



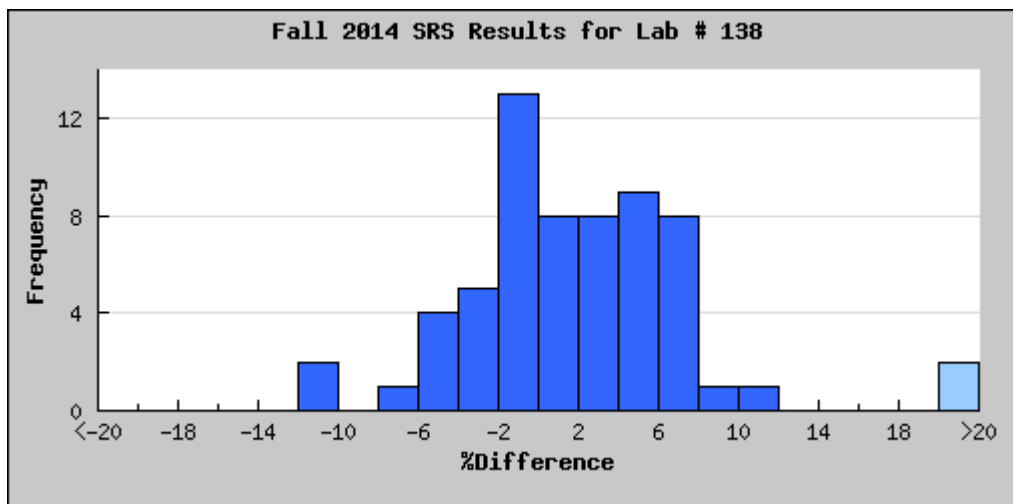
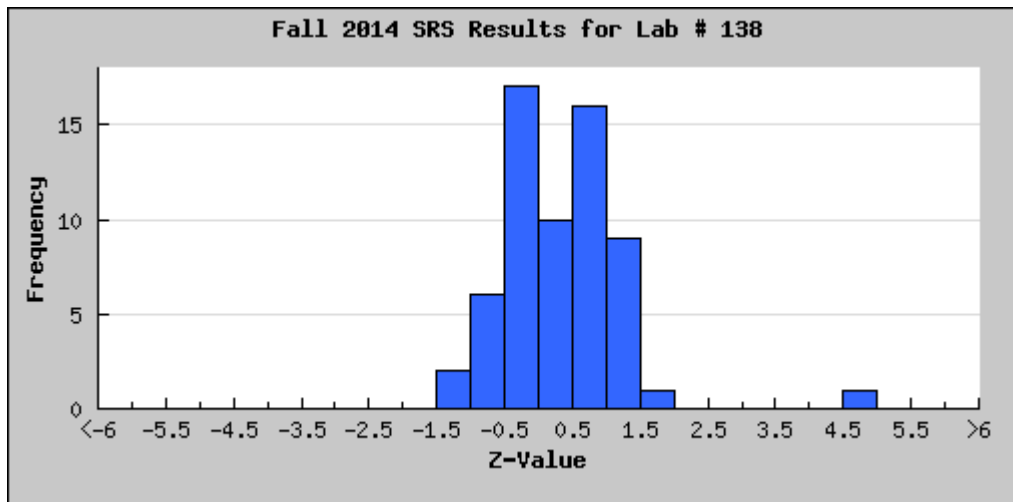
Office of Water Quality

Branch of Quality Systems

Standard Reference Sample Project

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Fall 2014 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-123	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.297 mg/L	0.320	0.056	-0.41	-7.19
N-123	Ammonia as N	22 Colorimetric	0.269 mg/L	0.279	0.022	-0.45	-3.58
N-123	Nitrate as N	07 Ion chromatography	0.242 mg/L	0.257	0.017	-0.88	-5.84

N-123	Nitrite + Nitrate as N	22 Colorimetric	0.246 mg/L	0.257	0.010	-1.10	-4.28
N-123	Orthophosphate as P	22 Colorimetric	0.257 mg/L	0.255	0.007	0.29	0.78
N-123	Total Phosphorus as P	22 Colorimetric	0.278 mg/L	0.272	0.013	0.46	2.21
N-124	Ammonia + Organic Nitrogen as N	22 Colorimetric	0.216 mg/L	0.212	0.057	0.07	1.89
N-124	Ammonia as N	22 Colorimetric	0.164 mg/L	0.168	0.016	-0.25	-2.38
N-124	Nitrate as N	07 Ion chromatography	0.542 mg/L	0.550	0.022	-0.36	-1.45
N-124	Nitrite + Nitrate as N	22 Colorimetric	0.539 mg/L	0.556	0.021	-0.81	-3.06
N-124	Orthophosphate as P	22 Colorimetric	0.192 mg/L	0.189	0.009	0.33	1.59
N-124	Total Phosphorus as P	22 Colorimetric	0.188 mg/L	0.190	0.011	-0.18	-1.05
M-212	Alkalinity as CaCO ₃	21 Titration: electrometric	22.2 mg/L	23.0	1.48	-0.54	-3.48
M-212	Chloride	07 Ion chromatography	7.94 mg/L	8.03	0.334	-0.27	-1.12
M-212	Fluoride	40 Ion selective electrode	0.298 mg/L	0.280	0.017	1.06	6.43
M-212	pH	41 Electrometric	7.63	7.32	0.297	1.04	4.23
M-212	Residue on Evaporation	50 Gravimetric	47.5 mg/L	53.0	7.15	-0.77	-10.38
M-212	Specific Conductance	41 Electrometric	91.5 µS/cm	91.5	1.33	0.00	0.00
M-212	Sulfate	07 Ion chromatography	5.63 mg/L	5.74	0.289	-0.38	-1.92
M-212	Total Phosphorus as P	22 Colorimetric	0.0294 mg/L	0.030	0.0044	-0.14	-2.00
M-212	Boron	06 Inductively coupled plasma/mass spectrometry	5.37 µg/L	5.00	0.565	0.65	7.40
M-212	Calcium	04 Inductively coupled plasma	5.86 mg/L	5.57	0.289	1.00	5.21
M-212	Magnesium	04 Inductively coupled plasma	2.16 mg/L	2.03	0.096	1.35	6.40
M-212	Potassium	04 Inductively coupled plasma	0.592 mg/L	0.588	0.033	0.12	0.68
M-212	Silica	04 Inductively coupled plasma	6.34 mg/L	6.06	0.230	1.22	4.62
M-212	Sodium	04 Inductively coupled plasma	8.97 mg/L	8.73	0.460	0.52	2.75
M-212	Strontium	04 Inductively coupled plasma	17.6 µg/L	17.5	0.964	0.10	0.57
M-212	Vanadium	04 Inductively coupled plasma	<2.00 µg/L	1.11	0.123	--	--
T-219	Aluminum	06 Inductively coupled plasma/mass spectrometry	868 µg/L	845	42.1	0.55	2.72
T-219	Antimony	06 Inductively coupled plasma/mass spectrometry	1.34 µg/L	1.26	0.061	1.31	6.35

T-219	Arsenic	06 Inductively coupled plasma/mass spectrometry	3.50 µg/L	3.51	0.248	-0.04	-0.28
T-219	Barium	06 Inductively coupled plasma/mass spectrometry	37.5 µg/L	36.2	1.63	0.80	3.59
T-219	Beryllium	06 Inductively coupled plasma/mass spectrometry	0.234 µg/L	0.220	0.027	0.52	6.36
T-219	Boron	06 Inductively coupled plasma/mass spectrometry	12.4 µg/L	10.3	1.07	1.96	20.39
T-219	Cadmium	06 Inductively coupled plasma/mass spectrometry	0.633 µg/L	0.588	0.047	0.96	7.65
T-219	Calcium	04 Inductively coupled plasma	20.8 mg/L	20.0	1.19	0.67	4.00
T-219	Chromium	06 Inductively coupled plasma/mass spectrometry	<0.300 µg/L	0.341	0.042	F-	--
T-219	Cobalt	06 Inductively coupled plasma/mass spectrometry	0.792 µg/L	0.826	0.056	-0.61	-4.12
T-219	Copper	06 Inductively coupled plasma/mass spectrometry	19.9 µg/L	19.9	0.919	0.00	0.00
T-219	Iron	04 Inductively coupled plasma	370 µg/L	349	23.4	0.90	6.02
T-219	Lead	06 Inductively coupled plasma/mass spectrometry	2.62 µg/L	2.57	0.159	0.31	1.95
T-219	Magnesium	04 Inductively coupled plasma	6.09 mg/L	5.77	0.285	1.12	5.55
T-219	Manganese	04 Inductively coupled plasma	228 µg/L	219	8.15	1.10	4.11
T-219	Molybdenum	06 Inductively coupled plasma/mass spectrometry	2.78 µg/L	2.67	0.168	0.65	4.12
T-219	Nickel	06 Inductively coupled plasma/mass spectrometry	1.76 µg/L	1.78	0.156	-0.13	-1.12
T-219	Potassium	04 Inductively coupled plasma	1.78 mg/L	1.79	0.089	-0.11	-0.56
T-219	Selenium	06 Inductively coupled plasma/mass spectrometry	0.664 µg/L	0.620	0.343	0.13	7.10
T-219	Silica	04 Inductively coupled plasma	9.18 mg/L	8.69	0.385	1.27	5.64
T-219	Silver	06 Inductively coupled plasma/mass spectrometry	10.9 µg/L	10.7	0.593	0.34	1.87
T-219	Sodium	04 Inductively coupled plasma	19.7 mg/L	19.1	0.815	0.74	3.14
T-219	Strontium	04 Inductively coupled plasma	138 µg/L	135	4.37	0.69	2.22
T-219	Thallium	06 Inductively coupled plasma/mass spectrometry	5.95 µg/L	5.70	0.360	0.69	4.39
T-219	Uranium	06 Inductively coupled plasma/mass spectrometry	1.61 µg/L	1.58	0.119	0.25	1.90

T-219	Vanadium	04 Inductively coupled plasma	3.62 µg/L	3.35	0.322	0.84	8.06
T-219	Zinc	04 Inductively coupled plasma	202 µg/L	193	8.15	1.10	4.66
Hg-59	Mercury	09 Atomic fluorescence	0.0488 µg/L	0.055	0.014	-0.44	-11.27
P-63	Chloride	07 Ion chromatography	4.82 mg/L	4.89	0.130	-0.54	-1.43
P-63	Fluoride	40 Ion selective electrode	0.0650 mg/L	0.065	0.015	0.00	0.00
P-63	Orthophosphate as P	22 Colorimetric	0.0428 mg/L	0.043	0.0049	-0.04	-0.47
P-63	pH	41 Electrometric	4.11	4.11	0.059	0.00	0.00
P-63	Specific Conductance	41 Electrometric	40.9 µS/cm	43.4	2.41	-1.04	-5.76
P-63	Sulfate	07 Ion chromatography	0.416 mg/L	0.375	0.075	0.55	10.93
P-63	Calcium	04 Inductively coupled plasma	1.04 mg/L	0.820	0.044	5.00	26.83
P-63	Magnesium	04 Inductively coupled plasma	0.124 mg/L	0.121	0.0037	0.81	2.48
P-63	Potassium	04 Inductively coupled plasma	<0.300 mg/L	0.094	0.007	--	--
P-63	Sodium	04 Inductively coupled plasma	<0.500 mg/L	0.162	0.013	--	--