



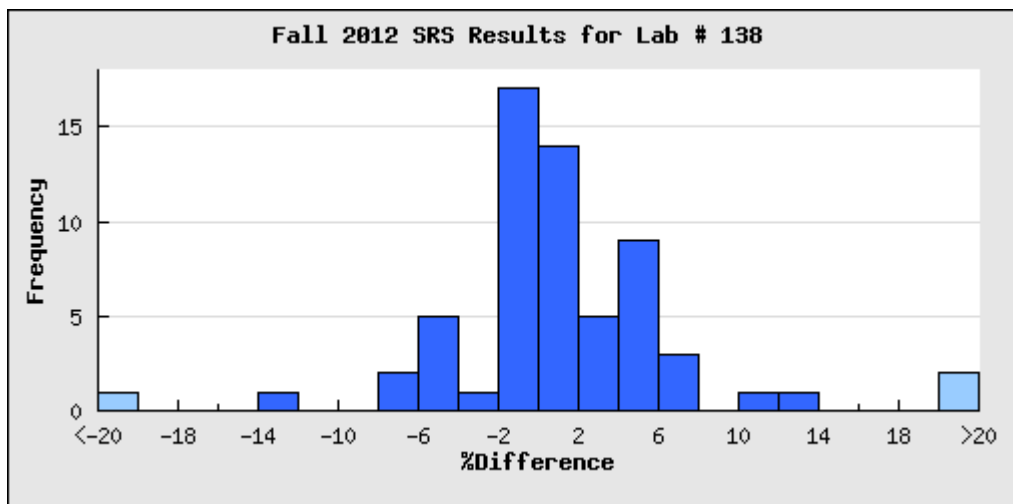
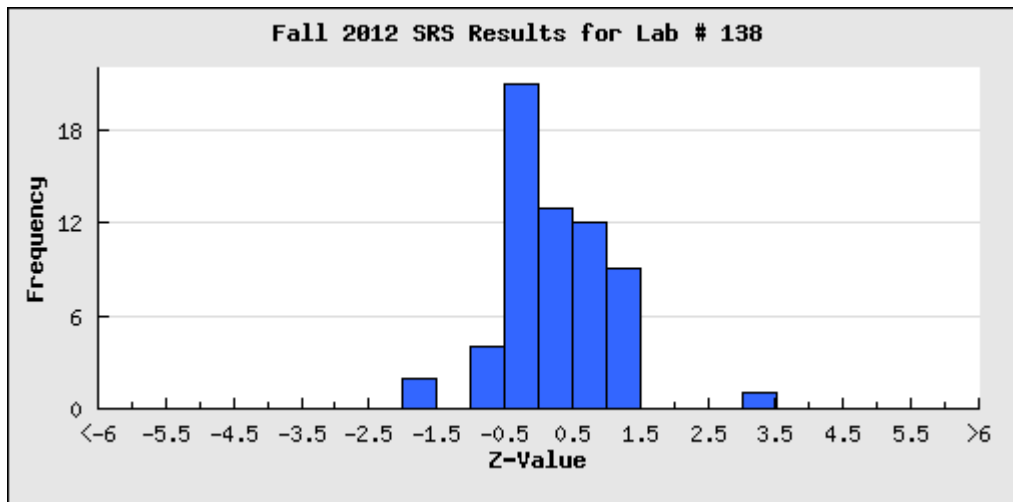
Office of Water Quality

Branch of Quality Systems

Standard Reference Sample Project

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Fall 2012 SRS Results for Lab # 138



Number of data points per sample	NUTRIENT (LOW)	NUTRIENT (HIGH)	MAJOR	TRACE	MERCURY	PRECIPITATION
	6	6	16	27	1	10

SRS	Analyte	Method	RV	MPV	Fps	Z-value	% difference
N-115	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.261 mg/L	0.264	0.068	-0.04	-1.14
N-115	Ammonia as N	22 Colorimetric	0.230 mg/L	0.230	0.015	0.00	0.00
N-115	Nitrate as N	07 Ion chromatography	0.229 mg/L	0.229	0.009	0.00	0.00

N-115	Nitrite + Nitrate as N	22 Colorimetric	0.226 mg/L	0.228	0.013	-0.15	-0.88
N-115	Orthophosphate as P	22 Colorimetric	0.233 mg/L	0.235	0.009	-0.22	-0.85
N-115	Total Phosphorus as P	22 Colorimetric	0.242 mg/L	0.241	0.013	0.08	0.41
N-116	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.428 mg/L	0.428	0.044	0.00	0.00
N-116	Ammonia as N	22 Colorimetric	0.388 mg/L	0.400	0.025	-0.48	-3.00
N-116	Nitrate as N	07 Ion chromatography	0.450 mg/L	0.437	0.024	0.54	2.97
N-116	Nitrite + Nitrate as N	22 Colorimetric	0.440 mg/L	0.445	0.016	-0.31	-1.12
N-116	Orthophosphate as P	22 Colorimetric	0.383 mg/L	0.408	0.016	-1.56	-6.13
N-116	Total Phosphorus as P	22 Colorimetric	0.413 mg/L	0.410	0.015	0.20	0.73
M-204	Alkalinity as CaCO ₃	21 Titration: electrometric	40.8 mg/L	40.9	1.41	-0.07	-0.24
M-204	Boron	04 Inductively coupled plasma	26.1 µg/L	23.0	4.23	0.73	13.48
M-204	Calcium	04 Inductively coupled plasma	16.8 mg/L	16.0	0.623	1.28	5.00
M-204	Chloride	07 Ion chromatography	42.0 mg/L	42.2	0.890	-0.22	-0.47
M-204	Fluoride	40 Ion selective electrode	0.430 mg/L	0.400	0.032	0.94	7.50
M-204	Magnesium	04 Inductively coupled plasma	4.16 mg/L	4.11	0.167	0.30	1.22
M-204	pH	41 Electrometric	7.83	7.68	0.256	0.59	1.95
M-204	Potassium	04 Inductively coupled plasma	2.07 mg/L	2.03	0.105	0.38	1.97
M-204	Residue on Evaporation	50 Gravimetric	150 mg/L	144	7.41	0.81	4.17
M-204	Silica	04 Inductively coupled plasma	12.3 mg/L	12.2	0.593	0.17	0.82
M-204	Sodium	04 Inductively coupled plasma	24.2 mg/L	23.7	0.861	0.58	2.11
M-204	Specific Conductance	41 Electrometric	250 µS/cm	250	4.45	0.00	0.00
M-204	Strontium	04 Inductively coupled plasma	99.3 µg/L	98.0	4.45	0.29	1.33
M-204	Sulfate	07 Ion chromatography	7.84 mg/L	7.84	0.519	0.00	0.00
M-204	Total Phosphorus as P	22 Colorimetric	0.394 mg/L	0.390	0.026	0.15	1.03
M-204	Vanadium	04 Inductively coupled plasma	<2.00 µg/L	0.267	0.425	--	--
T-211	Aluminum	06 Inductively coupled plasma/mass spectrometry	13.8 µg/L	14.5	1.24	-0.56	-4.83
T-211	Antimony	06 Inductively coupled plasma/mass spectrometry	2.47 µg/L	2.45	0.141	0.14	0.82

T-211	Arsenic	06 Inductively coupled plasma/mass spectrometry	5.30 µg/L	4.95	0.463	0.76	7.07
T-211	Barium	06 Inductively coupled plasma/mass spectrometry	56.5 µg/L	55.0	1.48	1.01	2.73
T-211	Beryllium	06 Inductively coupled plasma/mass spectrometry	0.368 µg/L	0.399	0.034	-0.91	-7.77
T-211	Boron	06 Inductively coupled plasma/mass spectrometry	4.52 µg/L	4.52	0.586	0.00	0.00
T-211	Cadmium	06 Inductively coupled plasma/mass spectrometry	1.48 µg/L	1.41	0.074	0.95	4.96
T-211	Calcium	04 Inductively coupled plasma	25.9 mg/L	24.6	1.04	1.25	5.28
T-211	Chromium	06 Inductively coupled plasma/mass spectrometry	2.29 µg/L	2.62	0.208	-1.59	-12.60
T-211	Cobalt	06 Inductively coupled plasma/mass spectrometry	1.98 µg/L	2.07	0.096	-0.94	-4.35
T-211	Copper	06 Inductively coupled plasma/mass spectrometry	1.19 µg/L	1.24	0.156	-0.32	-4.03
T-211	Iron	04 Inductively coupled plasma	67.9 µg/L	54.4	4.19	3.22	24.82
T-211	Lead	06 Inductively coupled plasma/mass spectrometry	1.64 µg/L	1.66	0.086	-0.23	-1.20
T-211	Magnesium	04 Inductively coupled plasma	5.43 mg/L	5.21	0.170	1.29	4.22
T-211	Manganese	04 Inductively coupled plasma	47.7 µg/L	45.5	2.00	1.10	4.84
T-211	Molybdenum	06 Inductively coupled plasma/mass spectrometry	1.08 µg/L	1.10	0.074	-0.27	-1.82
T-211	Nickel	06 Inductively coupled plasma/mass spectrometry	2.19 µg/L	2.23	0.245	-0.16	-1.79
T-211	Potassium	04 Inductively coupled plasma	1.03 mg/L	0.979	0.057	0.89	5.21
T-211	Selenium	06 Inductively coupled plasma/mass spectrometry	0.204 µg/L	0.292	0.145	-0.61	-30.14
T-211	Silica	04 Inductively coupled plasma	6.69 mg/L	6.50	0.341	0.56	2.92
T-211	Silver	06 Inductively coupled plasma/mass spectrometry	5.09 µg/L	5.04	0.315	0.16	0.99
T-211	Sodium	04 Inductively coupled plasma	10.2 mg/L	9.78	0.482	0.87	4.29
T-211	Strontium	04 Inductively coupled plasma	135 µg/L	134	3.94	0.25	0.75
T-211	Thallium	06 Inductively coupled plasma/mass spectrometry	2.49 µg/L	2.35	0.104	1.35	5.96
T-211	Uranium	06 Inductively coupled plasma/mass spectrometry	0.602 µg/L	0.600	0.025	0.08	0.33

T-211	Vanadium	04 Inductively coupled plasma	2.06 µg/L	1.87	0.145	1.31	10.16
T-211	Zinc	04 Inductively coupled plasma	435 µg/L	404	25.1	1.24	7.67
Hg-55	Mercury	09 Atomic fluorescence	0.0333 µg/L	0.035	0.004	-0.43	-4.86
P-59	Calcium	04 Inductively coupled plasma	0.502 mg/L	0.490	0.015	0.80	2.45
P-59	Chloride	07 Ion chromatography	4.34 mg/L	4.29	0.133	0.38	1.17
P-59	Fluoride	40 Ion selective electrode	<0.035 mg/L	0.010	0.016	--	--
P-59	Magnesium	04 Inductively coupled plasma	0.437 mg/L	0.434	0.024	0.13	0.69
P-59	Orthophosphate as P	22 Colorimetric	0.0326 mg/L	0.034	0.003	-0.47	-4.12
P-59	pH	41 Electrometric	4.22	4.27	0.145	-0.34	-1.17
P-59	Potassium	04 Inductively coupled plasma	<0.300 mg/L	0.210	0.021	--	--
P-59	Sodium	04 Inductively coupled plasma	<0.500 mg/L	0.171	0.017	--	--
P-59	Specific Conductance	41 Electrometric	36.2 µS/cm	36.9	2.79	-0.25	-1.90
P-59	Sulfate	07 Ion chromatography	0.703 mg/L	0.512	0.143	1.34	37.30