

Table 4
Osoyoos Ambient Network
Summary Statistics
(uncensored data)

Laboratory Parameter	unit	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11] = [6] / [3]	[12] = [9] / [3]	[13] = [10] / [3]	[14]	[15]	[16]	[17] = ([6]- [5]) / [15]	[18]	
		Label	GCDWQ	Background	N	Min	Max	Mode	Median	Arith. Mean	Geo. Mean	Max / Backgrd	Arith. Mean / Backgrd	Geo. Mean / Backgrd	Skewness (for Normal distrib Skew = 0)	Kurtosis (for Normal distrib Kurt = 0)	StDev (sd)	Studentized Range Test	Normal Distr.	
Alkalinity Total 4.5 (mg/L)	mg/L	Alkalinity	n.a.	200	387	105.0	525.0	270.0	275.0	280.8	276.9	263%	140%	138%	0.49	2.88	51.32	8.18	no	Alkalinity
Ammonia - Dissolved (mg/L)	mg/L	NH4	n.a.	0.005	429	0.005	4.570	0.005	0.005	0.046	0.000	2%	0%	0%	13.96	234.83	0.26	17.88	no	NH4
Arsenic - Total (mg/L)	mg/L	As	0.01	0.001	316	0.001	0.300	0.040	0.006	0.024	0.000	0%	0%	0%	4.02	28.55	0.03	8.96	no	As
Bicarbonate (mg/L)	mg/L	HCO3	n.a.	300	28	150.0	450.0	330.0	340.0	346.8	340.6	225%	173%	170%	-0.89	2.92	60.50	4.96	no	HCO3
Calcium - Total (mg/L)	mg/L	Ca	n.a.	90.0	314	4.6	226.0	110.0	109.4	106.9	102.8	113%	53%	51%	-0.12	3.33	24.17	9.16	no	Ca
Chloride - Dissolved (mg/L)	mg/L	Cl	250	7.0	429	3.9	195.0	16.0	16.4	23.0	17.8	98%	12%	9%	3.53	16.65	22.11	8.64	no	Cl
Iron - Total (mg/L)	mg/L	Fe	0.3	0.003	314	0.001	167.000	0.005	0.016	2.311	0.000	84%	1%	0%	9.18	90.88	15.22	10.97	no	Fe
Fluoride - Dissolved (mg/L)	mg/L	Fl	1.5	0.2	296	0.18	0.68	0.35	0.36	0.37	0.36	0%	0%	0%	0.66	1.19	0.08	6.07	yes	Fl
Hardness - Total (mg/L)	mg/L	Hardness	n.a.	300.0	206	128.0	639.0	355.0	359.5	365.6	356.3	320%	183%	178%	0.20	1.67	78.79	6.49	no	Hardness
Potassium - Total (mg/L)	mg/L	K	n.a.	4	215	0.73	15.00	6.00	6.00	6.68	6.34	8%	3%	3%	1.12	1.81	2.19	6.52	no	K
Magnesium - Total (mg/L)	mg/L	Mg	n.a.	12.0	314	0.77	85.90	18.30	21.25	25.42	23.75	43%	13%	12%	1.70	4.16	11.49	7.41	no	Mg
Manganese - Total (mg/L)	mg/L	Mn	0.05	0.001	314	0.0001	18.1000	0.0010	0.0020	0.1282	0.0000	9%	0%	0%	15.36	254.04	1.07	16.87	no	Mn
Sodium - Total (mg/L)	mg/L	Na	200	20	215	9.6	115.0	20.9	26.3	28.5	26.9	58%	14%	13%	3.90	22.41	11.89	8.87	no	Na
Nitrite Nitrogen - Dissolved (mg/L)	mg/L	NO2	n.a.	0.002	378	0.002	2.020	0.005	0.005	0.014	0.000	1%	0%	0%	17.03	309.62	0.11	18.55	no	NO2
Nitrogen - Total (mg/L)	mg/L	NO3	10	0.5	209	0.16	48.90	11.00	7.23	8.88	6.14	24%	4%	3%	1.71	6.05	6.76	7.21	no	NO3
Total Dissolved Solids (mg/L)	mg/L	TDS	500	300	423	4.0	1590.0	480.0	510.0	514.9	486.2	795%	257%	243%	1.50	11.89	128.09	12.38	no	TDS
Conductivity (uS/cm)	uS/cm	Conductance	n.a.	600	402	8.0	1340.0	790.0	758.0	768.3	734.0	670%	384%	367%	0.06	1.89	158.10	8.43	no	Conductance
Sulfate - Dissolved (mg/L)	mg/L	SO4	500	40	382	12.0	186.0	54.0	62.5	68.5	64.5	93%	34%	32%	1.45	3.10	25.55	6.81	no	SO4
Uranium - Total (mg/L)	mg/L	U	0.02	0.0025	108	0.0023	0.0304	0.0154	0.0078	0.0091	0.0078	0%	0%	0%	1.71	3.29	0.01	4.98	yes	U
pH (pH units)	pH units	pH	6.5 to 8.5	7.6	430	7.20	8.60	8.00	8.00	7.91	7.90	4%	4%	4%	-0.28	0.19	0.26	5.45	yes	pH
Dissolved : Chloride / Fluoride		Cl/Fl	n.a.	n.a.	433	10.0	661.1	40.0	46.3	43.8	50.7	331%	22%	25%	4.66	36.61	59.44	10.95	no	Cl/Fl

- NOTES:
- (1) **8.420** Yellow Box with Red Value - value is greater than or equal to GCDWQ
 - (2) **8.420** Yellow Box with Blue Value - value is greater than or equal to 85% GCDWQ
 - (3) Min, Max, Mode, Median, Arithmetic Mean, Geometric Mean values (see Cols [5] - [10]) are standard parametric statistical methods.
 - (4) Geometric Mean formula has limitations. A workaround was found for some calculations that errored out. All values are for interest purposes ONLY.
 - (5) Ratios in Cols [11] to [13] are cursory indications of potential extreme outliers
 - (6) Skewness, Kurtosis, Standard Deviation, Studentized Range Test (see Cols [14] to [18]) are indicators of normal tendencies