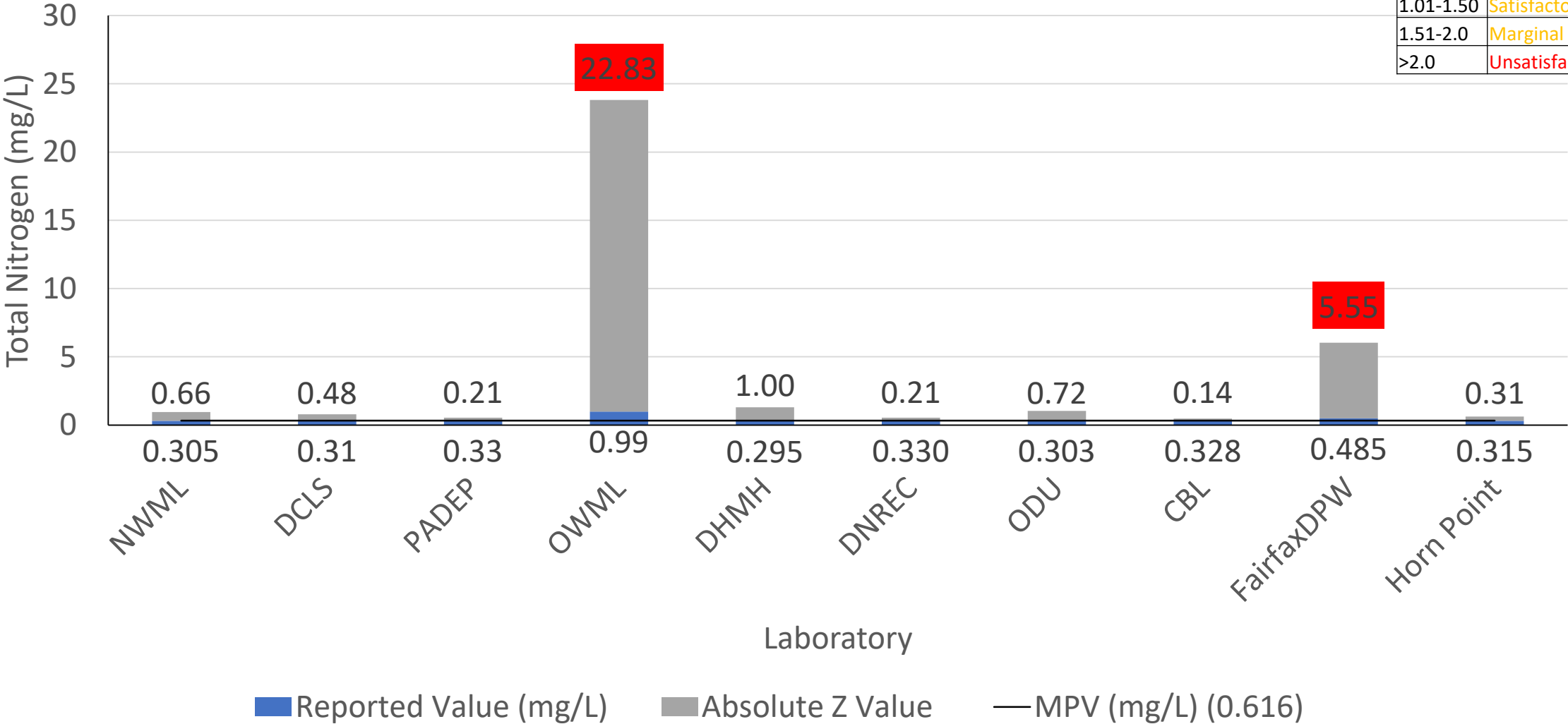


# USGS SRS Spring 2019 Samples

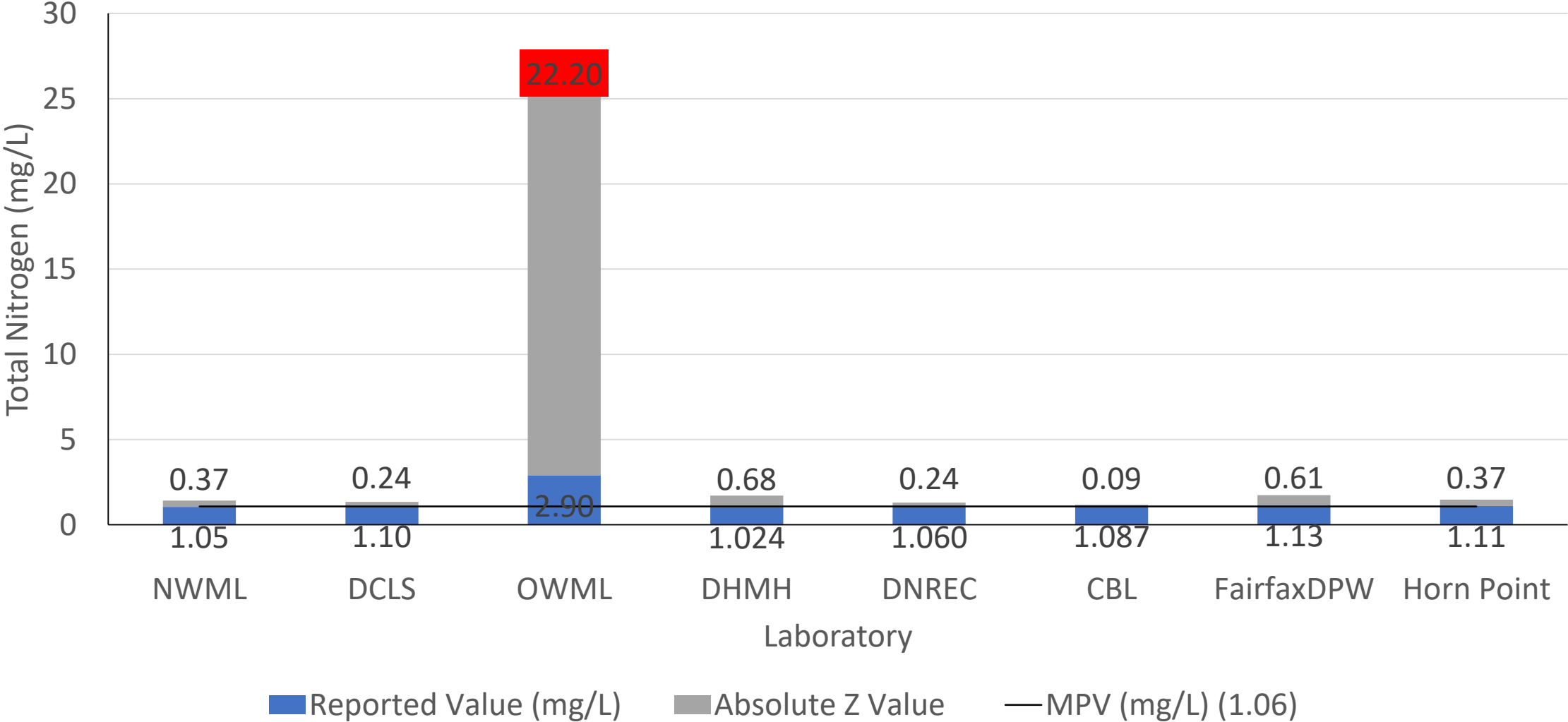
Total Nitrogen Low Concentration

Absolute Z Value	Rating
<0.5	Excellent
0.51-1.0	Good
1.01-1.50	Satisfactory
1.51-2.0	Marginal
>2.0	Unsatisfactory



<b><i>N-137 (Low Conc.) Spring 2018 Total Nitrogen (mg/L)</i></b>							<b><i>F-ps= 0.029</i></b>
<b>Lab ID</b>	<b>Lab</b>	<b>Reported Value (mg/L)</b>	<b>MPV (mg/L) (0.616)</b>	<b>% Recovery</b>	<b>Diff. From MPV (mg/L)</b>	<b>Method</b>	<b>Absolute Z Value</b>
1	NWML	0.305	0.324	94.1	0.019	Colorimetric	0.66
59	DCLS	0.31	0.324	95.7	0.014	Colorimetric	0.48
105	PADEP	0.33	0.324	101.9	0.006	Colorimetric	0.21
118	OWML	0.99	0.324	304.3	0.662	Colorimetric	22.83
198	DHMH	0.295	0.324	91.0	0.029	Colorimetric	1.00
297	DNREC	0.330	0.324	101.9	0.006	Colorimetric	0.21
316	ODU	0.303	0.324	93.5	0.021	Colorimetric	0.72
318	CBL	0.328	0.324	101.2	0.004	Colorimetric	0.14
319	FairfaxDPW	0.485	0.324	149.7	0.161	Colorimetric	5.55
320	Horn Point	0.315	0.324	97.2	0.009	Colorimetric	0.31

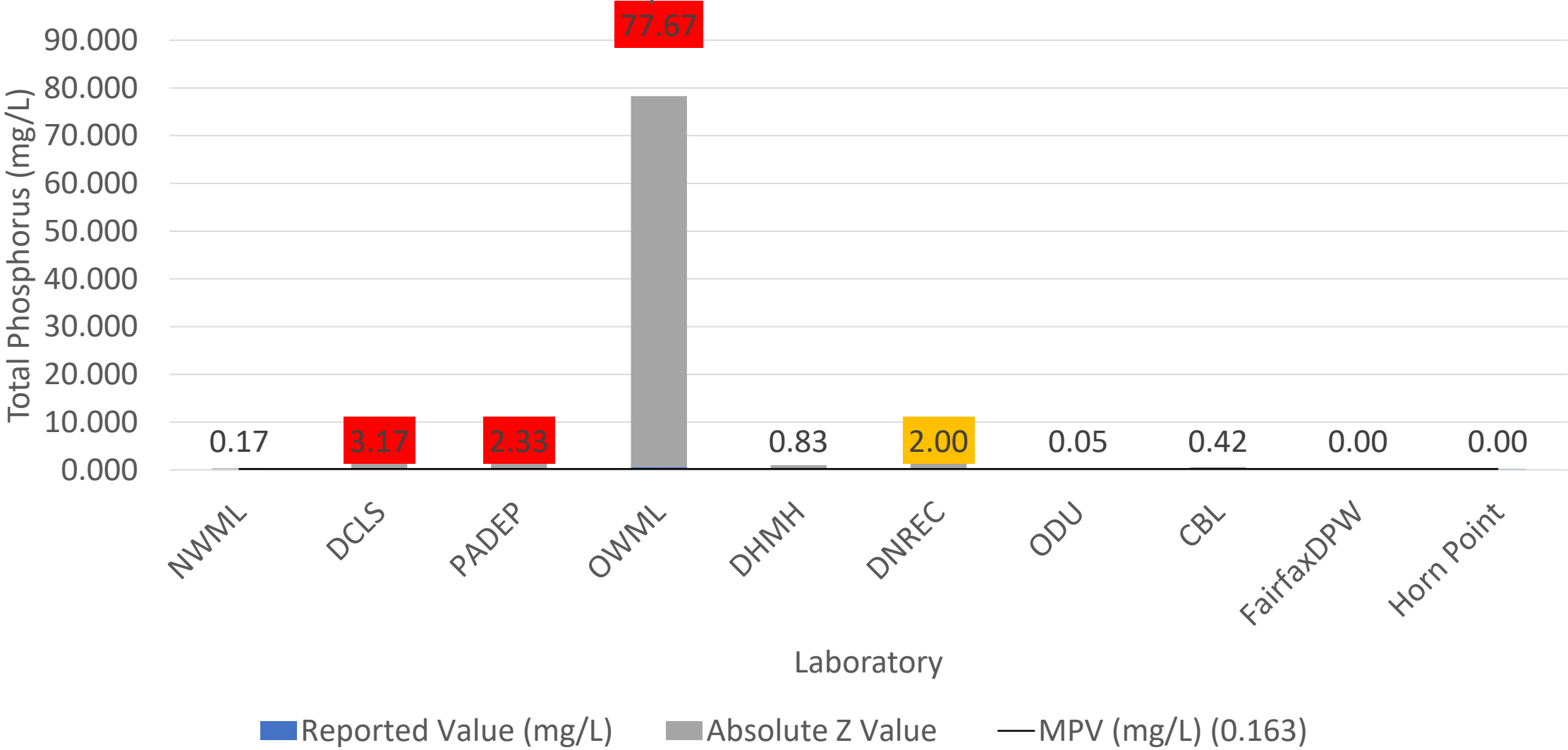
Total Nitrogen High Concentration



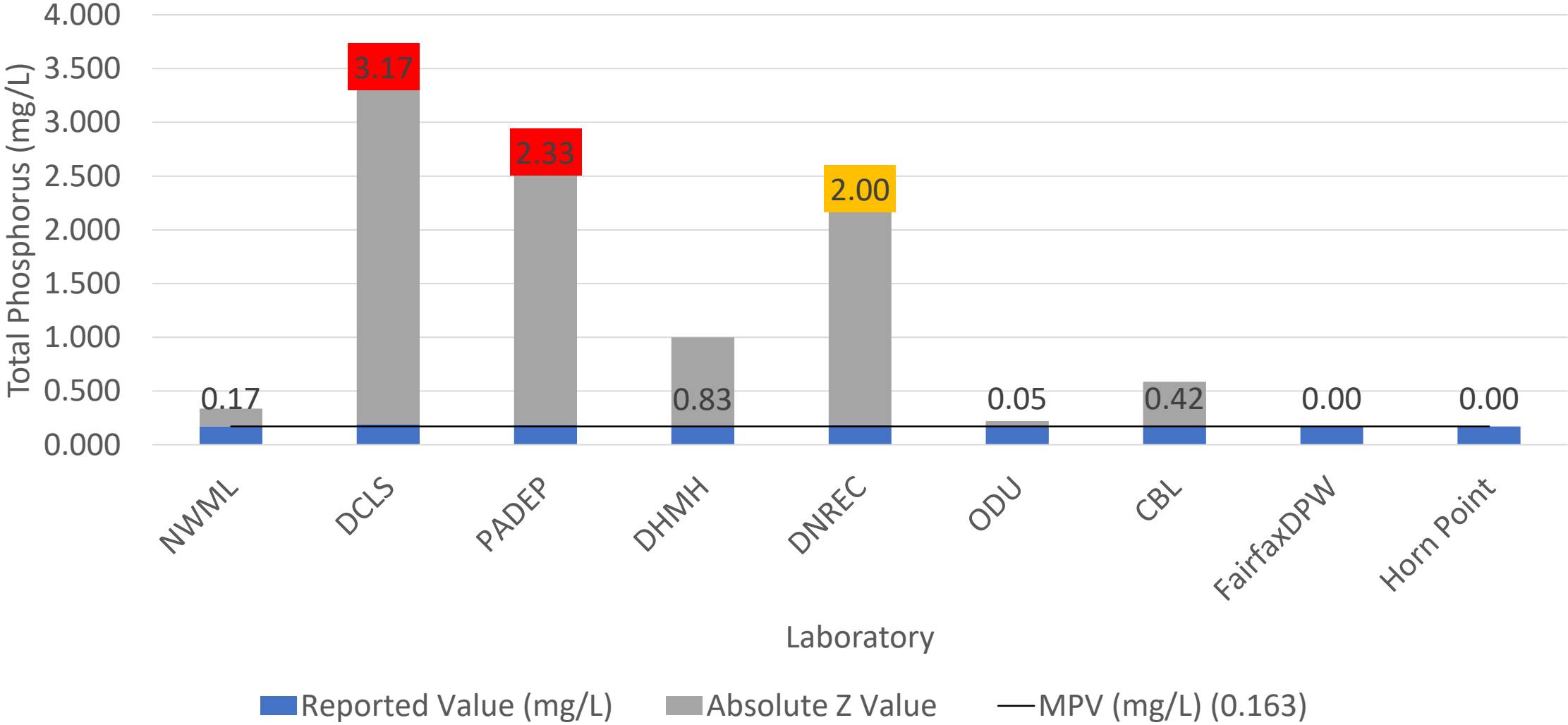
**N-136 (High Conc.) Fall 2017 Total Nitrogen (mg/L)****F-ps= 0.082**

Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (1.06)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	1.05	1.08	97.2	0.030	Colorimetric	0.37
59	DCLS	1.10	1.08	101.9	0.020	Colorimetric	0.24
118	OWML	2.90	1.08	268.5	1.820	Colorimetric	22.20
198	DHMH	1.024	1.08	94.8	0.056	Colorimetric	0.68
297	DNREC	1.060	1.08	98.1	0.020	Colorimetric	0.24
318	CBL	1.087	1.08	100.6	0.007	Colorimetric	0.09
319	FairfaxDPW	1.13	1.08	104.6	0.050	Colorimetric	0.61
320	Horn Point	1.11	1.08	102.8	0.030	Colorimetric	0.37

Total Phosphorus Low Concentration



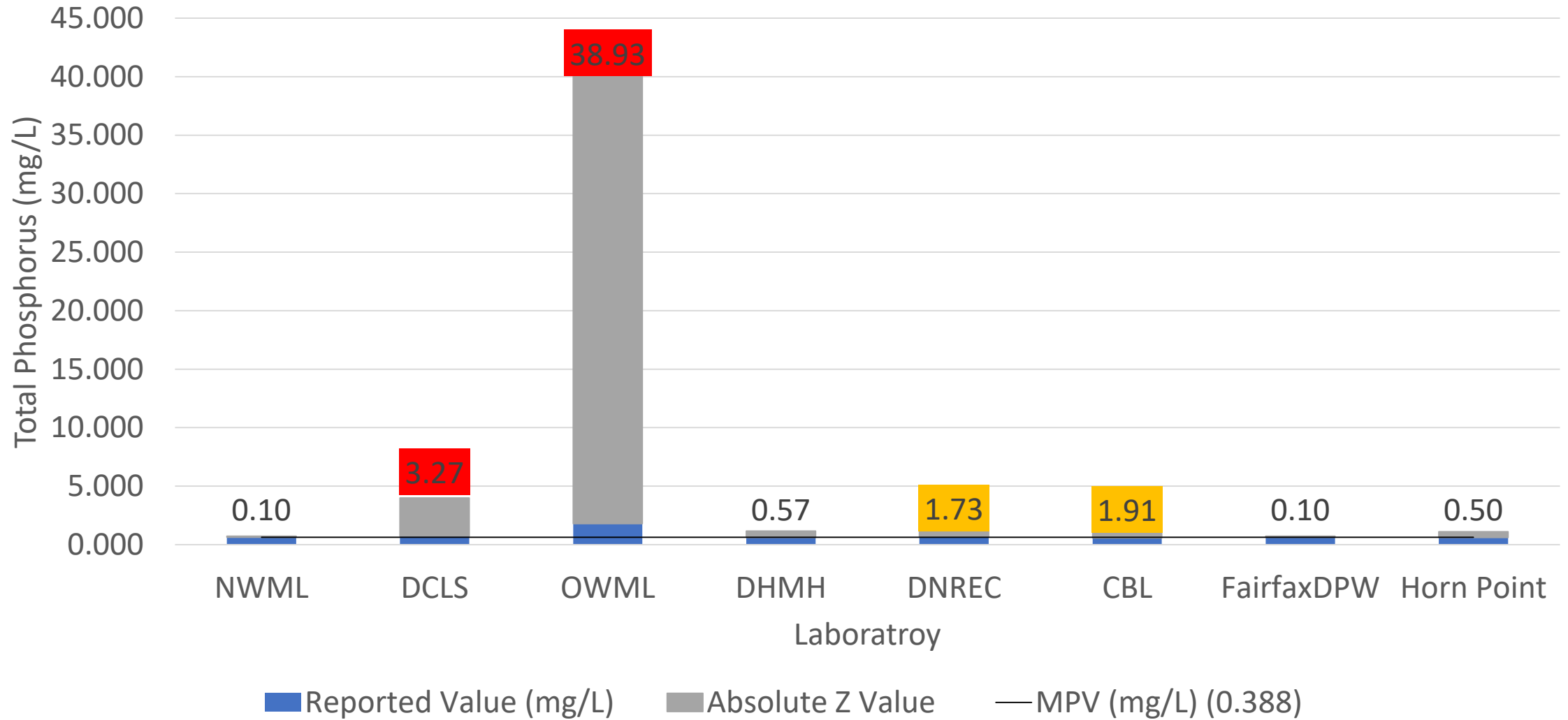
# Total Phosphorus Low Concentration



<i>N-137 (Low Conc.) Spring 2018 Total Phosphorus (mg/L)</i>						<i>F-ps= 0.006</i>	
Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (0.163)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.170	0.171	99.4	0.00	Colorimetric	0.17
59	DCLS	0.190	0.171	111.1	0.02	Colorimetric	3.17
105	PADEP	0.185	0.171	108.2	0.01	Colorimetric	2.33
118	OWML	0.637	0.171	372.5	0.47	Colorimetric	77.67
198	DHMH	0.166	0.171	97.1	0.005	Colorimetric	0.83
297	DNREC	0.183	0.171	107.0	0.012	Colorimetric	2.00
316	ODU	0.1707	0.171	99.8	0.0003	Colorimetric	0.05
318	CBL	0.1685	0.171	98.5	0.0025	Colorimetric	0.42
319	FairfaxDPW	0.171	0.171	100.0	0	Colorimetric	0.00
320	Horn Point	0.171	0.171	100.0	0	Colorimetric	0.00



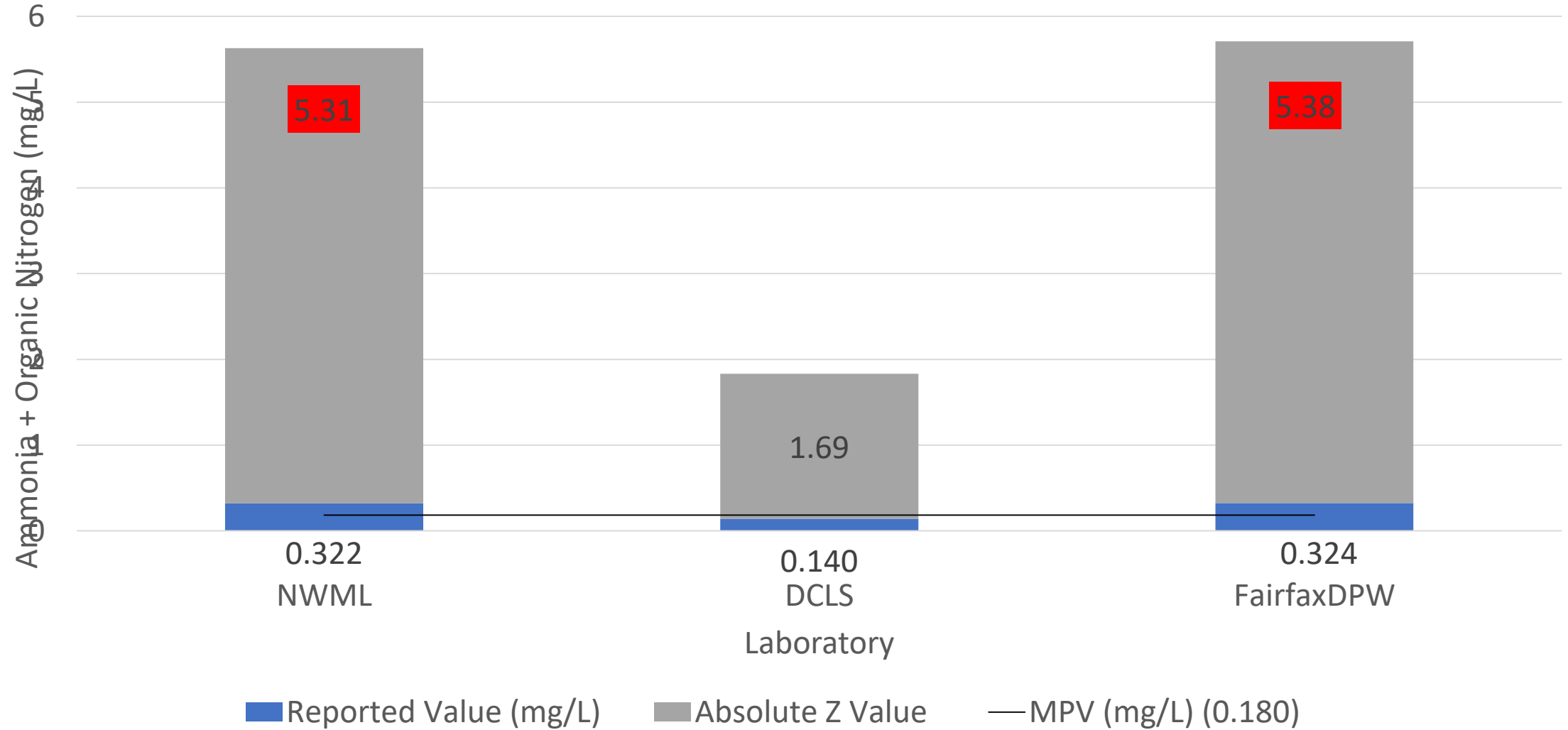
## Total Phosphorus High Concentration



**N-138 (High Conc.) Spring 2018 Total Phosphorus (mg/L)****F-ps=0.03**

Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (0.388)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.619	0.622	99.5	0.003	Colorimetric	0.10
59	DCLS	0.720	0.622	115.8	0.098	Colorimetric	3.27
118	OWML	1.790	0.622	287.8	1.168	Colorimetric	38.93
198	DHMH	0.605	0.622	97.3	0.017	Colorimetric	0.57
297	DNREC	0.674	0.622	108.4	0.052	Colorimetric	1.73
318	CBL	0.565	0.622	90.8	0.057	Colorimetric	1.91
319	FairfaxDPW	0.625	0.622	100.5	0.003	Colorimetric	0.10
320	Horn Point	0.607	0.622	97.6	0.015	Colorimetric	0.50

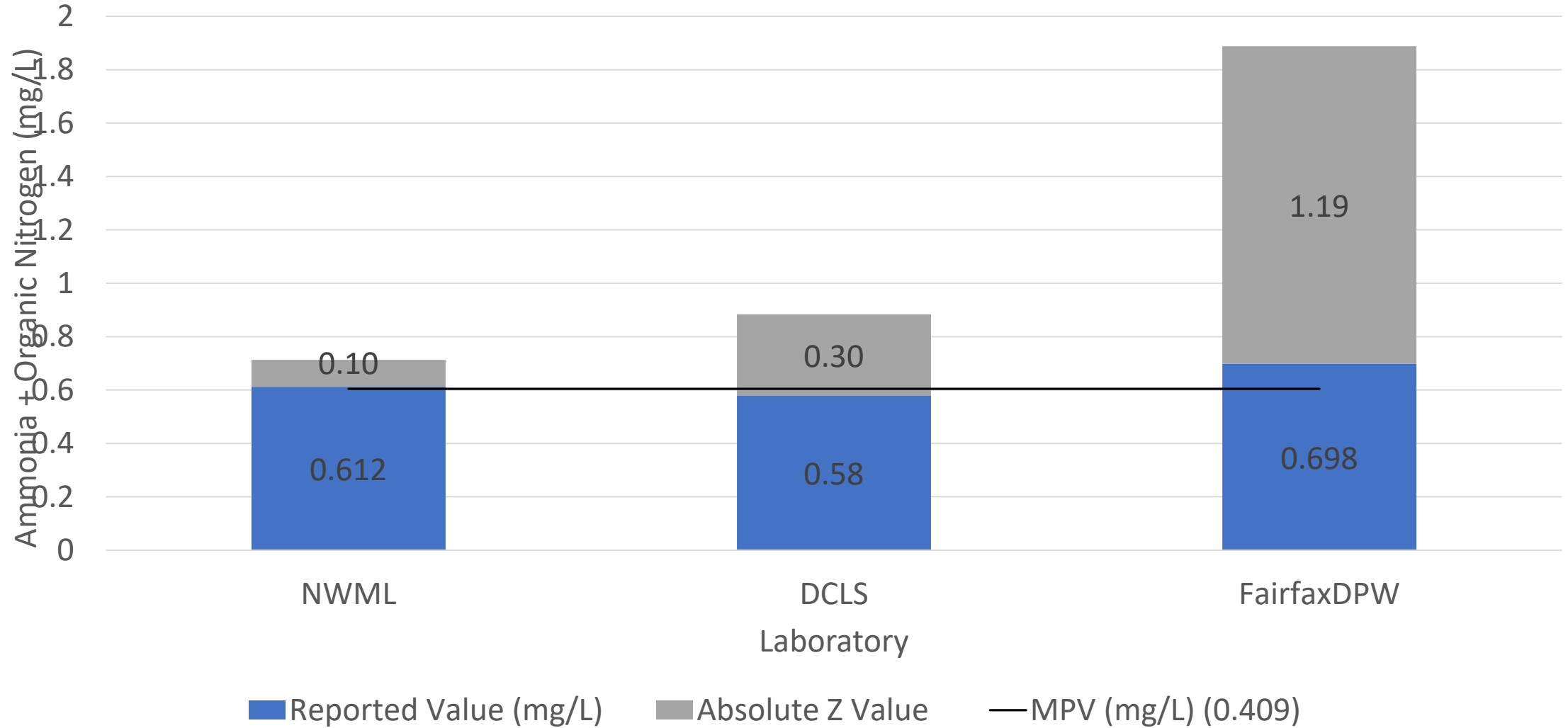
## Ammonia + Organic Nitrogen Low Concentration



**N-13 (Low Conc.) Spring 2018 Ammonia + Organic Nitrogen (mg/L)****F-ps= 0.026**

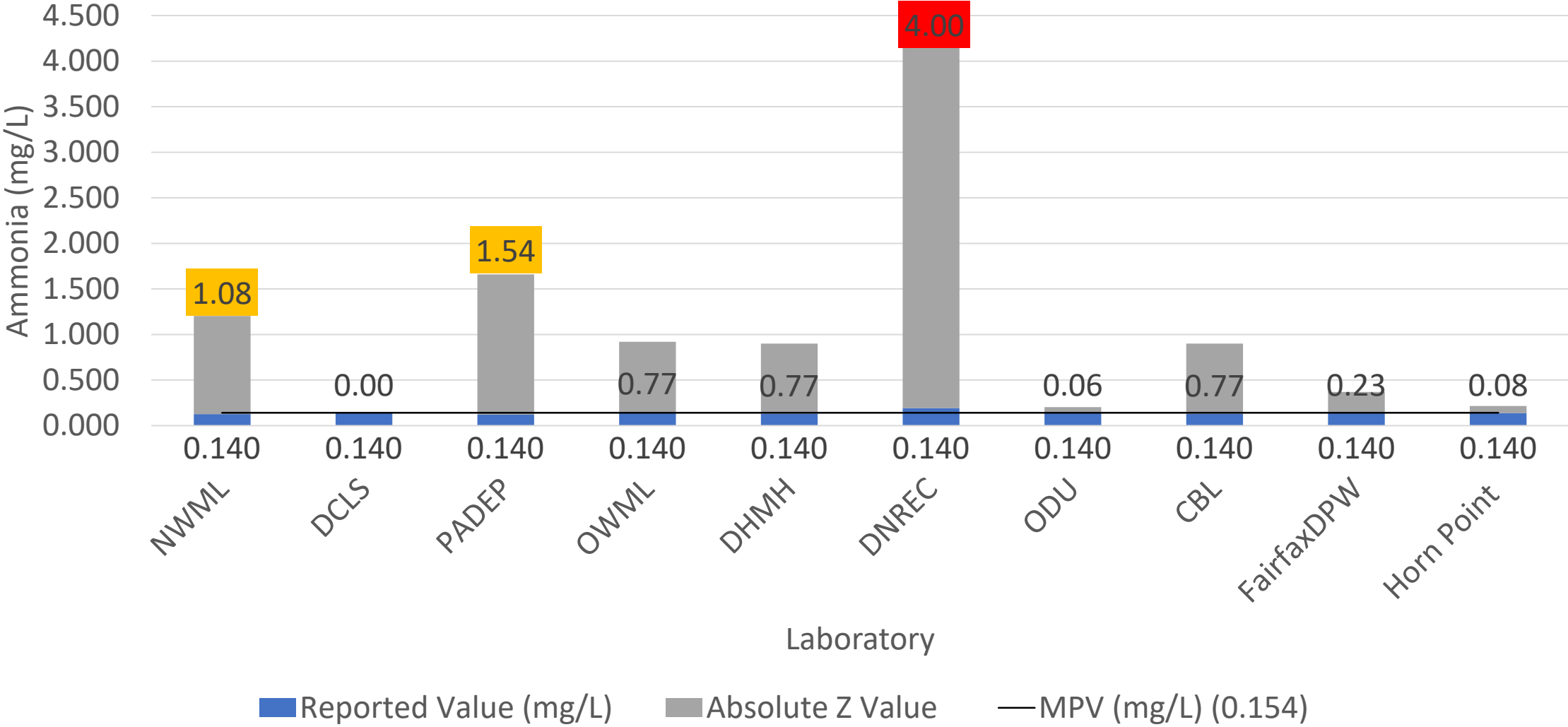
Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (0.180)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.322	0.184	175.0	0.14	Colorimetric	5.31
59	DCLS	0.140	0.184	76.1	0.04	Colorimetric	1.69
319	FairfaxDPW	0.324	0.184	176.1	0.14	Colorimetric	5.38

## Ammonia + Organic Nitrogen High Concentration



N-138 (High Conc.) Spring 2018 Ammonia + Organic Nitrogen (mg/L)							F-ps=0.079
Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (0.409)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.612	0.604	101.3	0.01	Colorimetric	0.10
59	DCLS	0.58	0.604	96.0	0.02	Colorimetric	0.30
319	FairfaxDPW	0.698	0.604	115.6	0.09	Colorimetric	1.19

# Ammonia Low Concentration

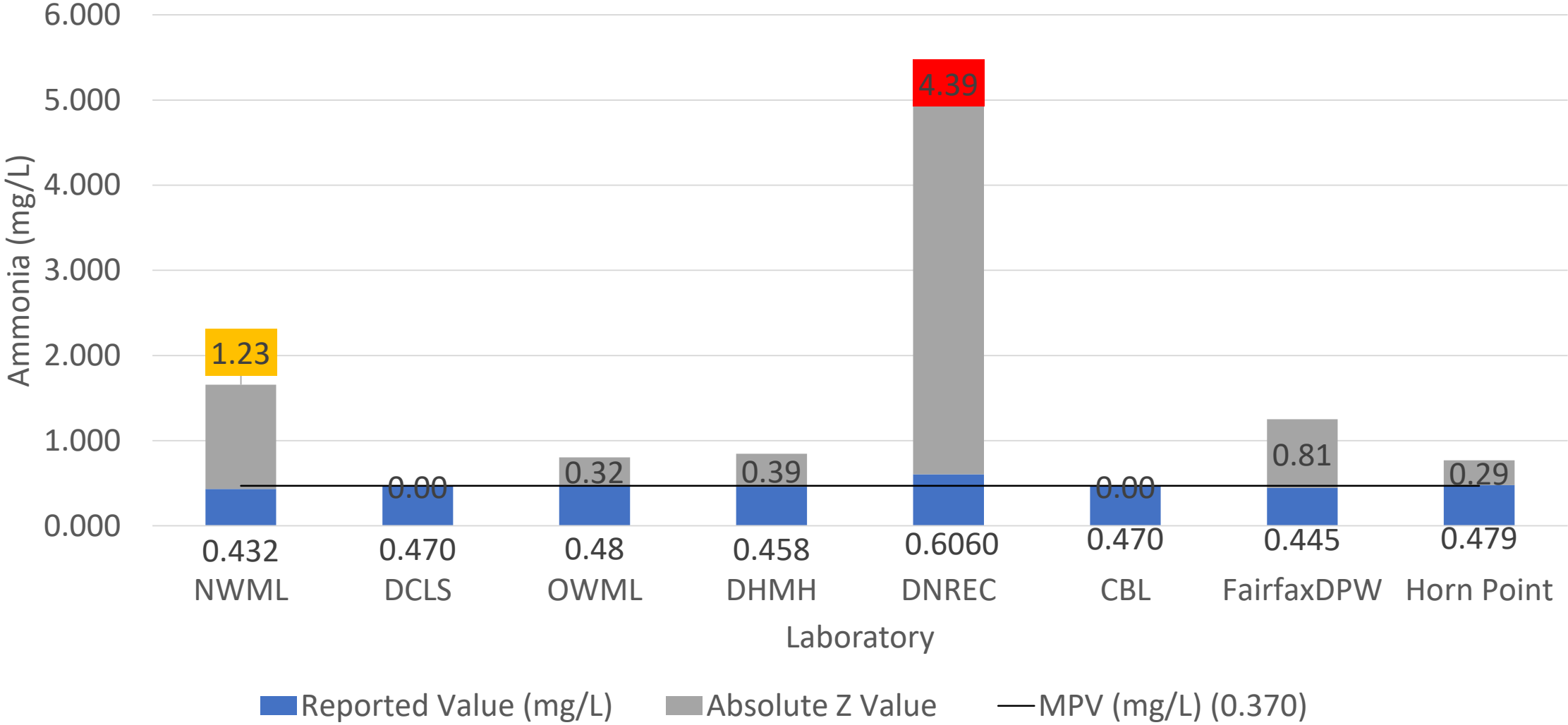


**N-137 (Low Conc.) Spring 2018 Ammonia (mg/L)****F-ps=0.013**

Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (0.154)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.126	0.140	90.0	0.01	Colorimetric	1.08
59	DCLS	0.140	0.140	100.0	0.00	Colorimetric	0.00
105	PADEP	0.12	0.140	85.7	0.02	Colorimetric	1.54
118	OWML	0.15	0.140	107.1	0.01	Colorimetric	0.77
198	DHMH	0.130	0.140	92.9	0.01	Colorimetric	0.77
297	DNREC	0.1920	0.140	137.1	0.05	Colorimetric	4.00
316	ODU	0.1408	0.140	100.6	0.00	Colorimetric	0.06
318	CBL	0.130	0.140	92.9	0.01	Colorimetric	0.77
319	FairfaxDPW	0.137	0.140	97.9	0.00	Colorimetric	0.23
320	Horn Point	0.139	0.140	99.3	0.00	Colorimetric	0.08



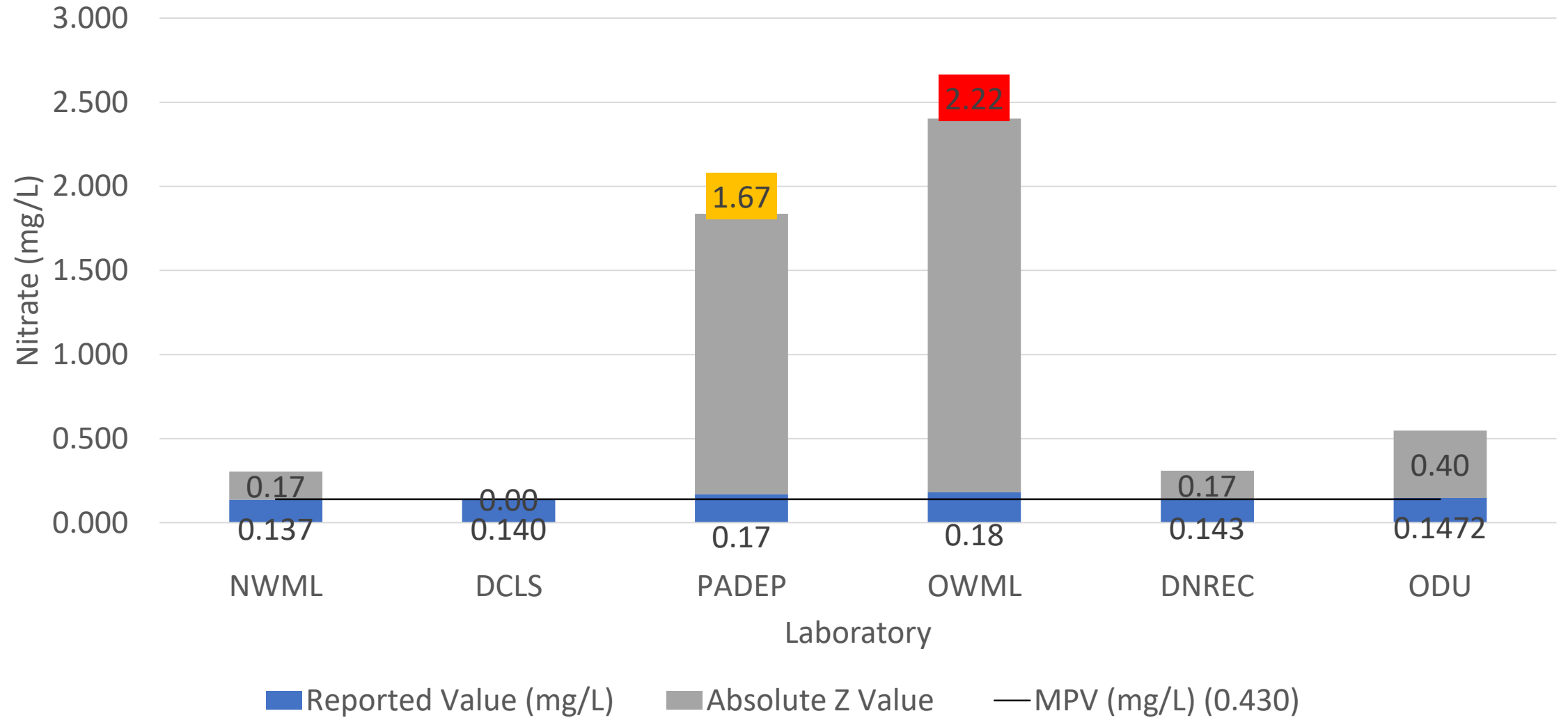
# Ammonia High Concentration



**N-138 (High Conc.) Spring 2018 Ammonia (mg/L)****F-ps=0.031**

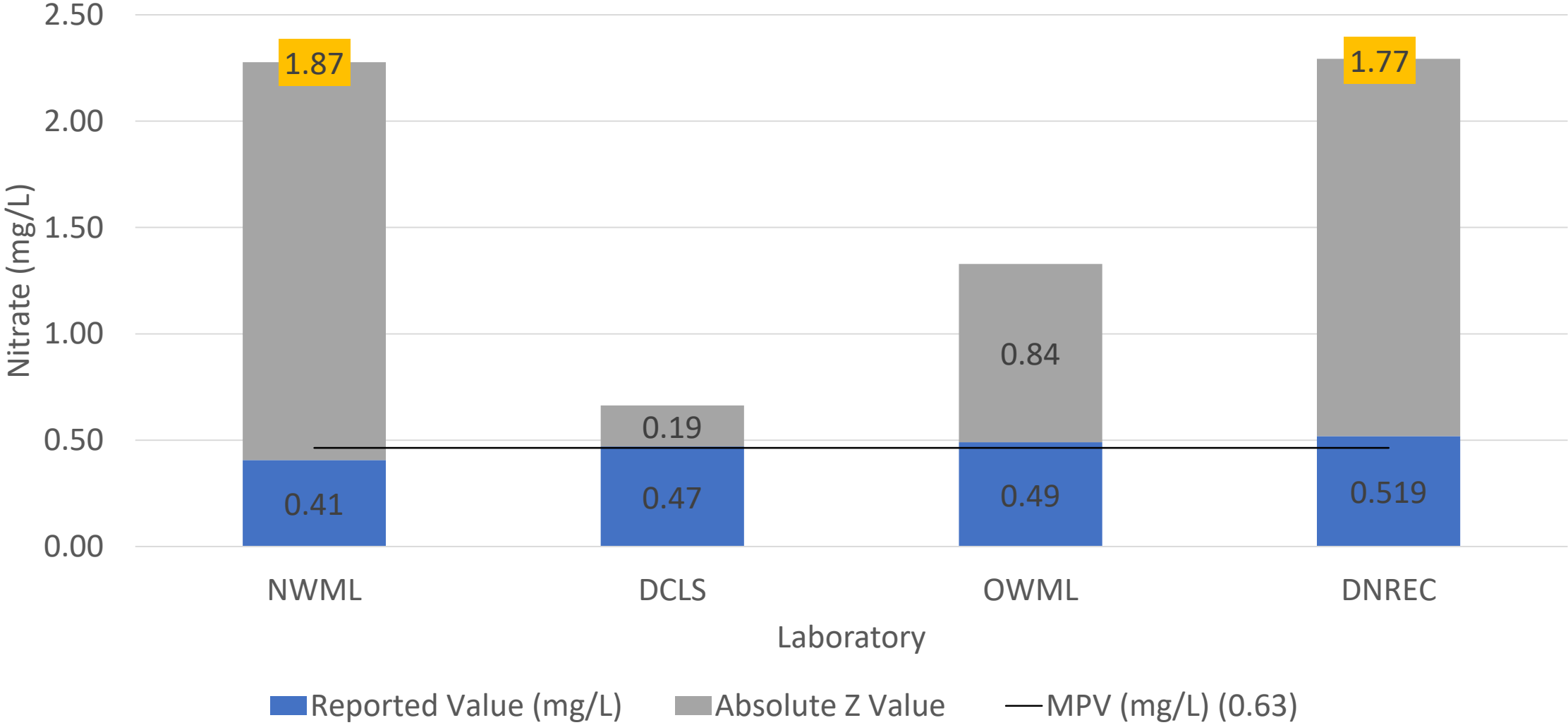
Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (0.370)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.432	0.470	91.9	0.04	Colorimetric	1.23
59	DCLS	0.470	0.470	100.0	0.00	Colorimetric	0.00
118	OWML	0.48	0.470	102.1	0.01	Colorimetric	0.32
198	DHMH	0.458	0.470	97.4	0.012	Colorimetric	0.39
297	DNREC	0.6060	0.470	128.9	0.136	Colorimetric	4.39
318	CBL	0.470	0.470	100.0	0	Colorimetric	0.00
319	FairfaxDPW	0.445	0.470	94.7	0.025	Colorimetric	0.81
320	Horn Point	0.479	0.470	101.9	0.009	Colorimetric	0.29

## Nitrate Low Concentration



N-137 (Low Conc.) Spring 2018 Nitrate (mg/L)						F-ps=0.018	
Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (0.430)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.137	0.140	97.9	0.00	Colorimetric	0.17
59	DCLS	0.140	0.140	100.0	0.00	Colorimetric	0.00
105	PADEP	0.17	0.140	121.4	0.03	Colorimetric	1.67
118	OWML	0.18	0.140	128.6	0.04	Colorimetric	2.22
297	DNREC	0.143	0.140	102.1	0.003	Colorimetric	0.17
316	ODU	0.1472	0.140	105.1	0.0072	Colorimetric	0.40

# Nitrate High Concentration

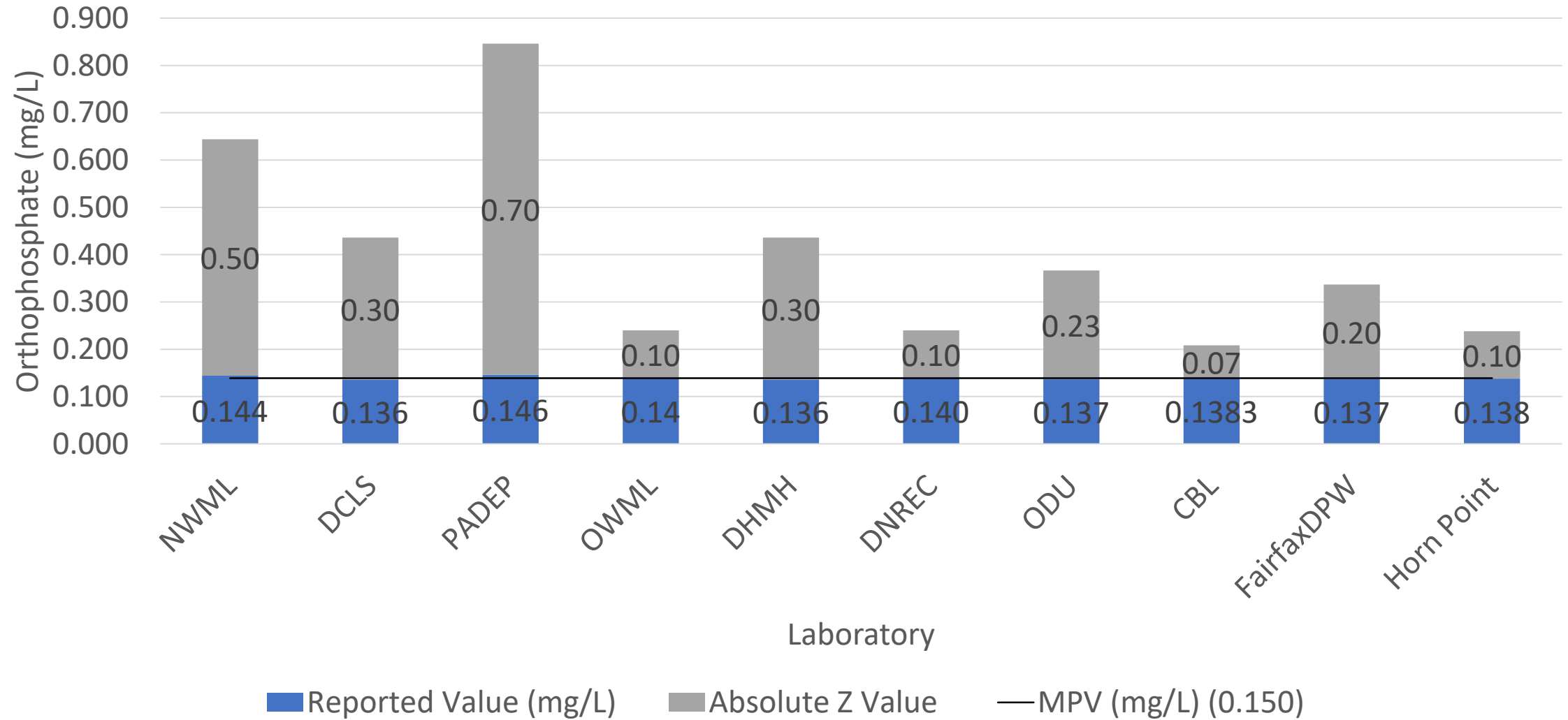


***N-136 (High Conc.) Fall 2017 Nitrate (mg/L)***

***F-ps= 0.031***

Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (0.63)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.41	0.46	87.5	0.06	Colorimetric	1.87
59	DCLS	0.47	0.46	101.3	0.01	Colorimetric	0.19
118	OWML	0.49	0.46	105.6	0.03	Colorimetric	0.84
297	DNREC	0.519	0.46	111.9	0.055	Colorimetric	1.77

## Orthophosphate Low Concentration

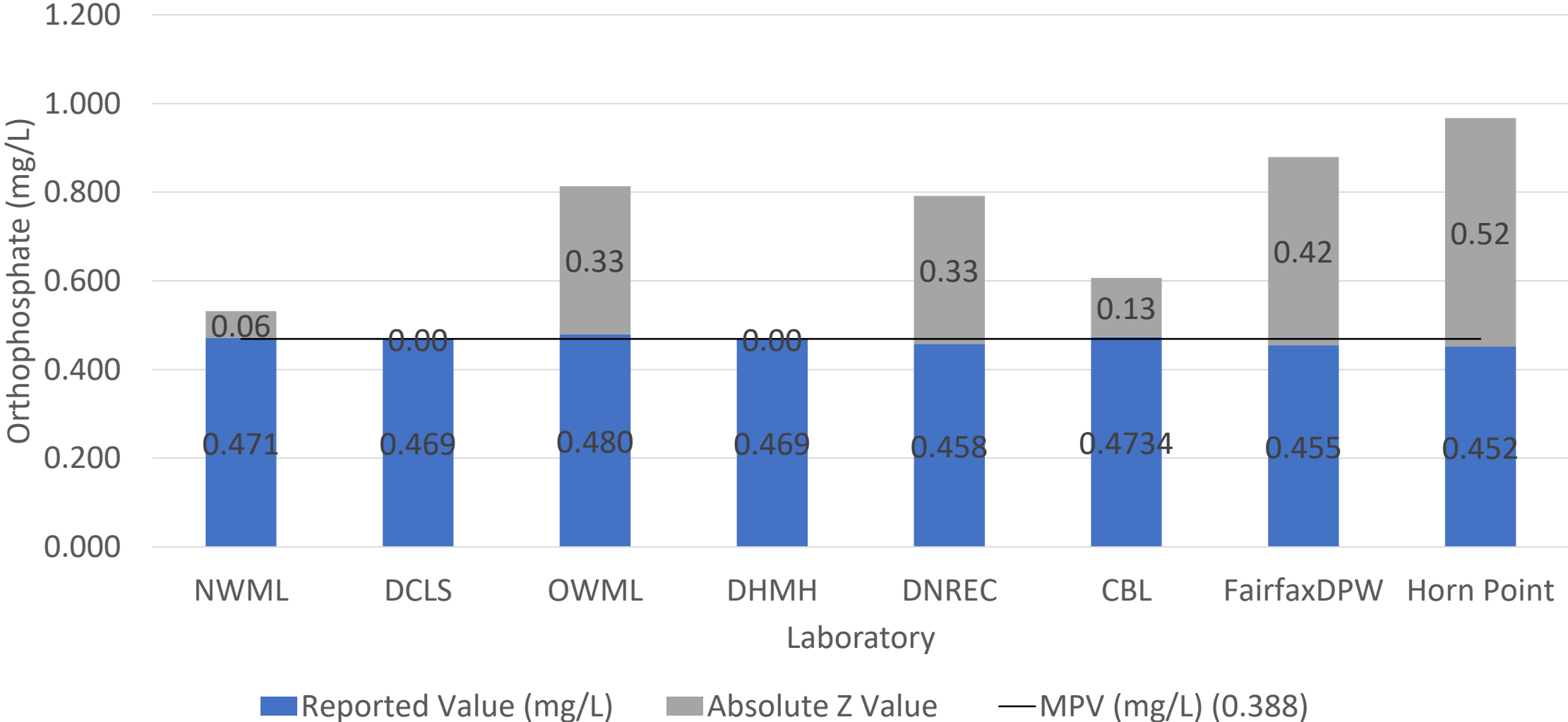


**N-137 (Low Conc.) Spring 2018 Orthophosphate (mg/L)****F-ps= 0.01**

Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (0.150)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.144	0.139	103.6	0.00	Colorimetric	0.50
59	DCLS	0.136	0.139	97.8	0.00	Colorimetric	0.30
105	PADEP	0.146	0.139	105.0	0.007	Colorimetric	0.70
118	OWML	0.14	0.139	100.7	0.001	Colorimetric	0.10
198	DHMH	0.136	0.139	97.8	0.003	Colorimetric	0.30
297	DNREC	0.140	0.139	100.7	0.001	Colorimetric	0.10
316	ODU	0.137	0.139	98.3	0.0023	Colorimetric	0.23
318	CBL	0.1383	0.139	99.5	0.0007	Colorimetric	0.07
319	FairfaxDPW	0.137	0.139	98.6	0.002	Colorimetric	0.20
320	Horn Point	0.138	0.139	99.3	0.001	Colorimetric	0.10



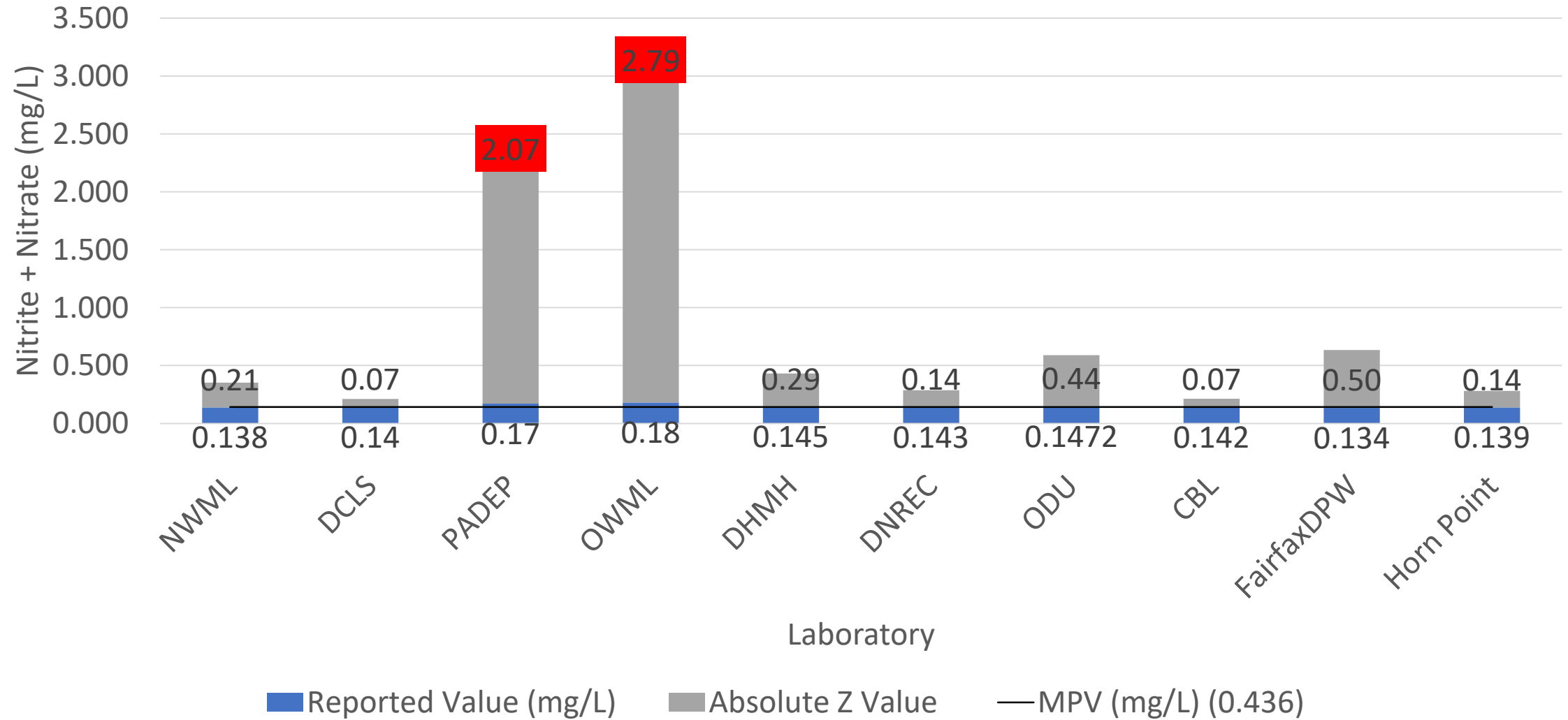
# Orthophosphate High Concentration



**N-138 (High Conc.) Spring 2018 Orthophosphate (mg/L)****F-ps=0.033**

Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (0.388)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.471	0.469	100.4	0.00	Colorimetric	0.06
59	DCLS	0.469	0.469	100.0	0.00	Colorimetric	0.00
118	OWML	0.480	0.469	102.3	0.011	Colorimetric	0.33
198	DHMH	0.469	0.469	100.0	0	Colorimetric	0.00
297	DNREC	0.458	0.469	97.7	0.011	Colorimetric	0.33
318	CBL	0.4734	0.469	100.9	0.0044	Colorimetric	0.13
319	FairfaxDPW	0.455	0.469	97.0	0.014	Colorimetric	0.42
320	Horn Point	0.452	0.469	96.4	0.017	Colorimetric	0.52

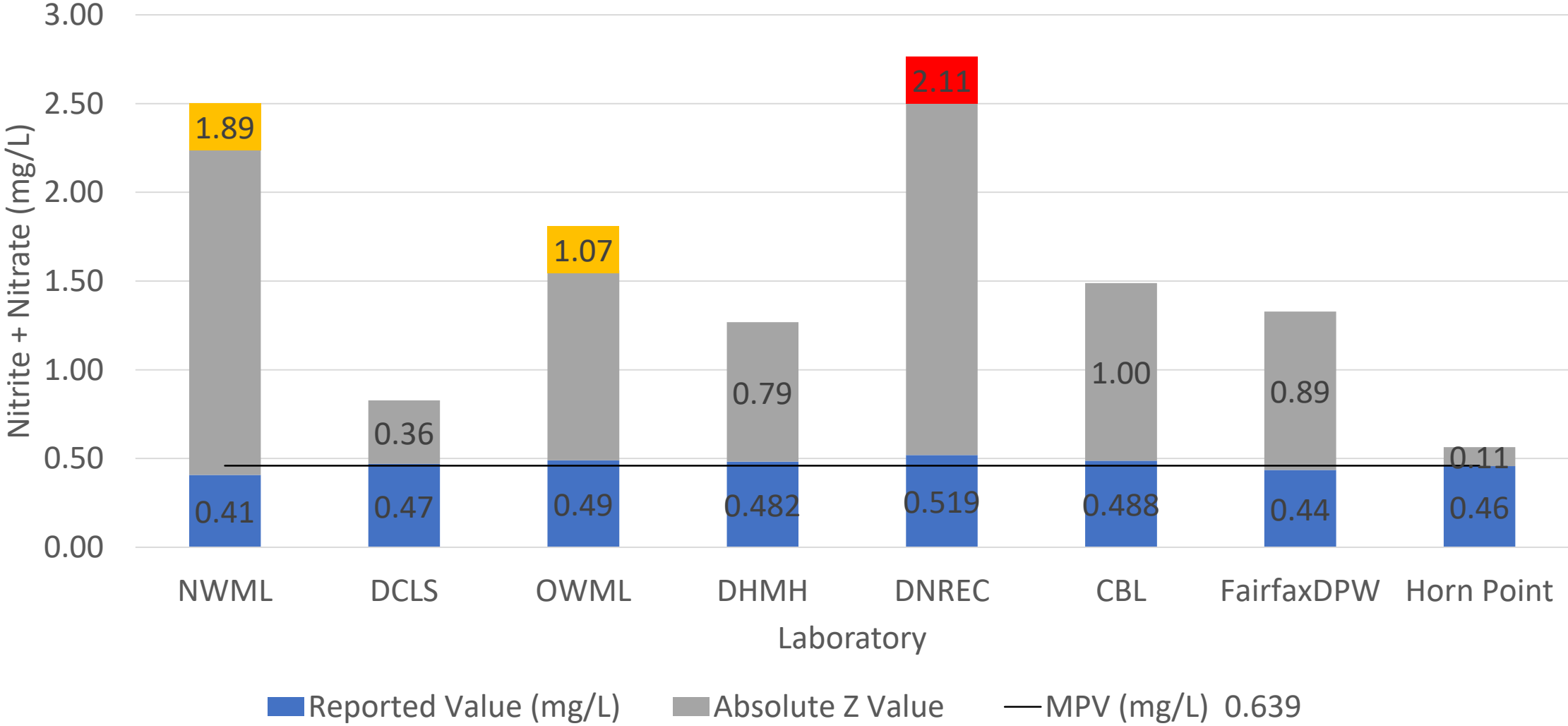
## Nitrite + Nitrate Low Concentration



**N-137 (Low Conc.) Spring 2018 Nitrite + Nitrate (mg/L)****F-ps= 0.014**

Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) (0.436)	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.138	0.141	97.9	0.003	Colorimetric	0.21
59	DCLS	0.14	0.141	99.3	0.001	Colorimetric	0.07
105	PADEP	0.17	0.141	120.6	0.029	Colorimetric	2.07
118	OWML	0.18	0.141	127.7	0.039	Colorimetric	2.79
198	DHMH	0.145	0.141	102.8	0.004	Colorimetric	0.29
297	DNREC	0.143	0.141	101.4	0.002	Colorimetric	0.14
316	ODU	0.1472	0.141	104.4	0.006	Colorimetric	0.44
318	CBL	0.142	0.141	100.7	0.001	Colorimetric	0.07
319	FairfaxDPW	0.134	0.141	95.0	0.007	Colorimetric	0.50
320	Horn Point	0.139	0.141	98.6	0.002	Colorimetric	0.14

Nitrite + Nitrate High Concentration



**N-138 (High Conc.) Spring 2018 Nitrite + Nitrate (mg/L)****F-ps= 0.028**

Lab ID	Lab	Reported Value (mg/L)	MPV (mg/L) 0.639	% Recovery	Diff. From MPV (mg/L)	Method	Absolute Z Value
1	NWML	0.41	0.460	88.5	0.053	Colorimetric	1.89
59	DCLS	0.47	0.460	102.2	0.010	Colorimetric	0.36
118	OWML	0.49	0.460	106.5	0.030	Colorimetric	1.07
198	DHMH	0.482	0.460	104.8	0.022	Colorimetric	0.79
297	DNREC	0.519	0.460	112.8	0.059	Colorimetric	2.11
318	CBL	0.488	0.460	106.1	0.028	Colorimetric	1.00
319	FairfaxDPW	0.44	0.460	94.6	0.025	Colorimetric	0.89
320	Horn Point	0.46	0.460	99.3	0.003	Colorimetric	0.11