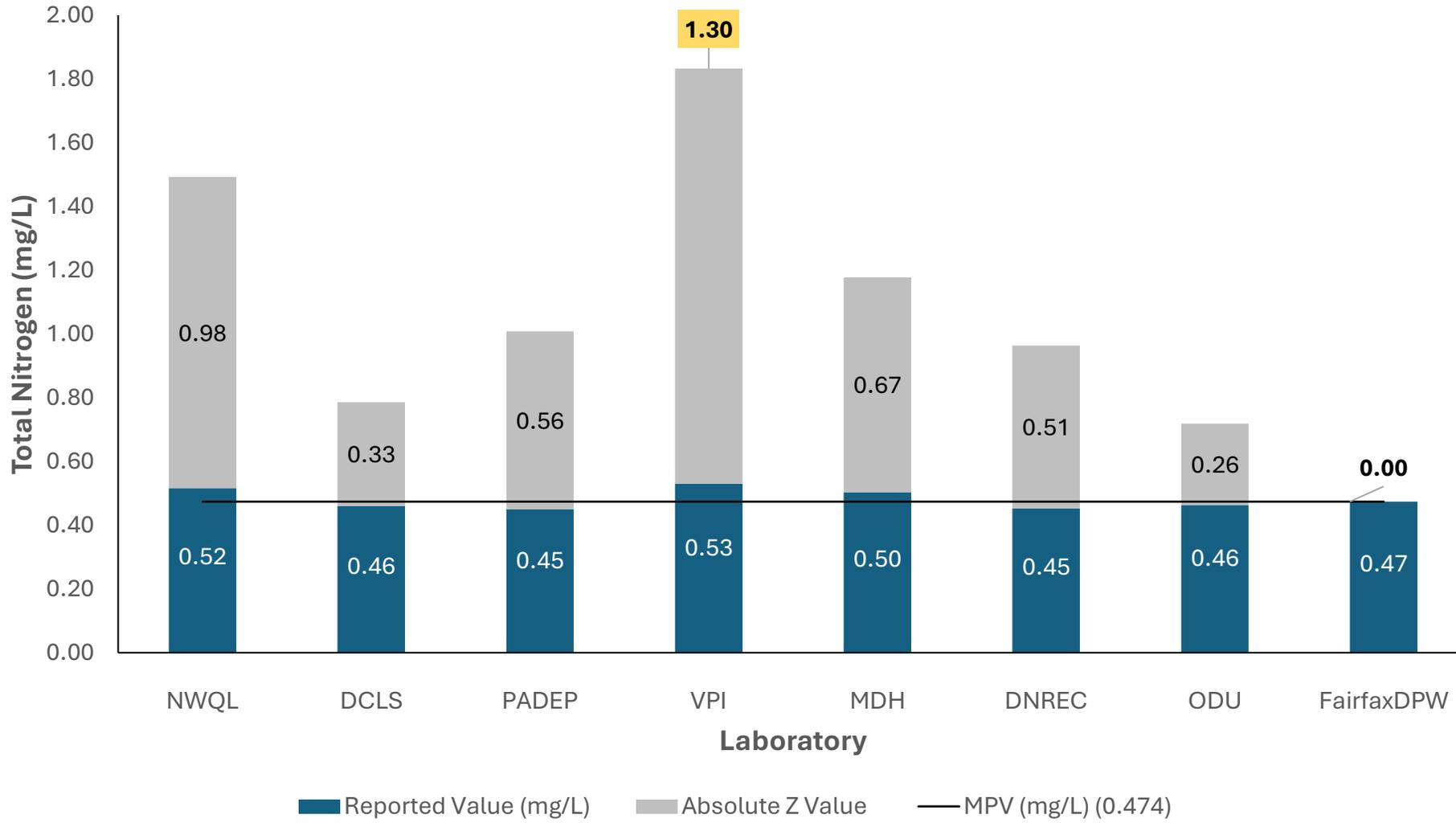


USGS Standard Reference Samples

Fall 2025

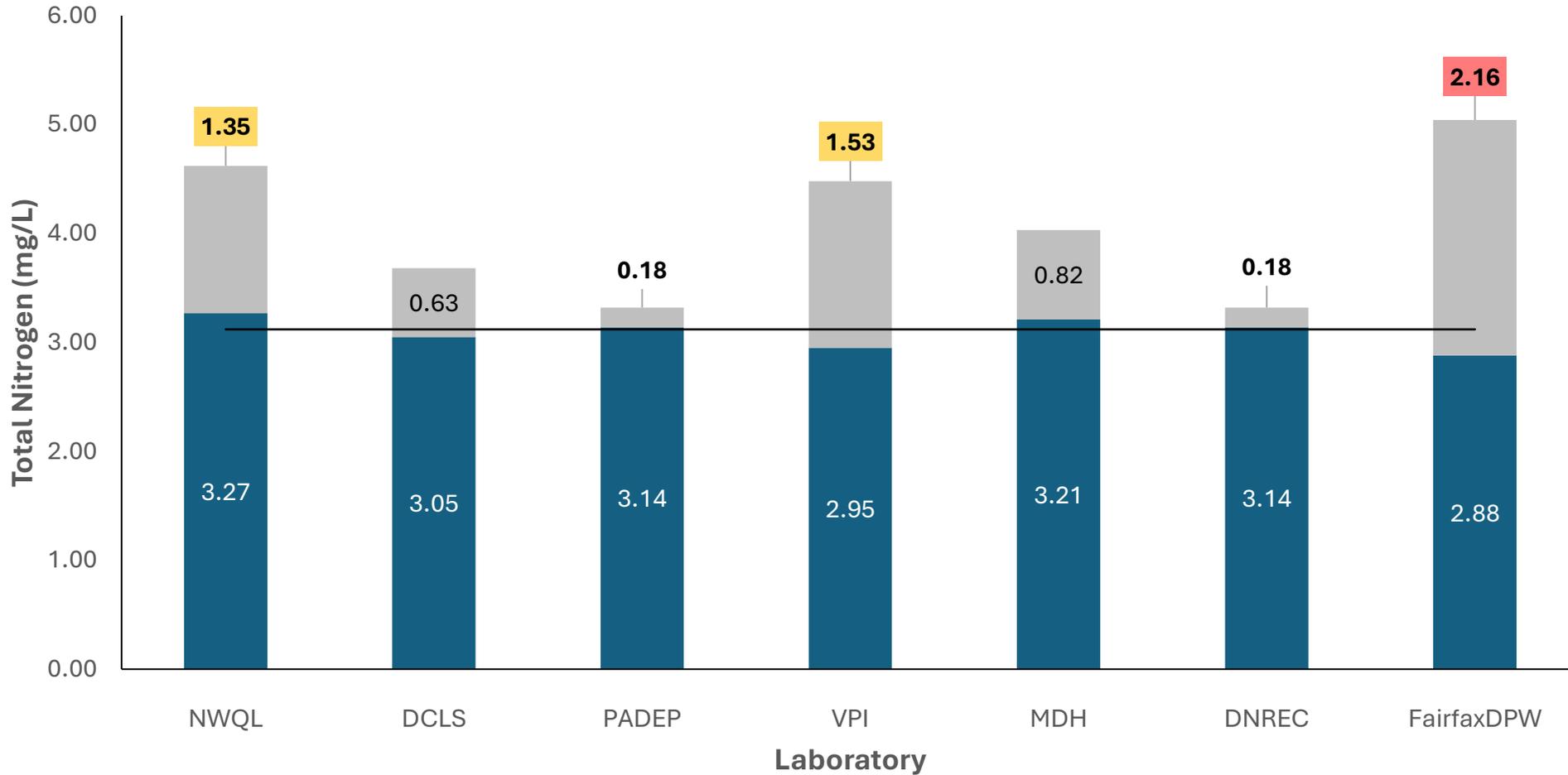
Allison Welch (CRC)

Total Nitrogen Low Concentration



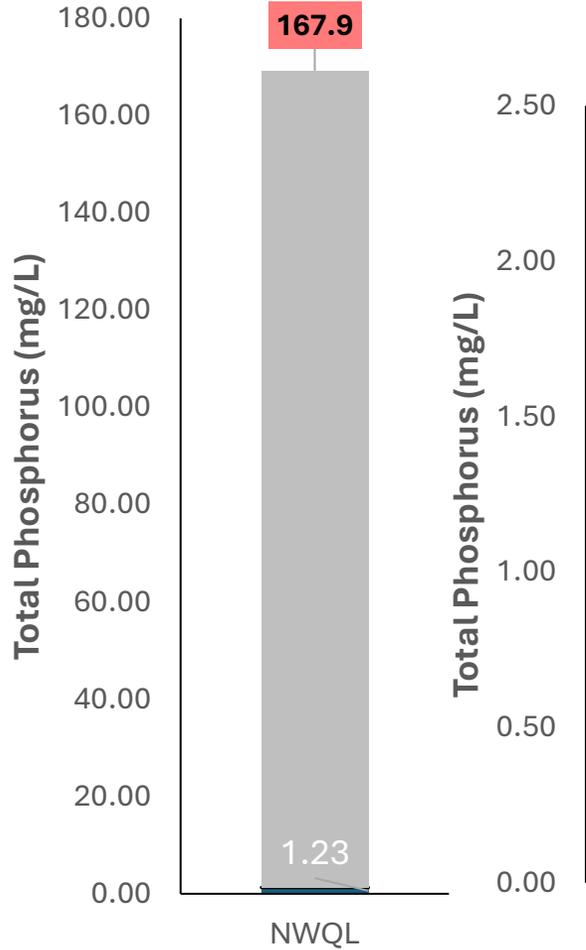
Absolute Z Value	Rating
<0.5	Excellent
0.51-1.0	Good
1.01-1.50	Satisfactory
1.51-2.0	Marginal
>2.0	Unsatisfactory

Total Nitrogen High Concentration



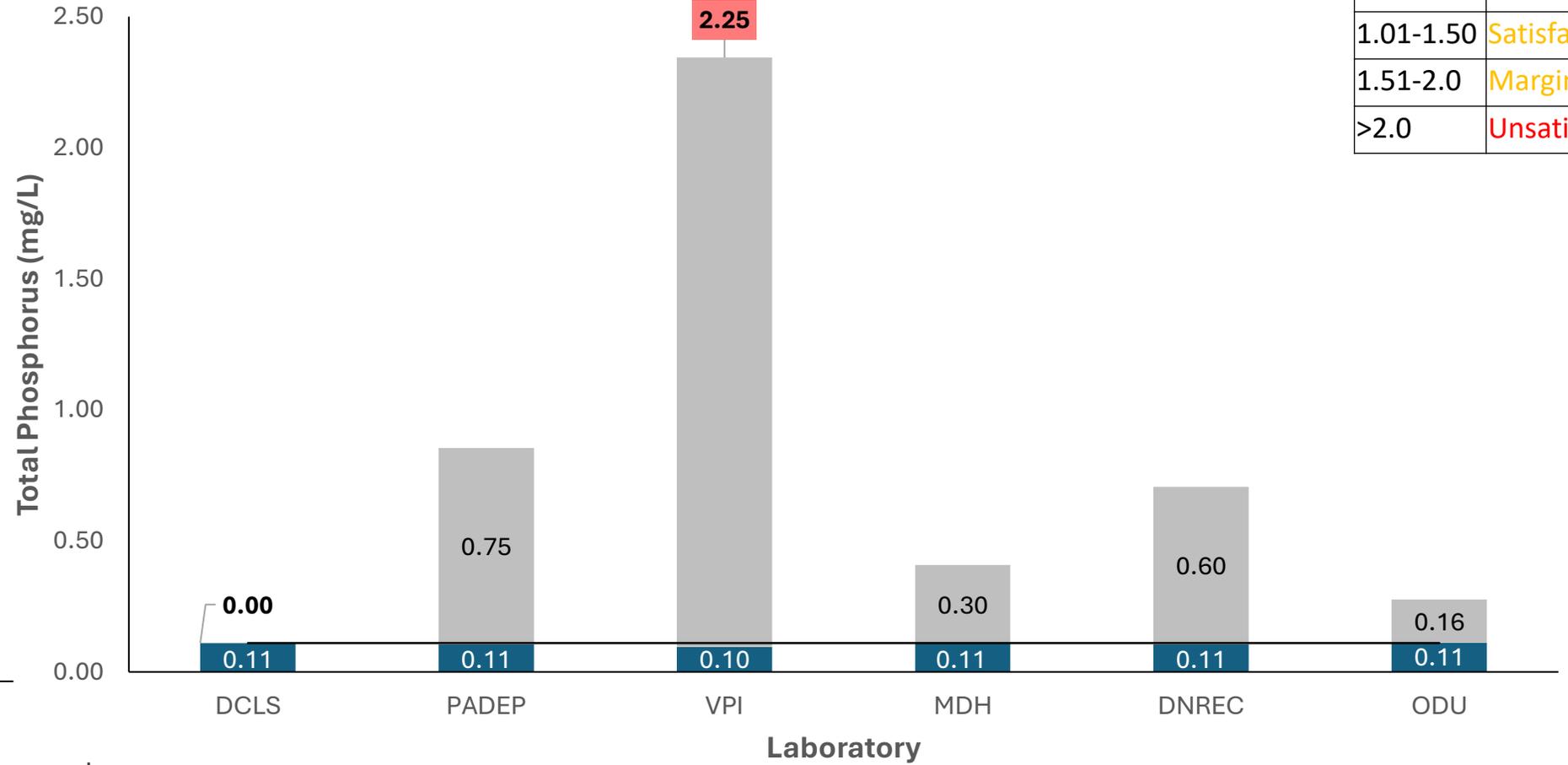
Absolute Z Value	Rating
<0.5	Excellent
0.51-1.0	Good
1.01-1.50	Satisfactory
1.51-2.0	Marginal
>2.0	Unsatisfactory

■ Reported Value (mg/L)
 ■ Absolute Z Value
 — MPV (mg/L) (3.12)



Major outlier of 1.23, compared to the 0.110 MPV.

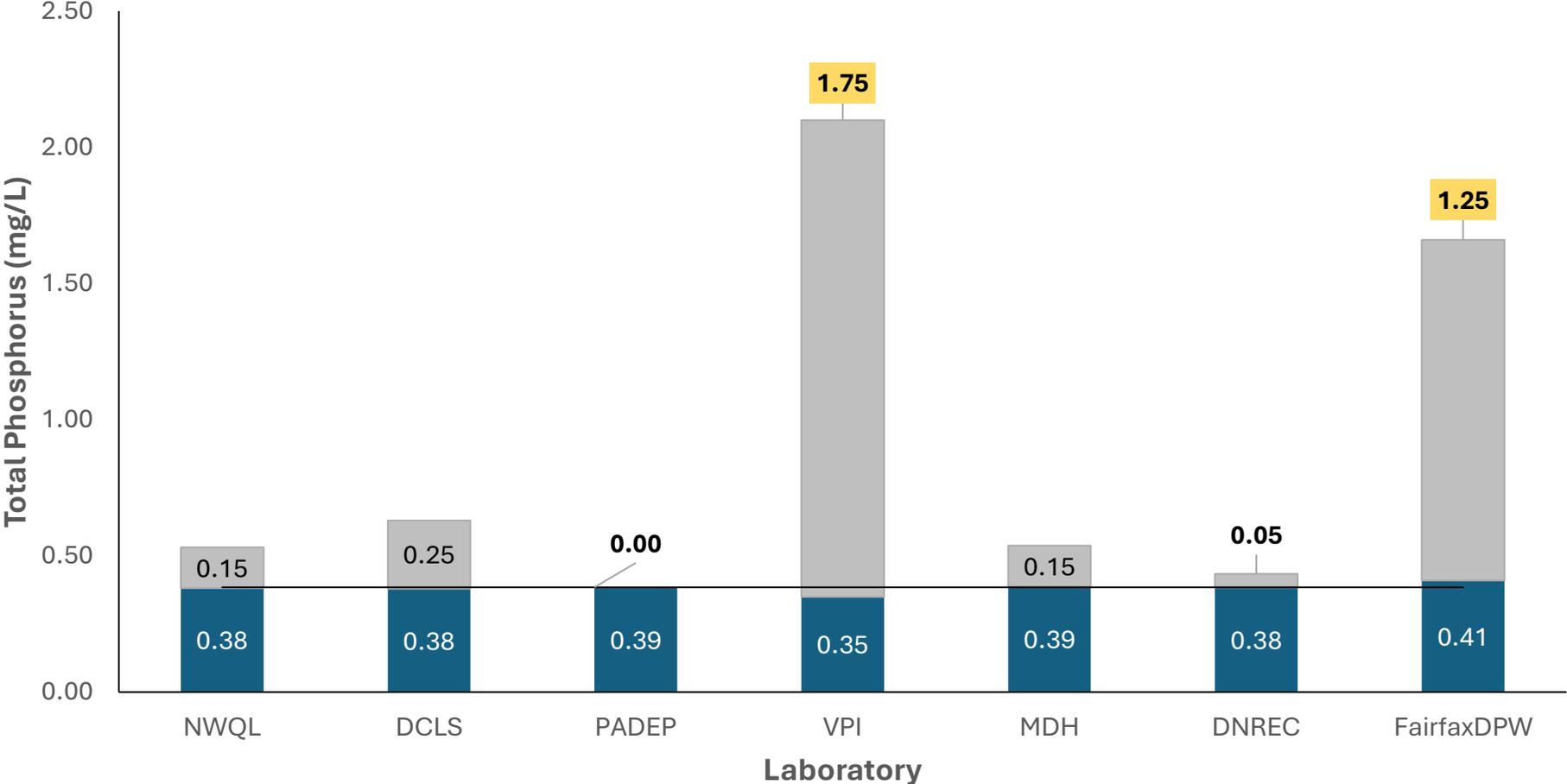
Total Phosphorus Low Concentration



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

■ Reported Value (mg/L)
 ■ Absolute Z Value
 — MPV (mg/L) (0.110)

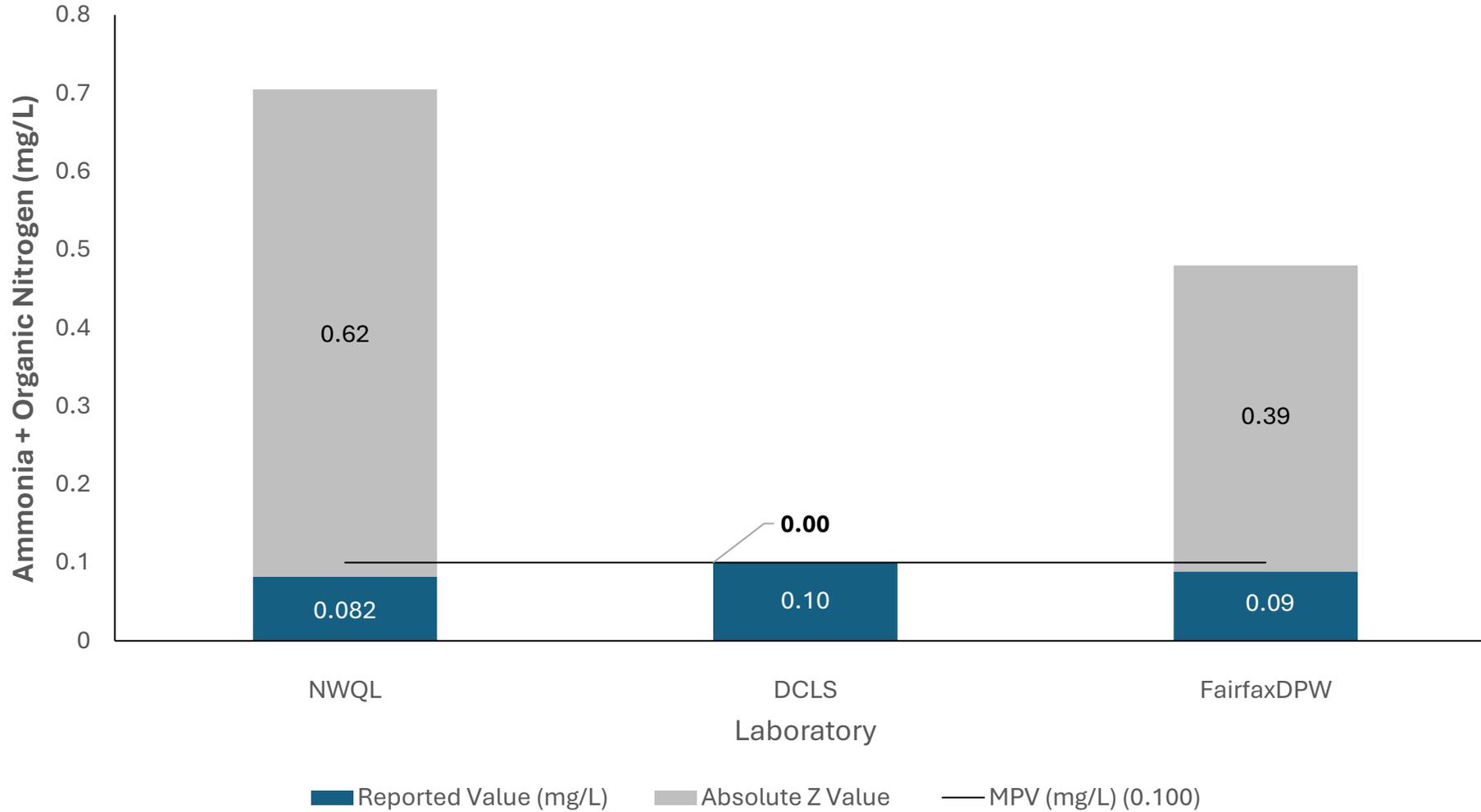
Total Phosphorus High Concentration



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

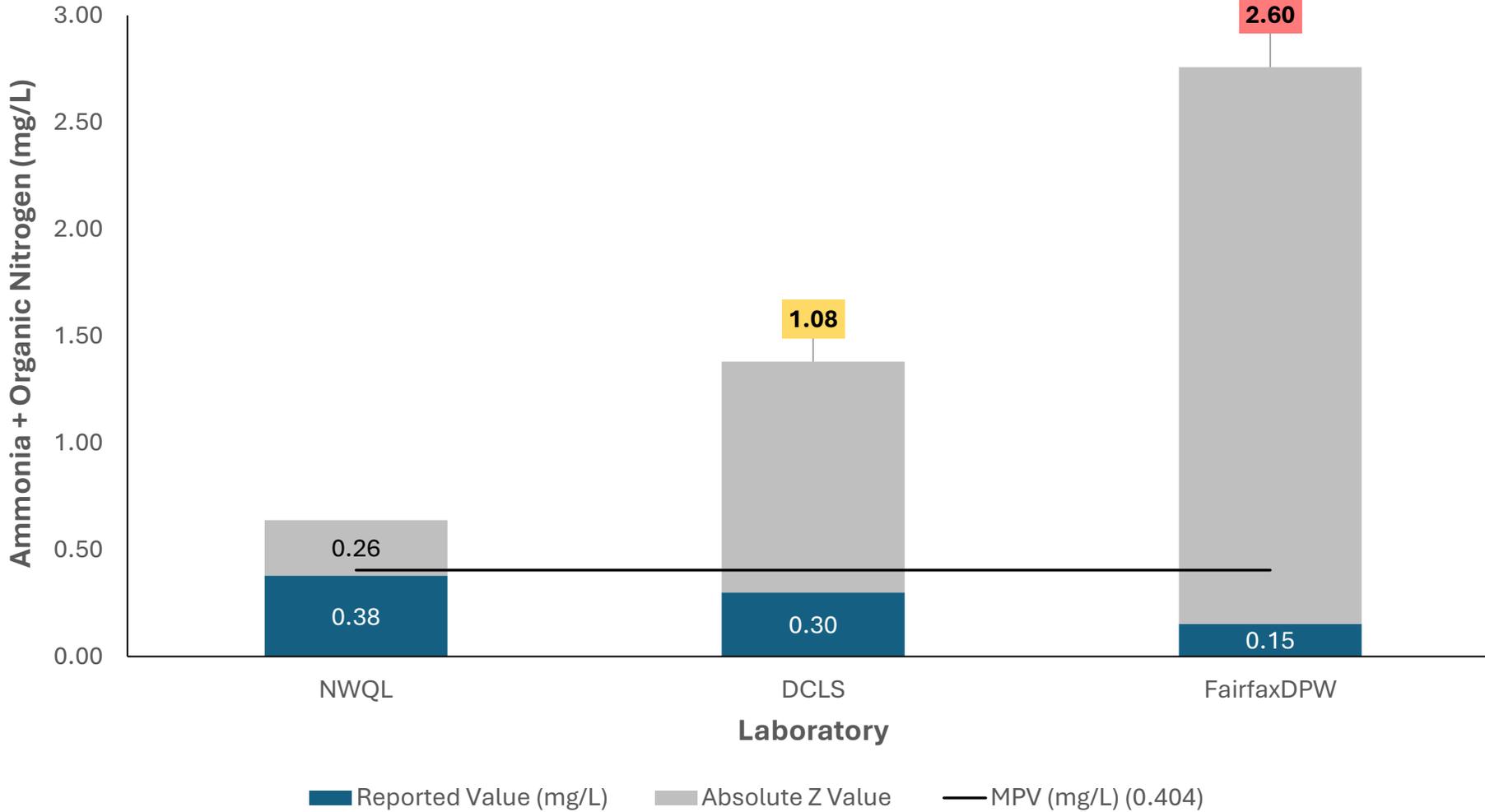
■ Reported Value (mg/L)
 ■ Absolute Z Value
 — MPV (mg/L) (0.385)

Ammonia + Organic Nitrogen Low Concentration



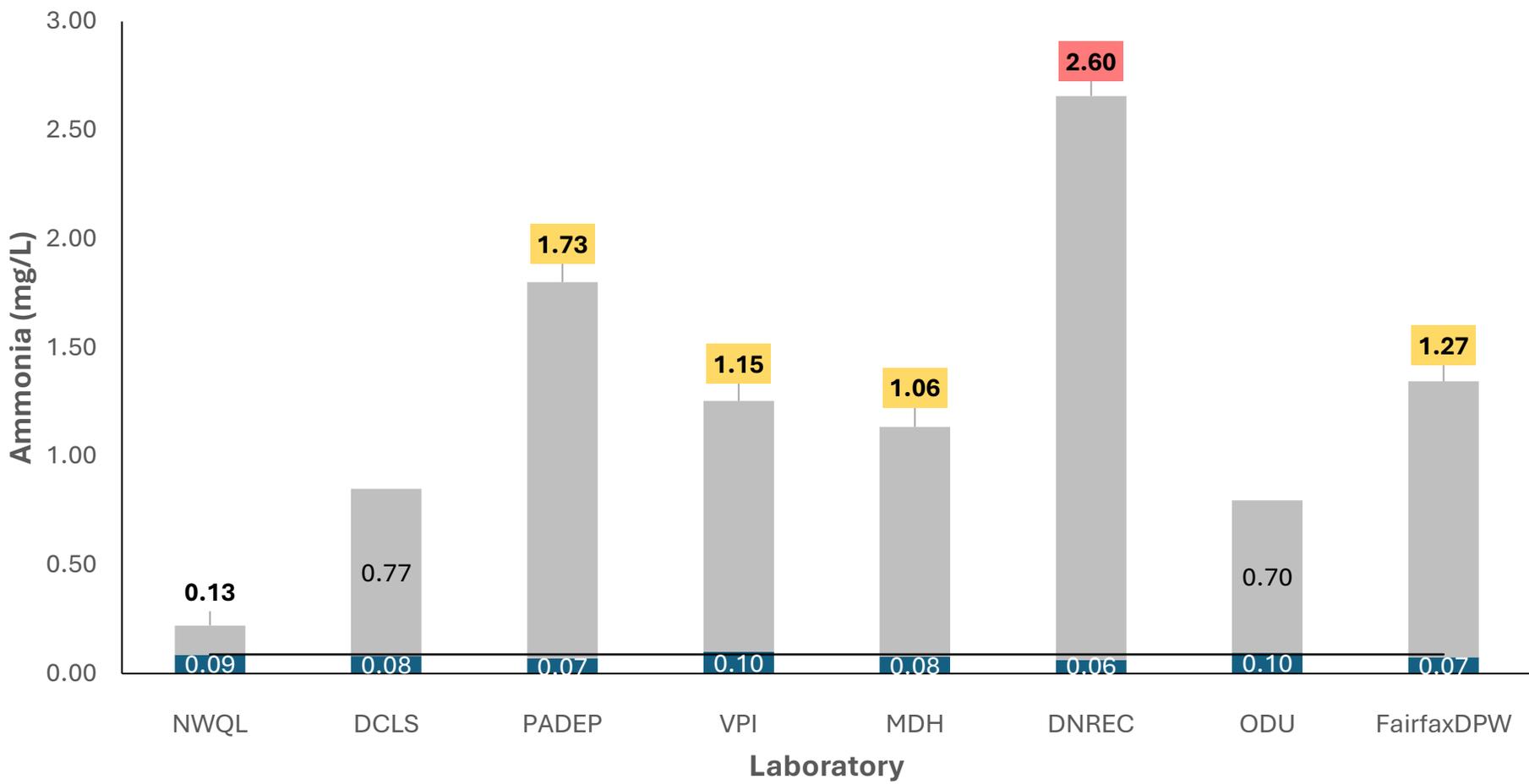
Absolute Z Value	Rating
<0.5	Excellent
0.51-1.0	Good
1.01-1.50	Satisfactory
1.51-2.0	Marginal
>2.0	Unsatisfactory

Ammonia + Organic Nitrogen High 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

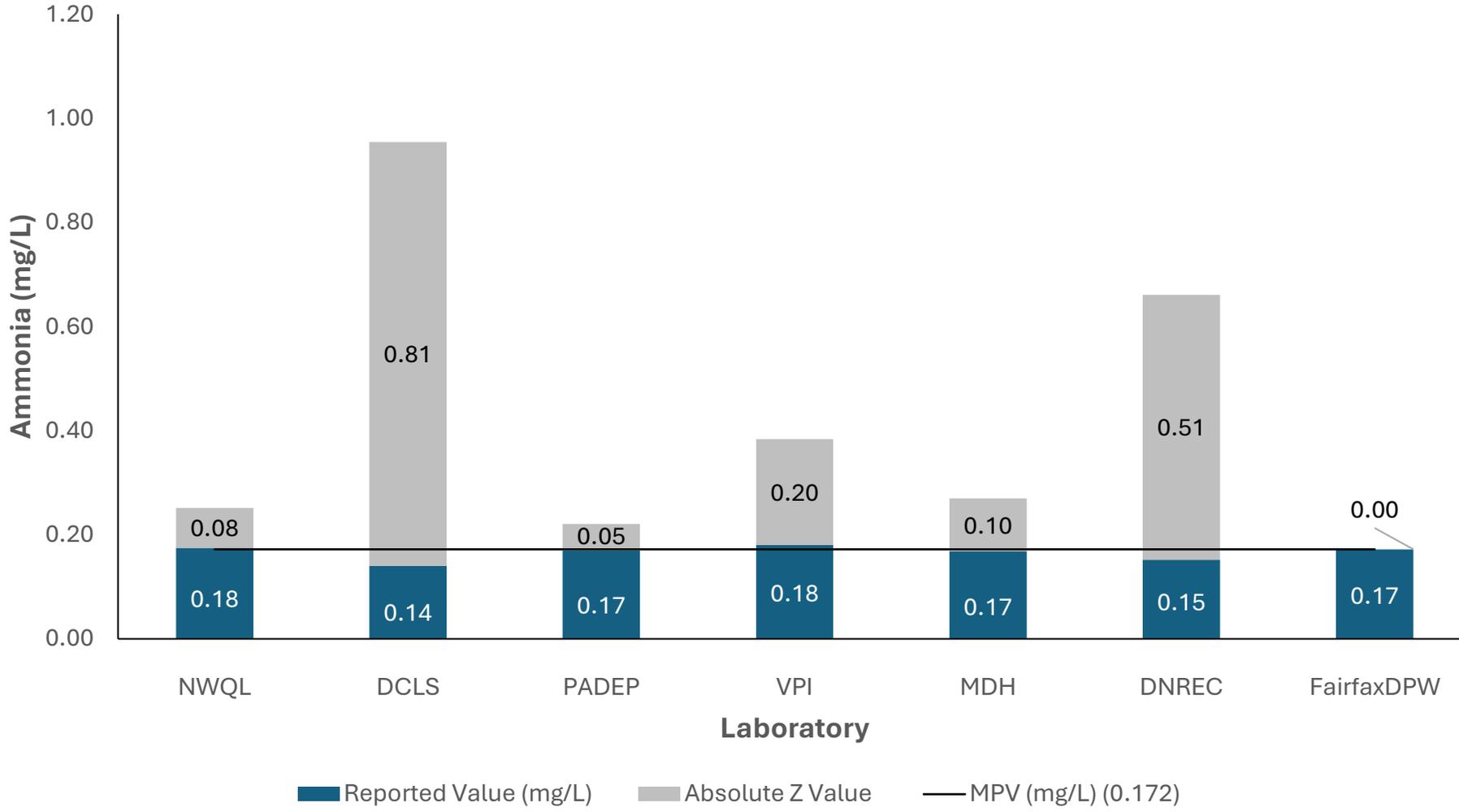
Ammonia Low Concentration



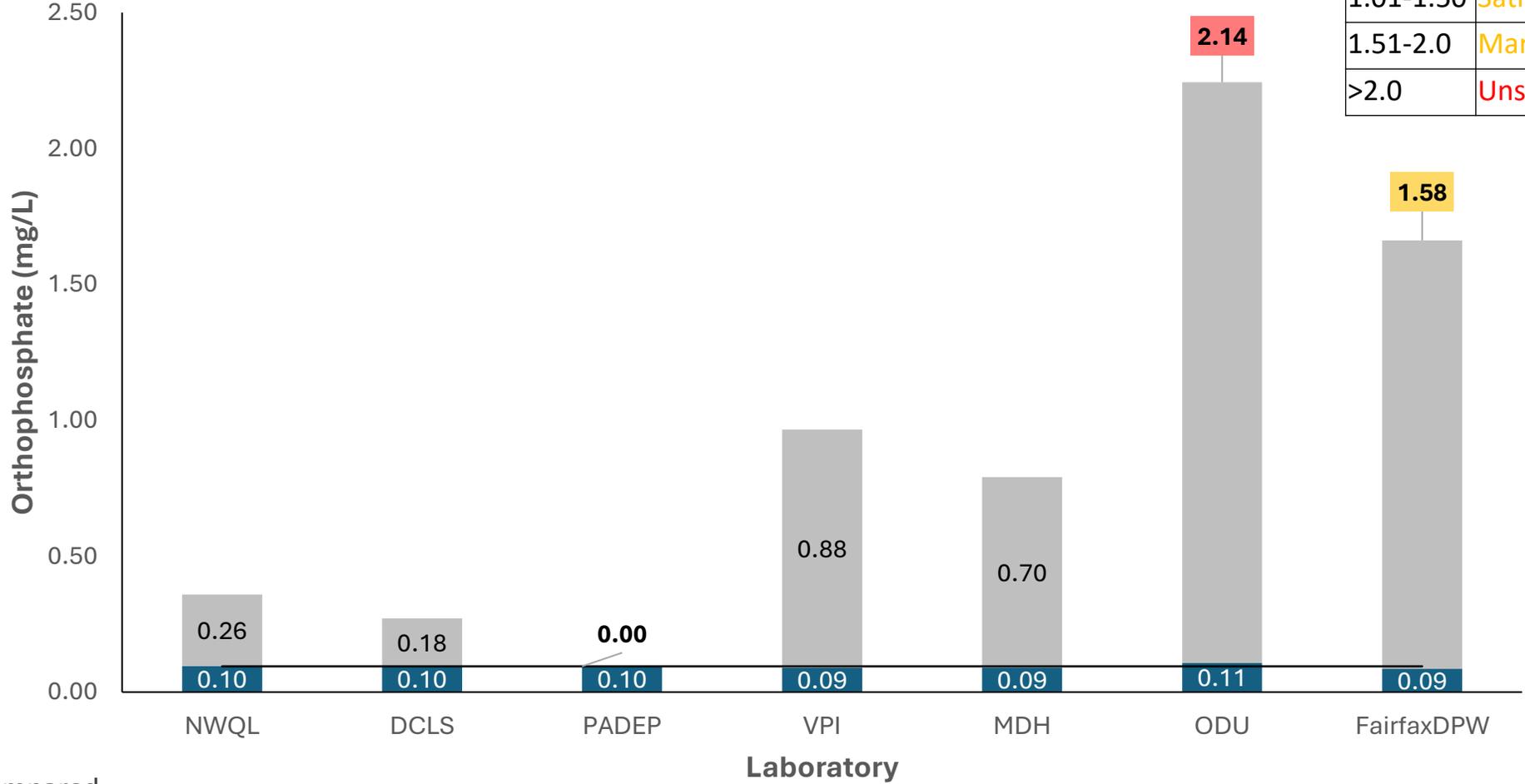
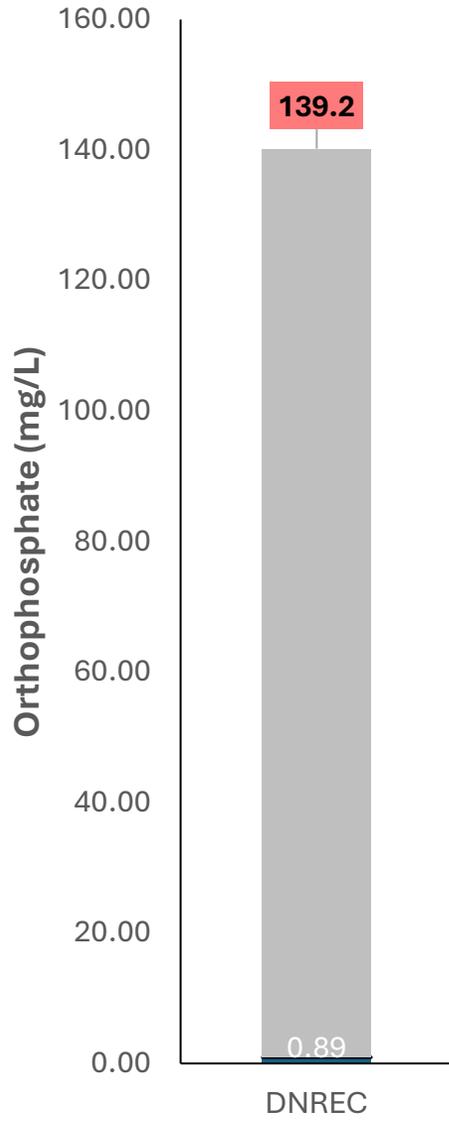
Reported Value (mg/L)
 Absolute Z Value
 MPV (mg/L) (0.0880)

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

Ammonia High 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

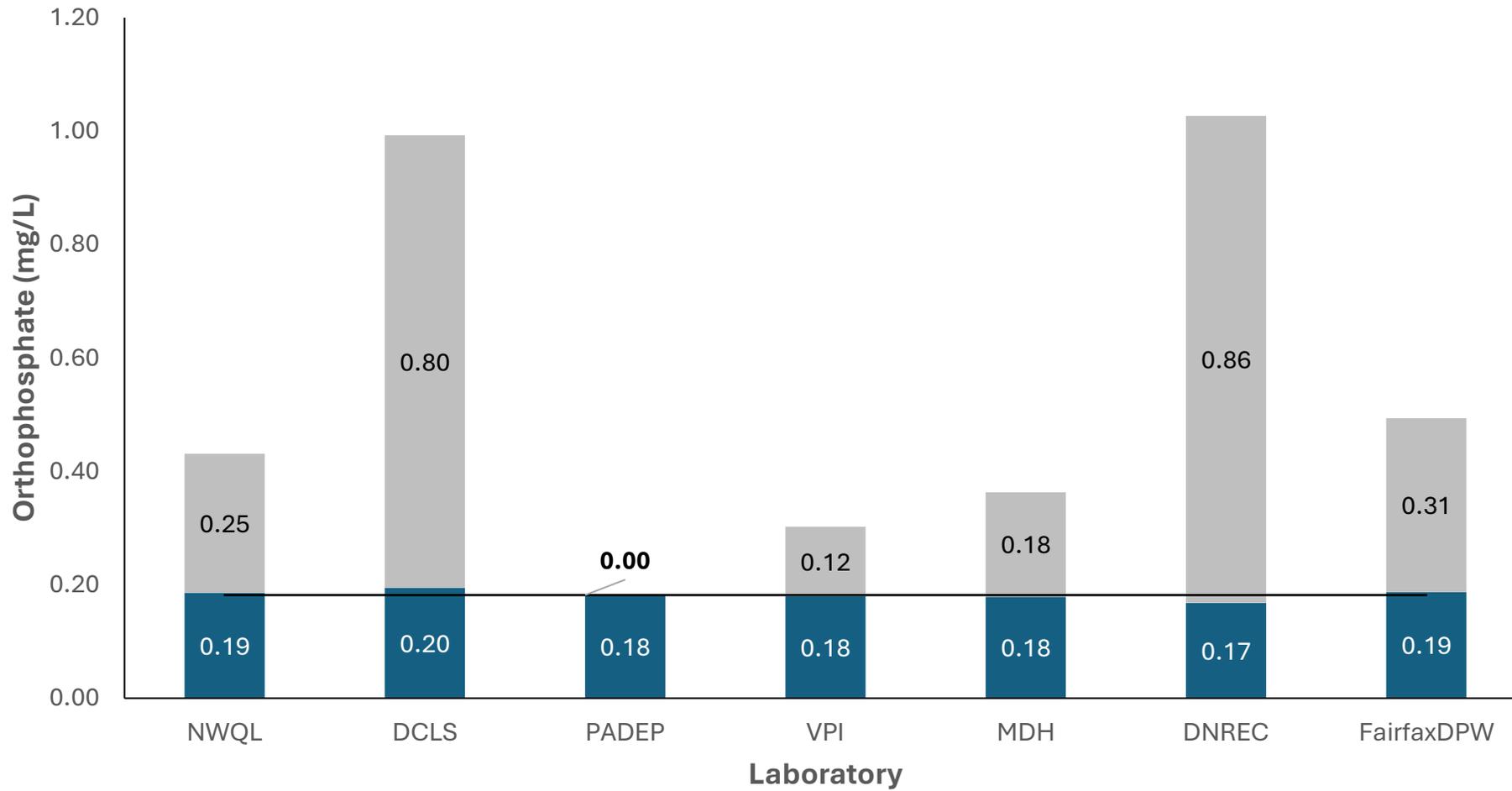


Absolute Z Value	Rating
<0.5	Excellent
0.51-1.0	Good
1.01-1.50	Satisfactory
1.51-2.0	Marginal
>2.0	Unsatisfactory

Major outlier of 0.89, compared to the 0.0950 MPV.

■ Reported Value (mg/L)
 ■ Absolute Z Value
 — MPV (mg/L) (0.0950)

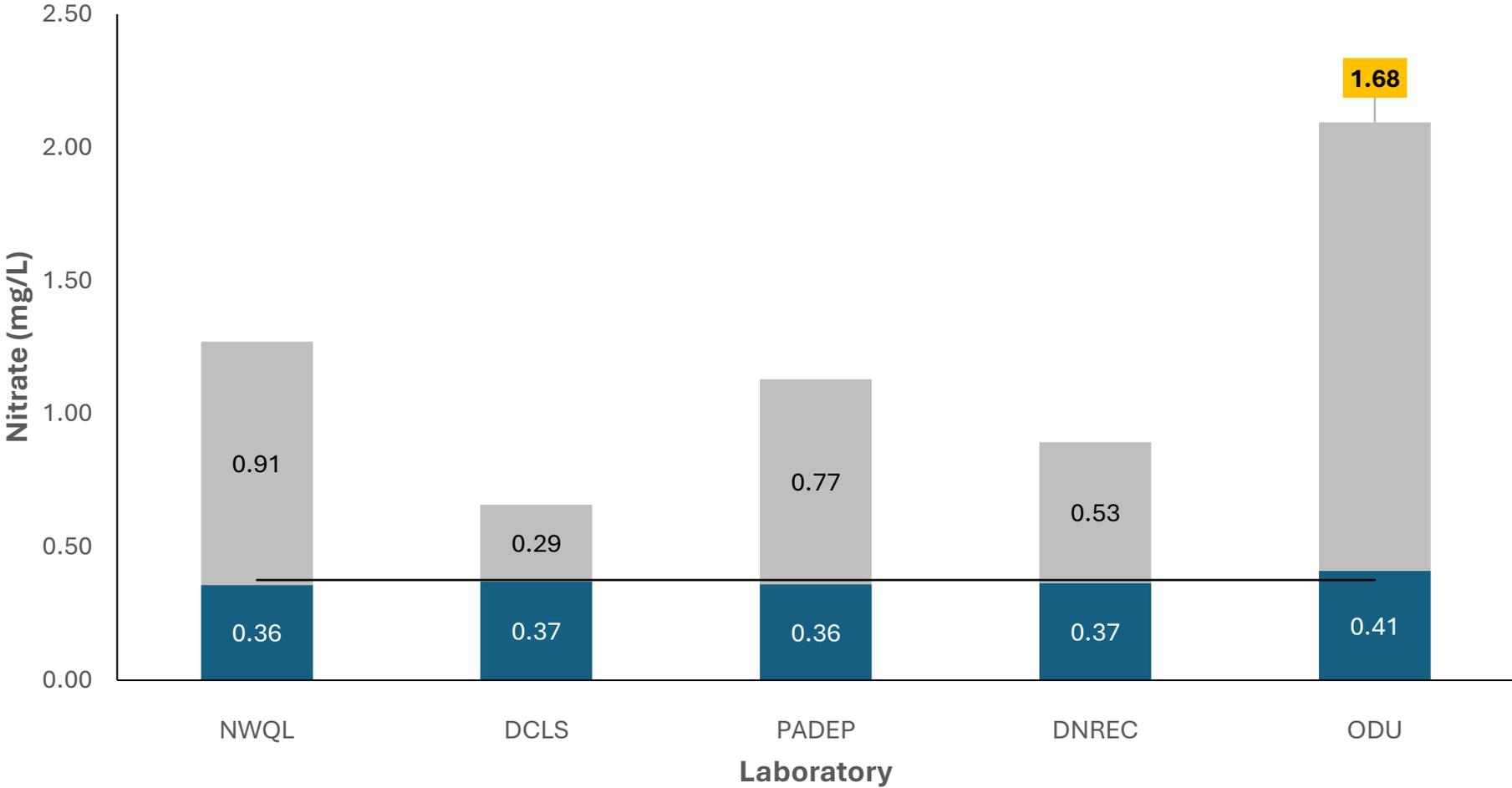
Orthophosphate High Concentration



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

■ Reported Value (mg/L)
 ■ Absolute Z Value
 — MPV (mg/L) (0.182)

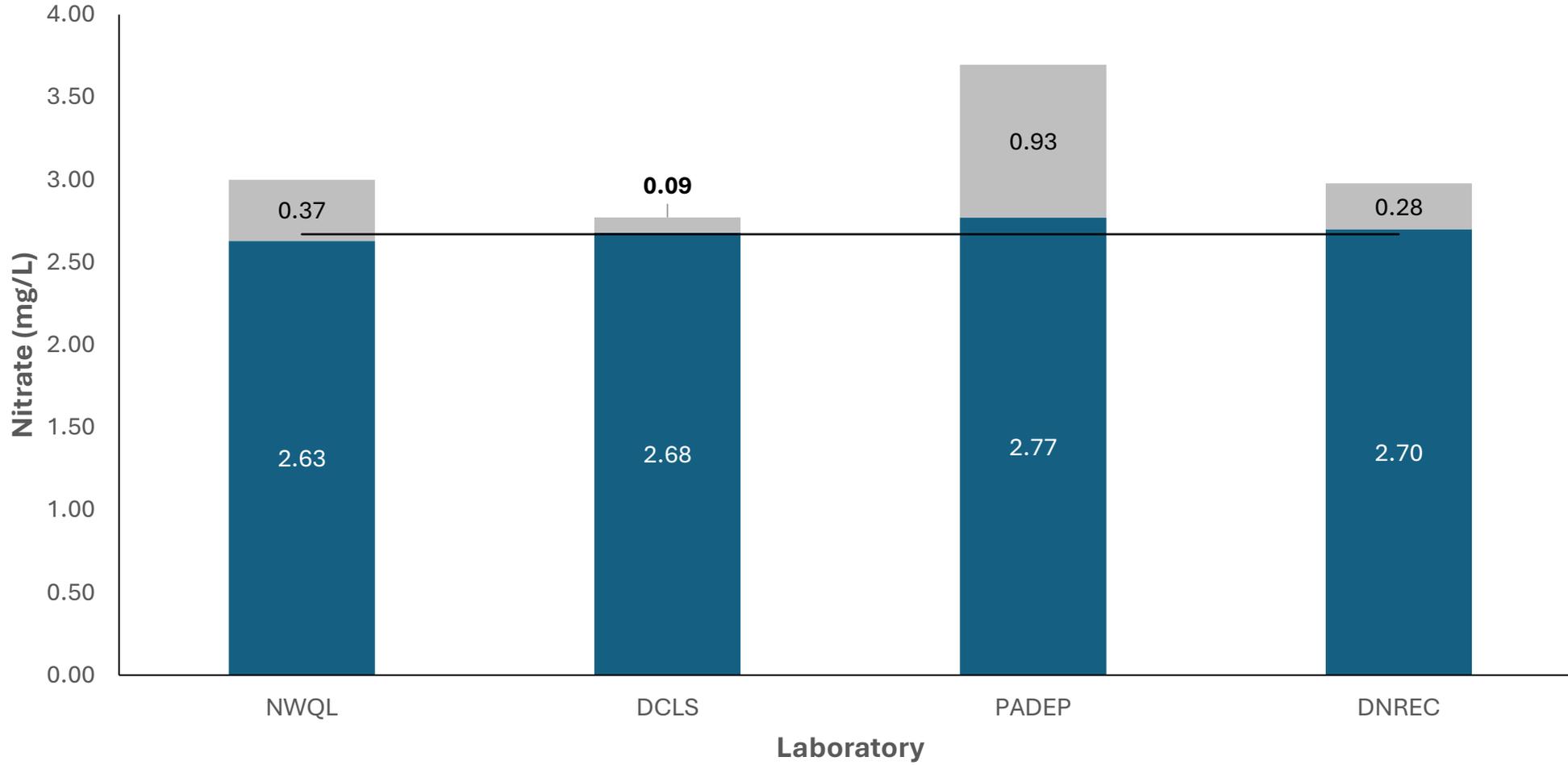
Nitrate Low Concentration



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

■ Reported Value (mg/L)
 ■ Absolute Z Value
 — MPV (mg/L) (0.376)

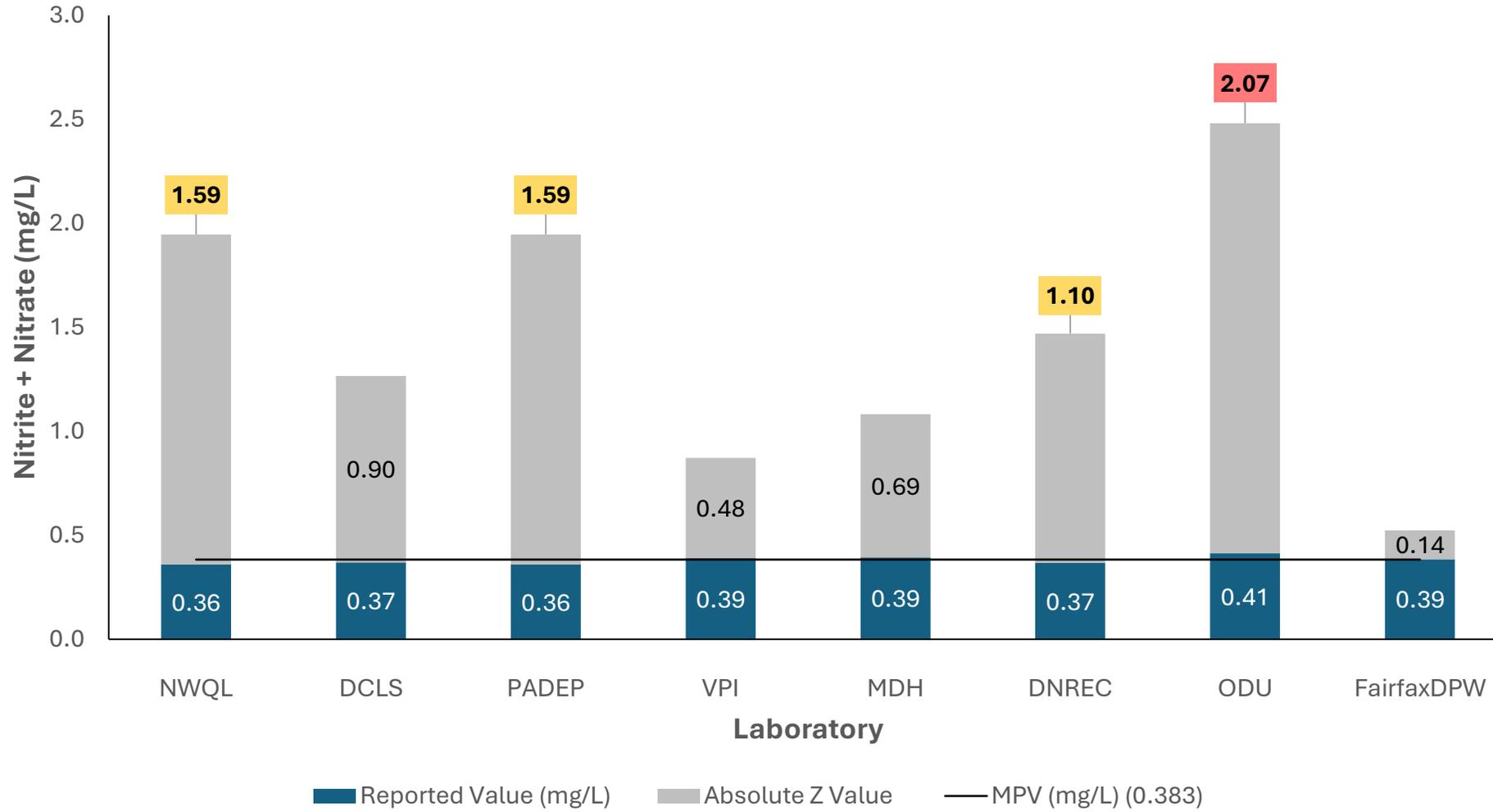
Nitrate High Concentration



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

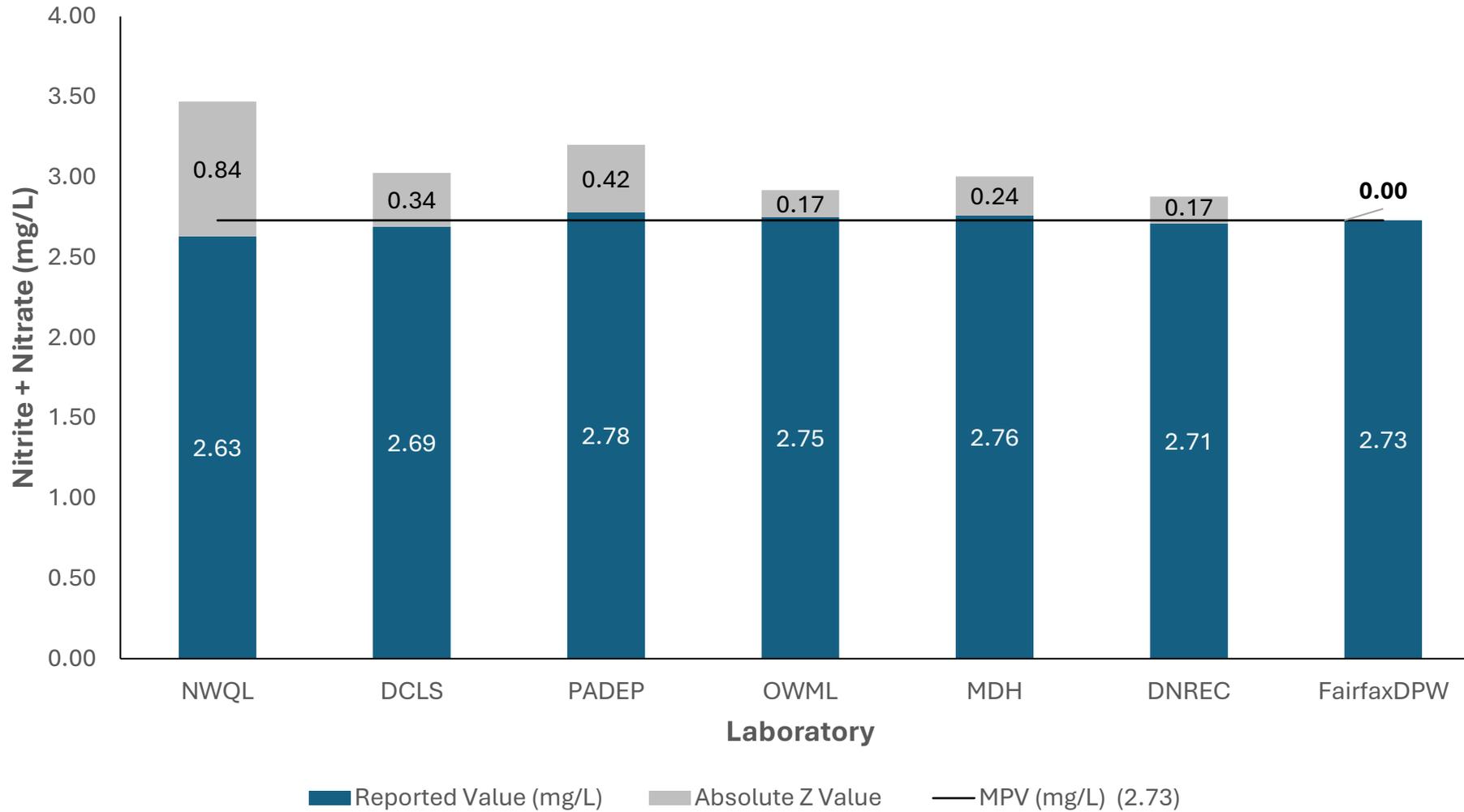
■ Reported Value (mg/L)
 ■ Absolute Z-Value
 — MPV (mg/L) (2.67)

Nitrite + Nitrate 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

Nitrite + Nitrate High 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