

Supplementary Material

Table S1. Analytical methods used for different parameters in the present study

S. No.	Parameters	Analytical Method	Reference
1.	Bicarbonate	2320, Standard method (1992)	[1]
2.	Calcium (mg/L)	3500-Ca-D, Standard Method (1992)	[2]
3.	Chloride (mg/L)	Titration (Silver Nitrate), Standard Method (1992)	[3]
4.	Conductivity ($\mu\text{S}/\text{cm}$)	EC meter, Hach-44600-00, USA	[4]
5.	Hardness (mg/L)	EDTA Titration, Standard Method (1992)	[5]
6.	Magnesium (mg/L)	2340-C, Standard Method (1992)	[6]
7.	pH	pH Meter, Hanna Instrument Model 8519, Italy	[7]
8.	Potassium (mg/L)	Flame photometer PFP7, UK	[8]
9.	Sodium (mg/L)	Flame photometer PFP7, UK	[8]
10.	Sulfate (mg/L)	SulfaVer4 (Hach-8051) by Spectrophotometer	[9]
11.	TDS (mg/L)	2540C, Standard method (1992)	[10]

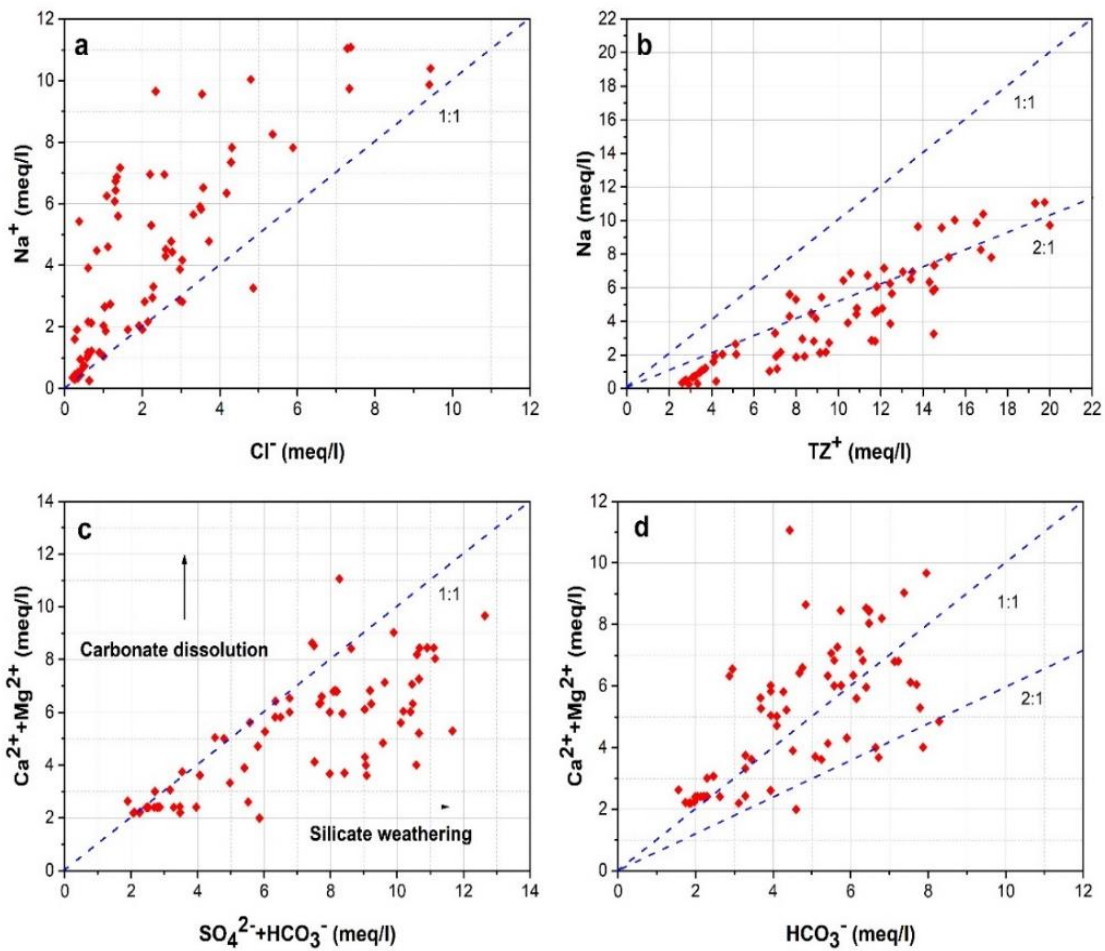


Figure S1. Relationship between ions (a) Na⁺ versus Cl⁻; (b) Na⁺ versus TZ⁺; (c) Ca²⁺ + Mg²⁺ versus HCO₃⁻; (d) Ca²⁺ + Mg²⁺ versus SO₄²⁻ + HCO₃⁻

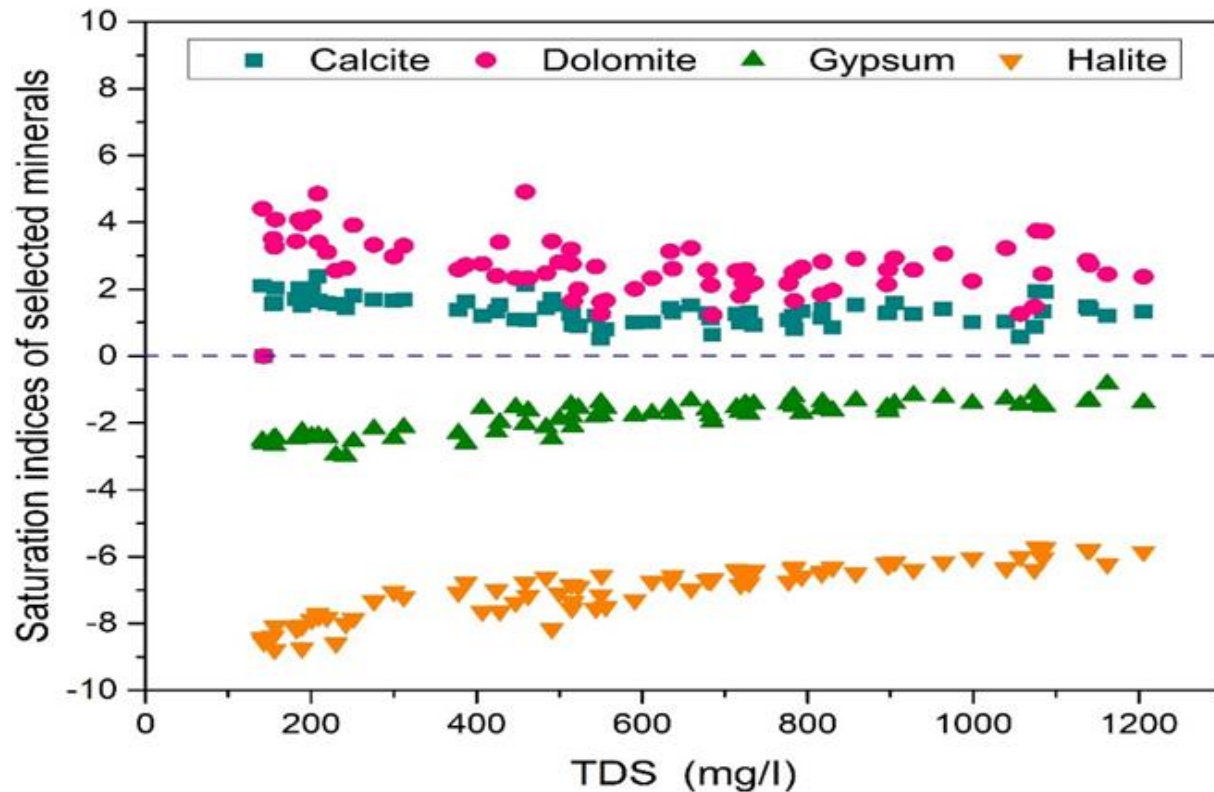


Figure S2: Saturation Indices of selected mineral

Reference

- [1] American Public Health Association, "APHA Method 2320: Standard Methods for the Examination of Water and Wastewater," 1992.
- [2] A. P. H. Association, "APHA Method 3500-CA:Standard Methods for the Examination of Water and Wastewater", 1992.
- [3] AMERICAN PUBLIC HEALTH ASSOCIATION, "Titration (Silver Nitrate):Standard Methods for the Examination of Water and Wastewater", 1992.
- [4] H. C. M. 44600 C. M. M. 1989, "HACH Company Model 44600 Conductivity/TDS Meter Manual." .
- [5] A. P. H. ASSOCIATION, "EDTA Titration:Standard Methods for the Examination of Water and Wastewater", 1992.
- [6] American Public Health Association, "2340-C:Standard Methods for the Examination of Water and Wastewater", 1992.

- [7] pH Meter, Hanna Instrument Model 8519, Instruction Manual. 1995.
- [8] Flame Photometer Models PFP7 and PFP7/C: Instruction Manual 500 795/REV E/03-17.
- [9] DR/4000 PROCEDURE SulfaVer 4 Method 8051, user manual.
- [10] American Public Health Association, "2540C" Standard Methods for the Examination of Water and Wastewater," 1992.