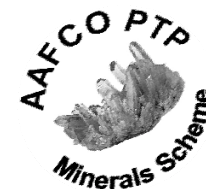




**AAFCO**  
Association of American Feed Control Officials



## Minerals Scheme

### Lamb Feed

Test Material Code # 202553

## Analyte Proficiency Testing Report

# Labs Reporting: 35

# Analytes Reported 17

Issue Date : 10/31/2025

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Robust* Analyte Values |            |            |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|------------------------|------------|------------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob. Mean              | Horwitz SD | Rob. R-bar | # Tests |                  |             |      |
| 015          | Aluminum (ppm)        | 2468     | 133.7    | 6.400  | 194.8                  | 14.10      | 6.224      | 19      | -4.34            | 015.52      | 0    |
| 015          | Aluminum (ppm)        | 0186     | 152.5    | 1.100  | 194.8                  | 14.10      | 6.224      | 19      | -3.01            | 015.52      | 0    |
| 015          | Aluminum (ppm)        | 0510     | 160.0    | 0.0000 | 194.8                  | 14.10      | 6.224      | 19      | -2.47            | 015.43      | 0    |
| 015          | Aluminum (ppm)        | 0870     | 163.1    | 11.33  | 194.8                  | 14.10      | 6.224      | 19      | -2.25            | 015.43      | 0    |
| 015          | Aluminum (ppm)        | 0511     | 181.5    | 1.000  | 194.8                  | 14.10      | 6.224      | 19      | -0.95            | 015.43      | 0    |
| 015          | Aluminum (ppm)        | 0407     | 189.6    | 3.199  | 194.8                  | 14.10      | 6.224      | 19      | -0.37            | 015.41      | 0    |
| 015          | Aluminum (ppm)        | 0413     | 192.8    | 5.300  | 194.8                  | 14.10      | 6.224      | 19      | -0.15            | 015.53      | 0    |
| 015          | Aluminum (ppm)        | 2292     | 194.0    | 6.000  | 194.8                  | 14.10      | 6.224      | 19      | -0.06            | 015.99      | 0    |
| 015          | Aluminum (ppm)        | 0227     | 196.0    | 8.000  | 194.8                  | 14.10      | 6.224      | 19      | 0.08             | 015.43      | 0    |
| 015          | Aluminum (ppm)        | 0918     | 197.2    | 4.593  | 194.8                  | 14.10      | 6.224      | 19      | 0.17             | 015.53      | 0    |
| 015          | Aluminum (ppm)        | 0407     | 197.6    | 10.14  | 194.8                  | 14.10      | 6.224      | 19      | 0.20             | 015.43      | 0    |
| 015          | Aluminum (ppm)        | 0407     | 204.4    | 7.575  | 194.8                  | 14.10      | 6.224      | 19      | 0.68             | 015.53      | 0    |
| 015          | Aluminum (ppm)        | 0508     | 205.6    | 1.420  | 194.8                  | 14.10      | 6.224      | 19      | 0.77             | 015.43      | 0    |
| 015          | Aluminum (ppm)        | 0098     | 207.4    | 2.700  | 194.8                  | 14.10      | 6.224      | 19      | 0.89             | 015.43      | 0    |
| 015          | Aluminum (ppm)        | 0553     | 213.0    | 4.000  | 194.8                  | 14.10      | 6.224      | 19      | 1.29             | 015.53      | 0    |
| 015          | Aluminum (ppm)        | 0042     | 215.5    | 9.000  | 194.8                  | 14.10      | 6.224      | 19      | 1.47             | 015.42      | 0    |
| 015          | Aluminum (ppm)        | 0021     | 217.0    | 10.00  | 194.8                  | 14.10      | 6.224      | 19      | 1.57             | 015.43      | 0    |
| 015          | Aluminum (ppm)        | 0964     | 226.0    | 8.000  | 194.8                  | 14.10      | 6.224      | 19      | 2.21             | 015.43      | 0    |
| 015          | Aluminum (ppm)        | 0504     | 227.5    | 15.00  | 194.8                  | 14.10      | 6.224      | 19      | 2.32             | 015.53      | 0    |
| 015          | Aluminum (ppm)        | 2302     | 0.0000   | 0.0000 | 194.8                  | 14.10      | 6.224      | 19      |                  | 015.99      | 4    |
| 017          | Boron (ppm)           | 0870     | 15.11    | 0.1220 | 21.92                  | 2.203      | 0.3559     | 8       | -3.09            | 017.43      | 0    |
| 017          | Boron (ppm)           | 0413     | 20.65    | 0.1000 | 21.92                  | 2.203      | 0.3559     | 8       | -0.57            | 017.53      | 0    |
| 017          | Boron (ppm)           | 0407     | 21.87    | 0.8430 | 21.92                  | 2.203      | 0.3559     | 8       | -0.02            | 017.43      | 0    |
| 017          | Boron (ppm)           | 0510     | 22.00    | 0.0000 | 21.92                  | 2.203      | 0.3559     | 8       | 0.04             | 017.43      | 0    |
| 017          | Boron (ppm)           | 0918     | 22.26    | 0.5800 | 21.92                  | 2.203      | 0.3559     | 8       | 0.16             | 017.43      | 0    |
| 017          | Boron (ppm)           | 0407     | 22.48    | 0.1281 | 21.92                  | 2.203      | 0.3559     | 8       | 0.25             | 017.41      | 0    |
| 017          | Boron (ppm)           | 0407     | 22.72    | 0.3127 | 21.92                  | 2.203      | 0.3559     | 8       | 0.36             | 017.53      | 0    |
| 017          | Boron (ppm)           | 0098     | 23.17    | 0.4300 | 21.92                  | 2.203      | 0.3559     | 8       | 0.57             | 017.43      | 0    |
| 017          | Boron (ppm)           | 0553     | 27.80    | 8.400  | 21.92                  | 2.203      | 0.3559     | 8       | 2.67             | 017.53      | 1    |
| 017          | Boron (ppm)           | 0021     | < 25     |        | 21.92                  | 2.203      | 0.3559     | 8       |                  | 017.43      | 5    |
| 017          | Boron (ppm)           | 2468     | < 109    |        | 21.92                  | 2.203      | 0.3559     | 8       |                  | 017.52      | 5    |
| 021          | Cobalt (ppm)          | 0563     | 22.26    | 0.0490 | 26.95                  | 2.626      | 0.8175     | 27      | -1.79            | 021.31      | 0    |
| 021          | Cobalt (ppm)          | 2433     | 23.23    | 0.2530 | 26.95                  | 2.626      | 0.8175     | 27      | -1.42            | 021.42      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Robust* Analyte Values |            |            |         | AAFCO PT Z Score | Your   |      |
|--------------|-----------------------|----------|----------|--------|------------------------|------------|------------|---------|------------------|--------|------|
|              |                       |          | Value    | Range  | Rob. Mean              | Horwitz SD | Rob. R-bar | # Tests |                  | Method | Flag |
| 021          | Cobalt (ppm)          | 2404     | 24.02    | 0.1050 | 26.95                  | 2.626      | 0.8175     | 27      | -1.12            | 021.53 | 0    |
| 021          | Cobalt (ppm)          | 0407     | 24.55    | 0.0448 | 26.95                  | 2.626      | 0.8175     | 27      | -0.91            | 021.41 | 0    |
| 021          | Cobalt (ppm)          | 0870     | 24.64    | 0.2528 | 26.95                  | 2.626      | 0.8175     | 27      | -0.88            | 021.43 | 0    |
| 021          | Cobalt (ppm)          | 0407     | 25.79    | 0.8173 | 26.95                  | 2.626      | 0.8175     | 27      | -0.44            | 021.43 | 0    |
| 021          | Cobalt (ppm)          | 0508     | 25.82    | 0.4790 | 26.95                  | 2.626      | 0.8175     | 27      | -0.43            | 021.43 | 0    |
| 021          | Cobalt (ppm)          | 0227     | 26.00    | 4.000  | 26.95                  | 2.626      | 0.8175     | 27      | -0.36            | 021.43 | 0    |
| 021          | Cobalt (ppm)          | 2141     | 26.13    | 0.1470 | 26.95                  | 2.626      | 0.8175     | 27      | -0.31            | 021.43 | 0    |
| 021          | Cobalt (ppm)          | 2404     | 26.24    | 0.5800 | 26.95                  | 2.626      | 0.8175     | 27      | -0.27            | 021.43 | 0    |
| 021          | Cobalt (ppm)          | 0510     | 26.35    | 0.1100 | 26.95                  | 2.626      | 0.8175     | 27      | -0.23            | 021.43 | 0    |
| 021          | Cobalt (ppm)          | 0918     | 26.46    | 2.560  | 26.95                  | 2.626      | 0.8175     | 27      | -0.19            | 021.53 | 0    |
| 021          | Cobalt (ppm)          | 0511     | 26.50    | 1.000  | 26.95                  | 2.626      | 0.8175     | 27      | -0.17            | 021.43 | 0    |
| 021          | Cobalt (ppm)          | 0033     | 26.60    | 1.200  | 26.95                  | 2.626      | 0.8175     | 27      | -0.13            | 021.53 | 0    |
| 021          | Cobalt (ppm)          | 0042     | 26.70    | 0.0000 | 26.95                  | 2.626      | 0.8175     | 27      | -0.10            | 021.42 | 0    |
| 021          | Cobalt (ppm)          | 0186     | 27.15    | 0.1000 | 26.95                  | 2.626      | 0.8175     | 27      | 0.07             | 021.52 | 0    |
| 021          | Cobalt (ppm)          | 2113     | 27.50    | 1.000  | 26.95                  | 2.626      | 0.8175     | 27      | 0.21             | 021.52 | 0    |
| 021          | Cobalt (ppm)          | 0098     | 27.69    | 1.500  | 26.95                  | 2.626      | 0.8175     | 27      | 0.28             | 021.53 | 0    |
| 021          | Cobalt (ppm)          | 0413     | 27.99    | 0.1060 | 26.95                  | 2.626      | 0.8175     | 27      | 0.39             | 021.53 | 0    |
| 021          | Cobalt (ppm)          | 0021     | 28.20    | 2.000  | 26.95                  | 2.626      | 0.8175     | 27      | 0.47             | 021.43 | 0    |
| 021          | Cobalt (ppm)          | 0504     | 28.20    | 0.8000 | 26.95                  | 2.626      | 0.8175     | 27      | 0.47             | 021.53 | 0    |
| 021          | Cobalt (ppm)          | 0407     | 28.89    | 0.2931 | 26.95                  | 2.626      | 0.8175     | 27      | 0.74             | 021.53 | 0    |
| 021          | Cobalt (ppm)          | 0278     | 29.01    | 0.5600 | 26.95                  | 2.626      | 0.8175     | 27      | 0.78             | 021.43 | 0    |
| 021          | Cobalt (ppm)          | 0021     | 29.30    | 3.000  | 26.95                  | 2.626      | 0.8175     | 27      | 0.89             | 021.53 | 0    |
| 021          | Cobalt (ppm)          | 0553     | 30.20    | 1.200  | 26.95                  | 2.626      | 0.8175     | 27      | 1.24             | 021.53 | 0    |
| 021          | Cobalt (ppm)          | 0964     | 31.05    | 2.100  | 26.95                  | 2.626      | 0.8175     | 27      | 1.56             | 021.43 | 0    |
| 021          | Cobalt (ppm)          | 2468     | 32.25    | 0.4000 | 26.95                  | 2.626      | 0.8175     | 27      | 2.02             | 021.52 | 0    |
| 022          | Copper (ppm)          | 2302     | 10.41    | 0.3400 | 16.00                  | 1.686      | 0.7875     | 31      | -3.31            | 022.99 | 0    |
| 022          | Copper (ppm)          | 2292     | 12.00    | 0.0000 | 16.00                  | 1.686      | 0.7875     | 31      | -2.37            | 022.99 | 0    |
| 022          | Copper (ppm)          | 0870     | 12.11    | 0.2317 | 16.00                  | 1.686      | 0.7875     | 31      | -2.31            | 022.43 | 0    |
| 022          | Copper (ppm)          | 0033     | 14.60    | 1.400  | 16.00                  | 1.686      | 0.7875     | 31      | -0.83            | 022.53 | 0    |
| 022          | Copper (ppm)          | 0508     | 14.90    | 1.309  | 16.00                  | 1.686      | 0.7875     | 31      | -0.65            | 022.43 | 0    |
| 022          | Copper (ppm)          | 0511     | 15.00    | 0.0000 | 16.00                  | 1.686      | 0.7875     | 31      | -0.59            | 022.43 | 0    |
| 022          | Copper (ppm)          | 2113     | 15.00    | 0.0000 | 16.00                  | 1.686      | 0.7875     | 31      | -0.59            | 022.52 | 0    |
| 022          | Copper (ppm)          | 0017     | 15.04    | 1.786  | 16.00                  | 1.686      | 0.7875     | 31      | -0.57            | 022.43 | 0    |
| 022          | Copper (ppm)          | 0413     | 15.05    | 0.4100 | 16.00                  | 1.686      | 0.7875     | 31      | -0.57            | 022.53 | 0    |
| 022          | Copper (ppm)          | 0098     | 15.42    | 1.090  | 16.00                  | 1.686      | 0.7875     | 31      | -0.35            | 022.53 | 0    |
| 022          | Copper (ppm)          | 0407     | 15.48    | 0.3404 | 16.00                  | 1.686      | 0.7875     | 31      | -0.31            | 022.53 | 0    |
| 022          | Copper (ppm)          | 0227     | 15.50    | 1.000  | 16.00                  | 1.686      | 0.7875     | 31      | -0.30            | 022.43 | 0    |
| 022          | Copper (ppm)          | 0278     | 15.55    | 1.500  | 16.00                  | 1.686      | 0.7875     | 31      | -0.27            | 022.42 | 0    |
| 022          | Copper (ppm)          | 2404     | 15.59    | 0.4000 | 16.00                  | 1.686      | 0.7875     | 31      | -0.24            | 022.43 | 0    |
| 022          | Copper (ppm)          | 0186     | 15.70    | 0.6000 | 16.00                  | 1.686      | 0.7875     | 31      | -0.18            | 022.52 | 0    |
| 022          | Copper (ppm)          | 0918     | 15.97    | 0.7700 | 16.00                  | 1.686      | 0.7875     | 31      | -0.02            | 022.43 | 0    |
| 022          | Copper (ppm)          | 0510     | 16.00    | 0.0000 | 16.00                  | 1.686      | 0.7875     | 31      | 0.00             | 022.43 | 0    |

| Method Group | Analyte Group (Units)      | Lab Code | Lab Data |        | Robust* Analyte Values |            |            |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|----------------------------|----------|----------|--------|------------------------|------------|------------|---------|------------------|-------------|------|
|              |                            |          | Value    | Range  | Rob. Mean              | Horwitz SD | Rob. R-bar | # Tests |                  |             |      |
| 022          | Copper (ppm)               | 0553     | 16.00    | 0.4000 | 16.00                  | 1.686      | 0.7875     | 31      | 0.00             | 022.53      | 0    |
| 022          | Copper (ppm)               | 0407     | 16.01    | 1.181  | 16.00                  | 1.686      | 0.7875     | 31      | 0.00             | 022.43      | 0    |
| 022          | Copper (ppm)               | 0504     | 16.45    | 0.9000 | 16.00                  | 1.686      | 0.7875     | 31      | 0.27             | 022.53      | 0    |
| 022          | Copper (ppm)               | 0563     | 16.47    | 0.9709 | 16.00                  | 1.686      | 0.7875     | 31      | 0.28             | 022.31      | 0    |
| 022          | Copper (ppm)               | 2404     | 16.59    | 0.5200 | 16.00                  | 1.686      | 0.7875     | 31      | 0.35             | 022.53      | 0    |
| 022          | Copper (ppm)               | 0021     | 16.75    | 1.100  | 16.00                  | 1.686      | 0.7875     | 31      | 0.45             | 022.53      | 0    |
| 022          | Copper (ppm)               | 0407     | 16.93    | 1.737  | 16.00                  | 1.686      | 0.7875     | 31      | 0.56             | 022.41      | 0    |
| 022          | Copper (ppm)               | 0010     | 17.20    | 0.6000 | 16.00                  | 1.686      | 0.7875     | 31      | 0.71             | 022.43      | 0    |
| 022          | Copper (ppm)               | 0208     | 17.21    | 0.0400 | 16.00                  | 1.686      | 0.7875     | 31      | 0.72             | 022.41      | 0    |
| 022          | Copper (ppm)               | 2141     | 17.41    | 0.1800 | 16.00                  | 1.686      | 0.7875     | 31      | 0.84             | 022.43      | 0    |
| 022          | Copper (ppm)               | 2445     | 18.15    | 0.7300 | 16.00                  | 1.686      | 0.7875     | 31      | 1.27             | 022.43      | 0    |
| 022          | Copper (ppm)               | 0964     | 18.50    | 1.000  | 16.00                  | 1.686      | 0.7875     | 31      | 1.48             | 022.43      | 0    |
| 022          | Copper (ppm)               | 2468     | 19.18    | 0.6700 | 16.00                  | 1.686      | 0.7875     | 31      | 1.88             | 022.42      | 0    |
| 022          | Copper (ppm)               | 0529     | 22.05    | 0.5000 | 16.00                  | 1.686      | 0.7875     | 31      | 3.59             | 022.31      | 0    |
| 022          | Copper (ppm)               | 0009     | < 2.5    |        | 16.00                  | 1.686      | 0.7875     | 31      |                  | 022.52      | 5    |
| 022          | Copper (ppm)               | 0021     | < 25     |        | 16.00                  | 1.686      | 0.7875     | 31      |                  | 022.43      | 5    |
| 023          | Fluorine (ppm)             | 0227     | 165.0    | 10.00  |                        |            |            | 1       |                  | 023.01      | 0    |
| 024          | Iodine (ppm)               | 0208     | 4.935    | 1.070  |                        |            |            | 2       |                  | 024.99      | 0    |
| 024          | Iodine (ppm)               | 0186     | 4.990    | 0.3000 |                        |            |            | 2       |                  | 024.52      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0723     | 2.698    | 0.0000 | 3.541                  | 0.4683     | 0.1652     | 21      | -1.80            | 034.43      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0964     | 3.040    | 0.1400 | 3.541                  | 0.4683     | 0.1652     | 21      | -1.07            | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0563     | 3.062    | 0.2979 | 3.541                  | 0.4683     | 0.1652     | 21      | -1.02            | 034.04      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0413     | 3.270    | 0.0800 | 3.541                  | 0.4683     | 0.1652     | 21      | -0.58            | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 2468     | 3.305    | 0.1900 | 3.541                  | 0.4683     | 0.1652     | 21      | -0.50            | 034.52      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0021     | 3.370    | 0.1200 | 3.541                  | 0.4683     | 0.1652     | 21      | -0.37            | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0870     | 3.370    | 0.0950 | 3.541                  | 0.4683     | 0.1652     | 21      | -0.36            | 034.43      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 2433     | 3.386    | 0.0650 | 3.541                  | 0.4683     | 0.1652     | 21      | -0.33            | 034.42      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0033     | 3.435    | 0.2500 | 3.541                  | 0.4683     | 0.1652     | 21      | -0.23            | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 2404     | 3.465    | 0.0500 | 3.541                  | 0.4683     | 0.1652     | 21      | -0.16            | 034.43      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0278     | 3.535    | 0.0900 | 3.541                  | 0.4683     | 0.1652     | 21      | -0.01            | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0553     | 3.535    | 0.1100 | 3.541                  | 0.4683     | 0.1652     | 21      | -0.01            | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0186     | 3.570    | 0.0800 | 3.541                  | 0.4683     | 0.1652     | 21      | 0.06             | 034.52      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0208     | 3.655    | 0.5100 | 3.541                  | 0.4683     | 0.1652     | 21      | 0.24             | 034.52      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0918     | 3.665    | 0.1700 | 3.541                  | 0.4683     | 0.1652     | 21      | 0.26             | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 2404     | 3.701    | 0.0390 | 3.541                  | 0.4683     | 0.1652     | 21      | 0.34             | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0504     | 3.705    | 0.1900 | 3.541                  | 0.4683     | 0.1652     | 21      | 0.35             | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0098     | 4.041    | 0.0960 | 3.541                  | 0.4683     | 0.1652     | 21      | 1.07             | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0407     | 4.055    | 0.3954 | 3.541                  | 0.4683     | 0.1652     | 21      | 1.10             | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0010     | 4.115    | 0.2300 | 3.541                  | 0.4683     | 0.1652     | 21      | 1.23             | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 0009     | 4.261    | 0.3370 | 3.541                  | 0.4683     | 0.1652     | 21      | 1.54             | 034.53      | 0    |
| 034          | Selenium, Total (Se) (ppm) | 2141     | < 5      |        | 3.541                  | 0.4683     | 0.1652     | 21      |                  | 034.43      | 5    |
| 034          | Selenium, Total (Se) (ppm) | 0021     | < 22     |        | 3.541                  | 0.4683     | 0.1652     | 21      |                  | 034.43      | 5    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Robust* Analyte Values |            |            |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|------------------------|------------|------------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob. Mean              | Horwitz SD | Rob. R-bar | # Tests |                  |             |      |
| 036          | Sulfur (%)            | 2292     | 0.4625   | 0.0010 | 0.5169                 | 0.0228     | 0.0144     | 18      | -2.38            | 036.99      | 0    |
| 036          | Sulfur (%)            | 2141     | 0.4650   | 0.0083 | 0.5169                 | 0.0228     | 0.0144     | 18      | -2.28            | 036.43      | 0    |
| 036          | Sulfur (%)            | 0504     | 0.4860   | 0.0220 | 0.5169                 | 0.0228     | 0.0144     | 18      | -1.35            | 036.53      | 0    |
| 036          | Sulfur (%)            | 0407     | 0.4945   | 0.0586 | 0.5169                 | 0.0228     | 0.0144     | 18      | -0.98            | 036.42      | 0    |
| 036          | Sulfur (%)            | 0186     | 0.4973   | 0.0138 | 0.5169                 | 0.0228     | 0.0144     | 18      | -0.86            | 036.52      | 0    |
| 036          | Sulfur (%)            | 0553     | 0.5010   | 0.0280 | 0.5169                 | 0.0228     | 0.0144     | 18      | -0.70            | 036.53      | 0    |
| 036          | Sulfur (%)            | 0033     | 0.5035   | 0.0070 | 0.5169                 | 0.0228     | 0.0144     | 18      | -0.59            | 036.43      | 0    |
| 036          | Sulfur (%)            | 0508     | 0.5122   | 0.0079 | 0.5169                 | 0.0228     | 0.0144     | 18      | -0.21            | 036.43      | 0    |
| 036          | Sulfur (%)            | 0227     | 0.5200   | 0.0000 | 0.5169                 | 0.0228     | 0.0144     | 18      | 0.13             | 036.53      | 0    |
| 036          | Sulfur (%)            | 0870     | 0.5241   | 0.0071 | 0.5169                 | 0.0228     | 0.0144     | 18      | 0.31             | 036.42      | 0    |
| 036          | Sulfur (%)            | 0021     | 0.5330   | 0.0080 | 0.5169                 | 0.0228     | 0.0144     | 18      | 0.70             | 036.43      | 0    |
| 036          | Sulfur (%)            | 0964     | 0.5334   | 0.0021 | 0.5169                 | 0.0228     | 0.0144     | 18      | 0.72             | 036.43      | 0    |
| 036          | Sulfur (%)            | 0407     | 0.5334   | 0.0134 | 0.5169                 | 0.0228     | 0.0144     | 18      | 0.72             | 036.43      | 0    |
| 036          | Sulfur (%)            | 0510     | 0.5350   | 0.0100 | 0.5169                 | 0.0228     | 0.0144     | 18      | 0.79             | 036.43      | 0    |
| 036          | Sulfur (%)            | 2468     | 0.5390   | 0.0440 | 0.5169                 | 0.0228     | 0.0144     | 18      | 0.97             | 036.52      | 0    |
| 036          | Sulfur (%)            | 0918     | 0.5430   | 0.0500 | 0.5169                 | 0.0228     | 0.0144     | 18      | 1.14             | 036.43      | 0    |
| 036          | Sulfur (%)            | 0278     | 0.5450   | 0.0100 | 0.5169                 | 0.0228     | 0.0144     | 18      | 1.23             | 036.42      | 0    |
| 036          | Sulfur (%)            | 0098     | 0.5550   | 0.0060 | 0.5169                 | 0.0228     | 0.0144     | 18      | 1.67             | 036.43      | 0    |
| 038          | Molybdenum (ppm)      | 0870     | 3.911    | 0.1027 | 6.917                  | 0.8271     | 0.3319     | 23      | -3.64            | 038.43      | 0    |
| 038          | Molybdenum (ppm)      | 0407     | 6.172    | 0.3420 | 6.917                  | 0.8271     | 0.3319     | 23      | -0.90            | 038.41      | 0    |
| 038          | Molybdenum (ppm)      | 0407     | 6.334    | 0.1577 | 6.917                  | 0.8271     | 0.3319     | 23      | -0.71            | 038.43      | 0    |
| 038          | Molybdenum (ppm)      | 0186     | 6.585    | 0.0300 | 6.917                  | 0.8271     | 0.3319     | 23      | -0.40            | 038.52      | 0    |
| 038          | Molybdenum (ppm)      | 2141     | 6.602    | 0.0830 | 6.917                  | 0.8271     | 0.3319     | 23      | -0.38            | 038.43      | 0    |
| 038          | Molybdenum (ppm)      | 0278     | 6.660    | 0.4800 | 6.917                  | 0.8271     | 0.3319     | 23      | -0.31            | 038.42      | 0    |
| 038          | Molybdenum (ppm)      | 0407     | 6.666    | 0.4960 | 6.917                  | 0.8271     | 0.3319     | 23      | -0.30            | 038.53      | 0    |
| 038          | Molybdenum (ppm)      | 0098     | 6.694    | 0.1220 | 6.917                  | 0.8271     | 0.3319     | 23      | -0.27            | 038.53      | 0    |
| 038          | Molybdenum (ppm)      | 2468     | 6.750    | 0.1000 | 6.917                  | 0.8271     | 0.3319     | 23      | -0.20            | 038.52      | 0    |
| 038          | Molybdenum (ppm)      | 0510     | 6.800    | 0.2000 | 6.917                  | 0.8271     | 0.3319     | 23      | -0.14            | 038.43      | 0    |
| 038          | Molybdenum (ppm)      | 2113     | 6.850    | 0.5000 | 6.917                  | 0.8271     | 0.3319     | 23      | -0.08            | 038.52      | 0    |
| 038          | Molybdenum (ppm)      | 0413     | 6.910    | 0.4000 | 6.917                  | 0.8271     | 0.3319     | 23      | -0.01            | 038.53      | 0    |
| 038          | Molybdenum (ppm)      | 0042     | 6.915    | 0.0500 | 6.917                  | 0.8271     | 0.3319     | 23      | 0.00             | 038.42      | 0    |
| 038          | Molybdenum (ppm)      | 0553     | 7.045    | 0.6300 | 6.917                  | 0.8271     | 0.3319     | 23      | 0.15             | 038.53      | 0    |
| 038          | Molybdenum (ppm)      | 0964     | 7.085    | 0.3500 | 6.917                  | 0.8271     | 0.3319     | 23      | 0.20             | 038.43      | 0    |
| 038          | Molybdenum (ppm)      | 0006     | 7.130    | 0.2600 | 6.917                  | 0.8271     | 0.3319     | 23      | 0.26             | 038.53      | 0    |
| 038          | Molybdenum (ppm)      | 0010     | 7.150    | 0.5000 | 6.917                  | 0.8271     | 0.3319     | 23      | 0.28             | 038.53      | 0    |
| 038          | Molybdenum (ppm)      | 0918     | 7.210    | 0.5200 | 6.917                  | 0.8271     | 0.3319     | 23      | 0.35             | 038.53      | 0    |
| 038          | Molybdenum (ppm)      | 0021     | 7.250    | 0.7600 | 6.917                  | 0.8271     | 0.3319     | 23      | 0.40             | 038.43      | 0    |
| 038          | Molybdenum (ppm)      | 0033     | 7.420    | 0.0400 | 6.917                  | 0.8271     | 0.3319     | 23      | 0.61             | 038.53      | 0    |
| 038          | Molybdenum (ppm)      | 0508     | 7.423    | 0.6604 | 6.917                  | 0.8271     | 0.3319     | 23      | 0.61             | 038.43      | 0    |
| 038          | Molybdenum (ppm)      | 0504     | 7.520    | 0.2200 | 6.917                  | 0.8271     | 0.3319     | 23      | 0.73             | 038.53      | 0    |
| 038          | Molybdenum (ppm)      | 0021     | 7.875    | 0.6700 | 6.917                  | 0.8271     | 0.3319     | 23      | 1.16             | 038.53      | 0    |
| 038          | Molybdenum (ppm)      | 0511     | 7.000    | 2.000  | 6.917                  | 0.8271     | 0.3319     | 23      | 0.10             | 038.43      | 1    |

| Method Group | Analyte Group (Units)     | Lab Code | Lab Data |        | Robust* Analyte Values |            |            |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|---------------------------|----------|----------|--------|------------------------|------------|------------|---------|------------------|-------------|------|
|              |                           |          | Value    | Range  | Rob. Mean              | Horwitz SD | Rob. R-bar | # Tests |                  |             |      |
| 041          | Vanadium (ppm)            | 0870     | 4.815    | 0.2213 | 5.801                  | 0.7123     | 0.2620     | 11      | -1.39            | 041.43      | 0    |
| 041          | Vanadium (ppm)            | 0511     | 5.000    | 0.0000 | 5.801                  | 0.7123     | 0.2620     | 11      | -1.13            | 041.43      | 0    |
| 041          | Vanadium (ppm)            | 0098     | 5.434    | 0.4970 | 5.801                  | 0.7123     | 0.2620     | 11      | -0.52            | 041.53      | 0    |
| 041          | Vanadium (ppm)            | 0407     | 5.631    | 0.2297 | 5.801                  | 0.7123     | 0.2620     | 11      | -0.24            | 041.53      | 0    |
| 041          | Vanadium (ppm)            | 0413     | 5.730    | 0.0600 | 5.801                  | 0.7123     | 0.2620     | 11      | -0.10            | 041.53      | 0    |
| 041          | Vanadium (ppm)            | 0278     | 5.735    | 0.2500 | 5.801                  | 0.7123     | 0.2620     | 11      | -0.09            | 041.43      | 0    |
| 041          | Vanadium (ppm)            | 0553     | 5.880    | 0.3600 | 5.801                  | 0.7123     | 0.2620     | 11      | 0.11             | 041.53      | 0    |
| 041          | Vanadium (ppm)            | 2468     | 5.900    | 0.4000 | 5.801                  | 0.7123     | 0.2620     | 11      | 0.14             | 041.52      | 0    |
| 041          | Vanadium (ppm)            | 0021     | 6.100    | 0.1600 | 5.801                  | 0.7123     | 0.2620     | 11      | 0.42             | 041.43      | 0    |
| 041          | Vanadium (ppm)            | 0021     | 6.730    | 0.3600 | 5.801                  | 0.7123     | 0.2620     | 11      | 1.30             | 041.53      | 0    |
| 041          | Vanadium (ppm)            | 0563     | 6.983    | 0.0823 | 5.801                  | 0.7123     | 0.2620     | 11      | 1.66             | 041.34      | 0    |
| 041          | Vanadium (ppm)            | 0508     | < 100    |        | 5.801                  | 0.7123     | 0.2620     | 11      |                  | 041.43      | 5    |
| 516          | Arsenic, Total (As) (ppm) | 0563     | 20.72    | 0.1570 | 29.15                  | 2.807      | 0.9576     | 28      | -3.00            | 516.00      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0015     | 23.70    | 0.1890 | 29.15                  | 2.807      | 0.9576     | 28      | -1.94            | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0870     | 25.07    | 0.9839 | 29.15                  | 2.807      | 0.9576     | 28      | -1.45            | 516.43      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 2404     | 26.96    | 0.0600 | 29.15                  | 2.807      | 0.9576     | 28      | -0.78            | 516.43      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0511     | 27.00    | 2.000  | 29.15                  | 2.807      | 0.9576     | 28      | -0.77            | 516.43      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0186     | 27.50    | 0.2000 | 29.15                  | 2.807      | 0.9576     | 28      | -0.59            | 516.52      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0033     | 28.05    | 2.300  | 29.15                  | 2.807      | 0.9576     | 28      | -0.39            | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0413     | 28.23    | 0.0250 | 29.15                  | 2.807      | 0.9576     | 28      | -0.33            | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 2141     | 28.54    | 1.714  | 29.15                  | 2.807      | 0.9576     | 28      | -0.22            | 516.43      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0208     | 28.55    | 1.500  | 29.15                  | 2.807      | 0.9576     | 28      | -0.21            | 516.52      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0021     | 28.85    | 1.300  | 29.15                  | 2.807      | 0.9576     | 28      | -0.11            | 516.43      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0504     | 28.95    | 1.100  | 29.15                  | 2.807      | 0.9576     | 28      | -0.07            | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0723     | 28.96    | 0.0000 | 29.15                  | 2.807      | 0.9576     | 28      | -0.07            | 516.43      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 2468     | 29.10    | 0.6100 | 29.15                  | 2.807      | 0.9576     | 28      | -0.02            | 516.52      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 2445     | 29.22    | 0.0700 | 29.15                  | 2.807      | 0.9576     | 28      | 0.02             | 516.43      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0006     | 29.30    | 0.0000 | 29.15                  | 2.807      | 0.9576     | 28      | 0.05             | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0278     | 29.68    | 0.8100 | 29.15                  | 2.807      | 0.9576     | 28      | 0.19             | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0407     | 29.69    | 0.3863 | 29.15                  | 2.807      | 0.9576     | 28      | 0.19             | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 2404     | 29.81    | 0.1330 | 29.15                  | 2.807      | 0.9576     | 28      | 0.24             | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0098     | 29.95    | 1.900  | 29.15                  | 2.807      | 0.9576     | 28      | 0.29             | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0553     | 30.30    | 1.200  | 29.15                  | 2.807      | 0.9576     | 28      | 0.41             | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0964     | 30.45    | 2.500  | 29.15                  | 2.807      | 0.9576     | 28      | 0.46             | 516.43      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0021     | 30.55    | 0.5000 | 29.15                  | 2.807      | 0.9576     | 28      | 0.50             | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 2292     | 31.00    | 0.0000 | 29.15                  | 2.807      | 0.9576     | 28      | 0.66             | 516.99      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0918     | 31.26    | 1.760  | 29.15                  | 2.807      | 0.9576     | 28      | 0.75             | 516.53      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 2113     | 31.50    | 1.000  | 29.15                  | 2.807      | 0.9576     | 28      | 0.84             | 516.52      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 2322     | 31.76    | 0.6690 | 29.15                  | 2.807      | 0.9576     | 28      | 0.93             | 516.43      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0042     | 32.95    | 1.300  | 29.15                  | 2.807      | 0.9576     | 28      | 1.35             | 516.42      | 0    |
| 516          | Arsenic, Total (As) (ppm) | 0010     | 33.45    | 4.900  | 29.15                  | 2.807      | 0.9576     | 28      | 1.53             | 516.53      | 1    |
| 516          | Arsenic, Total (As) (ppm) | 2302     | 0.0000   | 0.0000 | 29.15                  | 2.807      | 0.9576     | 28      |                  | 516.99      | 4    |

| Method Group | Analyte Group (Units)      | Lab Code | Lab Data |        | Robust* Analyte Values |            |            |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|----------------------------|----------|----------|--------|------------------------|------------|------------|---------|------------------|-------------|------|
|              |                            |          | Value    | Range  | Rob. Mean              | Horwitz SD | Rob. R-bar | # Tests |                  |             |      |
| 518          | Cadmium (ppm)              | 0563     | 2.314    | 0.0290 | 2.931                  | 0.3988     | 0.1395     | 30      | -1.55            | 518.31      | 0    |
| 518          | Cadmium (ppm)              | 2404     | 2.325    | 0.1500 | 2.931                  | 0.3988     | 0.1395     | 30      | -1.52            | 518.43      | 0    |
| 518          | Cadmium (ppm)              | 0407     | 2.385    | 0.0157 | 2.931                  | 0.3988     | 0.1395     | 30      | -1.37            | 518.41      | 0    |
| 518          | Cadmium (ppm)              | 0870     | 2.520    | 0.0245 | 2.931                  | 0.3988     | 0.1395     | 30      | -1.03            | 518.43      | 0    |
| 518          | Cadmium (ppm)              | 2433     | 2.596    | 0.0040 | 2.931                  | 0.3988     | 0.1395     | 30      | -0.84            | 518.42      | 0    |
| 518          | Cadmium (ppm)              | 0407     | 2.609    | 0.1780 | 2.931                  | 0.3988     | 0.1395     | 30      | -0.81            | 518.43      | 0    |
| 518          | Cadmium (ppm)              | 0508     | 2.655    | 0.1918 | 2.931                  | 0.3988     | 0.1395     | 30      | -0.69            | 518.43      | 0    |
| 518          | Cadmium (ppm)              | 0186     | 2.815    | 0.0500 | 2.931                  | 0.3988     | 0.1395     | 30      | -0.29            | 518.52      | 0    |
| 518          | Cadmium (ppm)              | 0033     | 2.820    | 0.1400 | 2.931                  | 0.3988     | 0.1395     | 30      | -0.28            | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 2468     | 2.825    | 0.0700 | 2.931                  | 0.3988     | 0.1395     | 30      | -0.27            | 518.52      | 0    |
| 518          | Cadmium (ppm)              | 0504     | 2.825    | 0.2100 | 2.931                  | 0.3988     | 0.1395     | 30      | -0.27            | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 0413     | 2.883    | 0.0370 | 2.931                  | 0.3988     | 0.1395     | 30      | -0.12            | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 2322     | 2.905    | 0.1500 | 2.931                  | 0.3988     | 0.1395     | 30      | -0.06            | 518.43      | 0    |
| 518          | Cadmium (ppm)              | 0098     | 2.915    | 0.0900 | 2.931                  | 0.3988     | 0.1395     | 30      | -0.04            | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 0918     | 2.940    | 0.1600 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.02             | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 0407     | 2.972    | 0.2695 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.10             | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 0278     | 3.020    | 0.2200 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.22             | 518.43      | 0    |
| 518          | Cadmium (ppm)              | 0021     | 3.040    | 0.2000 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.27             | 518.43      | 0    |
| 518          | Cadmium (ppm)              | 2113     | 3.050    | 0.1000 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.30             | 518.52      | 0    |
| 518          | Cadmium (ppm)              | 0021     | 3.050    | 0.3200 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.30             | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 0015     | 3.054    | 0.2590 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.31             | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 2404     | 3.092    | 0.2120 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.40             | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 0553     | 3.120    | 0.2400 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.47             | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 0006     | 3.145    | 0.0900 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.54             | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 0208     | 3.165    | 0.2300 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.59             | 518.52      | 0    |
| 518          | Cadmium (ppm)              | 0964     | 3.205    | 0.0100 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.69             | 518.43      | 0    |
| 518          | Cadmium (ppm)              | 0042     | 3.250    | 0.1000 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.80             | 518.42      | 0    |
| 518          | Cadmium (ppm)              | 0010     | 3.250    | 0.3000 | 2.931                  | 0.3988     | 0.1395     | 30      | 0.80             | 518.53      | 0    |
| 518          | Cadmium (ppm)              | 0723     | 3.635    | 0.0000 | 2.931                  | 0.3988     | 0.1395     | 30      | 1.77             | 518.43      | 0    |
| 518          | Cadmium (ppm)              | 2445     | 4.579    | 0.0160 | 2.931                  | 0.3988     | 0.1395     | 30      | 4.13             | 518.43      | 0    |
| 518          | Cadmium (ppm)              | 2302     | 0.0000   | 0.0000 | 2.931                  | 0.3988     | 0.1395     | 30      |                  | 518.99      | 4    |
| 518          | Cadmium (ppm)              | 2141     | < 5      |        | 2.931                  | 0.3988     | 0.1395     | 30      |                  | 518.43      | 5    |
| 520          | Chromium, Total (Cr) (ppm) | 0407     | 5.672    | 0.2964 | 9.227                  | 1.056      | 0.3845     | 26      | -3.37            | 520.41      | 0    |
| 520          | Chromium, Total (Cr) (ppm) | 2292     | 6.000    | 0.0000 | 9.227                  | 1.056      | 0.3845     | 26      | -3.05            | 520.99      | 0    |
| 520          | Chromium, Total (Cr) (ppm) | 0042     | 6.060    | 0.2400 | 9.227                  | 1.056      | 0.3845     | 26      | -3.00            | 520.42      | 0    |
| 520          | Chromium, Total (Cr) (ppm) | 0870     | 7.236    | 0.1370 | 9.227                  | 1.056      | 0.3845     | 26      | -1.89            | 520.43      | 0    |
| 520          | Chromium, Total (Cr) (ppm) | 0407     | 8.167    | 0.3623 | 9.227                  | 1.056      | 0.3845     | 26      | -1.00            | 520.43      | 0    |
| 520          | Chromium, Total (Cr) (ppm) | 0918     | 8.600    | 0.6600 | 9.227                  | 1.056      | 0.3845     | 26      | -0.59            | 520.53      | 0    |
| 520          | Chromium, Total (Cr) (ppm) | 0186     | 8.925    | 0.0900 | 9.227                  | 1.056      | 0.3845     | 26      | -0.29            | 520.52      | 0    |
| 520          | Chromium, Total (Cr) (ppm) | 2404     | 8.956    | 0.0050 | 9.227                  | 1.056      | 0.3845     | 26      | -0.26            | 520.53      | 0    |
| 520          | Chromium, Total (Cr) (ppm) | 2468     | 8.995    | 0.8900 | 9.227                  | 1.056      | 0.3845     | 26      | -0.22            | 520.52      | 0    |
| 520          | Chromium, Total (Cr) (ppm) | 0511     | 9.000    | 0.0000 | 9.227                  | 1.056      | 0.3845     | 26      | -0.22            | 520.43      | 0    |

| Method Group | Analyte Group (Units)             | Lab Code | Lab Data |        | Robust* Analyte Values |            |            |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------------------|----------|----------|--------|------------------------|------------|------------|---------|------------------|-------------|------|
|              |                                   |          | Value    | Range  | Rob. Mean              | Horwitz SD | Rob. R-bar | # Tests |                  |             |      |
| 520          | Chromium, Total (Cr) (ppm)        | 2113     | 9.050    | 0.9000 | 9.227                  | 1.056      | 0.3845     | 26      | -0.17            | 520.52      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0098     | 9.140    | 0.1600 | 9.227                  | 1.056      | 0.3845     | 26      | -0.08            | 520.53      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0010     | 9.150    | 0.5000 | 9.227                  | 1.056      | 0.3845     | 26      | -0.07            | 520.53      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0033     | 9.300    | 0.8000 | 9.227                  | 1.056      | 0.3845     | 26      | 0.07             | 520.53      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 2404     | 9.345    | 0.1500 | 9.227                  | 1.056      | 0.3845     | 26      | 0.11             | 520.43      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 2141     | 9.632    | 0.7970 | 9.227                  | 1.056      | 0.3845     | 26      | 0.38             | 520.43      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0407     | 9.692    | 0.1939 | 9.227                  | 1.056      | 0.3845     | 26      | 0.44             | 520.53      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0510     | 9.710    | 0.0400 | 9.227                  | 1.056      | 0.3845     | 26      | 0.46             | 520.43      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0413     | 9.718    | 0.3510 | 9.227                  | 1.056      | 0.3845     | 26      | 0.46             | 520.53      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0964     | 9.820    | 0.5600 | 9.227                  | 1.056      | 0.3845     | 26      | 0.56             | 520.43      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0553     | 9.925    | 1.350  | 9.227                  | 1.056      | 0.3845     | 26      | 0.66             | 520.53      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 2445     | 10.00    | 0.2560 | 9.227                  | 1.056      | 0.3845     | 26      | 0.73             | 520.43      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0015     | 10.27    | 0.1910 | 9.227                  | 1.056      | 0.3845     | 26      | 0.99             | 520.53      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 2322     | 10.30    | 0.1800 | 9.227                  | 1.056      | 0.3845     | 26      | 1.02             | 520.43      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0278     | 10.61    | 0.1100 | 9.227                  | 1.056      | 0.3845     | 26      | 1.30             | 520.43      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0021     | 11.95    | 0.5000 | 9.227                  | 1.056      | 0.3845     | 26      | 2.58             | 520.53      | 0    |
| 520          | Chromium, Total (Cr) (ppm)        | 0563     | < 5      |        | 9.227                  | 1.056      | 0.3845     | 26      |                  | 520.31      | 5    |
| 520          | Chromium, Total (Cr) (ppm)        | 0508     | < 10     |        | 9.227                  | 1.056      | 0.3845     | 26      |                  | 520.43      | 5    |
| 520          | Chromium, Total (Cr) (ppm)        | 0021     | < 22     |        | 9.227                  | 1.056      | 0.3845     | 26      |                  | 520.43      | 5    |
| 522          | Hexavalent Chromium (Cr VI) (ppm) | 2468     | 0.0205   | 0.0050 |                        |            |            | 1       |                  | 522.99      | 0    |
| 526          | Lead (ppm)                        | 2404     | 1.940    | 0.0200 | 2.395                  | 0.3359     | 0.1061     | 27      | -1.35            | 526.43      | 0    |
| 526          | Lead (ppm)                        | 0407     | 2.002    | 0.1686 | 2.395                  | 0.3359     | 0.1061     | 27      | -1.17            | 526.41      | 0    |
| 526          | Lead (ppm)                        | 0723     | 2.130    | 0.0000 | 2.395                  | 0.3359     | 0.1061     | 27      | -0.79            | 526.43      | 0    |
| 526          | Lead (ppm)                        | 0021     | 2.225    | 0.1100 | 2.395                  | 0.3359     | 0.1061     | 27      | -0.51            | 526.53      | 0    |
| 526          | Lead (ppm)                        | 0964     | 2.225    | 0.6300 | 2.395                  | 0.3359     | 0.1061     | 27      | -0.51            | 526.43      | 0    |
| 526          | Lead (ppm)                        | 2433     | 2.274    | 0.1960 | 2.395                  | 0.3359     | 0.1061     | 27      | -0.36            | 526.42      | 0    |
| 526          | Lead (ppm)                        | 0098     | 2.285    | 0.0100 | 2.395                  | 0.3359     | 0.1061     | 27      | -0.33            | 526.53      | 0    |
| 526          | Lead (ppm)                        | 0407     | 2.312    | 0.1306 | 2.395                  | 0.3359     | 0.1061     | 27      | -0.25            | 526.43      | 0    |
| 526          | Lead (ppm)                        | 0186     | 2.335    | 0.0300 | 2.395                  | 0.3359     | 0.1061     | 27      | -0.18            | 526.52      | 0    |
| 526          | Lead (ppm)                        | 0508     | 2.336    | 0.3192 | 2.395                  | 0.3359     | 0.1061     | 27      | -0.18            | 526.43      | 0    |
| 526          | Lead (ppm)                        | 2113     | 2.350    | 0.1000 | 2.395                  | 0.3359     | 0.1061     | 27      | -0.13            | 526.52      | 0    |
| 526          | Lead (ppm)                        | 0413     | 2.366    | 0.0780 | 2.395                  | 0.3359     | 0.1061     | 27      | -0.09            | 526.53      | 0    |
| 526          | Lead (ppm)                        | 2404     | 2.377    | 0.0020 | 2.395                  | 0.3359     | 0.1061     | 27      | -0.05            | 526.53      | 0    |
| 526          | Lead (ppm)                        | 0870     | 2.399    | 0.1774 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.01             | 526.43      | 0    |
| 526          | Lead (ppm)                        | 0504     | 2.430    | 0.0200 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.10             | 526.53      | 0    |
| 526          | Lead (ppm)                        | 2322     | 2.435    | 0.0100 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.12             | 526.43      | 0    |
| 526          | Lead (ppm)                        | 0563     | 2.438    | 0.0220 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.13             | 526.31      | 0    |
| 526          | Lead (ppm)                        | 0033     | 2.440    | 0.1600 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.13             | 526.53      | 0    |
| 526          | Lead (ppm)                        | 0010     | 2.450    | 0.1000 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.16             | 526.53      | 0    |
| 526          | Lead (ppm)                        | 0407     | 2.458    | 0.1021 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.19             | 526.53      | 0    |
| 526          | Lead (ppm)                        | 2468     | 2.480    | 0.1600 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.25             | 526.52      | 0    |
| 526          | Lead (ppm)                        | 0015     | 2.516    | 0.0550 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.36             | 526.53      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Robust* Analyte Values |            |            |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|------------------------|------------|------------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob. Mean              | Horwitz SD | Rob. R-bar | # Tests |                  |             |      |
| 526          | Lead (ppm)            | 0918     | 2.555    | 0.0300 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.48             | 526.53      | 0    |
| 526          | Lead (ppm)            | 0006     | 2.635    | 0.1500 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.71             | 526.53      | 0    |
| 526          | Lead (ppm)            | 0278     | 2.640    | 0.1200 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.73             | 526.43      | 0    |
| 526          | Lead (ppm)            | 0553     | 2.655    | 0.1100 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.77             | 526.53      | 0    |
| 526          | Lead (ppm)            | 0208     | 2.695    | 0.2300 | 2.395                  | 0.3359     | 0.1061     | 27      | 0.89             | 526.52      | 0    |
| 526          | Lead (ppm)            | 0511     | 7.500    | 1.000  | 2.395                  | 0.3359     | 0.1061     | 27      | 15.20            | 526.43      | 1    |
| 526          | Lead (ppm)            | 2302     | 0.0000   | 0.0000 | 2.395                  | 0.3359     | 0.1061     | 27      |                  | 526.99      | 4    |
| 526          | Lead (ppm)            | 2292     | 0.5000   | 1.000  | 2.395                  | 0.3359     | 0.1061     | 27      |                  | 526.99      | 4    |
| 526          | Lead (ppm)            | 2141     | < 5      |        | 2.395                  | 0.3359     | 0.1061     | 27      |                  | 526.43      | 5    |
| 526          | Lead (ppm)            | 0021     | < 6      |        | 2.395                  | 0.3359     | 0.1061     | 27      |                  | 526.43      | 5    |
| 529          | Mercury (ppb)         | 0015     | 0.8310   | 0.0160 | 1,461                  | 220.7      | 52.70      | 14      | -6.61            | 529.99      | 0    |
| 529          | Mercury (ppb)         | 0870     | 737.2    | 200.3  | 1,461                  | 220.7      | 52.70      | 14      | -3.28            | 529.99      | 0    |
| 529          | Mercury (ppb)         | 2445     | 1,313    | 17.95  | 1,461                  | 220.7      | 52.70      | 14      | -0.67            | 529.99      | 0    |
| 529          | Mercury (ppb)         | 0407     | 1,352    | 21.58  | 1,461                  | 220.7      | 52.70      | 14      | -0.49            | 529.99      | 0    |
| 529          | Mercury (ppb)         | 0918     | 1,360    | 42.00  | 1,461                  | 220.7      | 52.70      | 14      | -0.46            | 529.99      | 0    |
| 529          | Mercury (ppb)         | 0186     | 1,392    | 73.00  | 1,461                  | 220.7      | 52.70      | 14      | -0.31            | 529.99      | 0    |
| 529          | Mercury (ppb)         | 0033     | 1,502    | 44.00  | 1,461                  | 220.7      | 52.70      | 14      | 0.19             | 529.99      | 0    |
| 529          | Mercury (ppb)         | 0553     | 1,515    | 10.00  | 1,461                  | 220.7      | 52.70      | 14      | 0.25             | 529.99      | 0    |
| 529          | Mercury (ppb)         | 0042     | 1,524    | 7.000  | 1,461                  | 220.7      | 52.70      | 14      | 0.28             | 529.00      | 0    |
| 529          | Mercury (ppb)         | 2468     | 1,555    | 110.0  | 1,461                  | 220.7      | 52.70      | 14      | 0.43             | 529.99      | 0    |
| 529          | Mercury (ppb)         | 0098     | 1,590    | 140.0  | 1,461                  | 220.7      | 52.70      | 14      | 0.59             | 529.99      | 0    |
| 529          | Mercury (ppb)         | 0006     | 1,650    | 80.00  | 1,461                  | 220.7      | 52.70      | 14      | 0.86             | 529.99      | 0    |
| 529          | Mercury (ppb)         | 0208     | 1,680    | 20.00  | 1,461                  | 220.7      | 52.70      | 14      | 0.99             | 529.99      | 0    |
| 529          | Mercury (ppb)         | 0010     | 1,684    | 54.00  | 1,461                  | 220.7      | 52.70      | 14      | 1.01             | 529.99      | 0    |
| 529          | Mercury (ppb)         | 2302     | 0.0000   | 0.0000 | 1,461                  | 220.7      | 52.70      | 14      |                  | 529.99      | 4    |
| 539          | Nickel (ppm)          | 0042     | 2.835    | 0.4300 | 4.221                  | 0.5436     | 0.2549     | 20      | -2.55            | 539.42      | 0    |
| 539          | Nickel (ppm)          | 0407     | 3.452    | 0.1085 | 4.221                  | 0.5436     | 0.2549     | 20      | -1.41            | 539.41      | 0    |
| 539          | Nickel (ppm)          | 0010     | 3.520    | 0.2000 | 4.221                  | 0.5436     | 0.2549     | 20      | -1.29            | 539.53      | 0    |
| 539          | Nickel (ppm)          | 0098     | 3.550    | 0.5000 | 4.221                  | 0.5436     | 0.2549     | 20      | -1.23            | 539.53      | 0    |
| 539          | Nickel (ppm)          | 0870     | 3.648    | 0.2262 | 4.221                  | 0.5436     | 0.2549     | 20      | -1.05            | 539.43      | 0    |
| 539          | Nickel (ppm)          | 0407     | 3.724    | 0.0013 | 4.221                  | 0.5436     | 0.2549     | 20      | -0.91            | 539.43      | 0    |
| 539          | Nickel (ppm)          | 2433     | 3.969    | 0.2350 | 4.221                  | 0.5436     | 0.2549     | 20      | -0.46            | 539.42      | 0    |
| 539          | Nickel (ppm)          | 0413     | 4.045    | 0.2300 | 4.221                  | 0.5436     | 0.2549     | 20      | -0.32            | 539.53      | 0    |
| 539          | Nickel (ppm)          | 2113     | 4.100    | 0.4000 | 4.221                  | 0.5436     | 0.2549     | 20      | -0.22            | 539.52      | 0    |
| 539          | Nickel (ppm)          | 0021     | 4.300    | 0.1000 | 4.221                  | 0.5436     | 0.2549     | 20      | 0.15             | 539.43      | 0    |
| 539          | Nickel (ppm)          | 2468     | 4.335    | 0.5500 | 4.221                  | 0.5436     | 0.2549     | 20      | 0.21             | 539.52      | 0    |
| 539          | Nickel (ppm)          | 0407     | 4.338    | 0.0480 | 4.221                  | 0.5436     | 0.2549     | 20      | 0.22             | 539.53      | 0    |
| 539          | Nickel (ppm)          | 0553     | 4.455    | 0.3700 | 4.221                  | 0.5436     | 0.2549     | 20      | 0.43             | 539.53      | 0    |
| 539          | Nickel (ppm)          | 0278     | 4.485    | 0.0500 | 4.221                  | 0.5436     | 0.2549     | 20      | 0.49             | 539.43      | 0    |
| 539          | Nickel (ppm)          | 0504     | 4.525    | 0.2700 | 4.221                  | 0.5436     | 0.2549     | 20      | 0.56             | 539.53      | 0    |
| 539          | Nickel (ppm)          | 0021     | 4.600    | 0.0200 | 4.221                  | 0.5436     | 0.2549     | 20      | 0.70             | 539.53      | 0    |
| 539          | Nickel (ppm)          | 0918     | 4.720    | 0.2400 | 4.221                  | 0.5436     | 0.2549     | 20      | 0.92             | 539.53      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Robust* Analyte Values |            |            |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|------------------------|------------|------------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob. Mean              | Horwitz SD | Rob. R-bar | # Tests |                  |             |      |
| 539          | Nickel (ppm)          | 2292     | 5.000    | 0.0000 | 4.221                  | 0.5436     | 0.2549     | 20      | 1.43             | 539.99      | 0    |
| 539          | Nickel (ppm)          | 0964     | 5.350    | 0.8200 | 4.221                  | 0.5436     | 0.2549     | 20      | 2.08             | 539.43      | 0    |
| 539          | Nickel (ppm)          | 2141     | 5.778    | 0.3100 | 4.221                  | 0.5436     | 0.2549     | 20      | 2.86             | 539.43      | 0    |
| 539          | Nickel (ppm)          | 0508     | < 10     |        | 4.221                  | 0.5436     | 0.2549     | 20      |                  | 539.43      | 5    |

**Note 1:** Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or between -2 and -3 (warning) and Green = Z <= 2 and >= -2 (OK at 95%). Horwitz SD's assigned based on Rob Mean only.

**Note 2:** Data Not Used Flags: 1=Rejected for duplicates too far apart, 2=Rejected as extreme outlier, 5=Reporting limit (<), 4=Zeros submitted as values and 3=Statistical problem. Flag 0 indicates data used in calculations.

**Note 3:** \*Robust statistics not used if < 6 labs reporting, in the case of 4 or 5 labs reporting Means and SD's may be reported based on Raw Data with obvious blunders removed (Mandel h and k exclusions apply; Grey). A zero range is not included in robust R-bar calculation.