

## Appendix C: Surrogate Relationships between EC and Salts

Table 1. Surrogate Relationships between EC and TDS, Sulfate, Chloride, or Boron at all Compliance Sites<sup>1</sup>

Constituent	Site	Number of Samples	Surrogate Relationship	R <sup>2</sup>
TDS	9A_HOWAR	9	TDS = 0.65*EC – 43.12	0.996
	03_UNIV	14	TDS = 0.65*EC – 30.19	0.992
	04_WOOD	14	TDS = 0.95*EC – 248.69	0.989
	9B_BARON	9	TDS = 0.64*EC – 28.50	0.990
	07_HITCH-S	9	TDS = 0.82*EC – 208.12	0.993
Sulfate	9A_HOWAR	9	SO4 = 0.18*EC – 28.99	0.979
	03_UNIV	14	SO4 = 0.16*EC – 10.90	0.982
	04_WOOD	14	SO4 = 0.46*EC – 99.60	0.985
	9B_BARON	9	SO4 = 0.16*EC – 21.89	0.977
	07_HITCH-S	9	SO4 = 0.32*EC – 84.87	0.991
Chloride	9A_HOWAR	9	Cl = 0.13*EC – 13.51	0.998
	03_UNIV	14	Cl = 0.13*EC – 22.43	0.989
	04_WOOD	14	Cl = 0.04*EC + 1.29	0.968
	9B_BARON	9	Cl = 0.13*EC – 11.59	0.975
	07_HITCH-S	9	Cl = 0.11*EC – 23.31	0.977
Boron	04_WOOD	9	B = 0.0004*EC – 0.05	0.753
	07_HITCH-S	9	B = 0.0005*EC – 0.08	0.898

<sup>1</sup>Surrogate relationships based on grab data from January – June 2011

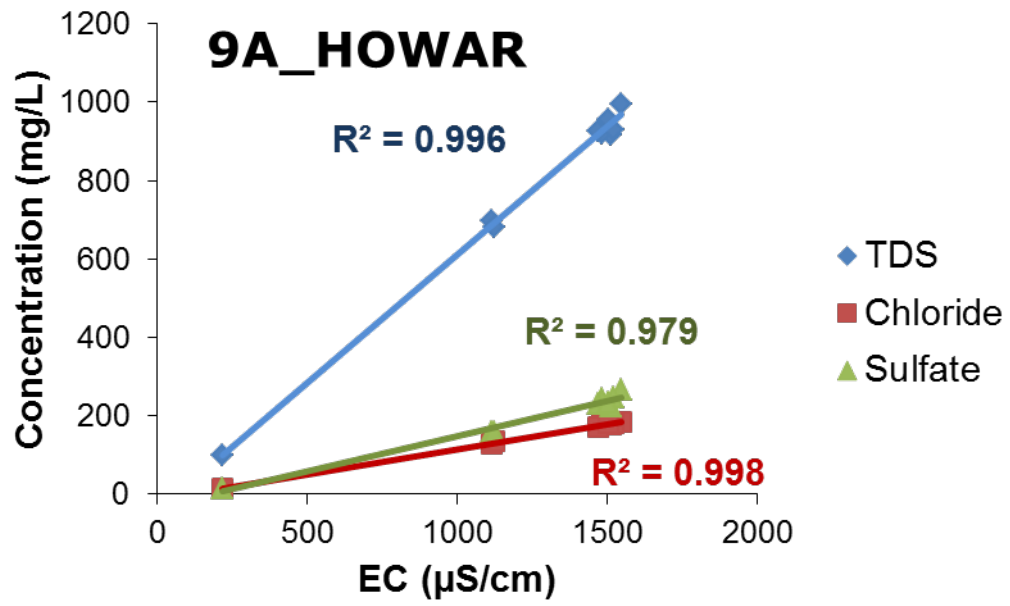


Figure 1. Surrogate Relationships for TDS, Sulfate and Chloride at 9A\_HOWAR using grab sample data from Jan.-June, 2011.

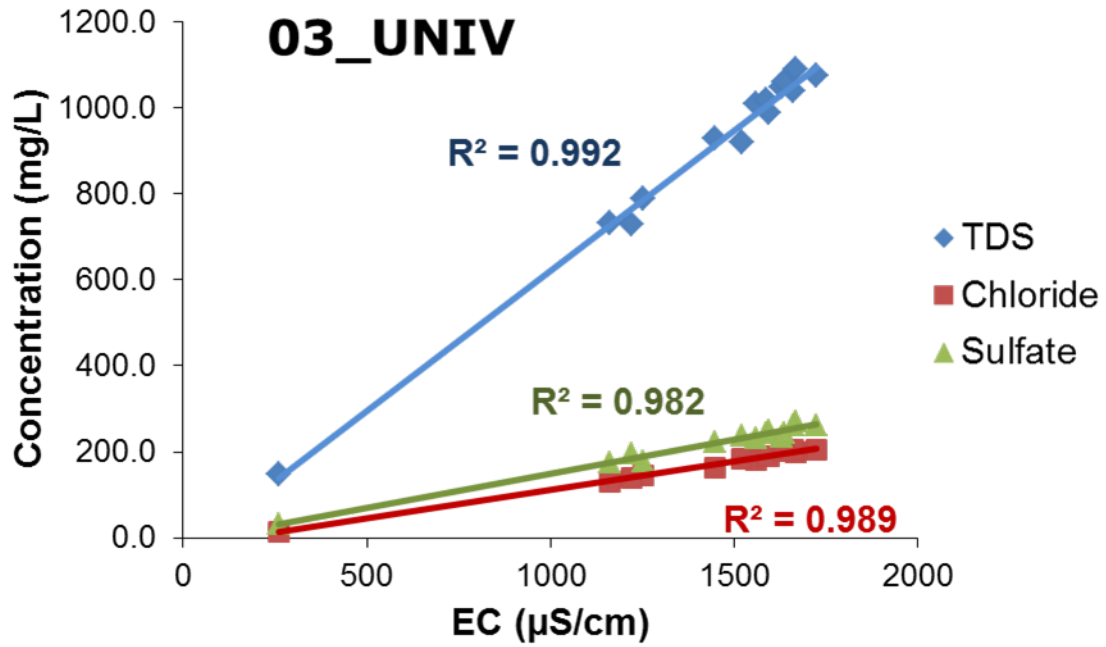


Figure 2. Surrogate Relationships for TDS, Sulfate and Chloride at 03\_UNIV using grab sample data from Jan.-June, 2011.

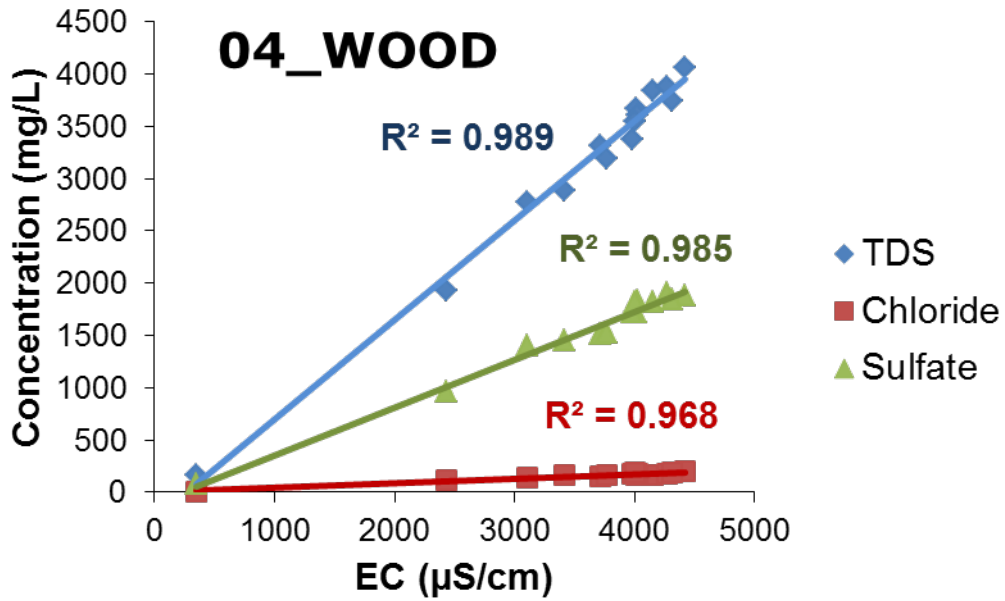


Figure 3. Surrogate Relationships for TDS, Sulfate and Chloride at 04\_WOOD using grab sample data from Jan.-June, 2011.

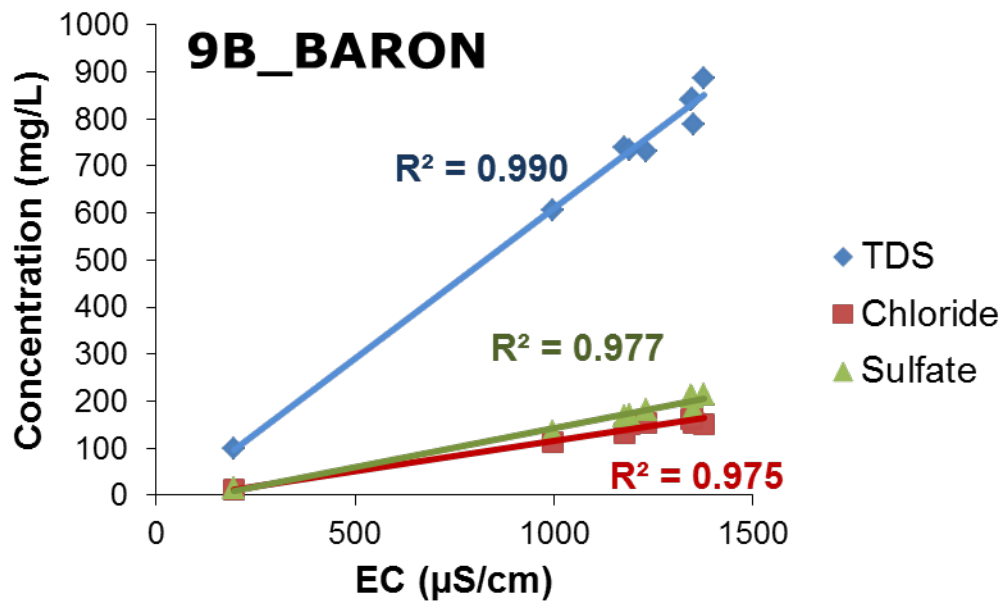


Figure 4. Surrogate Relationships for TDS, Sulfate and Chloride at 9B\_BARON using grab sample data from Jan.-June, 2011.

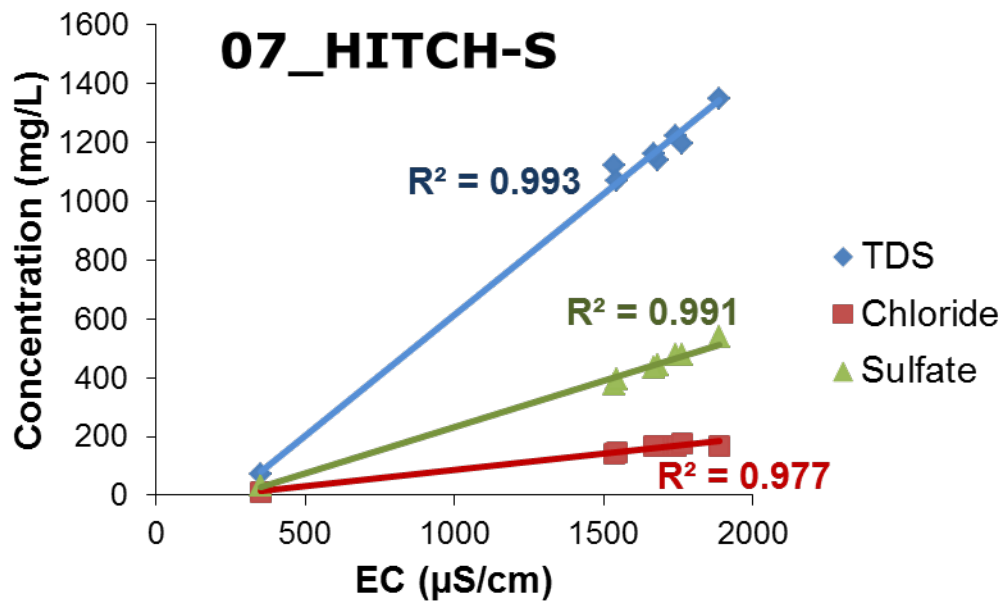


Figure 5. Surrogate Relationships for TDS, Sulfate and Chloride at 07\_HITCH-S using grab sample data from Jan.-June, 2011.

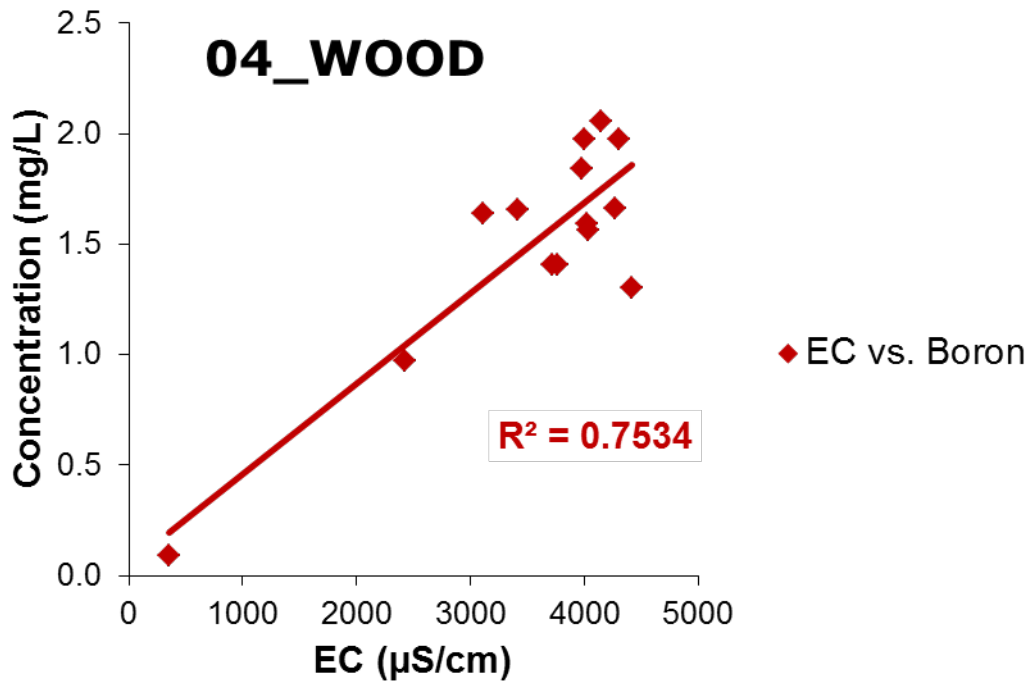


Figure 6. Surrogate Relationship for Boron at 04\_WOOD using grab sample data from Jan.-June, 2011.

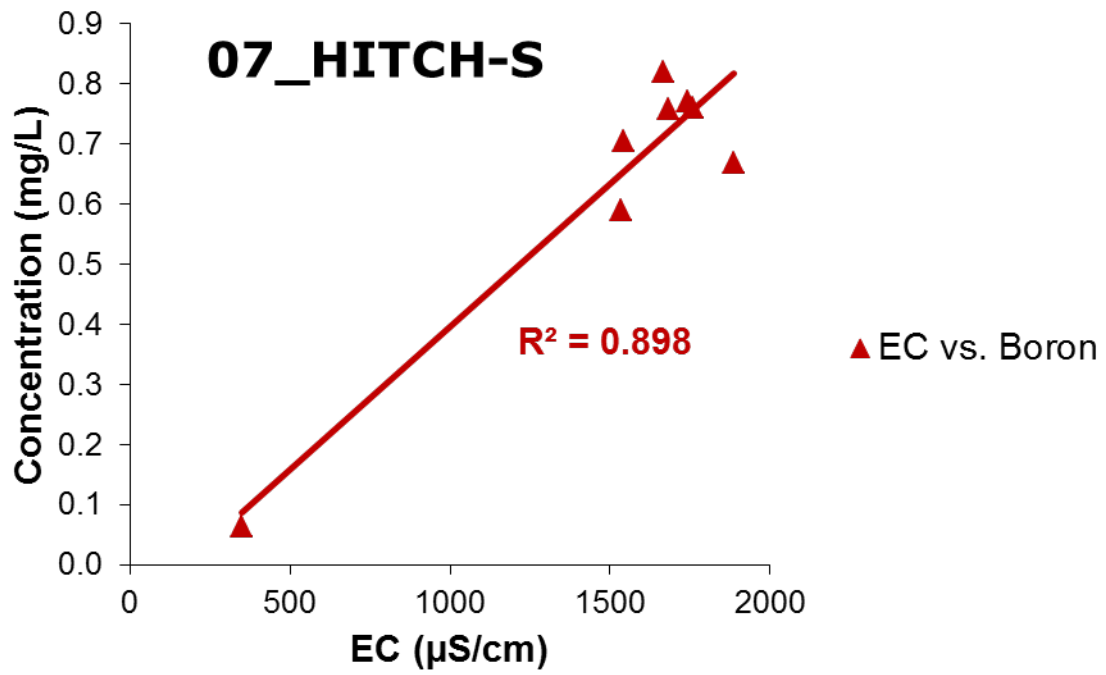


Figure 7. Surrogate Relationship for Boron at 07\_HITCH-S using grab sample data from Jan.-June, 2011.