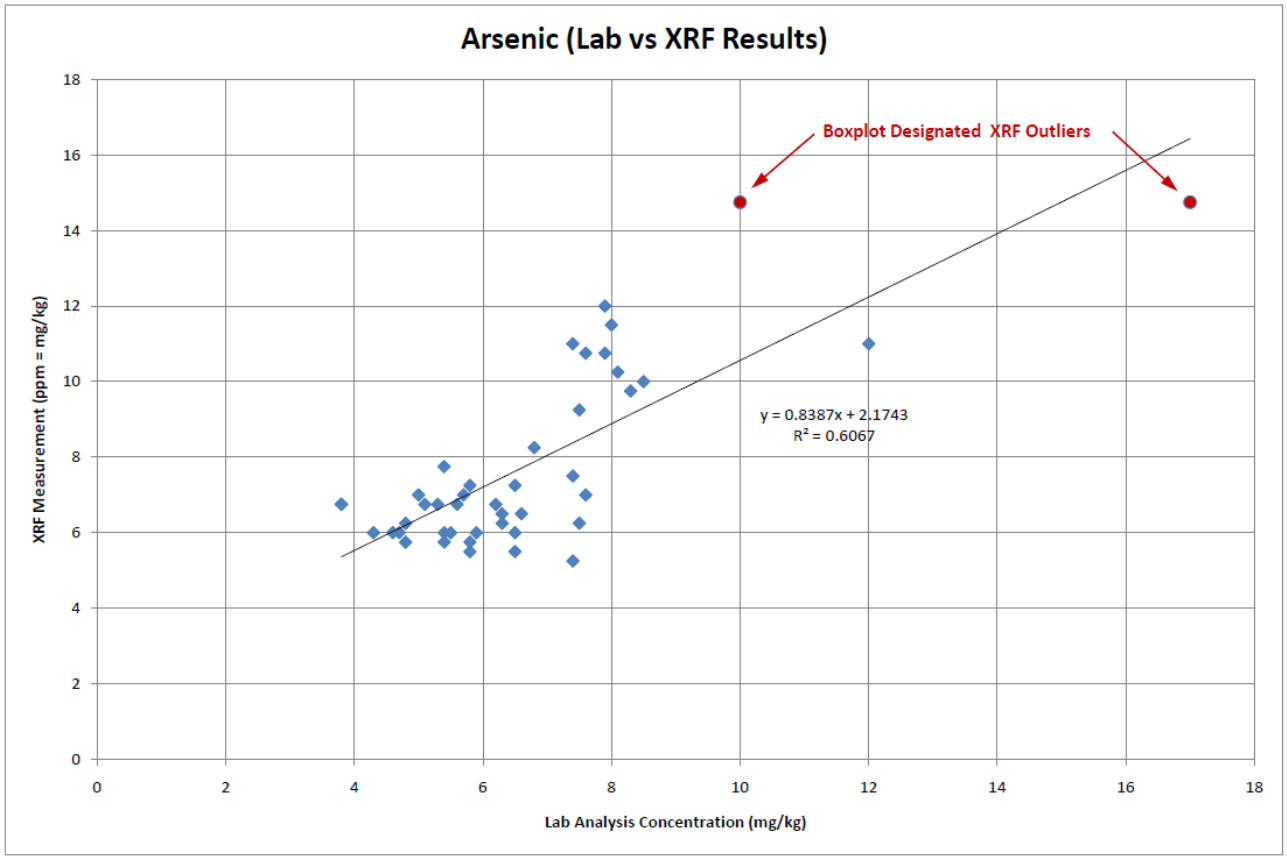
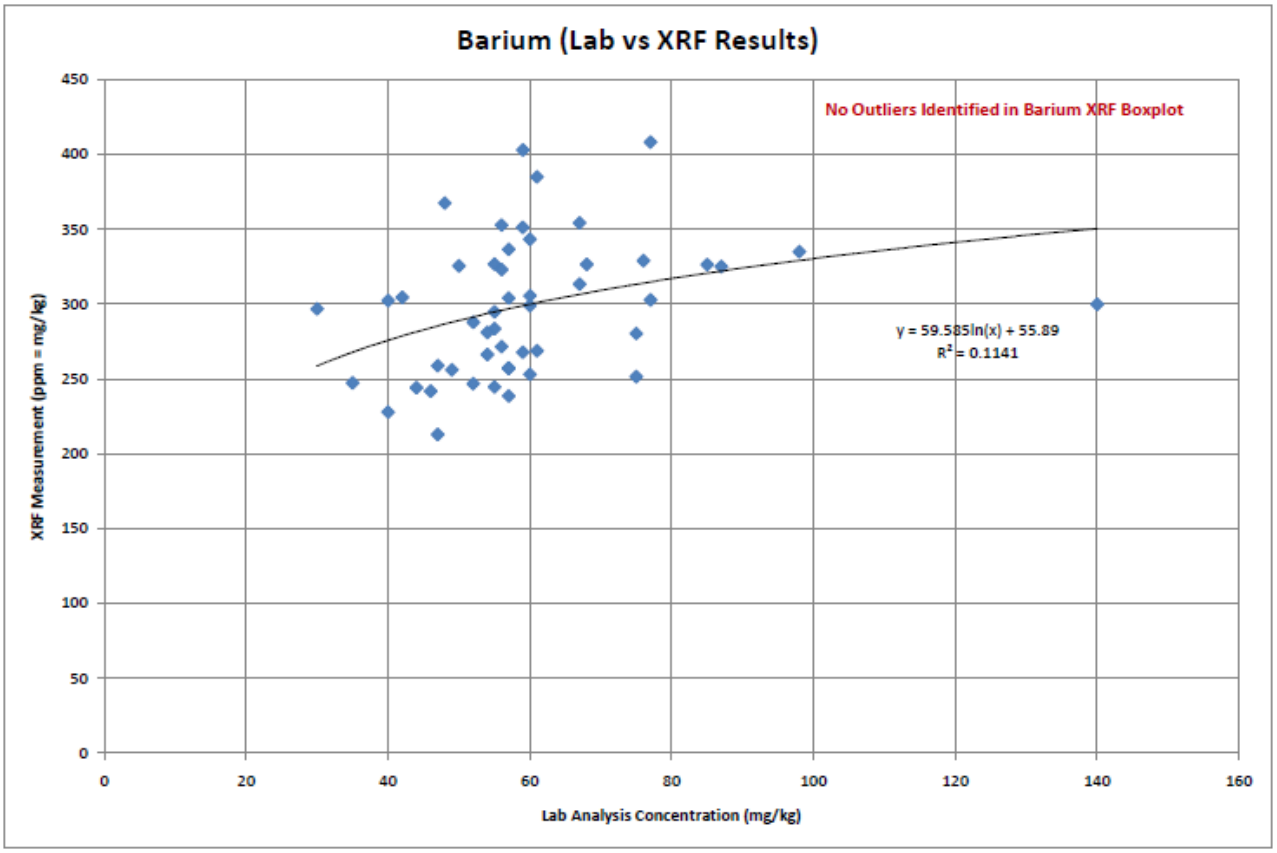
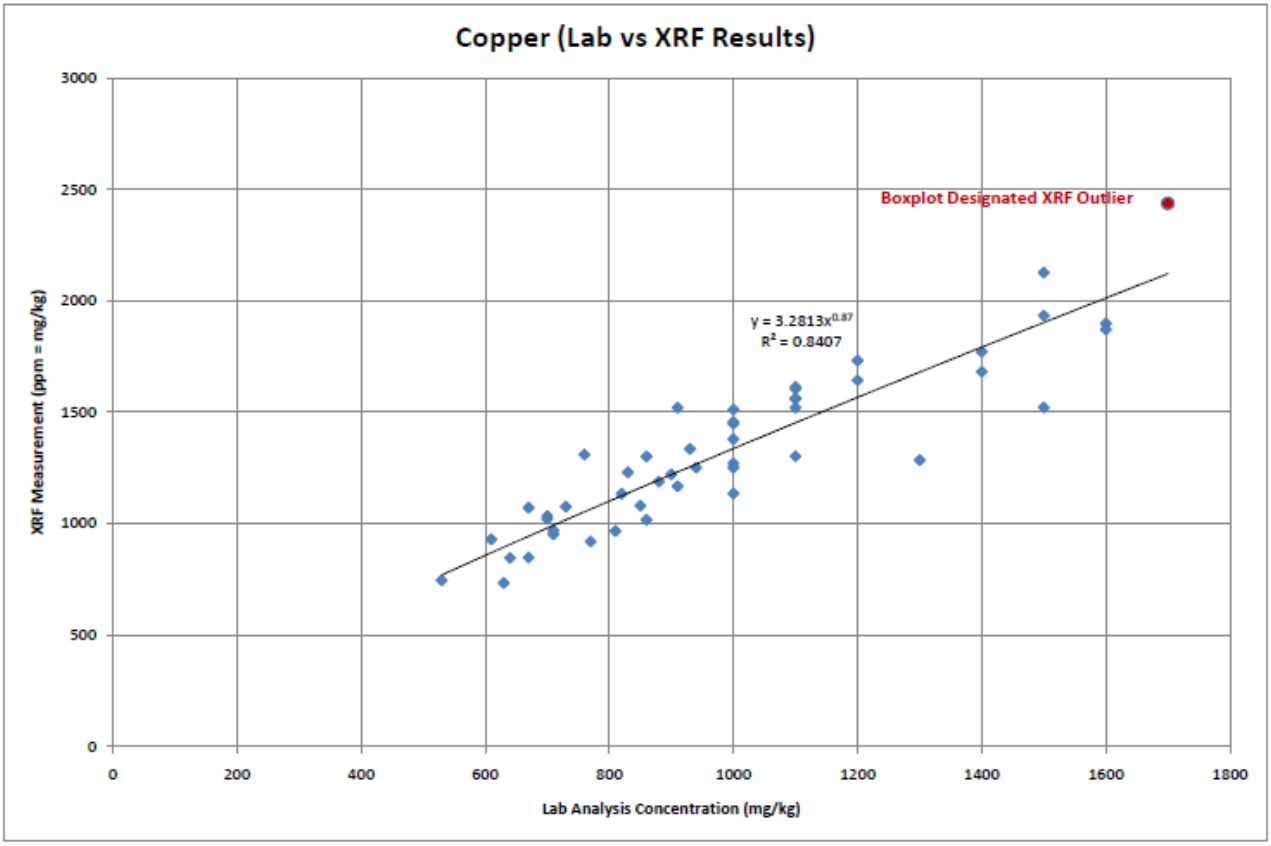
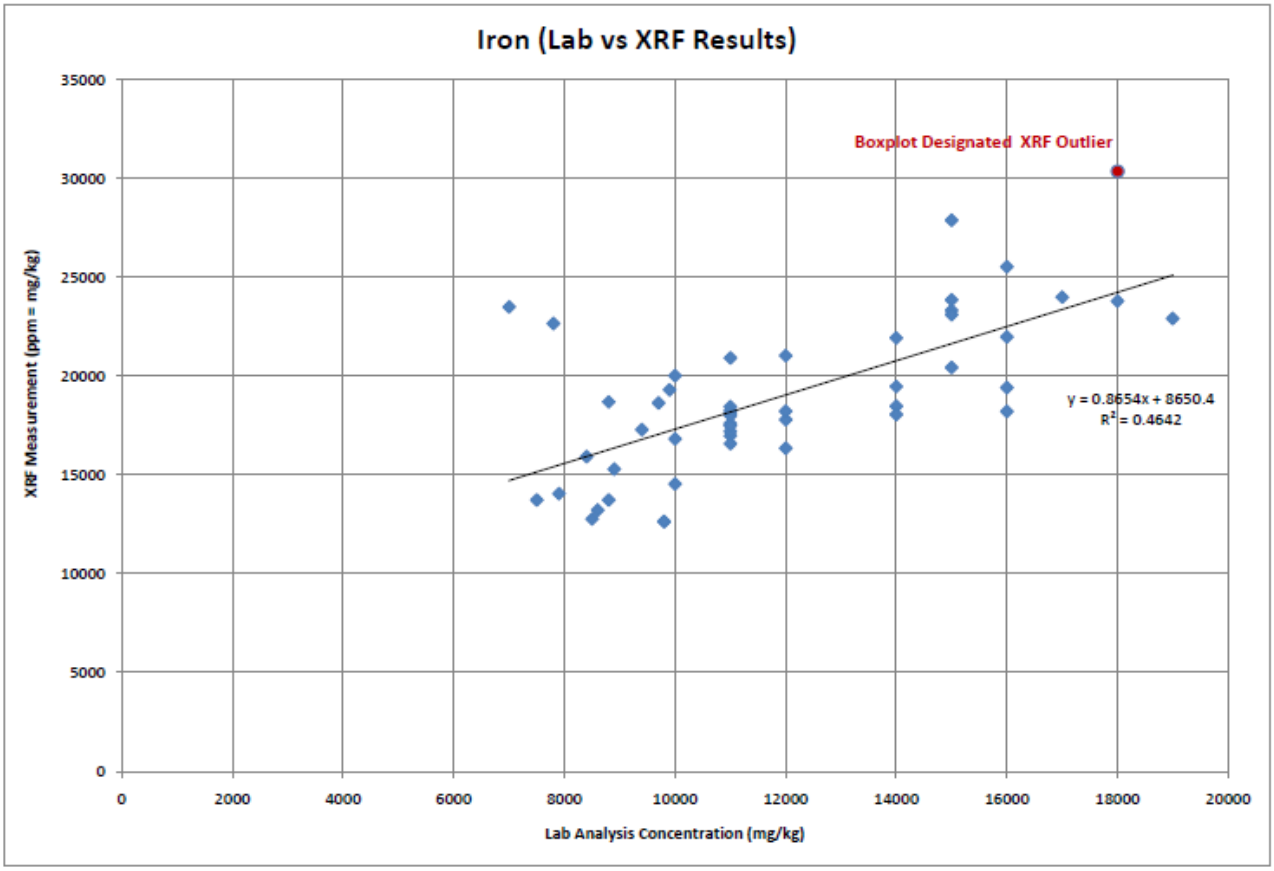
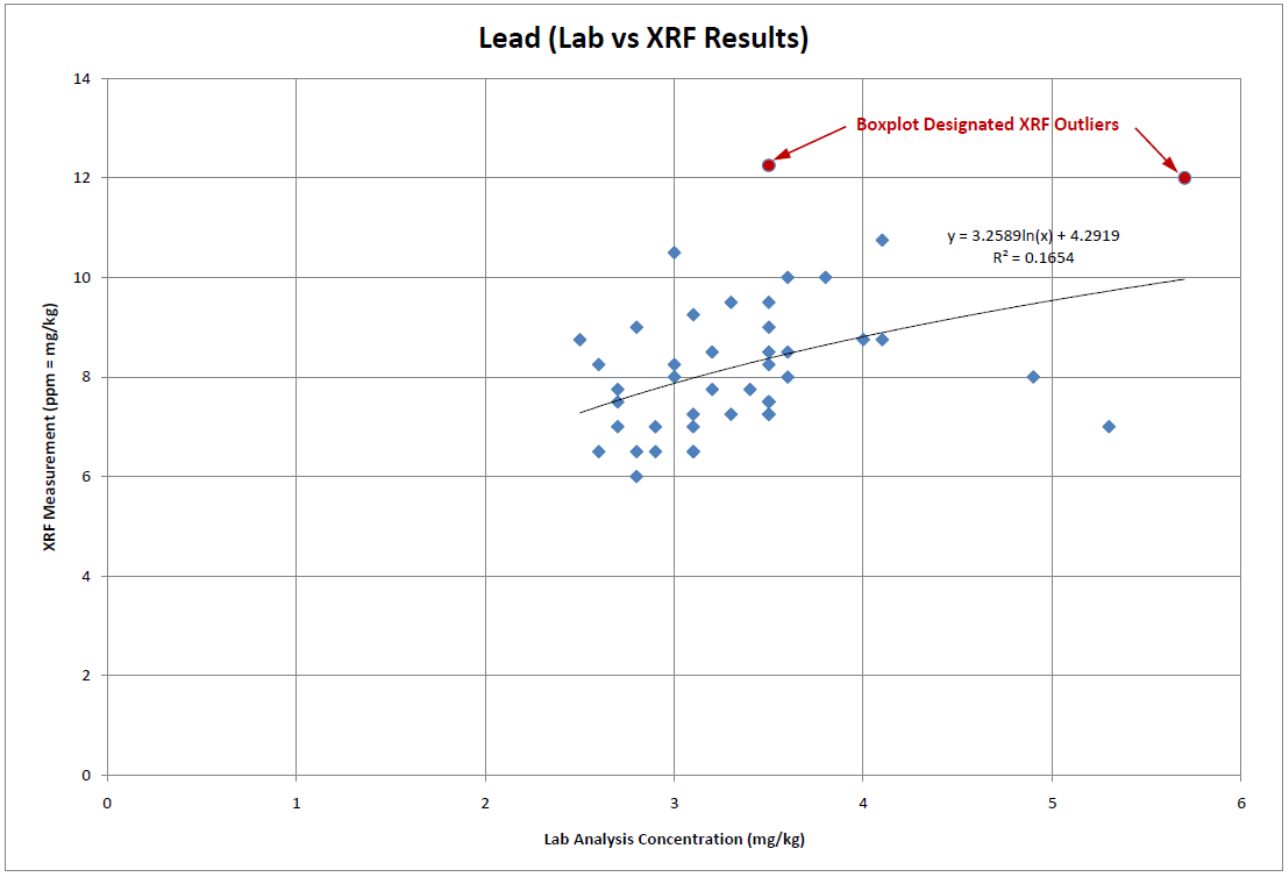
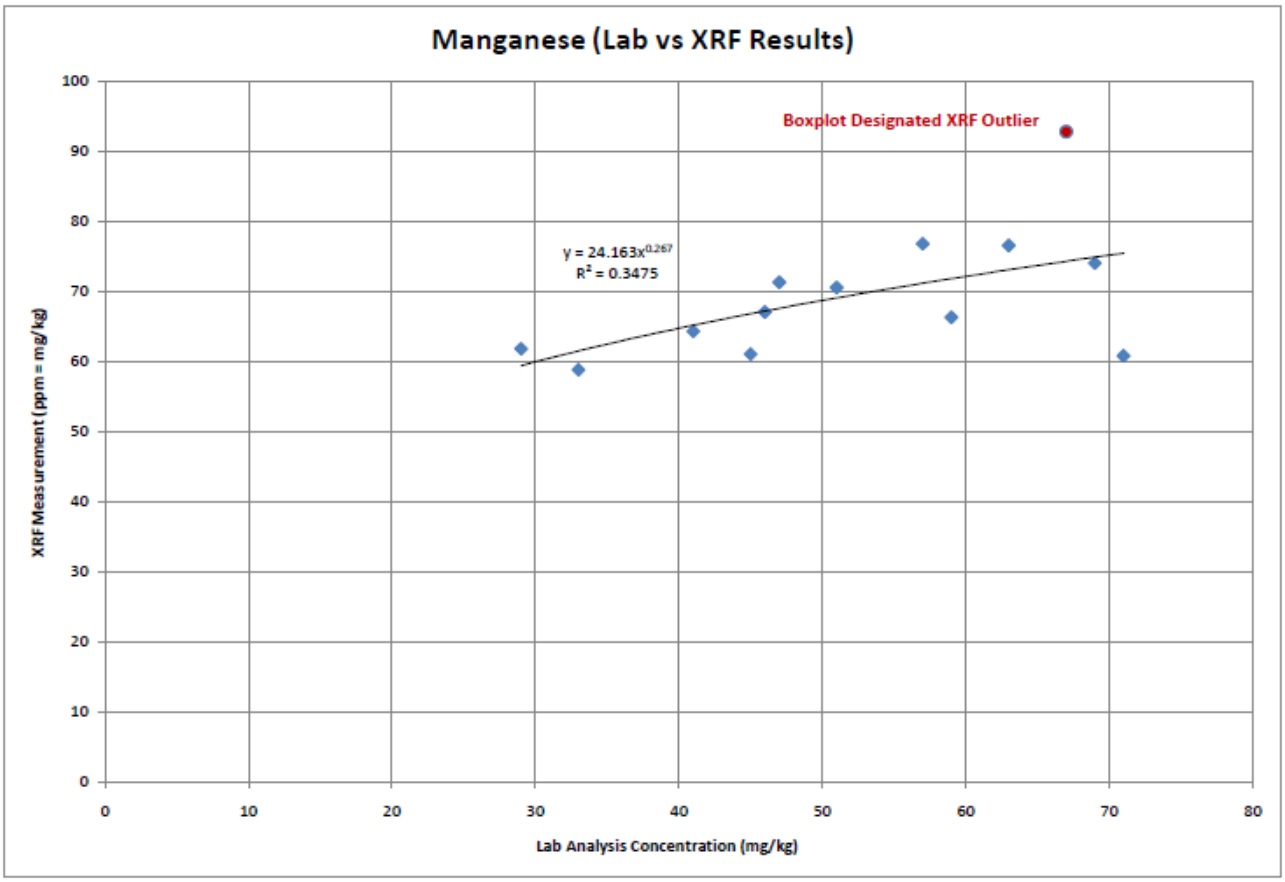

Arsenic (Lab vs XRF Results)
Boxplot Designated XRF Outliers
y = 0.8387x + 2.1743
R² = 0.6067
XRF Measurement (ppm = mg/kg)
Lab Analysis Concentration (mg/kg)
0
2
4
6
8
10
12
14
16
18

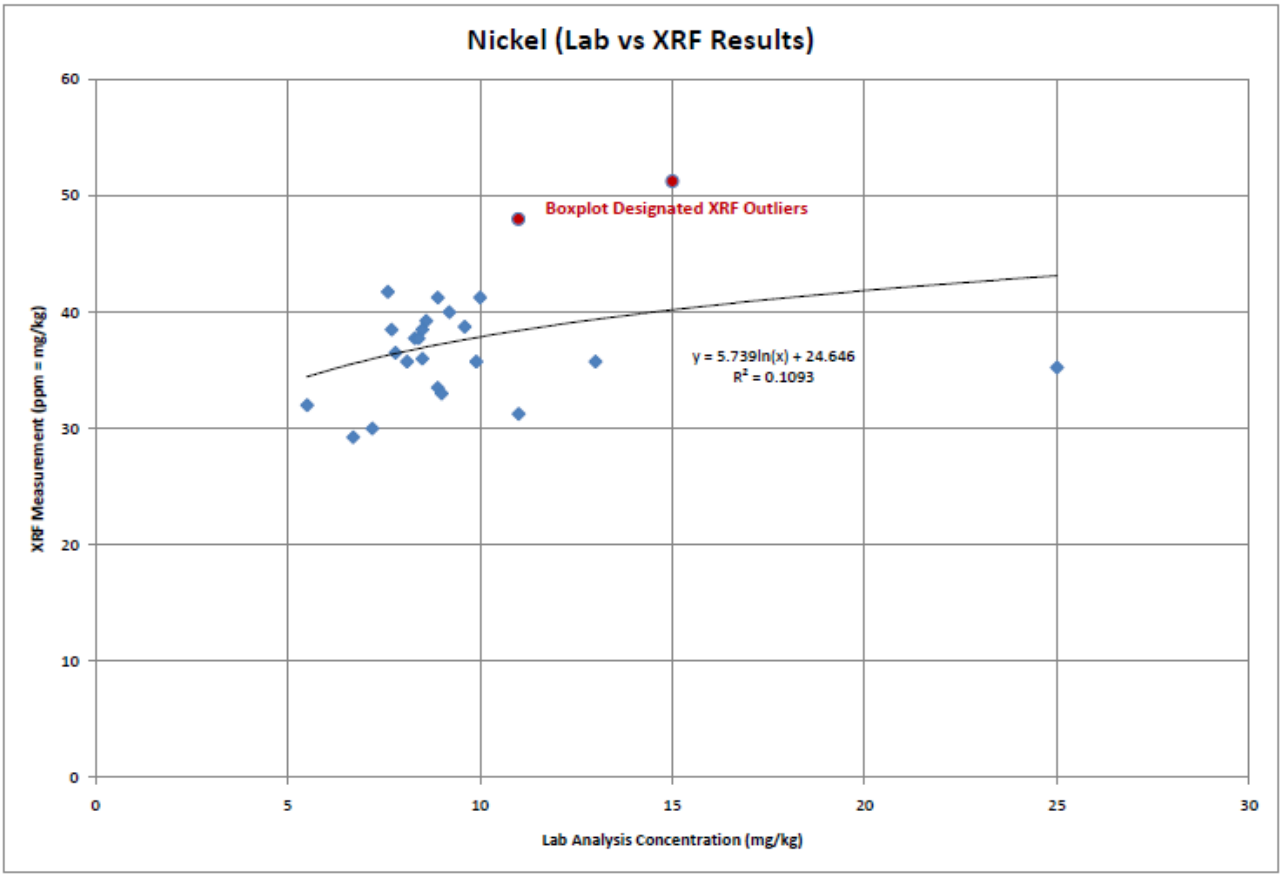

Barium (Lab vs XRF Results)
No Outliers Identified in Barium XRF Boxplot
y = 59.585ln(x) + 55.89
R² = 0.1141
XRF Measurement (ppm = mg/kg)
Lab Analysis Concentration (mg/kg)
0
50
100
150
200
250
300
350
400
450
0
20
40
60
80
100
120
140
160

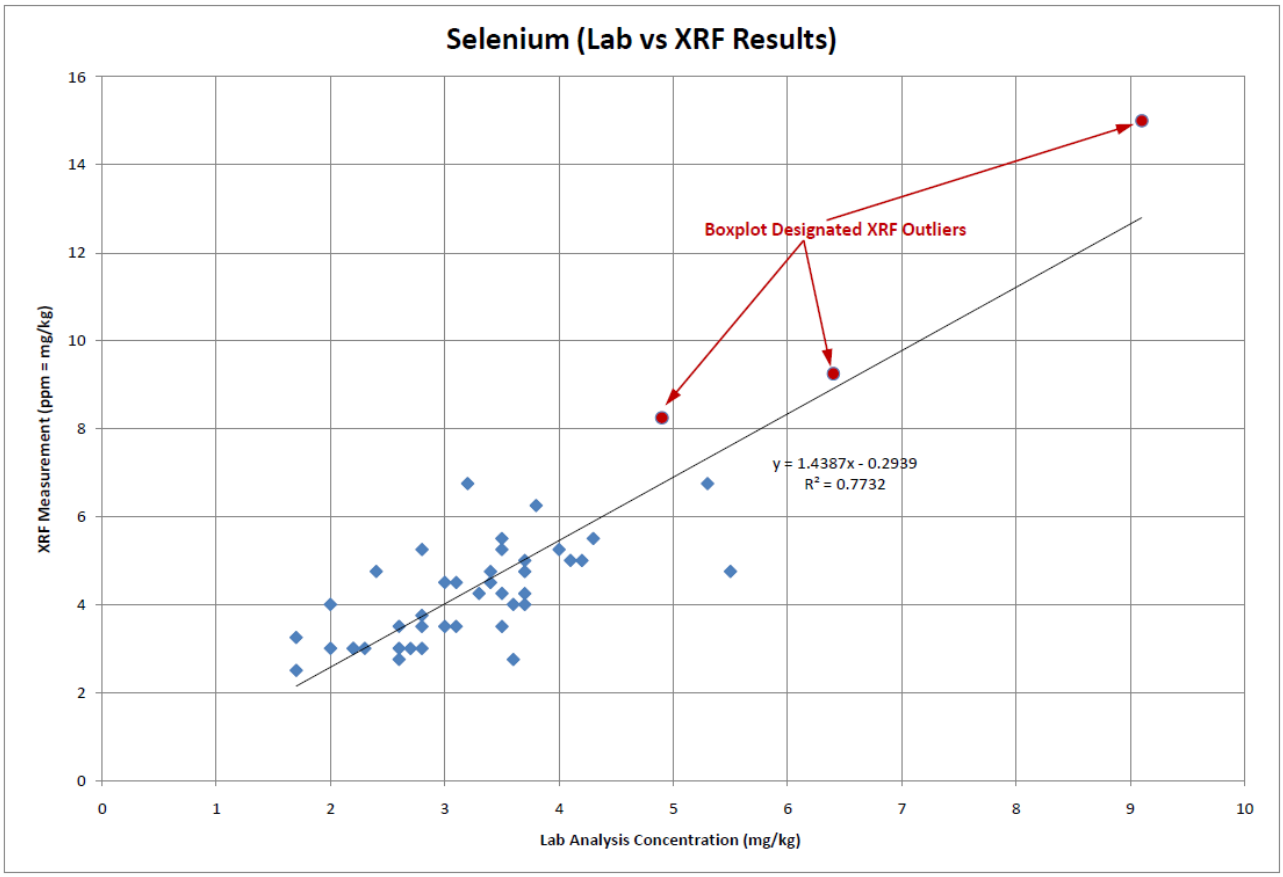

Copper (Lab vs XRF Results)
Boxplot Designated XRF Outlier
y = 3.2813x^0.87
R² = 0.8407
XRF Measurement (ppm = mg/kg)
Lab Analysis Concentration (mg/kg)
0
500
1000
1500
2000
2500
3000
0
200
400
600
800
1000
1200
1400
1600
1800

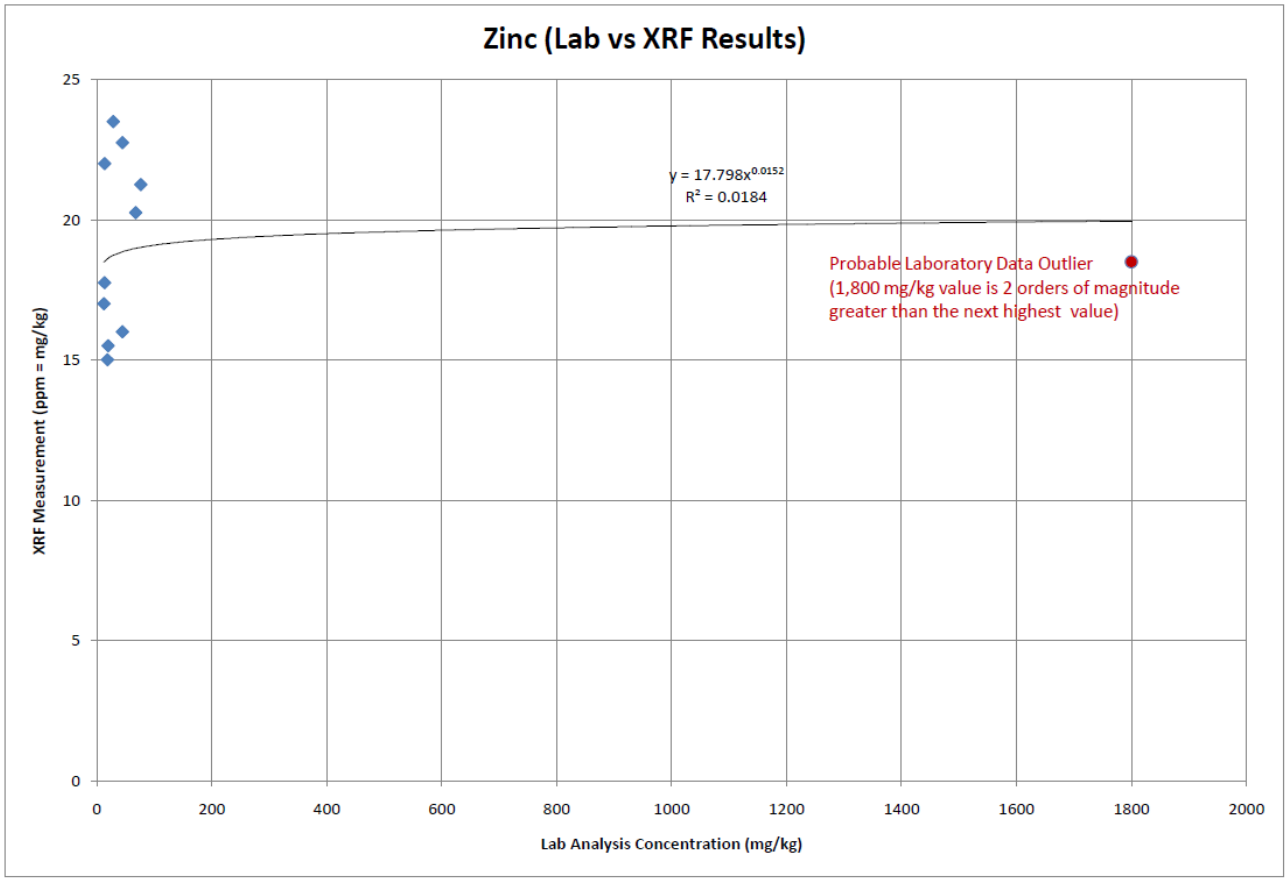

Iron (Lab vs XRF Results)
Boxplot Designated XRF Outlier
y = 0.8654x + 8650.4
R² = 0.4642
XRF Measurement (ppm = mg/kg)
Lab Analysis Concentration (mg/kg)
0
5000
10000
15000
20000
25000
30000
35000
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000


Lead (Lab vs XRF Results)
Boxplot Designated XRF Outliers
y = 3.2589ln(x) + 4.2919
R² = 0.1654
XRF Measurement (ppm = mg/kg)
Lab Analysis Concentration (mg/kg)
0
2
4
6
8
10
12
14
0
1
2
3
4
5
6


Manganese (Lab vs XRF Results)
Boxplot Designated XRF Outlier
y = 24.163x^0.267
R² = 0.3475
XRF Measurement (ppm = mg/kg)
Lab Analysis Concentration (mg/kg)
0
10
20
30
40
50
60
70
80
90
100
0
10
20
30
40
50
60
70
80


Nickel (Lab vs XRF Results)
Boxplot Designated XRF Outliers
y = 5.739ln(x) + 24.646
R² = 0.1093
XRF Measurement (ppm = mg/kg)
Lab Analysis Concentration (mg/kg)
0
10
20
30
40
50
60
0
5
10
15
20
25
30


Selenium (Lab vs XRF Results)
Boxplot Designated XRF Outliers
y = 1.4387x - 0.2939
R² = 0.7732
XRF Measurement (ppm = mg/kg)
Lab Analysis Concentration (mg/kg)
0
2
4
6
8
10
12
14
16
0
1
2
3
4
5
6
7
8
9
10


Zinc (Lab vs XRF Results)
y = 17.798x^0.0152
R² = 0.0184
Probable Laboratory Data Outlier
(1,800 mg/kg value is 2 orders of magnitude
greater than the next highest value)
XRF Measurement (ppm = mg/kg)
Lab Analysis Concentration (mg/kg)
0
5
10
15
20
25
0
200
400
600
800
1000
1200
1400
1600
1800
2000