D.

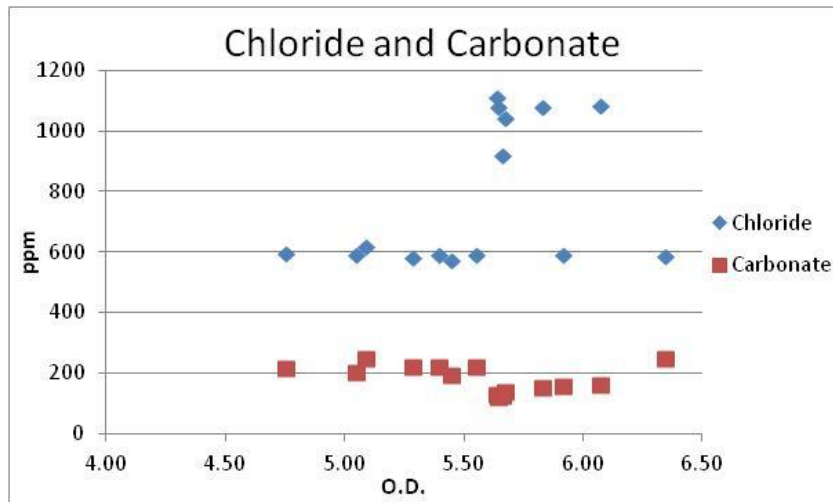


Figure 5: IC-Anion of Chloride and Carbonate present in each sample vs. O.D.

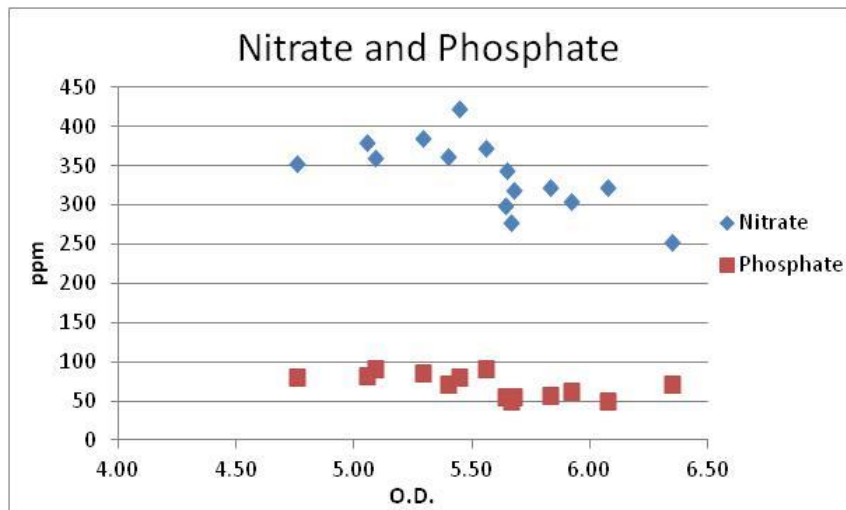


Figure 6: IC-Anion of Nitrate and Phosphate present in each sample vs. O.D.

Biomass analysis: ICP-MS

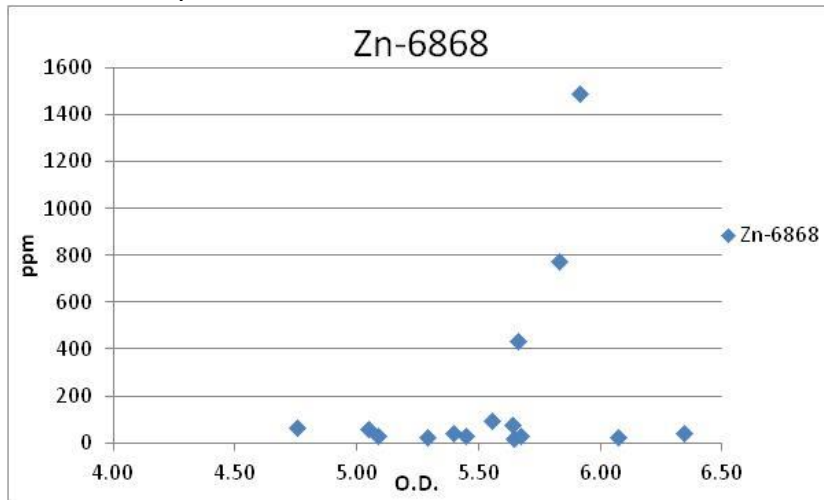


Figure 7: ICP-MS of Zn-6868 present in each sample vs. O.D.

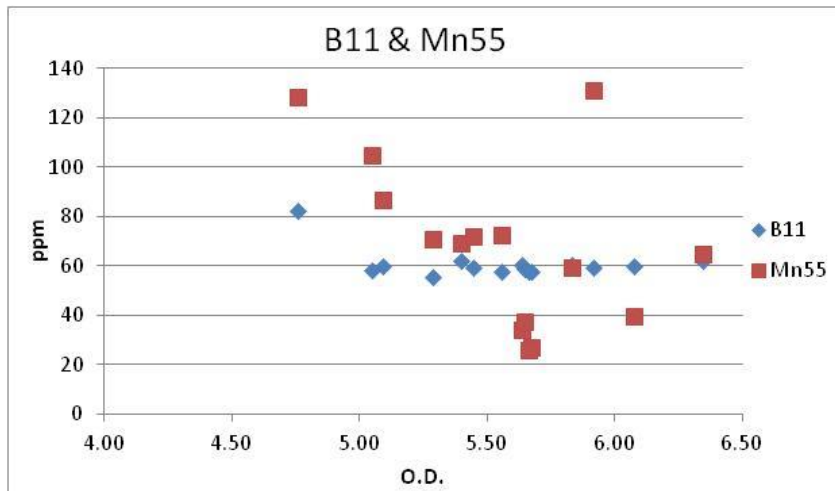


Figure 8: ICP-MS of B11 and Mn55 present in each sample vs. O.D.

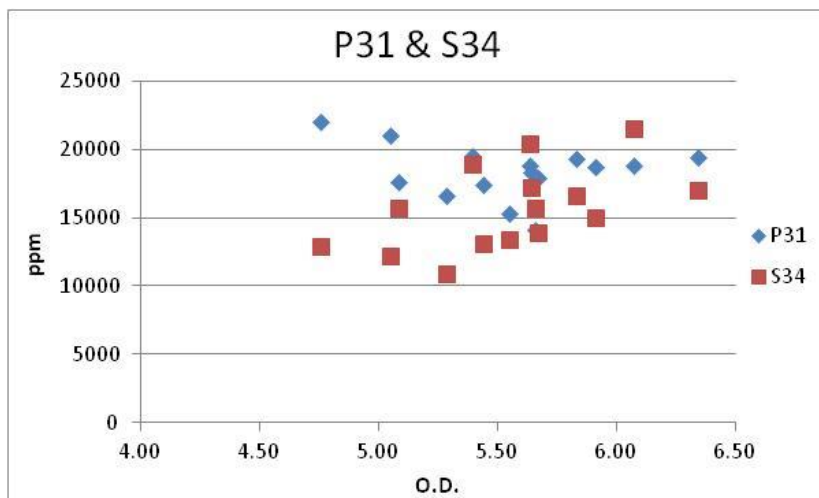


Figure 9: ICP-MS of P31 and S34 present in each sample vs. O.D.

The second analysis was performed on 9-7-11.

Media analysis: IC-Cation

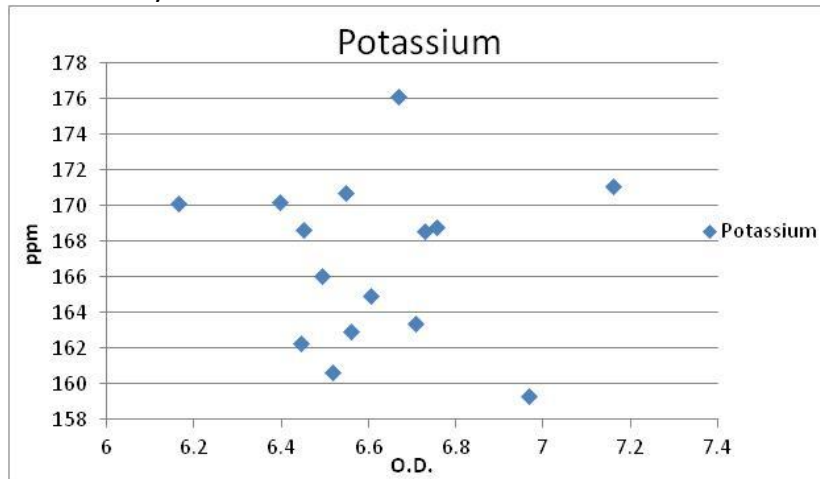


Figure 10: IC-Cation of Potassium present in each sample vs. O.D.

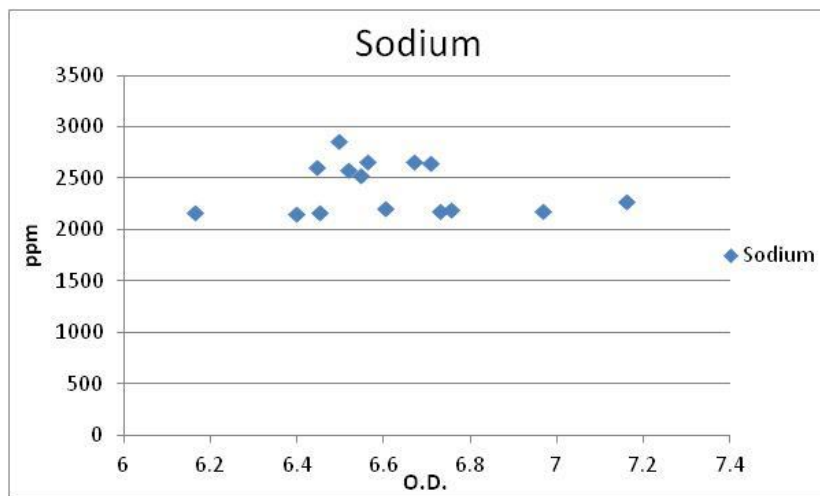


Figure 11: IC-Cation of Sodium present in each sample vs. O.D.

Media analysis: IC-Anion

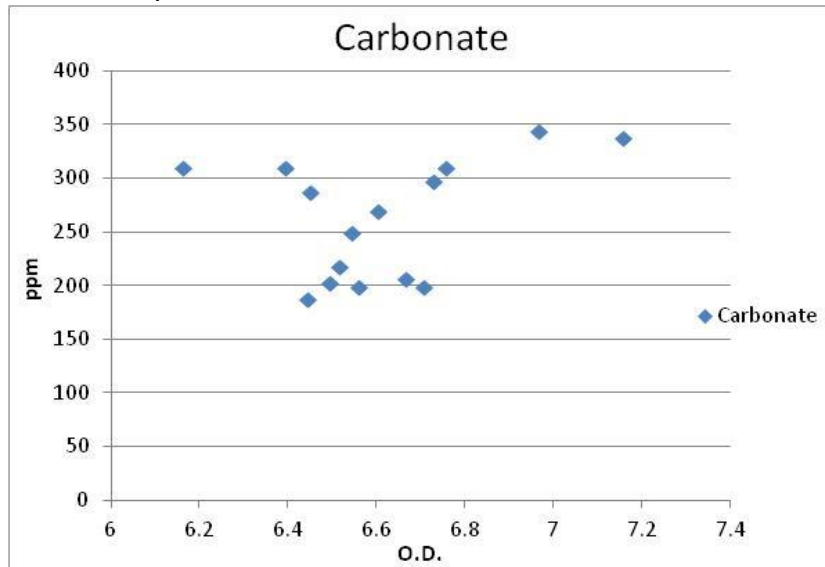


Figure 12: IC-Anion of Carbonate present in each sample vs. O.D.

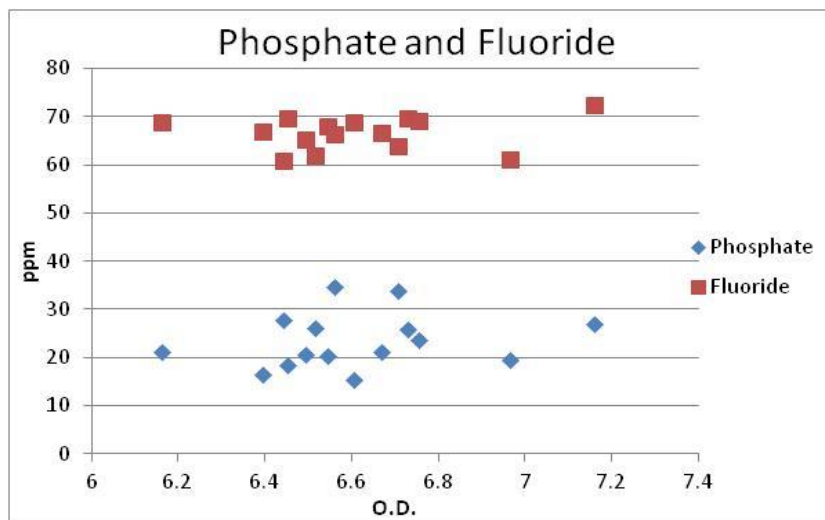


Figure 13: IC-Anion of Phosphate and Fluoride present in each sample vs. O.D.

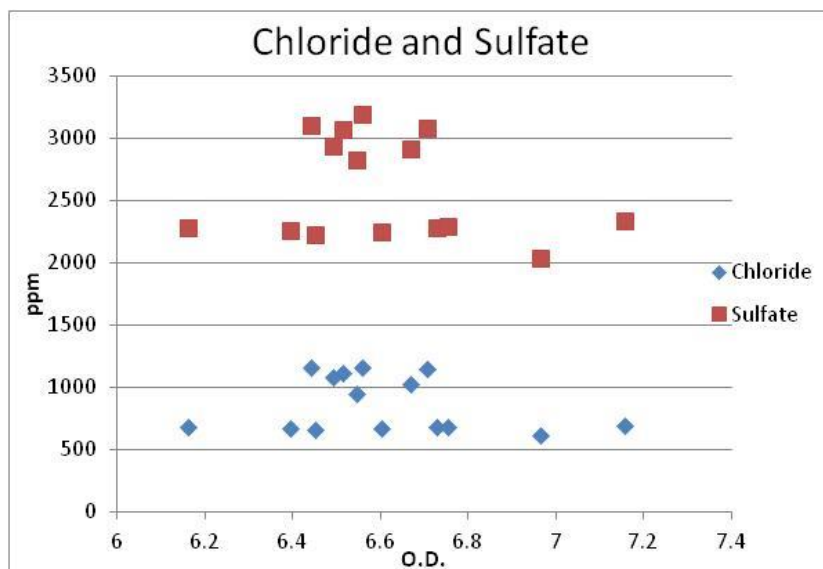


Figure 14: IC-Anion of Chloride and Sulfate present in each sample vs. O.D.

Biomass analysis: ICP-MS

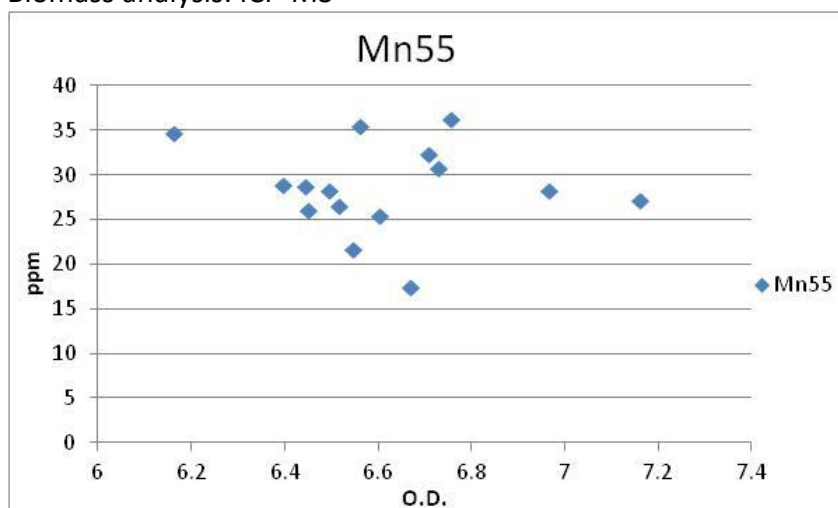


Figure 15: ICP-MS of Mn55 present in each sample vs. O.D.

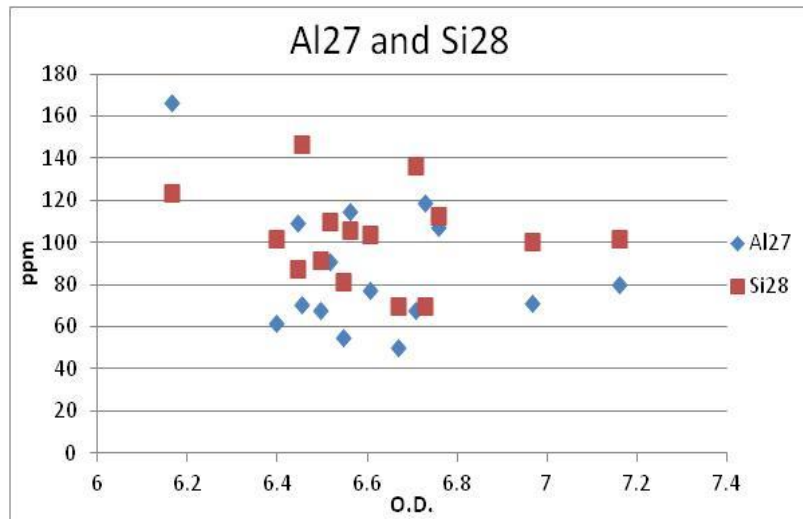


Figure 16: ICP-MS of Al27 and Si28 present in each sample vs. O.D.

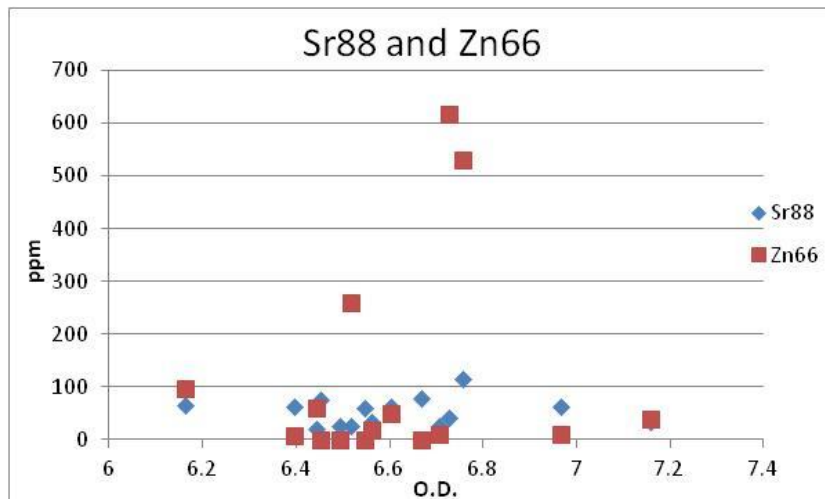


Figure 17: ICP-MS of Sr88 and Zn66 present in each sample vs. O.D.

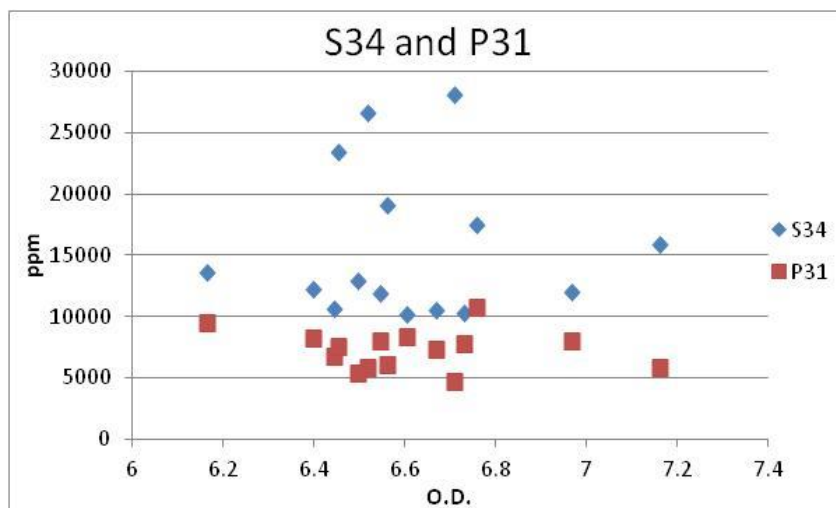


Figure 18: ICP-MS of S34 and P31 present in each sample vs. O.D.

The third analysis was performed on 9-28-11.

Media analysis: IC-Anion

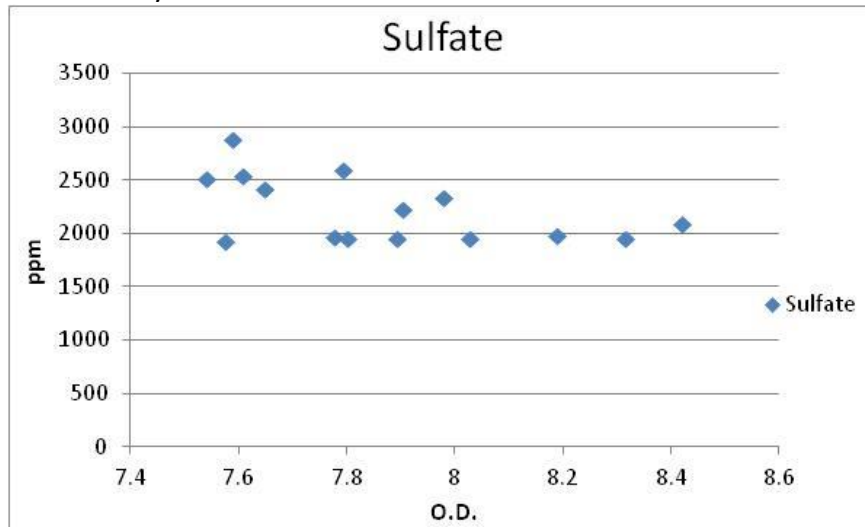


Figure 19: IC-Anion of Sulfate present in each sample vs. O.D.

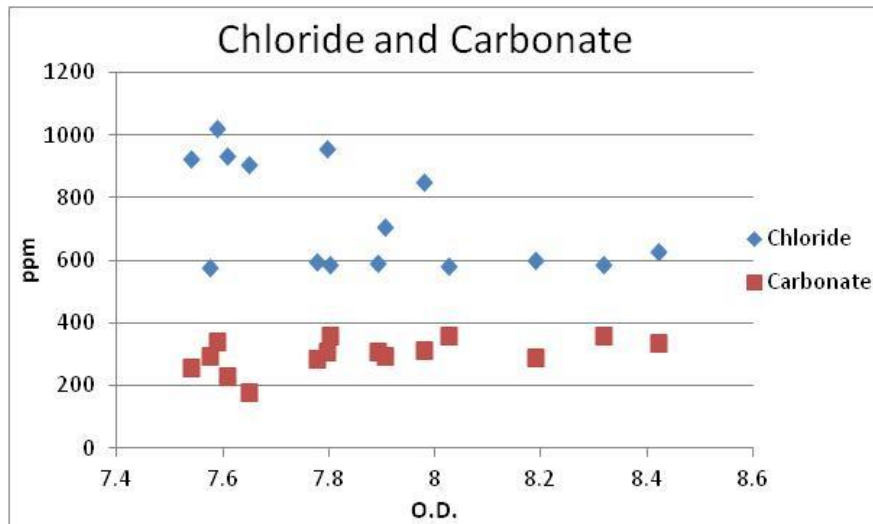


Figure 20: IC-Anion of Chloride and Carbonate present in each sample vs. O.D.

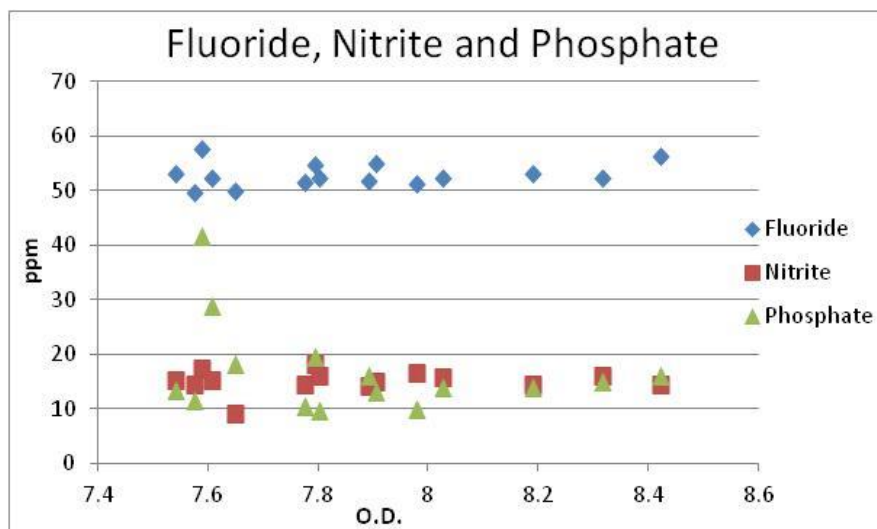


Figure 21: IC-Anion of Fluoride, Nitrite and Phosphate present in each sample vs. O.D.

Media analysis: IC-Cation

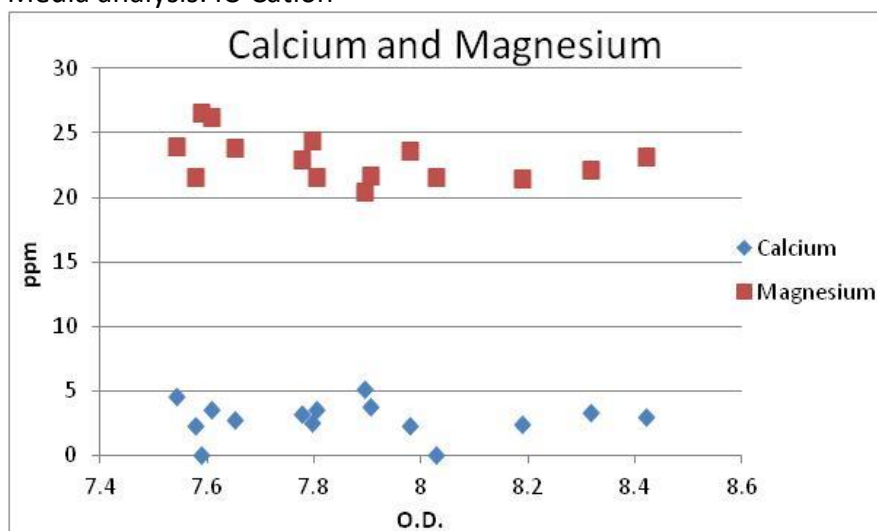


Figure 22: IC-Cation of Calcium and Magnesium present in each sample vs. O.D.

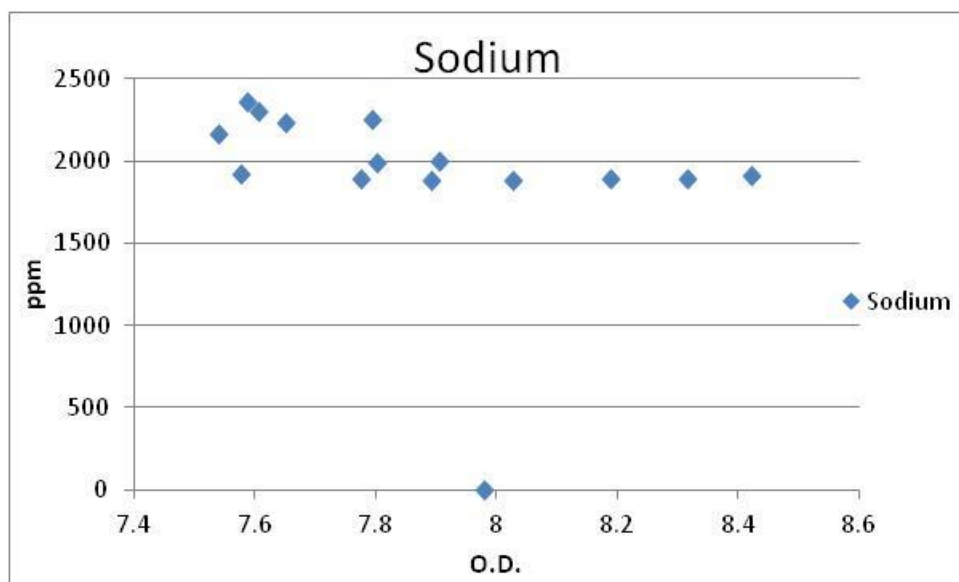


Figure 23: IC-Cation of Sodium present in each sample vs. O.D.

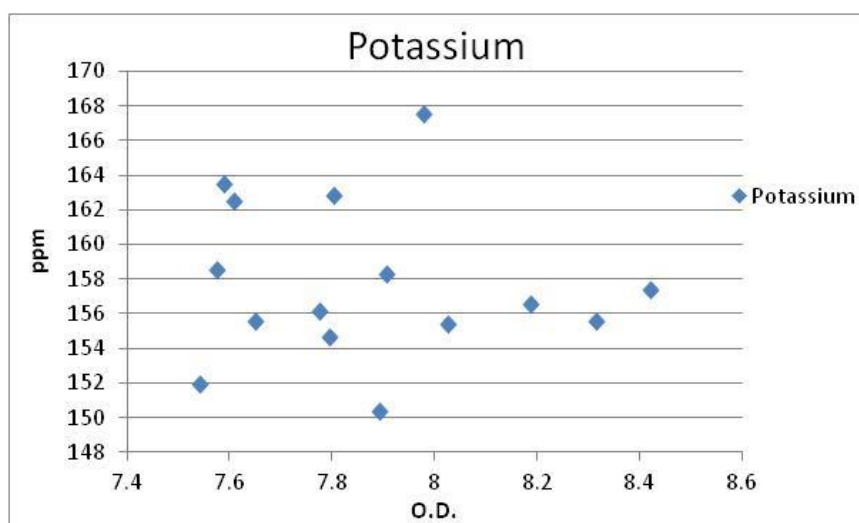


Figure 24: IC-Cation of Potassium present in each sample vs. O.D.

Biomass analysis: ICP-MS

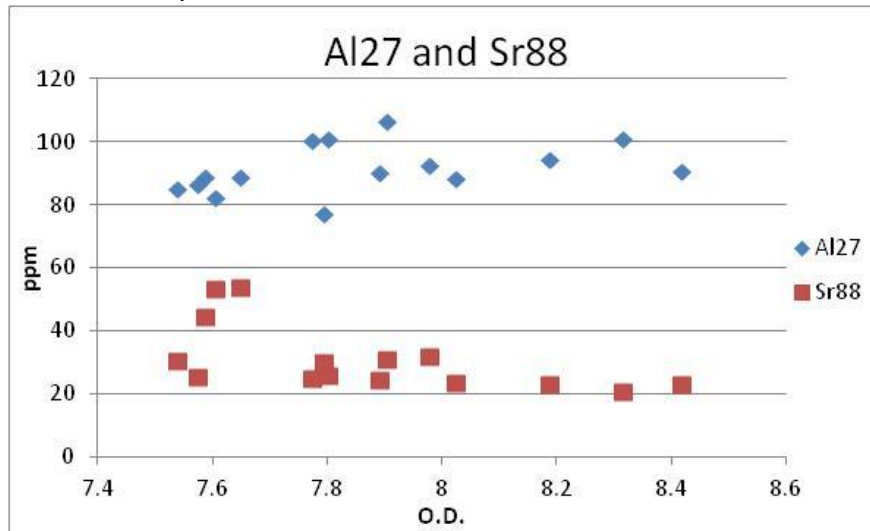


Figure 25: ICP-MS of Al²⁷ and Sr⁸⁸ present in each sample vs. O.D.

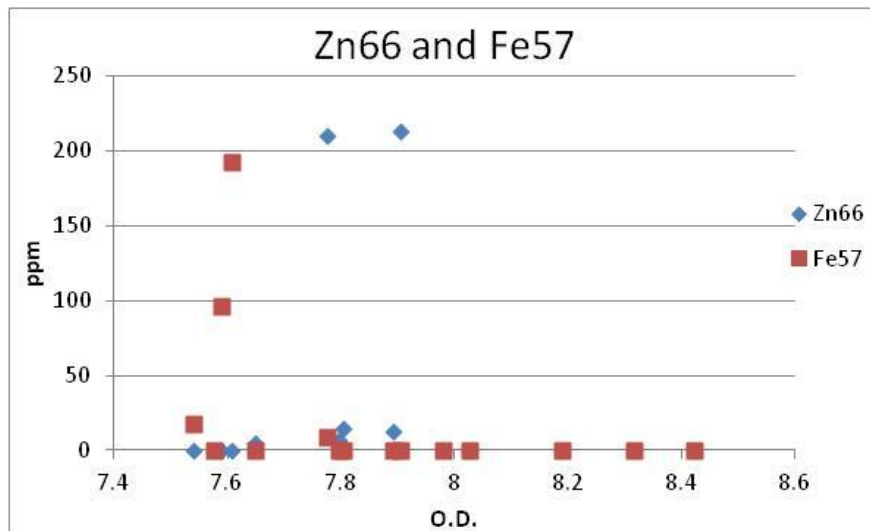


Figure 26: ICP-MS of Zn⁶⁶ and Fe⁵⁷ present in each sample vs. O.D.

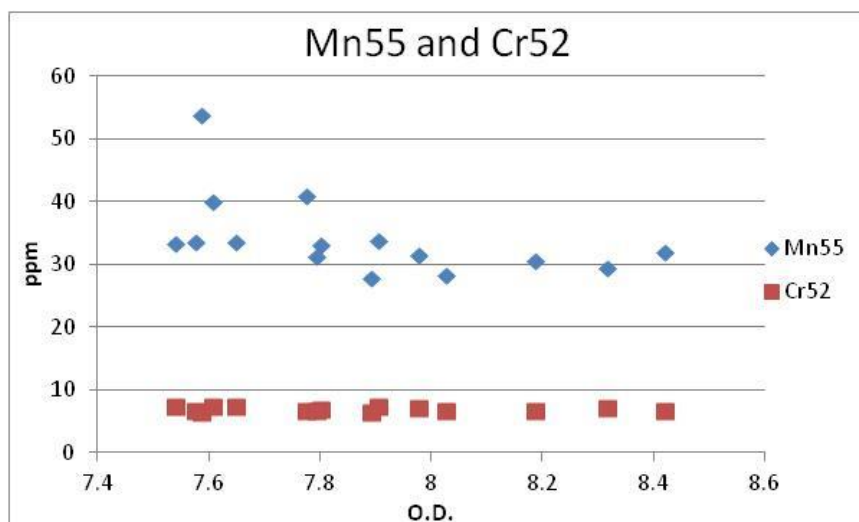


Figure 27: ICP-MS of Mn55 and Cr52 present in each sample vs. O.D.

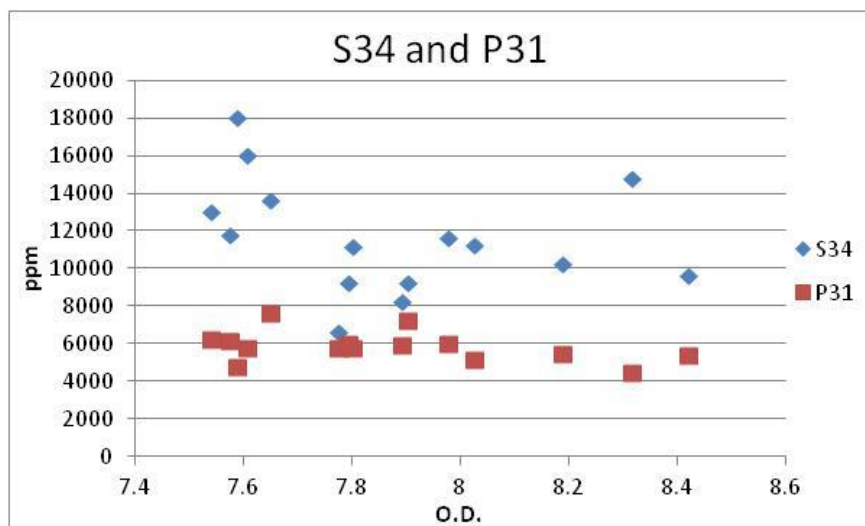


Figure 28: ICP-MS of S34 and P31 present in each sample vs. O.D.

Biomass analysis: IC-Cation

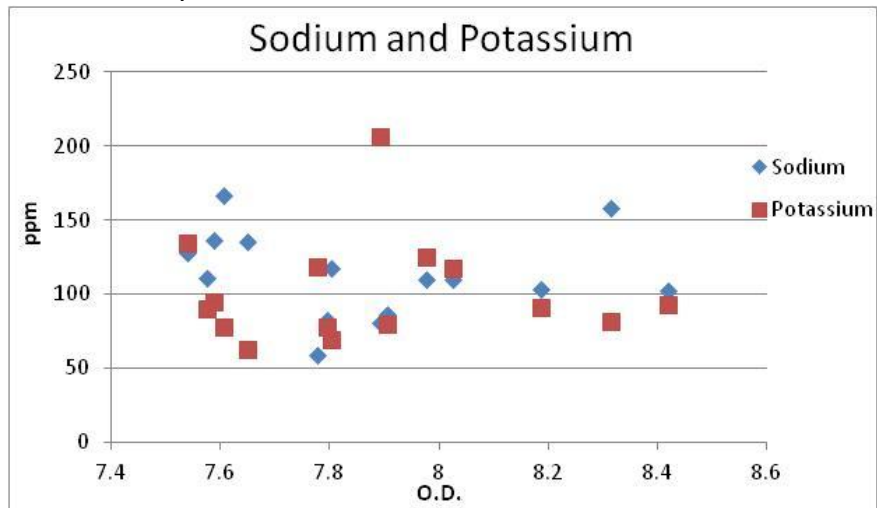


Figure 29: IC-Cation of Sodium and Potassium present in each sample vs. O.D.

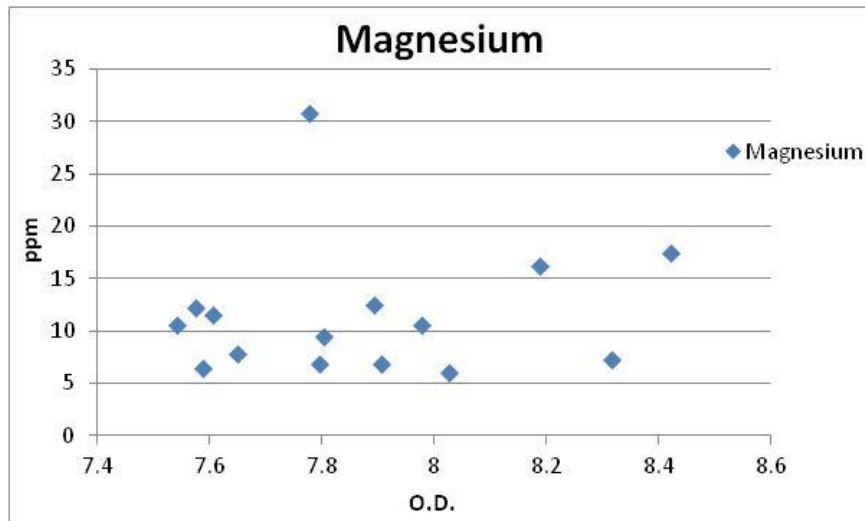


Figure 30: IC-Cation of Magnesium present in each sample vs. O.D.