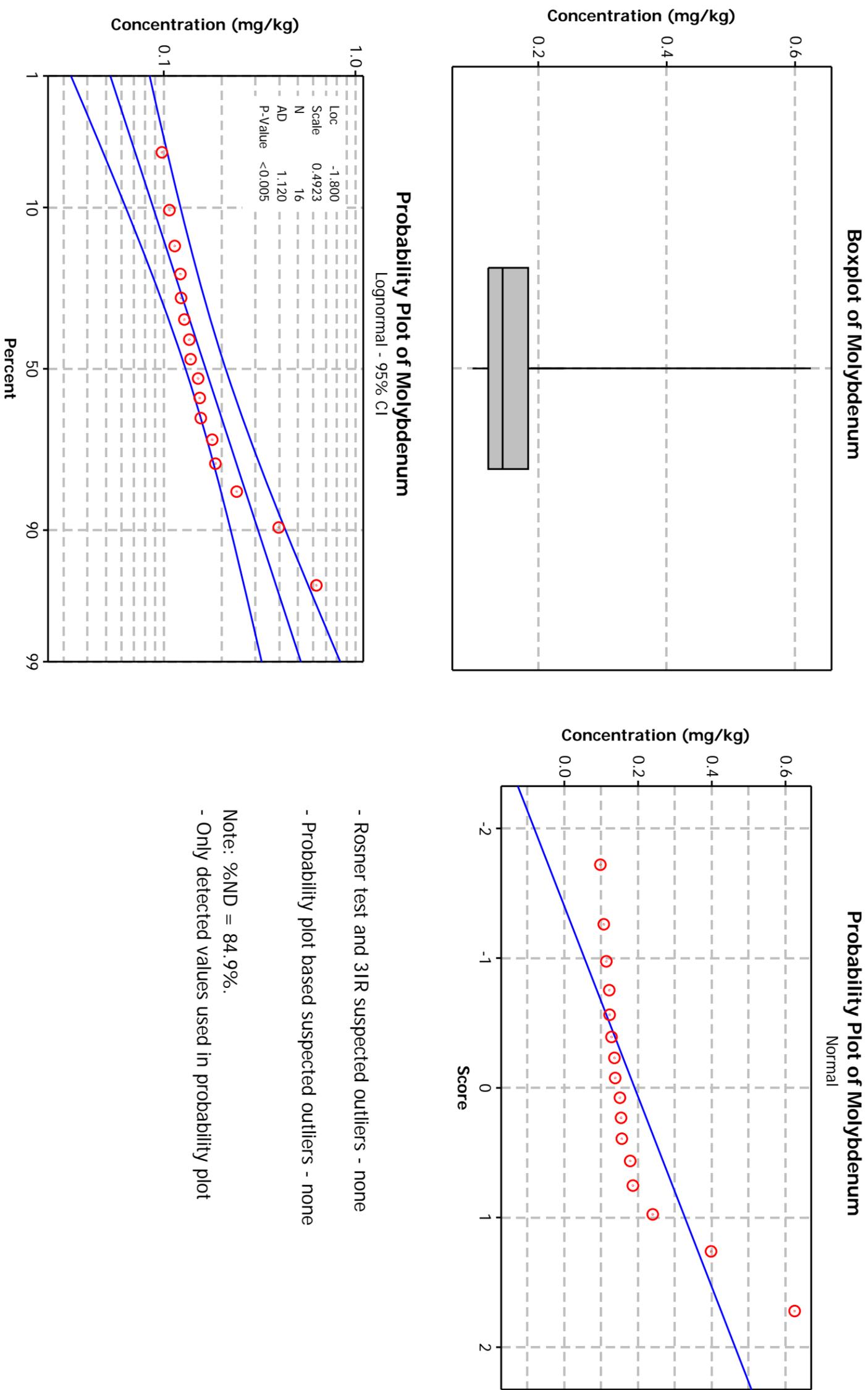


**Figure 3-3.11: Molybdenum Outlier Evaluation**



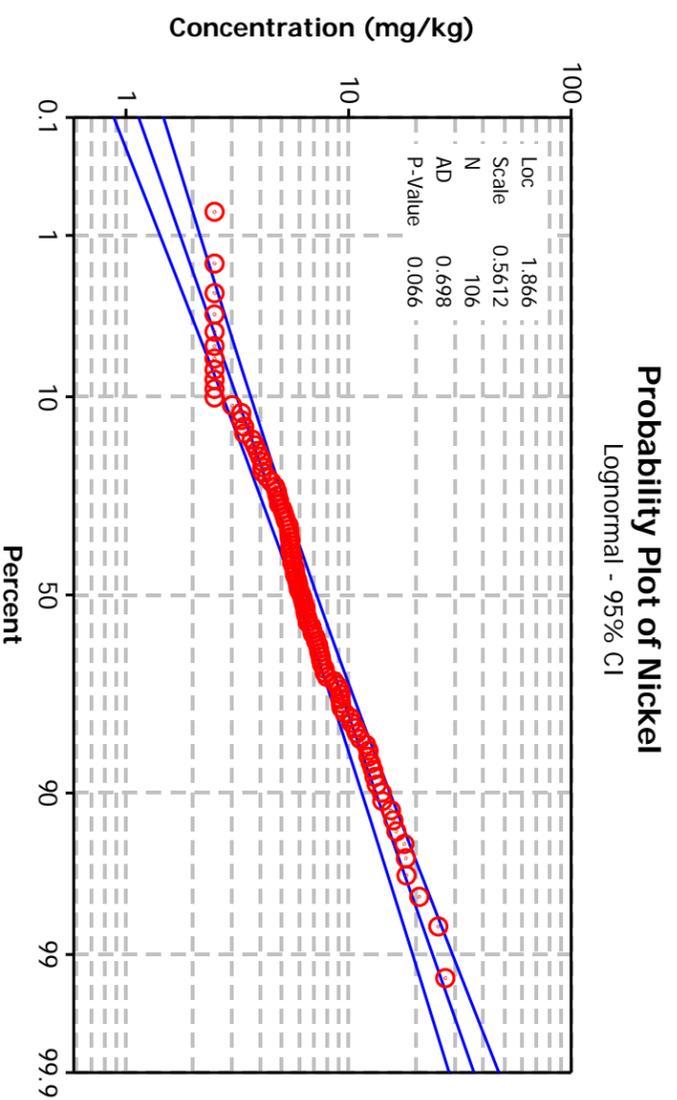
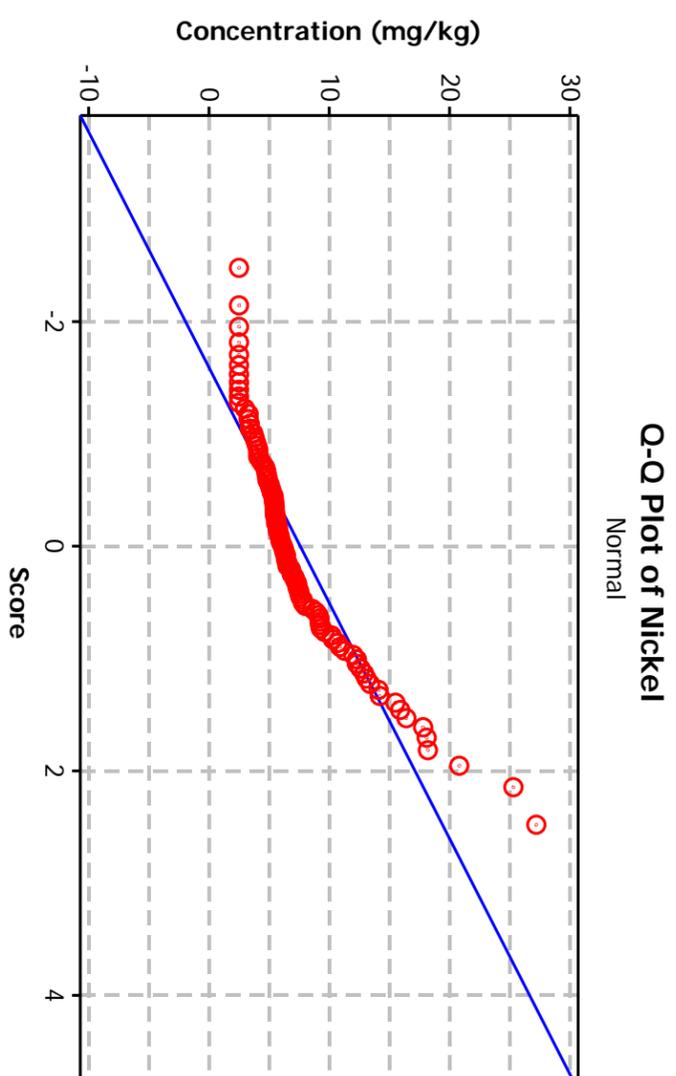
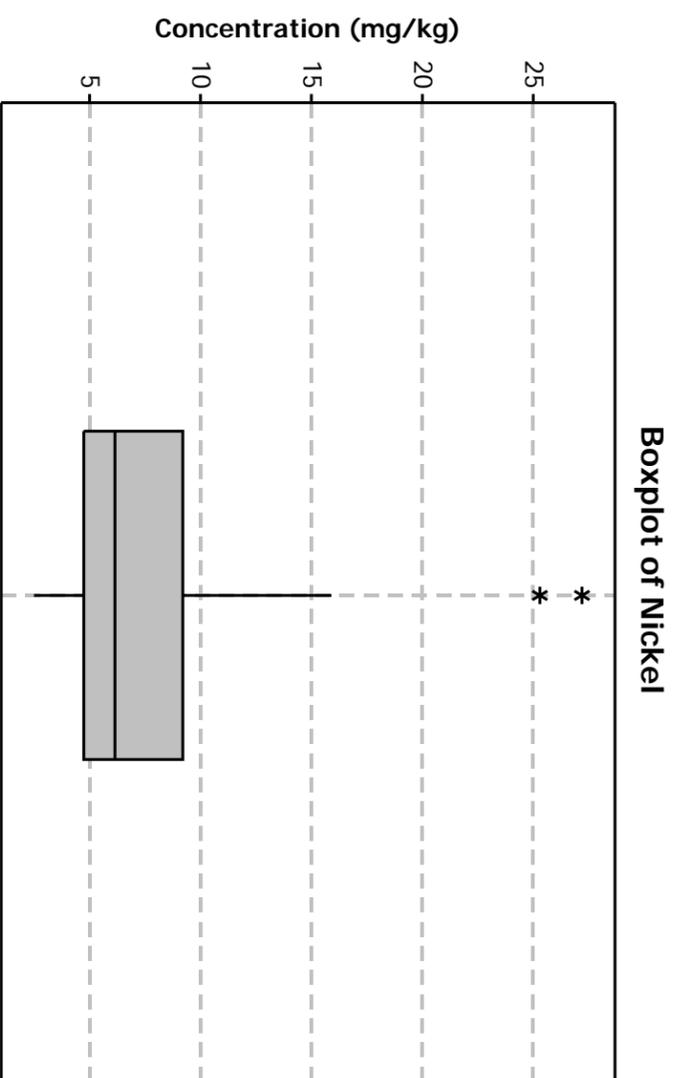
- Rosner test and 3IR suspected outliers - none

- Probability plot based suspected outliers - none

Note: %ND = 84.9%.

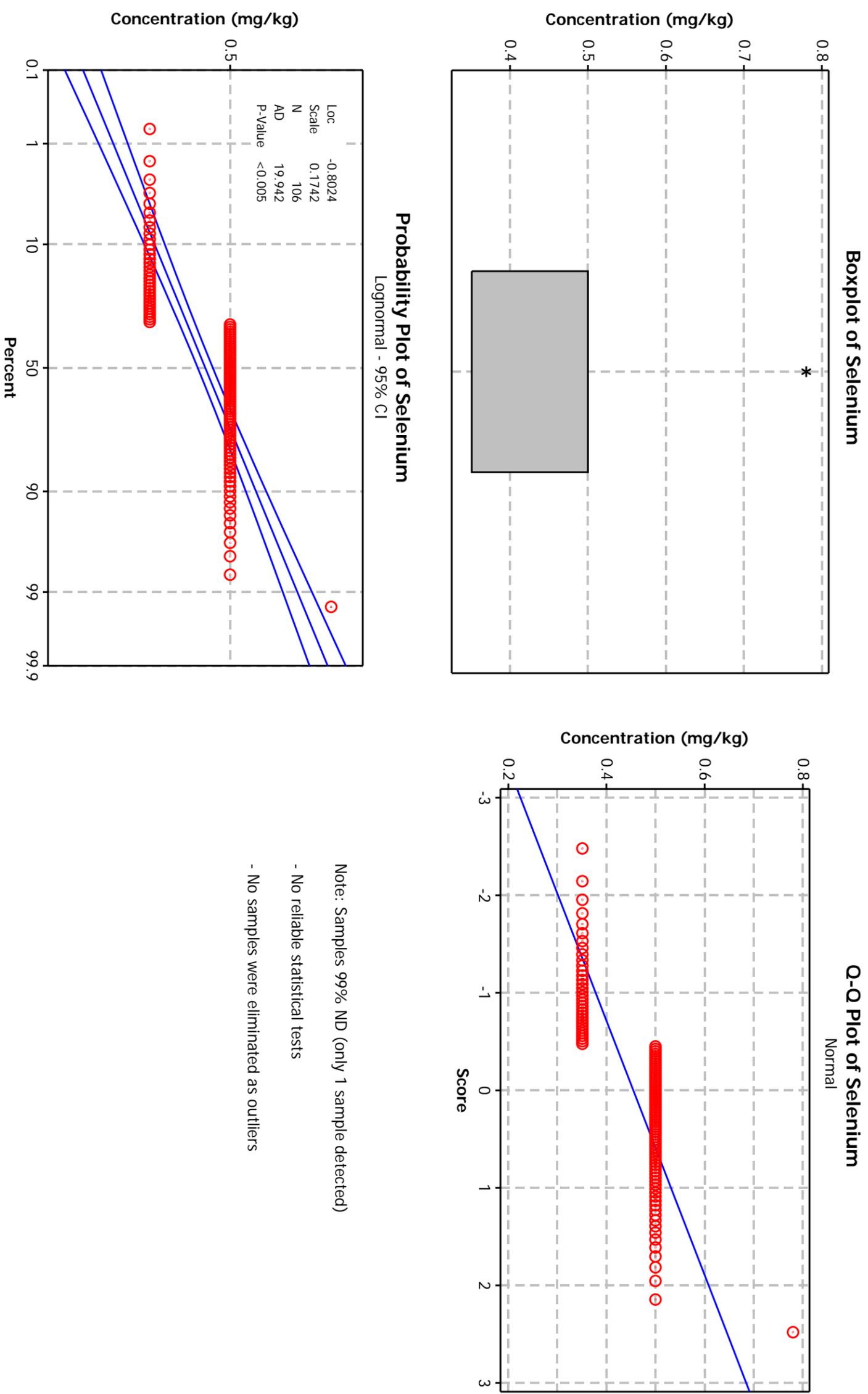
- Only detected values used in probability plot

# Figure 3-3.12: Nickel Outlier Evaluation

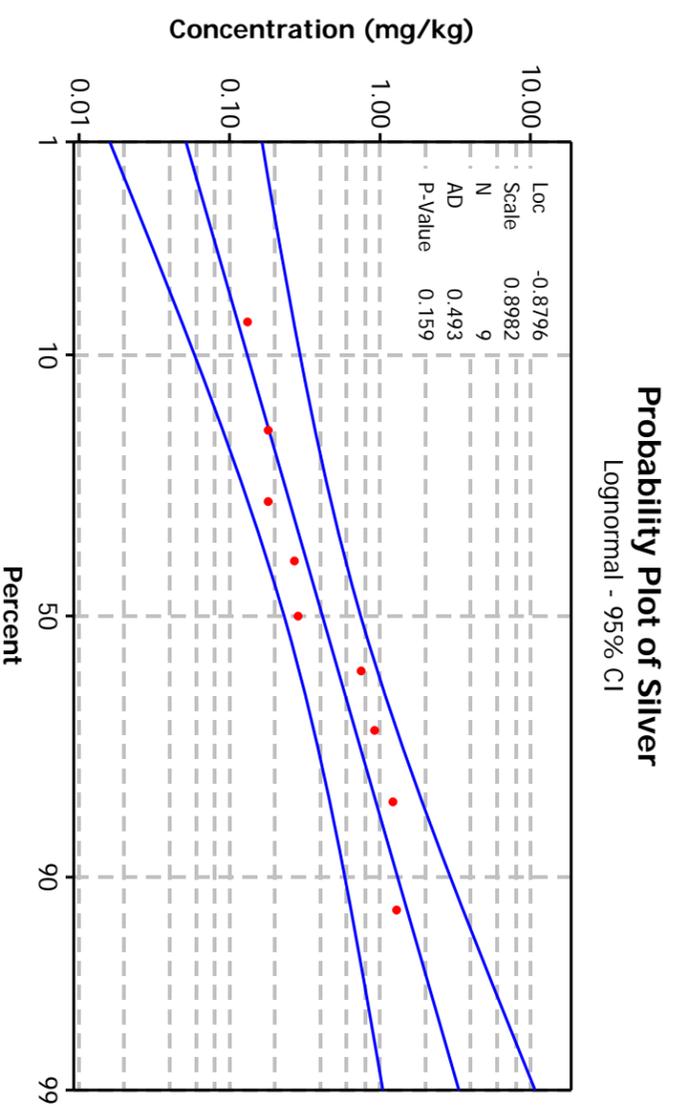
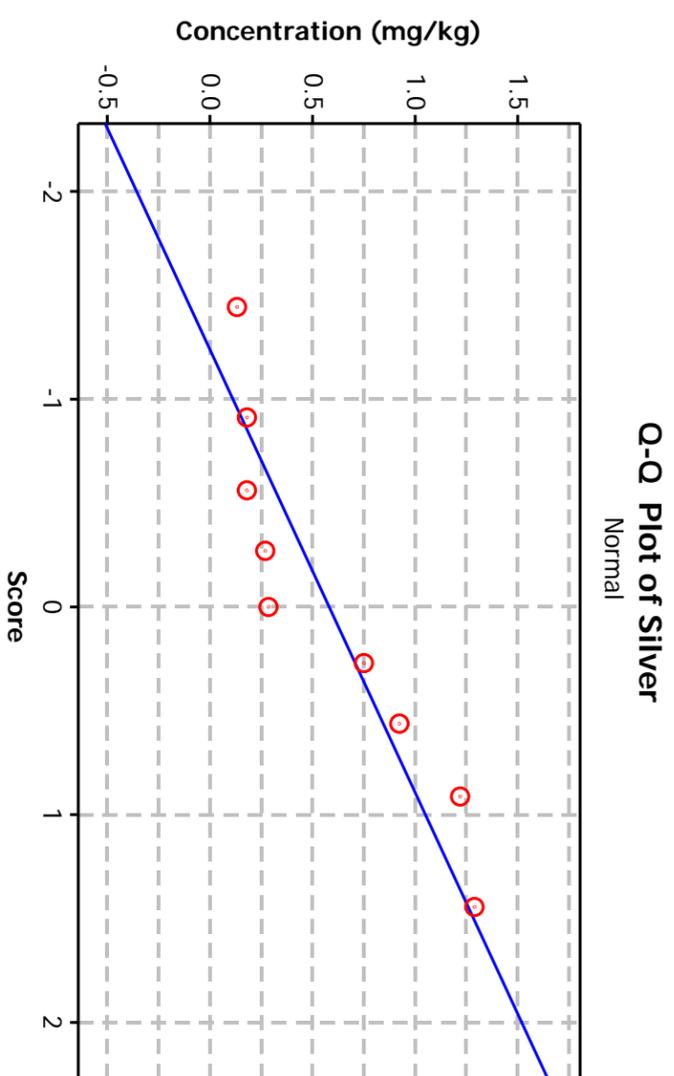
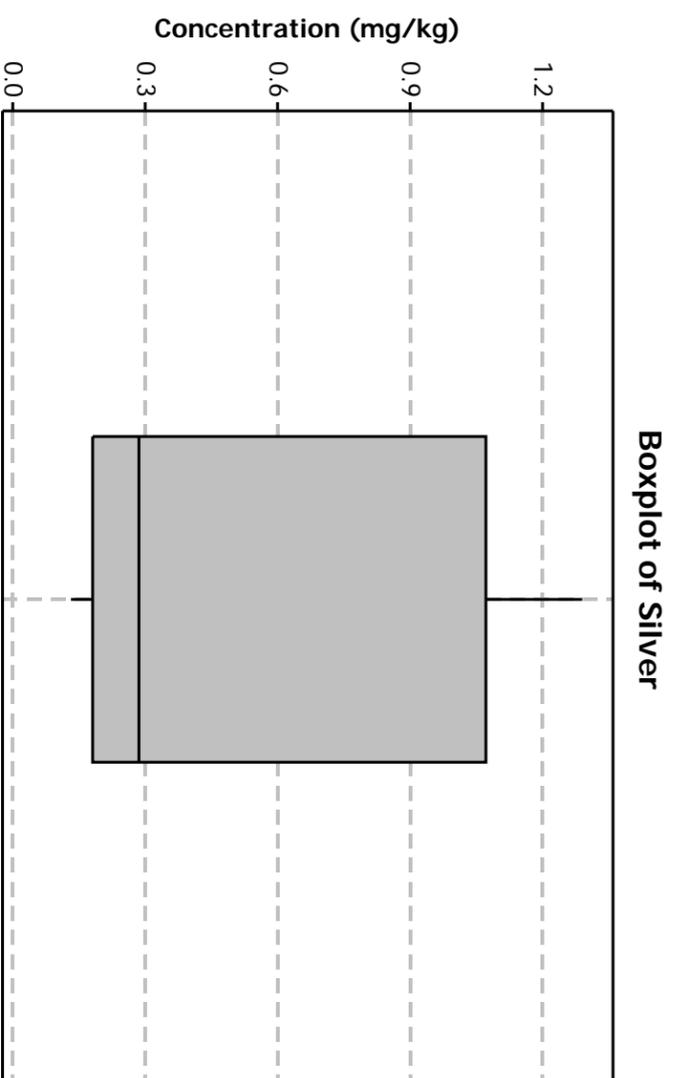


- 3IR suspected outliers - 25.3, 27.2
- Rosner test 27.2
- Q-Q plot based suspected outliers - none
- GOF test: Lognormal
- No outlier

**Figure 3-3.13: Selenium Outlier Evaluation**

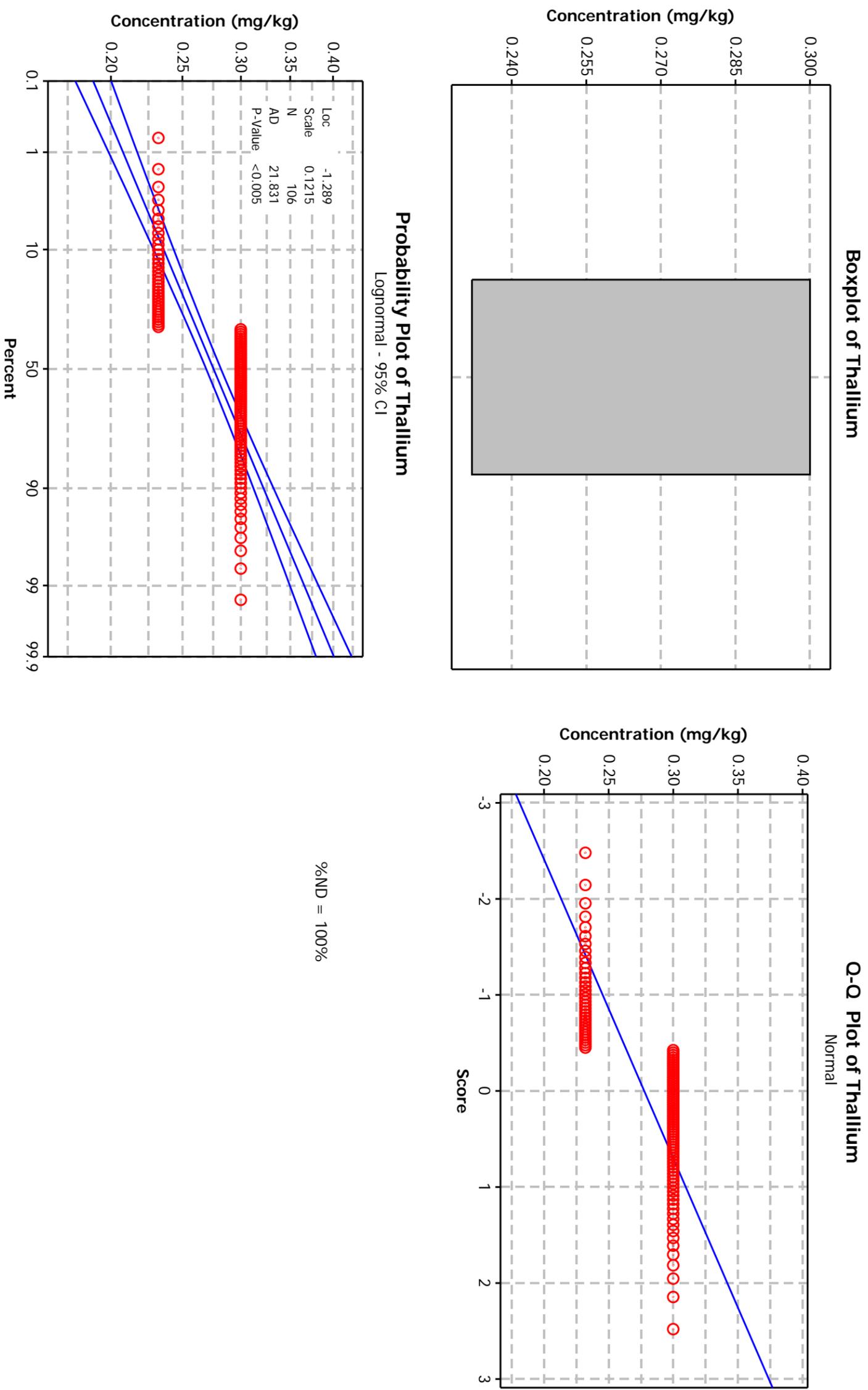


**Figure 3-3.14: Silver Outlier Evaluation**

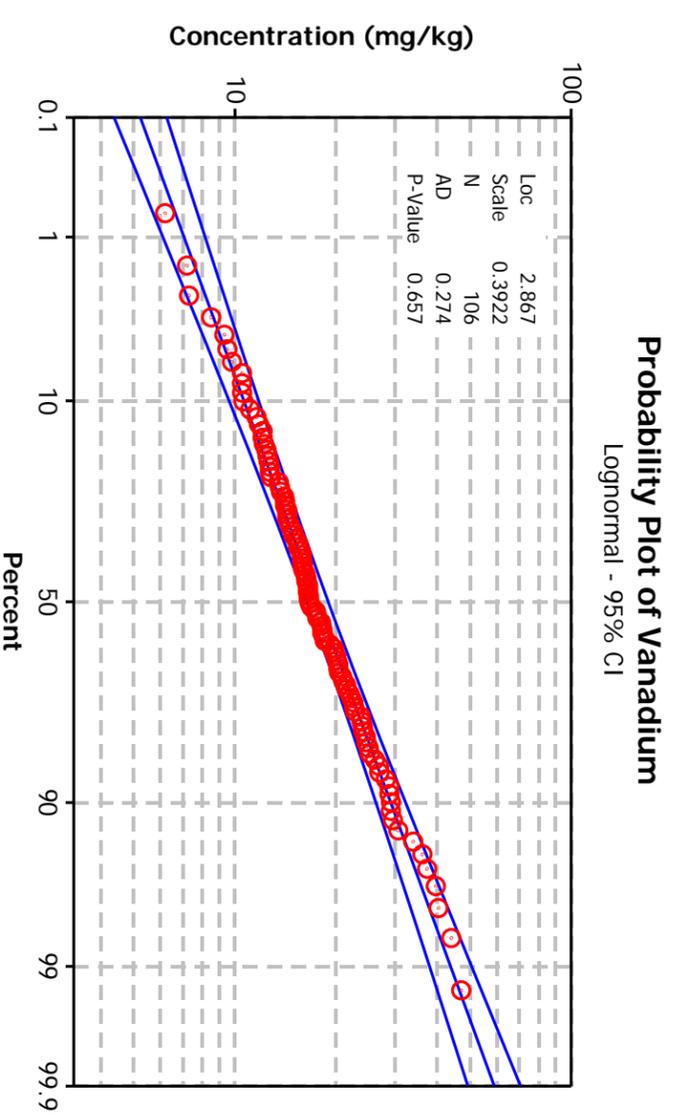
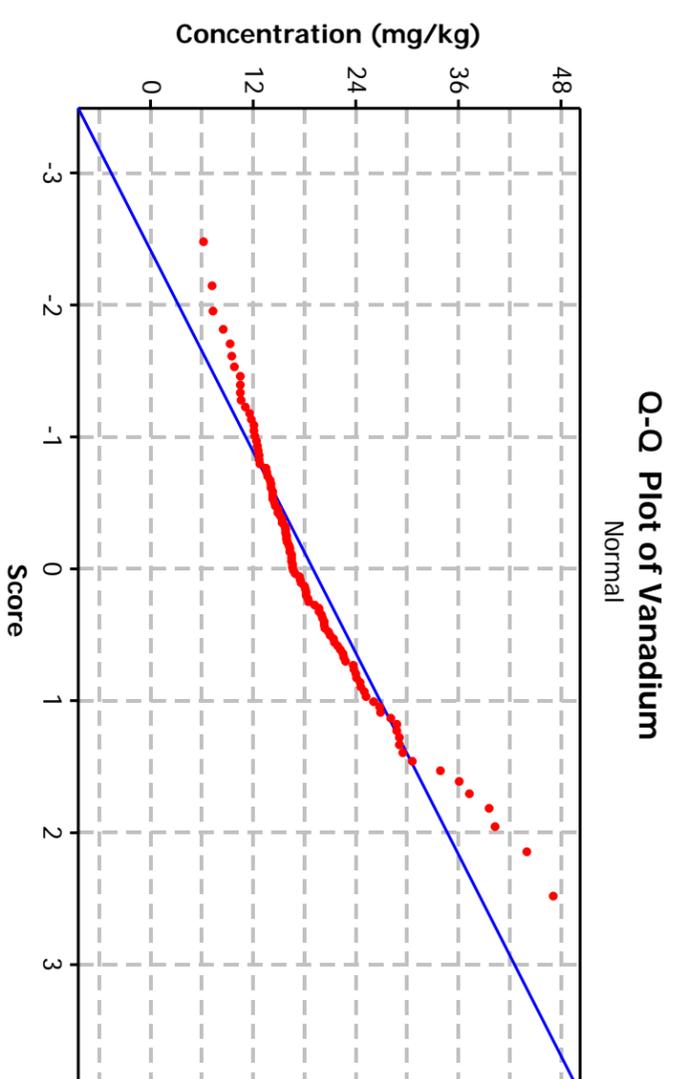
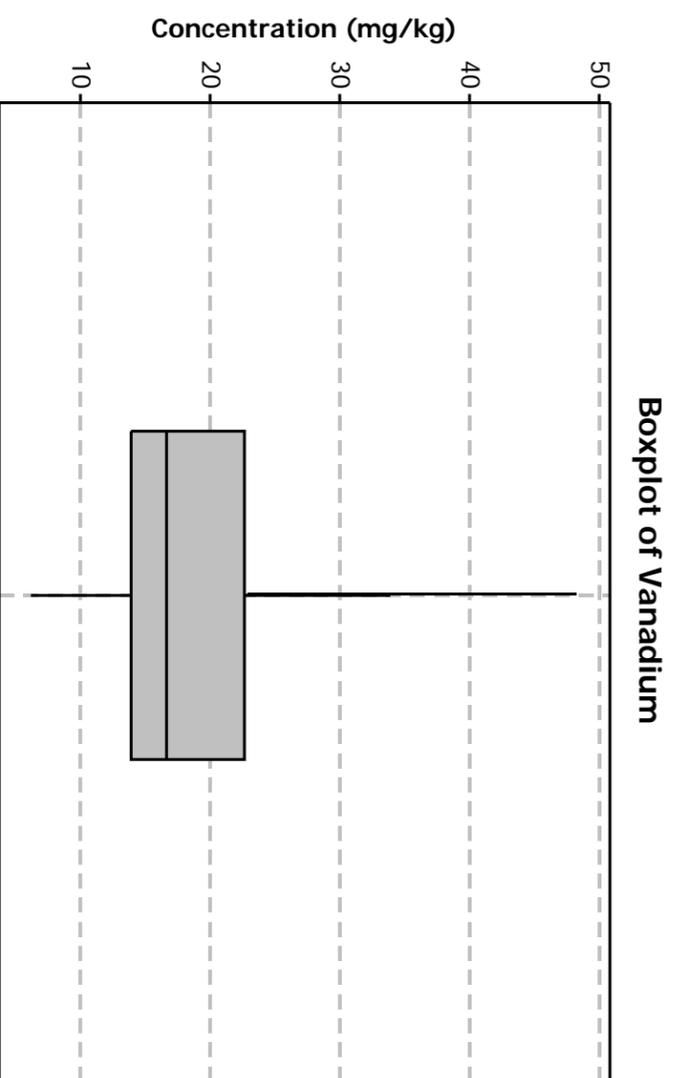


- Rosner test and 3IR suspected outliers - none
  - Q-Q plot based suspected outliers - none
- Note: %ND = 91.5%.  
 - Only detected values used in probability plot  
 - No outlier

**Figure 3-3.15: Thallium Outlier Evaluation**

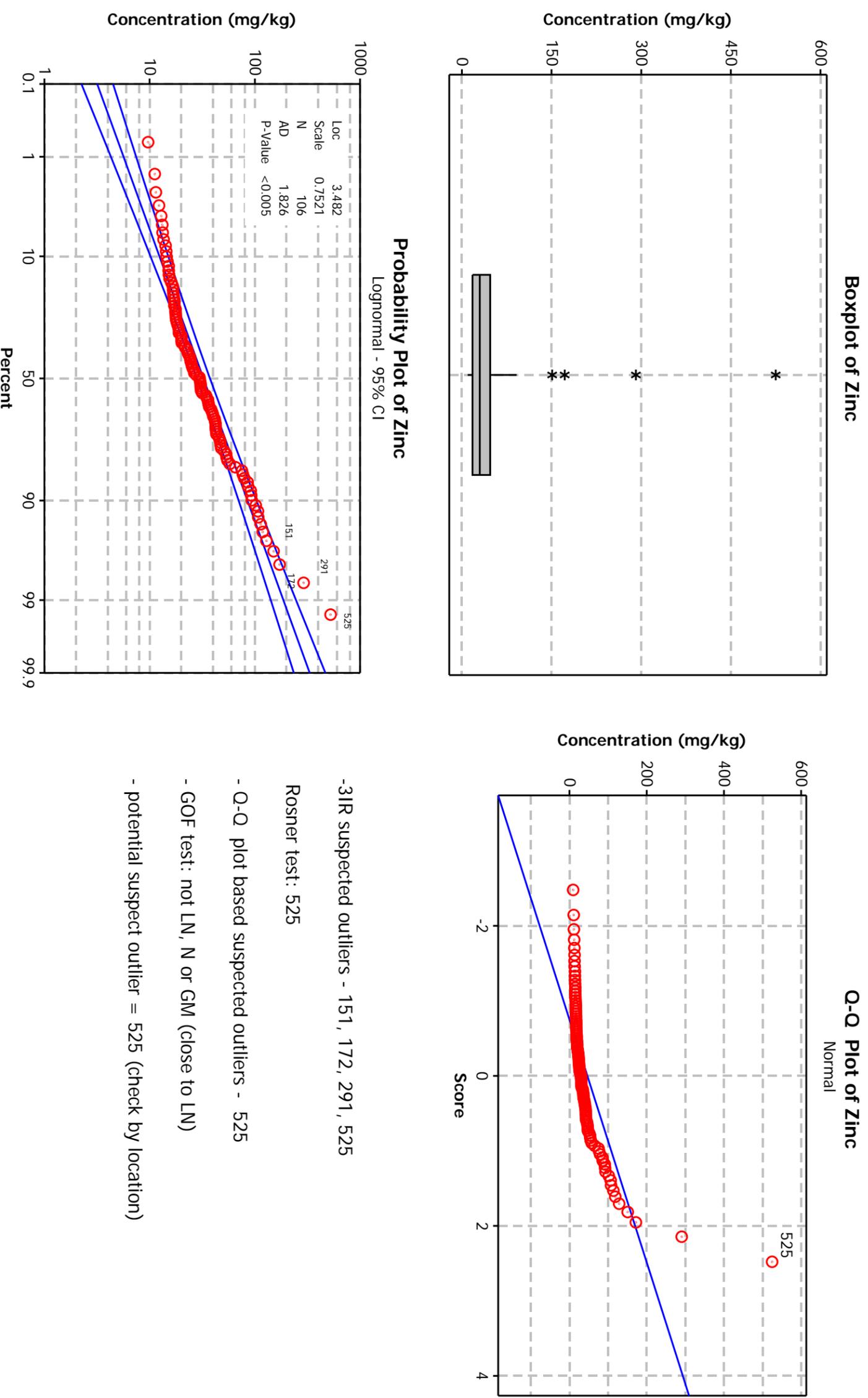


**Figure 3-3.16: Vanadium Outlier Evaluation**



- Rosner test and 3IR suspected outliers - none
- O-Q plot based suspected outliers - None
- GOF Test : Lognormal
- No outlier

**Figure 3-3.17: Zinc Outlier Evaluation**



**Figure 3-3.18: cPAH Outlier Evaluation**

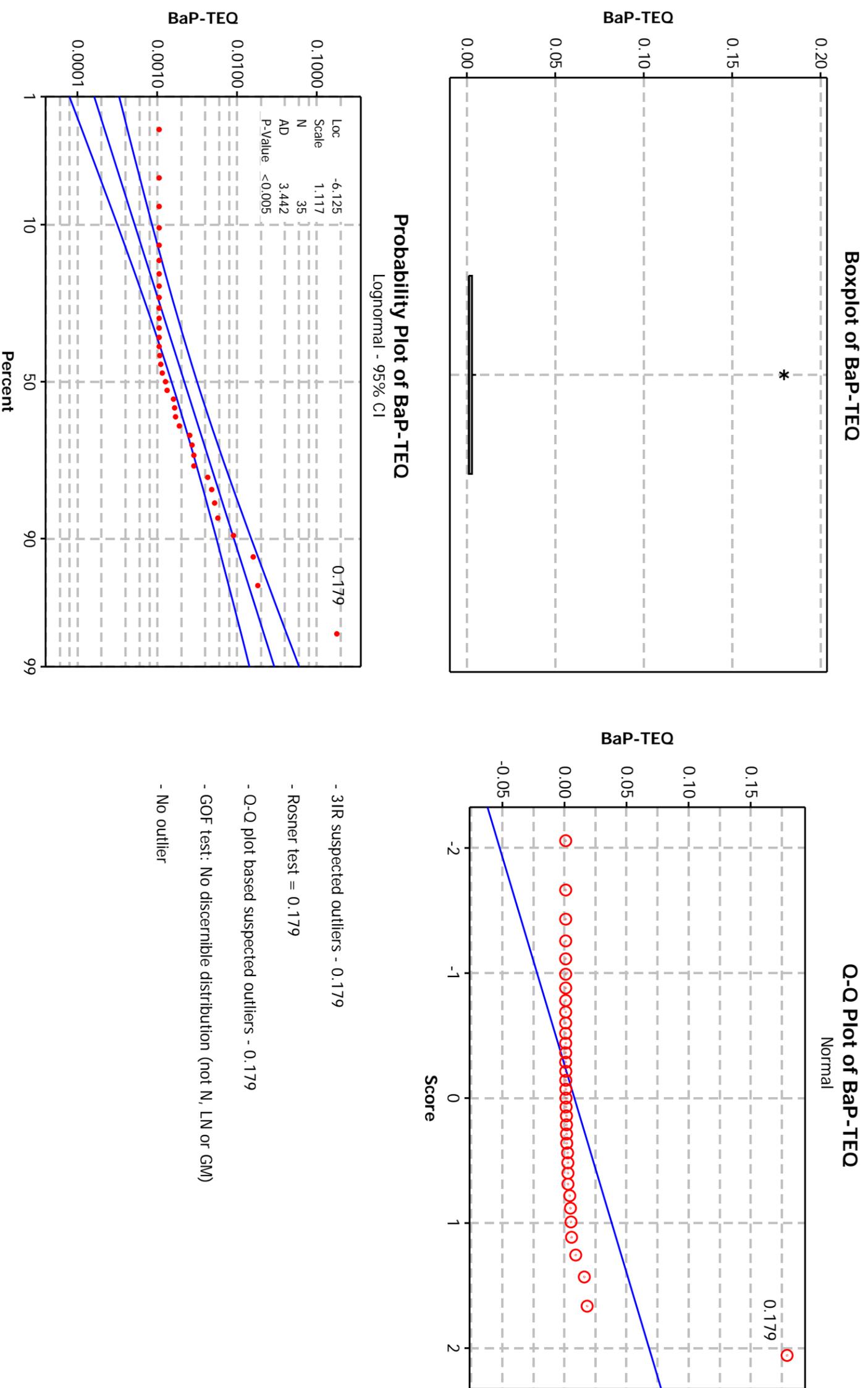
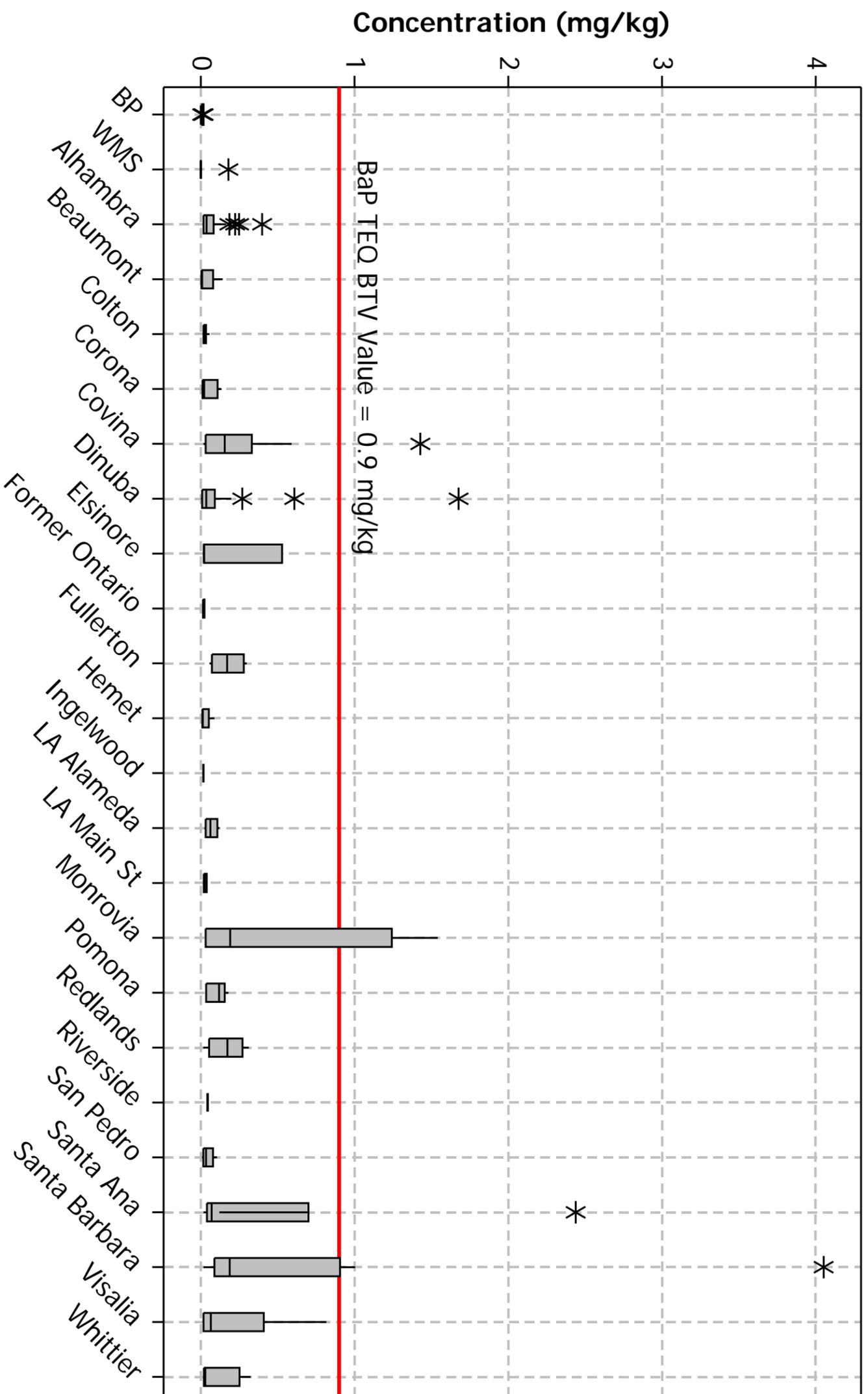
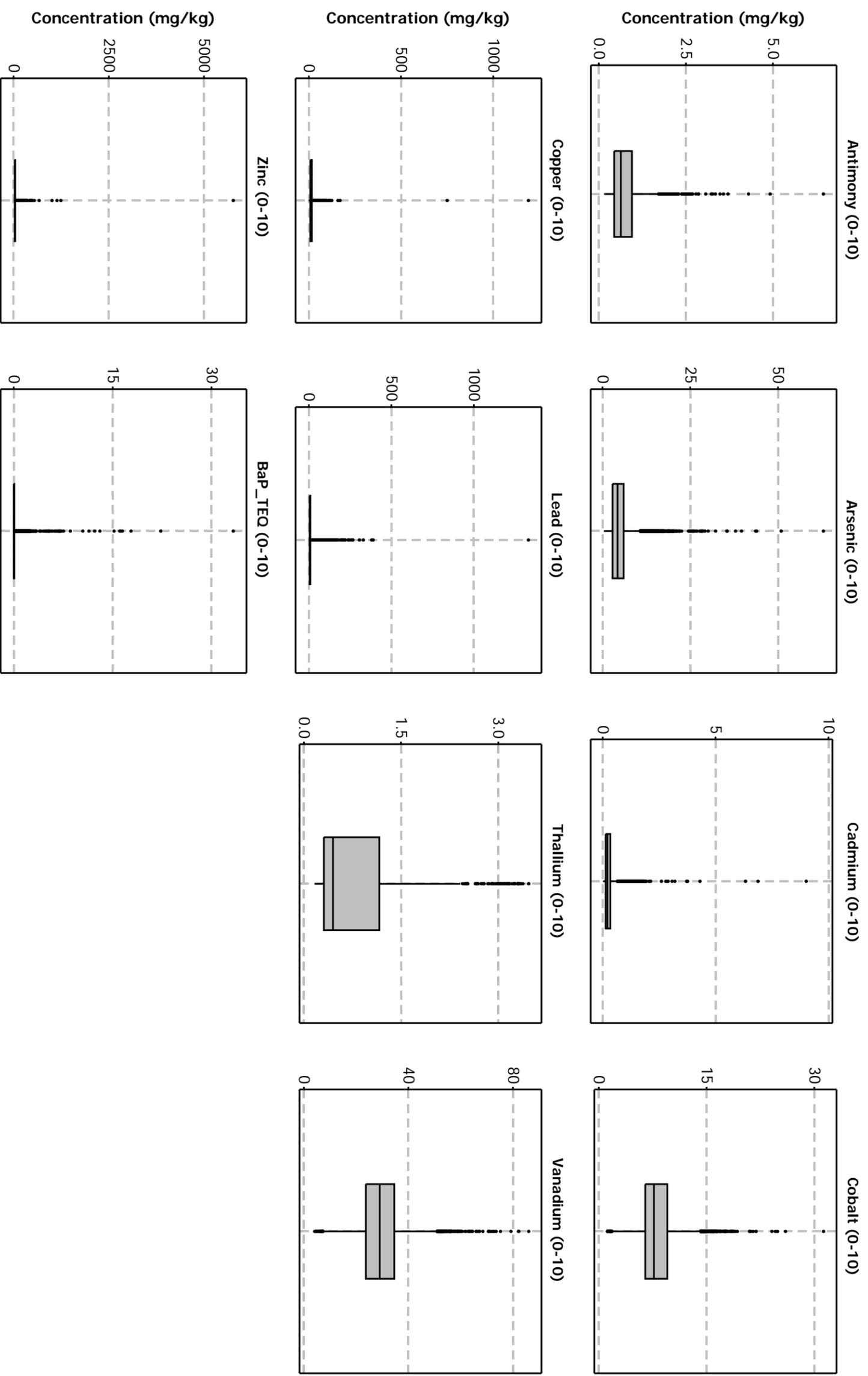


Figure 3-4: Boxplots of Local Background and Southern California Background cPAH Datasets

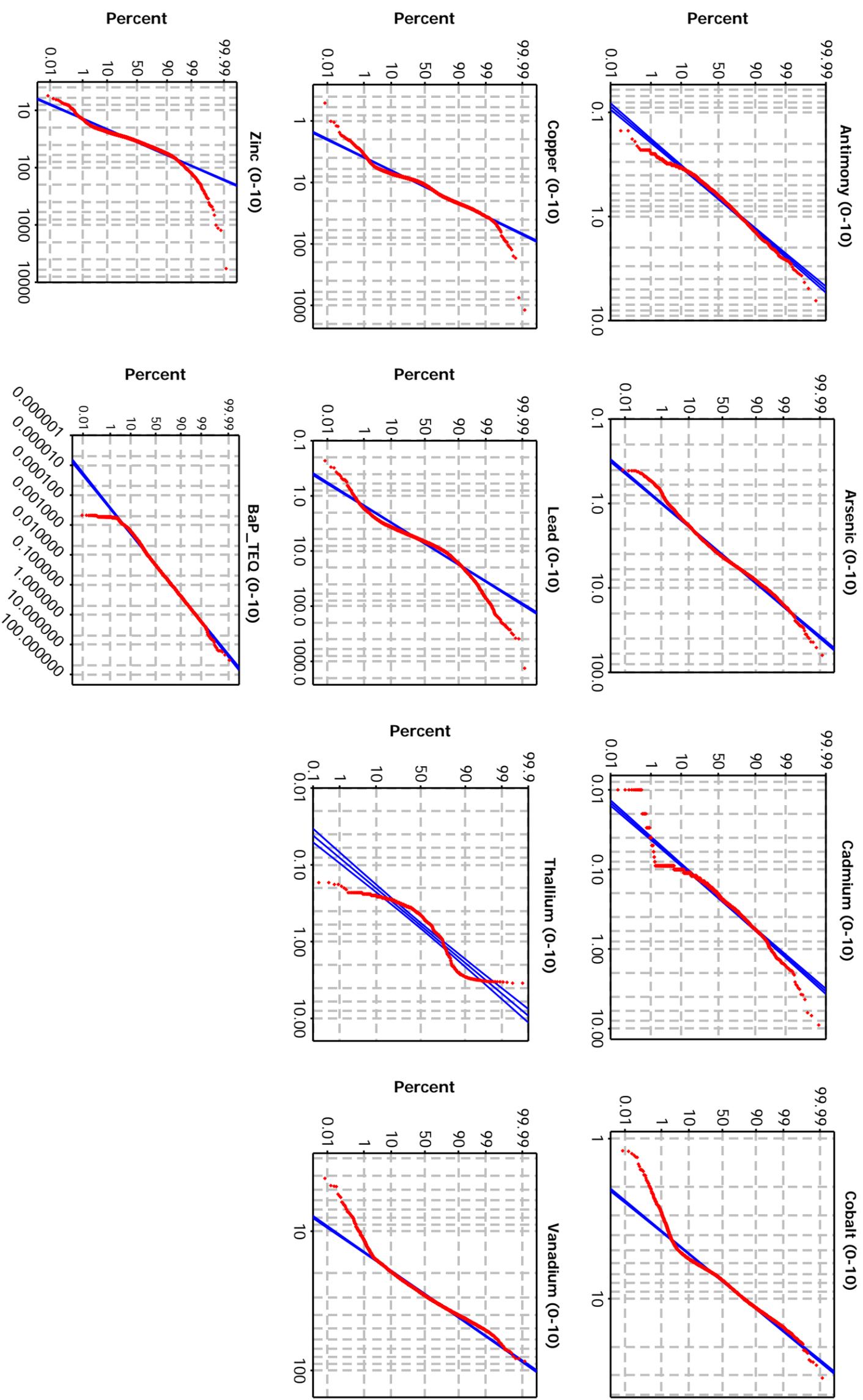


BP = Banning Park data and WMS = Wilmington Middle School data

**Figure 4-1: Box Plots of Metals and cPAH Site Datasets**



**Figure 4-2: Probability Plots of Metals and cPAH Site Datasets**



## **APPENDIE GU**

# **APPENDIX 1**

## **Minitab Output of Hypothesis Tests (Comparison of Background Datasets by Depth)**

## Appendix 1

Minitab Output of Hypothesis Tests  
(Comparison of Background Datasets by Depth)

### Non-Parametric Test of Medians (Mann-Whitney Test) for Combined Background Datasets by Depth Surface Soils (0 to 2 ft bgs; sf) Shallow Soils (2 to 5 ft bgs; shw)

#### Mann-Whitney Test and CI: Antimony\_sf, Antimony\_shw

	N	Median
Antimony_sf	68	0.50000
Antimony_shw	38	0.50000

Point estimate for ETA1-ETA2 is -0.00000  
95.1 Percent CI for ETA1-ETA2 is (-0.00001,-0.00002)  
W = 3693.5  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.7171  
The test is significant at 0.6572 (adjusted for ties)

#### Mann-Whitney Test and CI: Arsenic\_sf, Arsenic\_shw

	N	Median
Arsenic_sf	68	1.7000
Arsenic_shw	38	1.6000

Point estimate for ETA1-ETA2 is 0.1900  
95.1 Percent CI for ETA1-ETA2 is (-0.1801,0.5901)  
W = 3792.5  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.3103  
The test is significant at 0.3101 (adjusted for ties)

#### Mann-Whitney Test and CI: Barium\_sf, Barium\_shw

	N	Median
Barium_sf	68	66.55
Barium_shw	38	53.05

Point estimate for ETA1-ETA2 is 8.70  
95.1 Percent CI for ETA1-ETA2 is (-2.50,19.09)  
W = 3878.0  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.1146  
The test is significant at 0.1146 (adjusted for ties)

## Appendix 1

### Minitab Output of Hypothesis Tests (Comparison of Background Datasets by Depth)

#### Mann-Whitney Test and CI: Beryllium\_sf, Beryllium\_shw

	N	Median
Beryllium_sf	68	0.20000
Beryllium_shw	38	0.22850

Point estimate for ETA1-ETA2 is -0.00300  
95.1 Percent CI for ETA1-ETA2 is (-0.06801,-0.00000)  
W = 3474.0  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.2814  
The test is significant at 0.2754 (adjusted for ties)

#### Mann-Whitney Test and CI: Cadmium\_sf, Cadmium\_shw

	N	Median
Cadmium_sf	68	0.1540
Cadmium_shw	38	0.1000

Point estimate for ETA1-ETA2 is 0.0117  
95.1 Percent CI for ETA1-ETA2 is (-0.0000,0.1117)  
W = 4119.5  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.0015  
The test is significant at 0.0011 (adjusted for ties)

#### Mann-Whitney Test and CI: Chromium\_sf, Chromium\_shw

	N	Median
Chromium_sf	68	10.750
Chromium_shw	38	9.270

Point estimate for ETA1-ETA2 is 1.650  
95.1 Percent CI for ETA1-ETA2 is (-0.000,3.101)  
W = 3940.0  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.0470  
The test is significant at 0.0470 (adjusted for ties)

#### Mann-Whitney Test and CI: Cobalt\_sf, Cobalt\_shw

	N	Median
Cobalt_sf	68	4.740
Cobalt_shw	38	4.820

Point estimate for ETA1-ETA2 is -0.100  
95.1 Percent CI for ETA1-ETA2 is (-0.870,0.600)  
W = 3585.5  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.7319  
The test is significant at 0.7319 (adjusted for ties)

## Appendix 1

### Minitab Output of Hypothesis Tests (Comparison of Background Datasets by Depth)

#### Mann-Whitney Test and CI: Copper\_sf, Copper\_shw

	N	Median
Copper_sf	68	13.750
Copper_shw	38	7.135

Point estimate for ETA1-ETA2 is 5.300  
95.1 Percent CI for ETA1-ETA2 is (2.600,8.102)  
W = 4215.5  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.0001  
The test is significant at 0.0001 (adjusted for ties)

#### Mann-Whitney Test and CI: Lead\_sf, Lead\_shw

	N	Median
Lead_sf	68	7.695
Lead_shw	38	3.640

Point estimate for ETA1-ETA2 is 3.825  
95.1 Percent CI for ETA1-ETA2 is (2.198,6.881)  
W = 4452.5  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.0000  
The test is significant at 0.0000 (adjusted for ties)

#### Mann-Whitney Test and CI: Mercury\_sf, Mercury\_shw

	N	Median
Mercury_sf	68	0.10000
Mercury_shw	38	0.10000

Point estimate for ETA1-ETA2 is 0.00000  
95.1 Percent CI for ETA1-ETA2 is (-0.00000,-0.00000)  
W = 3805.5  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.2712  
The test is significant at 0.1883 (adjusted for ties)

#### Mann-Whitney Test and CI: Molybdenum\_sf, Molybdenum\_shw

	N	Median
Molybdenum_sf	68	2.5000
Molybdenum_shw	38	2.5000

Point estimate for ETA1-ETA2 is 0.0000  
95.1 Percent CI for ETA1-ETA2 is (-0.0000,-0.0002)  
W = 3743.0  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.4912  
The test is significant at 0.4085 (adjusted for ties)

## Appendix 1

### Minitab Output of Hypothesis Tests (Comparison of Background Datasets by Depth)

#### Box Plot of Nickel\_sf, Nickel\_shw

#### Mann-Whitney Test and CI: Nickel\_sf, Nickel\_shw

	N	Median
Nickel_sf	68	6.545
Nickel_shw	38	5.540

Point estimate for ETA1-ETA2 is 0.970  
95.1 Percent CI for ETA1-ETA2 is (-0.221,2.200)  
W = 3885.5  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.1037  
The test is significant at 0.1035 (adjusted for ties)

#### Mann-Whitney Test and CI: Selenium\_sf, Selenium\_shw

	N	Median
Selenium_sf	68	0.50000
Selenium_shw	38	0.50000

Point estimate for ETA1-ETA2 is -0.00000  
95.1 Percent CI for ETA1-ETA2 is (-0.00001,-0.00002)  
W = 3693.5  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.7171  
The test is significant at 0.6572 (adjusted for ties)

#### Mann-Whitney Test and CI: Silver\_sf, Silver\_shw

	N	Median
Silver_sf	68	2.5000
Silver_shw	38	2.5000

Point estimate for ETA1-ETA2 is 0.0000  
95.1 Percent CI for ETA1-ETA2 is (-0.0001,-0.0000)  
W = 3720.5  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.5890  
The test is significant at 0.5139 (adjusted for ties)

#### Mann-Whitney Test and CI: Thallium\_sf, Thallium\_shw

	N	Median
Thallium_sf	68	0.30000
Thallium_shw	38	0.30000

Point estimate for ETA1-ETA2 is -0.00000  
95.1 Percent CI for ETA1-ETA2 is (0.00000,0.00001)  
W = 3662.0

## Appendix 1

### Minitab Output of Hypothesis Tests (Comparison of Background Datasets by Depth)

Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.8770  
The test is significant at 0.8493 (adjusted for ties)

#### Mann-Whitney Test and CI: Vanadium\_sf, Vanadium\_shw

	N	Median
Vanadium_sf	68	16.800
Vanadium_shw	38	16.200

Point estimate for ETA1-ETA2 is 1.000  
95.1 Percent CI for ETA1-ETA2 is (-1.900,3.500)  
W = 3752.0  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.4546  
The test is significant at 0.4546 (adjusted for ties)

#### Mann-Whitney Test and CI: Zinc\_sf, Zinc\_shw

	N	Median
Zinc_sf	68	31.30
Zinc_shw	38	20.10

Point estimate for ETA1-ETA2 is 9.90  
95.1 Percent CI for ETA1-ETA2 is (3.00,18.50)  
W = 4103.0  
Test of ETA1 = ETA2 vs ETA1 not = ETA2 is significant at 0.0022  
The test is significant at 0.0022 (adjusted for ties)

## Conclusion:

For Background Datasets: Cadmium, copper, lead and zinc are significantly different by depth.

## Appendix 1

Minitab Output of Hypothesis Tests  
(Comparison of Background Datasets by Depth)

### Non-Parametric Test of Proportions (Two-proportions test) for Combined Background Datasets by Depth (0-2 and 2 to 5 ft bgs)

#### Test and CI for Two Proportions: Detection Levels of BaP-TEQ, Depth Category

Event = 1

Depth Category	X	N	Sample p
Shallow	2	14	0.142857
Surface	20	21	0.952381

Difference = p (Shallow) - p (Surface)

Estimate for difference: -0.809524

95% CI for difference: (-1, -0.604842)

Test for difference = 0 (vs not = 0): Z = -7.75 P-Value = 0.000

Fisher's exact test: P-Value = 0.000

#### Conclusion:

PAHs are significantly different by depth

## **APPENDIX 2**

### **ProUCL Output of Rosner Outlier Test**

**Appendix 2**  
**ProUCL Output of Rosner Outlier Test**

Rosner's Outlier Test for Antimony							
Mean		0.44					
Standard Deviation		0.0955					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	0.44	0.095	0.741	16	3.168	3.397	3.767
For 5% Significance Level, there is no Potential Outlier							
For 1% Significance Level, there is no Potential Outlier							
Rosner's Outlier Test for Arsenic							
Mean		3.171					
Standard Deviation		12.24					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	3.171	12.18	127	98	10.17	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 127 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 127 is a Potential Statistical Outlier							
Rosner's Outlier Test for Barium							
Mean		69.88					
Standard Deviation		69.79					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	69.88	69.46	575	31	7.272	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 575 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 575 is a Potential Statistical Outlier							

Appendix 2  
ProUCL Output of Rosner Outlier Test

Rosner's Outlier Test for Beryllium							
Mean		0.246					
Standard Deviation		0.127					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	0.246	0.126	0.8	43	4.386	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 0.8 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 0.8 is a Potential Statistical Outlier							
Rosner's Outlier Test for Cadmium							
Mean		0.306					
Standard Deviation		0.465					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	0.306	0.463	3.81	7	7.573	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 3.81 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 3.81 is a Potential Statistical Outlier							
Rosner's Outlier Test for Chromium							
Mean		11.58					
Standard Deviation		5.884					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	11.58	5.856	38.6	103	4.615	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 38.6 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 38.6 is a Potential Statistical Outlier							

Appendix 2  
ProUCL Output of Rosner Outlier Test

Rosner's Outlier Test for Cobalt							
Mean		5.113					
Standard Deviation		2.181					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	5.113	2.171	15.7	43	4.877	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 15.7 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 15.7 is a Potential Statistical Outlier							
Rosner's Outlier Test for Copper							
Mean		13.94					
Standard Deviation		9.607					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	13.94	9.562	59	16	4.712	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 59 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 59 is a Potential Statistical Outlier							
Rosner's Outlier Test for Lead							
Mean		13.07					
Standard Deviation		18.22					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	13.07	18.13	112	88	5.457	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 112 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 112 is a Potential Statistical Outlier							

Appendix 2  
ProUCL Output of Rosner Outlier Test

Rosner's Outlier Test for Mercury							
Mean		0.0811					
Standard Deviation		0.0425					
Number of data		106					
Number of suspected outliers		1					
#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	0.0811	0.0423	0.324	16	5.745	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 0.324 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 0.324 is a Potential Statistical Outlier							
Rosner's Outlier Test for Molybdenum							
Mean		1.717					
Standard Deviation		1.122					
Number of data		106					
Number of suspected outliers		1					
#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	1.717	1.116	0.0777	3	1.469	3.397	3.767
For 5% Significance Level, there is no Potential Outlier							
For 1% Significance Level, there is no Potential Outlier							
Rosner's Outlier Test for Nickel							
Mean		7.596					
Standard Deviation		4.766					
Number of data		106					
Number of suspected outliers		1					
#	Mean	sd	Potential outlier	Obs. Number	Test value	Critical value (5%)	Critical value (1%)
1	7.596	4.744	27.2	43	4.132	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 27.2 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 27.2 is a Potential Statistical Outlier							

Appendix 2  
ProUCL Output of Rosner Outlier Test

Rosner's Outlier Test for Selenium							
Mean		0.455					
Standard Deviation		0.0767					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	0.455	0.0763	0.78	98	4.261	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 0.78 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 0.78 is a Potential Statistical Outlier							
Rosner's Outlier Test for Silver							
Mean		1.753					
Standard Deviation		1.084					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	1.753	1.079	0.117	2	1.516	3.397	3.767
For 5% Significance Level, there is no Potential Outlier							
For 1% Significance Level, there is no Potential Outlier							
Rosner's Outlier Test for Thallium							
Mean		0.278					
Standard Deviation		0.0321					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	0.278	0.032	0.232	1	1.424	3.397	3.767
For 5% Significance Level, there is no Potential Outlier							
For 1% Significance Level, there is no Potential Outlier							

Appendix 2  
ProUCL Output of Rosner Outlier Test

Rosner's Outlier Test for Vanadium							
Mean		18.99					
Standard Deviation		7.863					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	18.99	7.826	47.1	43	3.592	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 47.1 is a Potential Statistical Outlier							
For 1% Significance Level, there is no Potential Outlier							
Rosner's Outlier Test for Zinc							
Mean		46.62					
Standard Deviation		61.77					
Number of data		106					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	46.62	61.48	525	103	7.781	3.397	3.767
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 525 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 525 is a Potential Statistical Outlier							
Rosner's Outlier Test for BaP-TEQ							
Mean		0.0075					
Standard Deviation		0.0289					
Number of data		38					
Number of suspected outliers		1					
			Potential	Obs.	Test	Critical	Critical
#	Mean	sd	outlier	Number	value	value (5%)	value (1%)
1	0.0075	0.0285	0.179	35	6.029	3.01	3.36
For 5% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 0.179 is a Potential Statistical Outlier							
For 1% Significance Level, there is 1 Potential Outlier							
Therefore, Observation 0.179 is a Potential Statistical Outlier							

## **APPENDIX 3**

### **ProUCL Output of Goodness-of-Fit Test Statistics with Outliers**

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

<b>Antimony</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	3				
Minimum	0.306				
Maximum	0.741				
Mean of Raw Data	0.44				
Standard Deviation of Raw Data	0.0955				
Kstar	18.81				
Mean of Log Transformed Data	-0.847				
Standard Deviation of Log Transformed Data	0.236				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.796				
Approximate Shapiro Wilk Test Statistic	0.634				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.414				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.776				
A-D Test Statistic	20.66				
A-D Critical (0.95) Value	0.75				
K-S Test Statistic	0.421				
K-S Critical(0.95) Value	0.0877				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.793				
Approximate Shapiro Wilk Test Statistic	0.62				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.422				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					
<b>Arsenic</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	62				
Minimum	0.3				
Maximum	127				
Mean of Raw Data	3.171				
Standard Deviation of Raw Data	12.24				
Kstar	0.916				
Mean of Log Transformed Data	0.533				
Standard Deviation of Log Transformed Data	0.764				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.343				
Approximate Shapiro Wilk Test Statistic	0.162				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.423				

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.538				
A-D Test Statistic	9.434E+28				
A-D Critical (0.95) Value	0.786				
K-S Test Statistic	0.263				
K-S Critical(0.95) Value	0.0907				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.92				
Approximate Shapiro Wilk Test Statistic	0.882				
Approximate Shapiro Wilk P Value	6.094E-12				
Lilliefors Test Statistic	0.116				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					
<b>Barium</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	97				
Minimum	17.7				
Maximum	575				
Mean of Raw Data	69.88				
Standard Deviation of Raw Data	69.79				
Kstar	2.578				
Mean of Log Transformed Data	4.046				
Standard Deviation of Log Transformed Data	0.559				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.673				
Approximate Shapiro Wilk Test Statistic	0.494				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.293				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.798				
A-D Test Statistic	4.244				
A-D Critical (0.95) Value	0.761				
K-S Test Statistic	0.179				
K-S Critical(0.95) Value	0.0887				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.958				
Approximate Shapiro Wilk Test Statistic	0.927				
Approximate Shapiro Wilk P Value	4.459E-06				
Lilliefors Test Statistic	0.12				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

Beryllium					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	40				
Minimum	0.0894				
Maximum	0.8				
Mean of Raw Data	0.246				
Standard Deviation of Raw Data	0.127				
Kstar	4.514				
Mean of Log Transformed Data	-1.516				
Standard Deviation of Log Transformed Data	0.471				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.895				
Approximate Shapiro Wilk Test Statistic	0.807				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.183				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.953				
A-D Test Statistic	3.797				
A-D Critical (0.95) Value	0.755				
K-S Test Statistic	0.18				
K-S Critical(0.95) Value	0.0881				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.956				
Approximate Shapiro Wilk Test Statistic	0.902				
Approximate Shapiro Wilk P Value	2.99E-09				
Lilliefors Test Statistic	0.204				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					
<b>Cadmium</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	26				
Minimum	0.0883				
Maximum	3.81				
Mean of Raw Data	0.306				
Standard Deviation of Raw Data	0.465				
Kstar	1.112				
Mean of Log Transformed Data	-1.683				
Standard Deviation of Log Transformed Data	0.876				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.691				
Approximate Shapiro Wilk Test Statistic	0.518				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.32				

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.892				
A-D Test Statistic	10.06				
A-D Critical (0.95) Value	0.779				
K-S Test Statistic	0.287				
K-S Critical(0.95) Value	0.0903				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.895				
Approximate Shapiro Wilk Test Statistic	0.791				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.298				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					
<b>Chromium</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	86				
Minimum	4.4				
Maximum	38.6				
Mean of Raw Data	11.58				
Standard Deviation of Raw Data	5.884				
Kstar	5.177				
Mean of Log Transformed Data	2.352				
Standard Deviation of Log Transformed Data	0.424				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.892				
Approximate Shapiro Wilk Test Statistic	0.804				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.165				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.956				
A-D Test Statistic	1.551				
A-D Critical (0.95) Value	0.754				
K-S Test Statistic	0.103				
K-S Critical(0.95) Value	0.088				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.987				
Approximate Shapiro Wilk Test Statistic	0.966				
Approximate Shapiro Wilk P Value	0.0599				
Lilliefors Test Statistic	0.0696				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data appear Lognormal at (0.05) Significance Level</b>					

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

<b>Cobalt</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	74				
Minimum	2.5				
Maximum	15.7				
Mean of Raw Data	5.113				
Standard Deviation of Raw Data	2.181				
Kstar	6.921				
Mean of Log Transformed Data	1.56				
Standard Deviation of Log Transformed Data	0.369				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.903				
Approximate Shapiro Wilk Test Statistic	0.827				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.163				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.952				
A-D Test Statistic	1.176				
A-D Critical (0.95) Value	0.753				
K-S Test Statistic	0.112				
K-S Critical(0.95) Value	0.088				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.984				
Approximate Shapiro Wilk Test Statistic	0.958				
Approximate Shapiro Wilk P Value	0.0111				
Lilliefors Test Statistic	0.0843				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data appear Lognormal at (0.05) Significance Level</b>					
<b>Copper</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	89				
Minimum	2.69				
Maximum	59				
Mean of Raw Data	13.94				
Standard Deviation of Raw Data	9.607				
Kstar	2.482				
Mean of Log Transformed Data	2.426				
Standard Deviation of Log Transformed Data	0.653				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.923				
Approximate Shapiro Wilk Test Statistic	0.858				
Approximate Shapiro Wilk P Value	4.663E-15				
Lilliefors Test Statistic	0.132				

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.991				
A-D Test Statistic	0.689				
A-D Critical (0.95) Value	0.762				
K-S Test Statistic	0.0891				
K-S Critical(0.95) Value	0.0888				
<b>Data appear Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.995				
Approximate Shapiro Wilk Test Statistic	0.977				
Approximate Shapiro Wilk P Value	0.356				
Lilliefors Test Statistic	0.0712				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data appear Lognormal at (0.05) Significance Level</b>					
<b>Lead</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	83				
Minimum	2.3				
Maximum	112				
Mean of Raw Data	13.07				
Standard Deviation of Raw Data	18.22				
Kstar	0.998				
Mean of Log Transformed Data	2.006				
Standard Deviation of Log Transformed Data	0.951				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.769				
Approximate Shapiro Wilk Test Statistic	0.608				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.302				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.949				
A-D Test Statistic	8.441				
A-D Critical (0.95) Value	0.782				
K-S Test Statistic	0.227				
K-S Critical(0.95) Value	0.0905				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.94				
Approximate Shapiro Wilk Test Statistic	0.866				
Approximate Shapiro Wilk P Value	4.885E-14				
Lilliefors Test Statistic	0.158				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

<b>Mercury</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	30				
Minimum	0.0039				
Maximum	0.324				
Mean of Raw Data	0.0811				
Standard Deviation of Raw Data	0.0425				
Kstar	2.197				
Mean of Log Transformed Data	-2.75				
Standard Deviation of Log Transformed Data	0.864				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.8				
Approximate Shapiro Wilk Test Statistic	0.674				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.37				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.744				
A-D Test Statistic	16.58				
A-D Critical (0.95) Value	0.763				
K-S Test Statistic	0.405				
K-S Critical(0.95) Value	0.0889				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.806				
Approximate Shapiro Wilk Test Statistic	0.655				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.396				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					
<b>Molybdenum</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	18				
Minimum	0.0777				
Maximum	2.5				
Mean of Raw Data	1.717				
Standard Deviation of Raw Data	1.122				
Kstar	0.872				
Mean of Log Transformed Data	-0.116				
Standard Deviation of Log Transformed Data	1.505				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.782				
Approximate Shapiro Wilk Test Statistic	0.585				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.427				

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.563				
A-D Test Statistic	20.5				
A-D Critical (0.95) Value	0.788				
K-S Test Statistic	0.436				
K-S Critical(0.95) Value	0.0909				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.799				
Approximate Shapiro Wilk Test Statistic	0.612				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.423				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					
<b>Nickel</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	85				
Minimum	2.5				
Maximum	27.2				
Mean of Raw Data	7.596				
Standard Deviation of Raw Data	4.766				
Kstar	3.166				
Mean of Log Transformed Data	1.866				
Standard Deviation of Log Transformed Data	0.561				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.912				
Approximate Shapiro Wilk Test Statistic	0.831				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.179				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.982				
A-D Test Statistic	1.43				
A-D Critical (0.95) Value	0.758				
K-S Test Statistic	0.105				
K-S Critical(0.95) Value	0.0884				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.988				
Approximate Shapiro Wilk Test Statistic	0.957				
Approximate Shapiro Wilk P Value	0.00919				
Lilliefors Test Statistic	0.0659				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data appear Lognormal at (0.05) Significance Level</b>					

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

Selenium					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	3				
Minimum	0.351				
Maximum	0.78				
Mean of Raw Data	0.455				
Standard Deviation of Raw Data	0.0767				
Kstar	33.33				
Mean of Log Transformed Data	-0.802				
Standard Deviation of Log Transformed Data	0.174				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.791				
Approximate Shapiro Wilk Test Statistic	0.638				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.401				
Lilliefors Critical (0.95) Value	0.0861				
Data not Normal at (0.05) Significance Level					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.782				
A-D Test Statistic	19.74				
A-D Critical (0.95) Value	0.75				
K-S Test Statistic	0.411				
K-S Critical(0.95) Value	0.0877				
Data not Gamma Distributed at (0.05) Significance Level					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.796				
Approximate Shapiro Wilk Test Statistic	0.634				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.414				
Lilliefors Critical (0.95) Value	0.0861				
Data not Lognormal at (0.05) Significance Level					
<b>Silver</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	10				
Minimum	0.117				
Maximum	2.5				
Mean of Raw Data	1.753				
Standard Deviation of Raw Data	1.084				
Kstar	1.024				
Mean of Log Transformed Data	0.0128				
Standard Deviation of Log Transformed Data	1.355				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.786				
Approximate Shapiro Wilk Test Statistic	0.593				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.425				

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.582				
A-D Test Statistic	20.91				
A-D Critical (0.95) Value	0.782				
K-S Test Statistic	0.43				
K-S Critical(0.95) Value	0.0905				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.786				
Approximate Shapiro Wilk Test Statistic	0.592				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.417				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					
<b>Thallium</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	2				
Minimum	0.232				
Maximum	0.3				
Mean of Raw Data	0.278				
Standard Deviation of Raw Data	0.0321				
Kstar	68.77				
Mean of Log Transformed Data	-1.289				
Standard Deviation of Log Transformed Data	0.121				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.775				
Approximate Shapiro Wilk Test Statistic	0.574				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.427				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.758				
A-D Test Statistic	21.99				
A-D Critical (0.95) Value	0.75				
K-S Test Statistic	0.429				
K-S Critical(0.95) Value	0.0877				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.775				
Approximate Shapiro Wilk Test Statistic	0.574				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.427				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

Vanadium					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	86				
Minimum	6.2				
Maximum	47.1				
Mean of Raw Data	18.99				
Standard Deviation of Raw Data	7.863				
Kstar	6.467				
Mean of Log Transformed Data	2.867				
Standard Deviation of Log Transformed Data	0.392				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.953				
Approximate Shapiro Wilk Test Statistic	0.905				
Approximate Shapiro Wilk P Value	6.6E-09				
Lilliefors Test Statistic	0.129				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.989				
A-D Test Statistic	0.684				
A-D Critical (0.95) Value	0.754				
K-S Test Statistic	0.086				
K-S Critical(0.95) Value	0.088				
<b>Data appear Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.996				
Approximate Shapiro Wilk Test Statistic	0.985				
Approximate Shapiro Wilk P Value	0.779				
Lilliefors Test Statistic	0.0615				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data appear Lognormal at (0.05) Significance Level</b>					
<b>Zinc</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	99				
Minimum	9.7				
Maximum	525				
Mean of Raw Data	46.62				
Standard Deviation of Raw Data	61.77				
Kstar	1.495				
Mean of Log Transformed Data	3.482				
Standard Deviation of Log Transformed Data	0.752				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.692				
Approximate Shapiro Wilk Test Statistic	0.522				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.275				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					

Appendix 3  
ProUCL Output of  
Goodness-of-Fit Test Statistics with Outliers

<b>Gamma Distribution Test Results</b>				
Correlation Coefficient R	0.861			
A-D Test Statistic	4.604			
A-D Critical (0.95) Value	0.77			
K-S Test Statistic	0.155			
K-S Critical(0.95) Value	0.0895			
<b>Data not Gamma Distributed at (0.05) Significance Level</b>				
<b>Lognormal Distribution Test Results</b>				
Correlation Coefficient R	0.966			
Approximate Shapiro Wilk Test Statistic	0.929			
Approximate Shapiro Wilk P Value	7.734E-06			
Lilliefors Test Statistic	0.0951			
Lilliefors Critical (0.95) Value	0.0861			
<b>Data not Lognormal at (0.05) Significance Level</b>				
<b>BaP-TEQ</b>				
<b>Raw Statistics</b>				
Number of Valid Observations	38			
Number of Distinct Observations	22			
Minimum	0.00106			
Maximum	0.179			
Mean of Raw Data	0.0075			
Standard Deviation of Raw Data	0.0289			
Kstar	0.473			
Mean of Log Transformed Data	-6.182			
Standard Deviation of Log Transformed Data	1.089			
<b>Normal Distribution Test Results</b>				
Correlation Coefficient R	0.445			
Shapiro Wilk Test Statistic	0.235			
Shapiro Wilk Critical (0.95) Value	0.938			
Approximate Shapiro Wilk P Value	0			
Lilliefors Test Statistic	0.419			
Lilliefors Critical (0.95) Value	0.144			
<b>Data not Normal at (0.05) Significance Level</b>				
<b>Gamma Distribution Test Results</b>				
Correlation Coefficient R	0.738			
A-D Test Statistic	7.362			
A-D Critical (0.95) Value	0.814			
K-S Test Statistic	0.322			
K-S Critical(0.95) Value	0.152			
<b>Data not Gamma Distributed at (0.05) Significance Level</b>				
<b>Lognormal Distribution Test Results</b>				
Correlation Coefficient R	0.816			
Shapiro Wilk Test Statistic	0.681			
Shapiro Wilk Critical (0.95) Value	0.938			
Approximate Shapiro Wilk P Value	1.224E-09			
Lilliefors Test Statistic	0.27			
Lilliefors Critical (0.95) Value	0.144			
<b>Data not Lognormal at (0.05) Significance Level</b>				

## **APPENDIX 4**

### **ProUCL Output of Goodness-of-Fit Test Statistics without Outliers**

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

<b>Antimony</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	3				
Minimum	0.306				
Maximum	0.741				
Mean of Raw Data	0.44				
Standard Deviation of Raw Data	0.0955				
Kstar	18.81				
Mean of Log Transformed Data	-0.847				
Standard Deviation of Log Transformed Data	0.236				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.796				
Approximate Shapiro Wilk Test Statistic	0.634				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.414				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.776				
A-D Test Statistic	20.66				
A-D Critical (0.95) Value	0.75				
K-S Test Statistic	0.421				
K-S Critical(0.95) Value	0.0877				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.793				
Approximate Shapiro Wilk Test Statistic	0.62				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.422				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					
<b>Arsenic</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	105				
Number of Missing Values	1				
Number of Distinct Observations	61				
Minimum	0.3				
Maximum	11.9				
Mean of Raw Data	1.992				
Standard Deviation of Raw Data	1.517				
Kstar	2.619				
Mean of Log Transformed Data	0.492				
Standard Deviation of Log Transformed Data	0.639				

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

<b>Normal Distribution Test Results</b>						
Correlation Coefficient R	0.814					
Approximate Shapiro Wilk Test Statistic	0.698					
Approximate Shapiro Wilk P Value	0					
Lilliefors Test Statistic	0.176					
Lilliefors Critical (0.95) Value	0.0865					
<b>Data not Normal at (0.05) Significance Level</b>						
<b>Gamma Distribution Test Results</b>						
Correlation Coefficient R	0.906					
A-D Test Statistic	1.569					
A-D Critical (0.95) Value	0.761					
K-S Test Statistic	0.0901					
K-S Critical(0.95) Value	0.0889					
<b>Data follow Appr. Gamma Distribution at (0.05) Significance Level</b>						
<b>Lognormal Distribution Test Results</b>						
Correlation Coefficient R	0.972					
Approximate Shapiro Wilk Test Statistic	0.947					
Approximate Shapiro Wilk P Value	0.0009523					
Lilliefors Test Statistic	0.112					
Lilliefors Critical (0.95) Value	0.0865					
<b>Data not Lognormal at (0.05) Significance Level</b>						
<b>Barium</b>						
<b>Raw Statistics</b>						
Number of Valid Observations	104					
Number of Missing Values	2					
Number of Distinct Observations	95					
Minimum	17.7					
Maximum	267					
Mean of Raw Data	61.58					
Standard Deviation of Raw Data	34.25					
Kstar	4.356					
Mean of Log Transformed Data	4.005					
Standard Deviation of Log Transformed Data	0.475					
<b>Normal Distribution Test Results</b>						
Correlation Coefficient R	0.868					
Approximate Shapiro Wilk Test Statistic	0.783					
Approximate Shapiro Wilk P Value	0					
Lilliefors Test Statistic	0.15					
Lilliefors Critical (0.95) Value	0.0869					
<b>Data not Normal at (0.05) Significance Level</b>						
<b>Gamma Distribution Test Results</b>						
Correlation Coefficient R	0.929					
A-D Test Statistic	0.826					
A-D Critical (0.95) Value	0.755					
K-S Test Statistic	0.091					
K-S Critical(0.95) Value	0.0887					
<b>Data follow Appr. Gamma Distribution at (0.05) Significance Level</b>						

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.986				
Approximate Shapiro Wilk Test Statistic	0.974				
Approximate Shapiro Wilk P Value	0.233				
Lilliefors Test Statistic	0.0764				
Lilliefors Critical (0.95) Value	0.0869				
<b>Data appear Lognormal at (0.05) Significance Level</b>					
<b>Beryllium</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	40				
Minimum	0.0894				
Maximum	0.8				
Mean of Raw Data	0.246				
Standard Deviation of Raw Data	0.127				
Kstar	4.514				
Mean of Log Transformed Data	-1.516				
Standard Deviation of Log Transformed Data	0.471				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.895				
Approximate Shapiro Wilk Test Statistic	0.807				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.183				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.953				
A-D Test Statistic	3.797				
A-D Critical (0.95) Value	0.755				
K-S Test Statistic	0.18				
K-S Critical(0.95) Value	0.0881				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.956				
Approximate Shapiro Wilk Test Statistic	0.902				
Approximate Shapiro Wilk P Value	2.99E-09				
Lilliefors Test Statistic	0.204				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					
<b>Cadmium</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	26				
Minimum	0.0883				

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

Maximum	3.81				
Mean of Raw Data	0.306				
Standard Deviation of Raw Data	0.465				
Kstar	1.112				
Mean of Log Transformed Data	-1.683				
Standard Deviation of Log Transformed Data	0.876				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.691				
Approximate Shapiro Wilk Test Statistic	0.518				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.32				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.892				
A-D Test Statistic	10.06				
A-D Critical (0.95) Value	0.779				
K-S Test Statistic	0.287				
K-S Critical(0.95) Value	0.0903				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.895				
Approximate Shapiro Wilk Test Statistic	0.791				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.298				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					
<b>Chromium</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	86				
Minimum	4.4				
Maximum	38.6				
Mean of Raw Data	11.58				
Standard Deviation of Raw Data	5.884				
Kstar	5.177				
Mean of Log Transformed Data	2.352				
Standard Deviation of Log Transformed Data	0.424				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.892				
Approximate Shapiro Wilk Test Statistic	0.804				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.165				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.956				
A-D Test Statistic	1.551				
A-D Critical (0.95) Value	0.754				
K-S Test Statistic	0.103				
K-S Critical(0.95) Value	0.088				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.987				
Approximate Shapiro Wilk Test Statistic	0.966				
Approximate Shapiro Wilk P Value	0.0599				
Lilliefors Test Statistic	0.0696				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data appear Lognormal at (0.05) Significance Level</b>					
<b>Cobalt</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	74				
Minimum	2.5				
Maximum	15.7				
Mean of Raw Data	5.113				
Standard Deviation of Raw Data	2.181				
Kstar	6.921				
Mean of Log Transformed Data	1.56				
Standard Deviation of Log Transformed Data	0.369				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.903				
Approximate Shapiro Wilk Test Statistic	0.827				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.163				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.952				
A-D Test Statistic	1.176				
A-D Critical (0.95) Value	0.753				
K-S Test Statistic	0.112				
K-S Critical(0.95) Value	0.088				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.984				
Approximate Shapiro Wilk Test Statistic	0.958				
Approximate Shapiro Wilk P Value	0.0111				
Lilliefors Test Statistic	0.0843				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data appear Lognormal at (0.05) Significance Level</b>					

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

<b>Copper</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	89				
Minimum	2.69				
Maximum	59				
Mean of Raw Data	13.94				
Standard Deviation of Raw Data	9.607				
Kstar	2.482				
Mean of Log Transformed Data	2.426				
Standard Deviation of Log Transformed Data	0.653				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.923				
Approximate Shapiro Wilk Test Statistic	0.858				
Approximate Shapiro Wilk P Value	4.663E-15				
Lilliefors Test Statistic	0.132				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.991				
A-D Test Statistic	0.689				
A-D Critical (0.95) Value	0.762				
K-S Test Statistic	0.0891				
K-S Critical(0.95) Value	0.0888				
<b>Data appear Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.995				
Approximate Shapiro Wilk Test Statistic	0.977				
Approximate Shapiro Wilk P Value	0.356				
Lilliefors Test Statistic	0.0712				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data appear Lognormal at (0.05) Significance Level</b>					
<b>Lead</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	83				
Minimum	2.3				
Maximum	112				
Mean of Raw Data	13.07				
Standard Deviation of Raw Data	18.22				
Kstar	0.998				
Mean of Log Transformed Data	2.006				
Standard Deviation of Log Transformed Data	0.951				
<b>Normal Distribution Test Results</b>					

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

Correlation Coefficient R	0.769				
Approximate Shapiro Wilk Test Statistic	0.608				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.302				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.949				
A-D Test Statistic	8.441				
A-D Critical (0.95) Value	0.782				
K-S Test Statistic	0.227				
K-S Critical(0.95) Value	0.0905				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.94				
Approximate Shapiro Wilk Test Statistic	0.866				
Approximate Shapiro Wilk P Value	4.885E-14				
Lilliefors Test Statistic	0.158				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Lognormal at (0.05) Significance Level</b>					
<b>Mercury</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	30				
Minimum	0.0039				
Maximum	0.324				
Mean of Raw Data	0.0811				
Standard Deviation of Raw Data	0.0425				
Kstar	2.197				
Mean of Log Transformed Data	-2.75				
Standard Deviation of Log Transformed Data	0.864				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.8				
Approximate Shapiro Wilk Test Statistic	0.674				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.37				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.744				
A-D Test Statistic	16.58				
A-D Critical (0.95) Value	0.763				
K-S Test Statistic	0.405				
K-S Critical(0.95) Value	0.0889				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

<b>Lognormal Distribution Test Results</b>						
Correlation Coefficient R	0.806					
Approximate Shapiro Wilk Test Statistic	0.655					
Approximate Shapiro Wilk P Value	0					
Lilliefors Test Statistic	0.396					
Lilliefors Critical (0.95) Value	0.0861					
<b>Data not Lognormal at (0.05) Significance Level</b>						
<b>Molybdenum</b>						
<b>Raw Statistics</b>						
Number of Valid Observations	106					
Number of Distinct Observations	18					
Minimum	0.0777					
Maximum	2.5					
Mean of Raw Data	1.717					
Standard Deviation of Raw Data	1.122					
Kstar	0.872					
Mean of Log Transformed Data	-0.116					
Standard Deviation of Log Transformed Data	1.505					
<b>Normal Distribution Test Results</b>						
Correlation Coefficient R	0.782					
Approximate Shapiro Wilk Test Statistic	0.585					
Approximate Shapiro Wilk P Value	0					
Lilliefors Test Statistic	0.427					
Lilliefors Critical (0.95) Value	0.0861					
<b>Data not Normal at (0.05) Significance Level</b>						
<b>Gamma Distribution Test Results</b>						
Correlation Coefficient R	0.563					
A-D Test Statistic	20.5					
A-D Critical (0.95) Value	0.788					
K-S Test Statistic	0.436					
K-S Critical(0.95) Value	0.0909					
<b>Data not Gamma Distributed at (0.05) Significance Level</b>						
<b>Lognormal Distribution Test Results</b>						
Correlation Coefficient R	0.799					
Approximate Shapiro Wilk Test Statistic	0.612					
Approximate Shapiro Wilk P Value	0					
Lilliefors Test Statistic	0.423					
Lilliefors Critical (0.95) Value	0.0861					
<b>Data not Lognormal at (0.05) Significance Level</b>						
<b>Nickel</b>						
<b>Raw Statistics</b>						
Number of Valid Observations	106					
Number of Distinct Observations	85					
Minimum	2.5					
Maximum	27.2					

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

Mean of Raw Data	7.596				
Standard Deviation of Raw Data	4.766				
Kstar	3.166				
Mean of Log Transformed Data	1.866				
Standard Deviation of Log Transformed Data	0.561				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.912				
Approximate Shapiro Wilk Test Statistic	0.831				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.179				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.982				
A-D Test Statistic	1.43				
A-D Critical (0.95) Value	0.758				
K-S Test Statistic	0.105				
K-S Critical(0.95) Value	0.0884				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.988				
Approximate Shapiro Wilk Test Statistic	0.957				
Approximate Shapiro Wilk P Value	0.00919				
Lilliefors Test Statistic	0.0659				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data appear Lognormal at (0.05) Significance Level</b>					
<b>Selenium</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	3				
Minimum	0.351				
Maximum	0.78				
Mean of Raw Data	0.455				
Standard Deviation of Raw Data	0.0767				
Kstar	33.33				
Mean of Log Transformed Data	-0.802				
Standard Deviation of Log Transformed Data	0.174				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.791				
Approximate Shapiro Wilk Test Statistic	0.638				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.401				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

Correlation Coefficient R	0.782				
A-D Test Statistic	19.74				
A-D Critical (0.95) Value	0.75				
K-S Test Statistic	0.411				
K-S Critical(0.95) Value	0.0877				
Data not Gamma Distributed at (0.05) Significance Level					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.796				
Approximate Shapiro Wilk Test Statistic	0.634				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.414				
Lilliefors Critical (0.95) Value	0.0861				
Data not Lognormal at (0.05) Significance Level					
<b>Silver</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	106				
Number of Distinct Observations	10				
Minimum	0.117				
Maximum	2.5				
Mean of Raw Data	1.753				
Standard Deviation of Raw Data	1.084				
Kstar	1.024				
Mean of Log Transformed Data	0.0128				
Standard Deviation of Log Transformed Data	1.355				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.786				
Approximate Shapiro Wilk Test Statistic	0.593				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.425				
Lilliefors Critical (0.95) Value	0.0861				
Data not Normal at (0.05) Significance Level					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.582				
A-D Test Statistic	20.91				
A-D Critical (0.95) Value	0.782				
K-S Test Statistic	0.43				
K-S Critical(0.95) Value	0.0905				
Data not Gamma Distributed at (0.05) Significance Level					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.786				
Approximate Shapiro Wilk Test Statistic	0.592				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.417				
Lilliefors Critical (0.95) Value	0.0861				
Data not Lognormal at (0.05) Significance Level					

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

<b>Thallium</b>						
<b>Raw Statistics</b>						
Number of Valid Observations	106					
Number of Distinct Observations	2					
Minimum	0.232					
Maximum	0.3					
Mean of Raw Data	0.278					
Standard Deviation of Raw Data	0.0321					
Kstar	68.77					
Mean of Log Transformed Data	-1.289					
Standard Deviation of Log Transformed Data	0.121					
<b>Normal Distribution Test Results</b>						
Correlation Coefficient R	0.775					
Approximate Shapiro Wilk Test Statistic	0.574					
Approximate Shapiro Wilk P Value	0					
Lilliefors Test Statistic	0.427					
Lilliefors Critical (0.95) Value	0.0861					
<b>Data not Normal at (0.05) Significance Level</b>						
<b>Gamma Distribution Test Results</b>						
Correlation Coefficient R	0.758					
A-D Test Statistic	21.99					
A-D Critical (0.95) Value	0.75					
K-S Test Statistic	0.429					
K-S Critical(0.95) Value	0.0877					
<b>Data not Gamma Distributed at (0.05) Significance Level</b>						
<b>Lognormal Distribution Test Results</b>						
Correlation Coefficient R	0.775					
Approximate Shapiro Wilk Test Statistic	0.574					
Approximate Shapiro Wilk P Value	0					
Lilliefors Test Statistic	0.427					
Lilliefors Critical (0.95) Value	0.0861					
<b>Data not Lognormal at (0.05) Significance Level</b>						
<b>Vanadium</b>						
<b>Raw Statistics</b>						
Number of Valid Observations	106					
Number of Distinct Observations	86					
Minimum	6.2					
Maximum	47.1					
Mean of Raw Data	18.99					
Standard Deviation of Raw Data	7.863					
Kstar	6.467					
Mean of Log Transformed Data	2.867					
Standard Deviation of Log Transformed Data	0.392					
<b>Normal Distribution Test Results</b>						
Correlation Coefficient R	0.953					

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

Approximate Shapiro Wilk Test Statistic	0.905				
Approximate Shapiro Wilk P Value	6.6E-09				
Lilliefors Test Statistic	0.129				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.989				
A-D Test Statistic	0.684				
A-D Critical (0.95) Value	0.754				
K-S Test Statistic	0.086				
K-S Critical(0.95) Value	0.088				
<b>Data appear Gamma Distributed at (0.05) Significance Level</b>					
<b>Lognormal Distribution Test Results</b>					
Correlation Coefficient R	0.996				
Approximate Shapiro Wilk Test Statistic	0.985				
Approximate Shapiro Wilk P Value	0.779				
Lilliefors Test Statistic	0.0615				
Lilliefors Critical (0.95) Value	0.0861				
<b>Data appear Lognormal at (0.05) Significance Level</b>					
<b>Zinc</b>					
<b>Raw Statistics</b>					
Number of Valid Observations	105				
Number of Missing Values	1				
Number of Distinct Observations	98				
Minimum	9.7				
Maximum	291				
Mean of Raw Data	42.07				
Standard Deviation of Raw Data	40.39				
Kstar	1.862				
Mean of Log Transformed Data	3.455				
Standard Deviation of Log Transformed Data	0.704				
<b>Normal Distribution Test Results</b>					
Correlation Coefficient R	0.816				
Approximate Shapiro Wilk Test Statistic	0.693				
Approximate Shapiro Wilk P Value	0				
Lilliefors Test Statistic	0.224				
Lilliefors Critical (0.95) Value	0.0865				
<b>Data not Normal at (0.05) Significance Level</b>					
<b>Gamma Distribution Test Results</b>					
Correlation Coefficient R	0.946				
A-D Test Statistic	3.522				
A-D Critical (0.95) Value	0.766				
K-S Test Statistic	0.124				
K-S Critical(0.95) Value	0.0894				
<b>Data not Gamma Distributed at (0.05) Significance Level</b>					

Appendix 4  
ProUCL Output of  
Goodness-of-Fit Test Statistics without Outliers

<b>Lognormal Distribution Test Results</b>						
Correlation Coefficient R	0.975					
Approximate Shapiro Wilk Test Statistic	0.939					
Approximate Shapiro Wilk P Value	0.0001321					
Lilliefors Test Statistic	0.1					
Lilliefors Critical (0.95) Value	0.0865					
<b>Data not Lognormal at (0.05) Significance Level</b>						
<b>BaP-TEQ</b>						
<b>Raw Statistics</b>						
Number of Valid Observations	35					
Number of Distinct Observations	22					
Minimum	0.00106					
Maximum	0.179					
Mean of Raw Data	0.00805					
Standard Deviation of Raw Data	0.0301					
Kstar	0.467					
Mean of Log Transformed Data	-6.125					
Standard Deviation of Log Transformed Data	1.117					
<b>Normal Distribution Test Results</b>						
Correlation Coefficient R	0.457					
Shapiro Wilk Test Statistic	0.244					
Shapiro Wilk Critical (0.95) Value	0.934					
Approximate Shapiro Wilk P Value	2.22E-16					
Lilliefors Test Statistic	0.416					
Lilliefors Critical (0.95) Value	0.15					
<b>Data not Normal at (0.05) Significance Level</b>						
<b>Gamma Distribution Test Results</b>						
Correlation Coefficient R	0.751					
A-D Test Statistic	6.45					
A-D Critical (0.95) Value	0.815					
K-S Test Statistic	0.316					
K-S Critical(0.95) Value	0.157					
<b>Data not Gamma Distributed at (0.05) Significance Level</b>						
<b>Lognormal Distribution Test Results</b>						
Correlation Coefficient R	0.832					
Shapiro Wilk Test Statistic	0.705					
Shapiro Wilk Critical (0.95) Value	0.934					
Approximate Shapiro Wilk P Value	2.635E-08					
Lilliefors Test Statistic	0.258					
Lilliefors Critical (0.95) Value	0.15					
<b>Data not Lognormal at (0.05) Significance Level</b>						

## **APPENDIX 5**

### **ProUCL Output of UTL Evaluation**

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

<b>Antimony</b>			
<b>General Statistics</b>			
Number of Valid Data	106	Number of Detected Data	1
Number of Distinct Detected Data	1	Number of Non-Detect Data	105
<b>Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!</b>			
<b>It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).</b>			
<b>The data set for variable Antimony was not processed!</b>			
<b>Arsenic</b>			
<b>General Statistics</b>			
Number of Valid Data	105	Number of Detected Data	102
Number of Distinct Detected Data	61	Number of Non-Detect Data	3
Tolerance Factor	2.671	Percent Non-Detects	2.86%
Number of Missing Values	1		
<b>Raw Statistics</b>		<b>Log-transformed Statistics</b>	
Minimum Detected	0.3	Minimum Detected	-1.204
Maximum Detected	11.9	Maximum Detected	2.477
Mean of Detected	2.041	Mean of Detected	0.542
SD of Detected	1.511	SD of Detected	0.577
Minimum Non-Detect	0.3	Minimum Non-Detect	-1.204
Maximum Non-Detect	0.3	Maximum Non-Detect	-1.204
<b>Background Statistics</b>			
<b>Normal Distribution Test with Detected Values Only</b>		<b>Lognormal Distribution Test with Detected Values Only</b>	
Lilliefors Test Statistic	0.181	Lilliefors Test Statistic	0.0886
5% Lilliefors Critical Value	0.0877	5% Lilliefors Critical Value	0.0877
<b>Data not Normal at 5% Significance Level</b>		<b>Data not Lognormal at 5% Significance Level</b>	
<b>Assuming Normal Distribution</b>		<b>Assuming Lognormal Distribution</b>	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	1.987	Mean (Log Scale)	0.472
SD	1.522	SD (Log Scale)	0.7
95% UTL 99% Coverage	6.053	95% UTL 99% Coverage	10.38
95% UPL (t)	4.526	95% UPL (t)	5.148
90% Percentile (z)	3.938	90% Percentile (z)	3.929
95% Percentile (z)	4.491	95% Percentile (z)	5.067
99% Percentile (z)	5.529	99% Percentile (z)	8.162
<b>Maximum Likelihood Estimate(MLE) Method</b>		<b>Log ROS Method</b>	
Mean	1.969	Mean in Original Scale	1.995
SD	1.545	SD in Original Scale	1.513
95% UTL with 99% Coverage	6.095	95% UTL with 99% Coverage	8.536
		95% BCA UTL with 99% Coverage	11.9
		95% Bootstrap (%) UTL with 99% Coverage	11.9
95% UPL (t)	4.545	95% UPL (t)	4.605
90% Percentile (z)	3.949	90% Percentile (z)	3.632
95% Percentile (z)	4.51	95% Percentile (z)	4.542
99% Percentile (z)	5.563	99% Percentile (z)	6.907

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

<b>Gamma Distribution Test with Detected Values Only</b>		<b>Data Distribution Test with Detected Values Only</b>	
k star (bias corrected)	2.978	<b>Data do not follow a Discernable Distribution (0.05)</b>	
Theta Star	0.685		
nu star	607.6		
A-D Test Statistic	1.627	<b>Nonparametric Statistics</b>	
5% A-D Critical Value	0.758	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.101	Mean	1.992
5% K-S Critical Value	0.0895	SD	1.51
<b>Data not Gamma Distributed at 5% Significance Level</b>		SE of Mean	0.148
		95% KM UTL with 99% Coverage	6.025
<b>Assuming Gamma Distribution</b>		95% KM Chebyshev UPL	8.605
Gamma ROS Statistics with Extrapolated Data		95% KM UPL (t)	4.51
Mean	1.983	90% Percentile (z)	3.927
Median	1.66	95% Percentile (z)	4.476
SD	1.528	99% Percentile (z)	5.505
k star	1.015		
Theta star	1.953	<b>Gamma ROS Limits with Extrapolated Data</b>	
Nu star	213.2	95% Wilson Hilferty (WH) Approx. Gamma UPL	4.962
95% Percentile of Chisquare (2k)	6.051	95% Hawkins Wixley (HW) Approx. Gamma UPL	5.684
		95% WH Approx. Gamma UTL with 99% Coverage	8.224
90% Percentile	4.549	95% HW Approx. Gamma UTL with 99% Coverage	10.41
95% Percentile	5.909		
99% Percentile	9.063		
<b>Note: DL/2 is not a recommended method.</b>			
<b>Barium</b>			
<b>General Statistics</b>			
Total Number of Observations	104	Number of Distinct Observations	95
Tolerance Factor	2.672	Number of Missing Values	2
<b>Raw Statistics</b>		<b>Log-Transformed Statistics</b>	
Minimum	17.7	Minimum	2.874
Maximum	267	Maximum	5.587
Second Largest	203	Second Largest	5.313
First Quartile	41.25	First Quartile	3.72
Median	56	Median	4.025
Third Quartile	74.85	Third Quartile	4.315
Mean	61.58	Mean	4.005
SD	34.25	SD	0.475
Coefficient of Variation	0.556		
Skewness	2.953		
<b>Background Statistics</b>			
<b>Normal Distribution Test</b>		<b>Lognormal Distribution Test</b>	
Lilliefors Test Statistic	0.15	Lilliefors Test Statistic	0.0764
Lilliefors Critical Value	0.0869	Lilliefors Critical Value	0.0869
<b>Data not Normal at 5% Significance Level</b>		<b>Data appear Lognormal at 5% Significance Level</b>	

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

Assuming Normal Distribution			Assuming Lognormal Distribution		
95% UTL with 99% Coverage	153.1		95% UTL with 99% Coverage	195.4	
95% UPL (t)	118.7		95% UPL (t)	121.2	
90% Percentile (z)	105.5		90% Percentile (z)	100.9	
95% Percentile (z)	117.9		95% Percentile (z)	119.9	
99% Percentile (z)	141.3		99% Percentile (z)	165.8	
<b>Gamma Distribution Test</b>			<b>Data Distribution Test</b>		
k star	4.356		<b>Data appear Lognormal at 5% Significance Level</b>		
Theta Star	14.14				
MLE of Mean	61.58				
MLE of Standard Deviation	29.51				
nu star	906				
A-D Test Statistic	0.826		<b>Nonparametric Statistics</b>		
5% A-D Critical Value	0.755		90% Percentile	87.05	
K-S Test Statistic	0.091		95% Percentile	106.7	
5% K-S Critical Value	0.0887		99% Percentile	201.6	
<b>Data not Gamma Distributed at 5% Significance Level</b>					
<b>Assuming Gamma Distribution</b>			95% UTL with 99% Coverage	267	
90% Percentile	101.1		95% Percentile Bootstrap UTL with 99% Coverage	267	
95% Percentile	116.7		95% BCA Bootstrap UTL with 99% Coverage	267	
99% Percentile	150		95% UPL	109.5	
95% WH Approx. Gamma UPL	116.6		95% Chebyshev UPL	211.6	
95% HW Approx. Gamma UPL	117.3		Upper Threshold Limit Based upon IQR	125.3	
95% WH Approx. Gamma UTL with 99% Coverage	167.4				
95% HW Approx. Gamma UTL with 99% Coverage	172.2				
<b>Beryllium</b>					
<b>General Statistics</b>					
Number of Valid Data	106		Number of Detected Data	88	
Number of Distinct Detected Data	38		Number of Non-Detect Data	18	
Tolerance Factor	2.669		Percent Non-Detects	16.98%	
<b>Raw Statistics</b>			<b>Log-transformed Statistics</b>		
Minimum Detected	0.182		Minimum Detected	-1.704	
Maximum Detected	0.8		Maximum Detected	-0.223	
Mean of Detected	0.276		Mean of Detected	-1.353	
SD of Detected	0.119		SD of Detected	0.333	
Minimum Non-Detect	0.0894		Minimum Non-Detect	-2.415	
Maximum Non-Detect	0.1		Maximum Non-Detect	-2.303	
<b>Data with Multiple Detection Limits</b>			<b>Single Detection Limit Scenario</b>		
<b>Note: Data have multiple DLs - Use of KM Method is recommended</b>			Number treated as Non-Detect with Single DL	18	
<b>For all methods (except KM, DL/2, and ROS Methods),</b>			Number treated as Detected with Single DL	88	
<b>Observations &lt; Largest ND are treated as NDs</b>			Single DL Non-Detect Percentage	16.98%	
<b>Background Statistics</b>					
<b>Normal Distribution Test with Detected Values Only</b>			<b>Lognormal Distribution Test with Detected Values Only</b>		
Lilliefors Test Statistic	0.237		Lilliefors Test Statistic	0.19	

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

5% Lilliefors Critical Value	0.0944	5% Lilliefors Critical Value	0.0944
<b>Data not Normal at 5% Significance Level</b>		<b>Data not Lognormal at 5% Significance Level</b>	
<b>Assuming Normal Distribution</b>		<b>Assuming Lognormal Distribution</b>	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.237	Mean (Log Scale)	-1.633
SD	0.138	SD (Log Scale)	0.692
95% UTL 99% Coverage	0.605	95% UTL 99% Coverage	1.238
95% UPL (t)	0.467	95% UPL (t)	0.619
90% Percentile (z)	0.414	90% Percentile (z)	0.474
95% Percentile (z)	0.464	95% Percentile (z)	0.609
99% Percentile (z)	0.558	99% Percentile (z)	0.977
<b>Maximum Likelihood Estimate(MLE) Method</b>		<b>Log ROS Method</b>	
Mean	0.232	Mean in Original Scale	0.25
SD	0.147	SD in Original Scale	0.122
95% UTL with 99% Coverage	0.624	95% UTL with 99% Coverage	0.687
		95% BCA UTL with 99% Coverage	0.795
		95% Bootstrap (%) UTL with 99% Coverage	0.8
95% UPL (t)	0.477	95% UPL (t)	0.455
90% Percentile (z)	0.42	90% Percentile (z)	0.388
95% Percentile (z)	0.474	95% Percentile (z)	0.451
99% Percentile (z)	0.574	99% Percentile (z)	0.597
<b>Gamma Distribution Test with Detected Values Only</b>		<b>Data Distribution Test with Detected Values Only</b>	
k star (bias corrected)	7.677	<b>Data do not follow a Discernable Distribution (0.05)</b>	
Theta Star	0.0359		
nu star	1351		
A-D Test Statistic	6.767	<b>Nonparametric Statistics</b>	
5% A-D Critical Value	0.753	<b>Kaplan-Meier (KM) Method</b>	
K-S Test Statistic	0.201	Mean	0.26
5% K-S Critical Value	0.0954	SD	0.113
<b>Data not Gamma Distributed at 5% Significance Level</b>		SE of Mean	0.0111
<b>Assuming Gamma Distribution</b>		95% KM UTL with 99% Coverage	0.562
Gamma ROS Statistics with Extrapolated Data		95% KM Chebyshev UPL	0.756
Mean	0.232	95% KM UPL (t)	0.449
Median	0.206	90% Percentile (z)	0.405
SD	0.145	95% Percentile (z)	0.446
k star	0.512	99% Percentile (z)	0.523
Theta star	0.453	<b>Gamma ROS Limits with Extrapolated Data</b>	
Nu star	108.6	95% Wilson Hilferty (WH) Approx. Gamma UPL	0.742
95% Percentile of Chisquare (2k)	3.903	95% Hawkins Wixley (HW) Approx. Gamma UPL	0.961
		95% WH Approx. Gamma UTL with 99% Coverage	1.379
90% Percentile	0.625	95% HW Approx. Gamma UTL with 99% Coverage	2.113
95% Percentile	0.884		
99% Percentile	1.52		
<b>Note: DL/2 is not a recommended method.</b>			

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

<b>Cadmium</b>			
<b>General Statistics</b>			
Number of Valid Data	106	Number of Detected Data	49
Number of Distinct Detected Data	24	Number of Non-Detect Data	57
Tolerance Factor	2.669	Percent Non-Detects	53.77%
<b>Raw Statistics</b>		<b>Log-transformed Statistics</b>	
Minimum Detected	0.105	Minimum Detected	-2.254
Maximum Detected	3.81	Maximum Detected	1.338
Mean of Detected	0.551	Mean of Detected	-0.917
SD of Detected	0.599	SD of Detected	0.749
Minimum Non-Detect	0.0883	Minimum Non-Detect	-2.427
Maximum Non-Detect	0.1	Maximum Non-Detect	-2.303
<b>Data with Multiple Detection Limits</b>		<b>Single Detection Limit Scenario</b>	
Note: Data have multiple DLs - Use of KM Method is recommended		Number treated as Non-Detect with Single DL	57
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected with Single DL	49
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	53.77%
<b>Background Statistics</b>			
<b>Normal Distribution Test with Detected Values Only</b>		<b>Lognormal Distribution Test with Detected Values Only</b>	
Shapiro Wilk Test Statistic	0.623	Shapiro Wilk Test Statistic	0.962
5% Shapiro Wilk Critical Value	0.947	5% Shapiro Wilk Critical Value	0.947
<b>Data not Normal at 5% Significance Level</b>		<b>Data appear Lognormal at 5% Significance Level</b>	
<b>Assuming Normal Distribution</b>		<b>Assuming Lognormal Distribution</b>	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.28	Mean (Log Scale)	-2.056
SD	0.477	SD (Log Scale)	1.177
95% UTL 99% Coverage	1.554	95% UTL 99% Coverage	2.958
95% UPL (t)	1.076	95% UPL (t)	0.91
90% Percentile (z)	0.892	90% Percentile (z)	0.578
95% Percentile (z)	1.065	95% Percentile (z)	0.887
99% Percentile (z)	1.39	99% Percentile (z)	1.977
<b>Maximum Likelihood Estimate(MLE) Method</b>		<b>Log ROS Method</b>	
Mean	-0.0672	Mean in Original Scale	0.288
SD	0.794	SD in Original Scale	0.474
95% UTL with 99% Coverage	2.052	95% UTL with 99% Coverage	4.055
		95% BCA UTL with 99% Coverage	3.81
		95% Bootstrap (%) UTL with 99% Coverage	3.81
95% UPL (t)	1.257	95% UPL (t)	1.114
90% Percentile (z)	0.95	90% Percentile (z)	0.677
95% Percentile (z)	1.239	95% Percentile (z)	1.082
99% Percentile (z)	1.78	99% Percentile (z)	2.607
<b>Gamma Distribution Test with Detected Values Only</b>		<b>Data Distribution Test with Detected Values Only</b>	
k star (bias corrected)	1.62	<b>Data appear Lognormal at 5% Significance Level</b>	
Theta Star	0.34		
nu star	158.7		
A-D Test Statistic	1.429	<b>Nonparametric Statistics</b>	

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

5% A-D Critical Value	0.765	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.165	Mean	0.311
5% K-S Critical Value	0.129	SD	0.461
<b>Data not Gamma Distributed at 5% Significance Level</b>		SE of Mean	0.0452
		95% KM UTL with 99% Coverage	1.54
<b>Assuming Gamma Distribution</b>		95% KM Chebyshev UPL	2.328
Gamma ROS Statistics with Extrapolated Data		95% KM UPL (t)	1.079
Mean	0.254	90% Percentile (z)	0.901
Median	0.000001	95% Percentile (z)	1.068
SD	0.49	99% Percentile (z)	1.382
k star	0.125		
Theta star	2.038	<b>Gamma ROS Limits with Extrapolated Data</b>	
Nu star	26.47	95% Wilson Hilferty (WH) Approx. Gamma UPL	1.083
95% Percentile of Chisquare (2k)	1.417	95% Hawkins Wixley (HW) Approx. Gamma UPL	1.292
		95% WH Approx. Gamma UTL with 99% Coverage	2.919
90% Percentile	0.729	95% HW Approx. Gamma UTL with 99% Coverage	4.69
95% Percentile	1.445		
99% Percentile	3.609		
<b>Note: DL/2 is not a recommended method.</b>			
<b>Chromium</b>			
<b>General Statistics</b>			
Total Number of Observations	106	Number of Distinct Observations	86
Tolerance Factor	2.669		
<b>Raw Statistics</b>		<b>Log-Transformed Statistics</b>	
Minimum	4.4	Minimum	1.482
Maximum	38.6	Maximum	3.653
Second Largest	36.5	Second Largest	3.597
First Quartile	8.013	First Quartile	2.081
Median	10.25	Median	2.327
Third Quartile	13.08	Third Quartile	2.571
Mean	11.58	Mean	2.352
SD	5.884	SD	0.424
Coefficient of Variation	0.508		
Skewness	2.235		
<b>Background Statistics</b>			
<b>Normal Distribution Test</b>		<b>Lognormal Distribution Test</b>	
Lilliefors Test Statistic	0.165	Lilliefors Test Statistic	0.0696
Lilliefors Critical Value	0.0861	Lilliefors Critical Value	0.0861
<b>Data not Normal at 5% Significance Level</b>		<b>Data appear Lognormal at 5% Significance Level</b>	
<b>Assuming Normal Distribution</b>		<b>Assuming Lognormal Distribution</b>	
95% UTL with 99% Coverage	27.28	95% UTL with 99% Coverage	32.54
95% UPL (t)	21.39	95% UPL (t)	21.29
90% Percentile (z)	19.12	90% Percentile (z)	18.08
95% Percentile (z)	21.25	95% Percentile (z)	21.09
99% Percentile (z)	25.26	99% Percentile (z)	28.14

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

Gamma Distribution Test		Data Distribution Test	
k star	5.177	<b>Data appear Lognormal at 5% Significance Level</b>	
Theta Star	2.236		
MLE of Mean	11.58		
MLE of Standard Deviation	5.088		
nu star	1098		
A-D Test Statistic	1.551	Nonparametric Statistics	
5% A-D Critical Value	0.754	90% Percentile	17.5
K-S Test Statistic	0.103	95% Percentile	21.5
5% K-S Critical Value	0.088	99% Percentile	36.14
<b>Data not Gamma Distributed at 5% Significance Level</b>			
Assuming Gamma Distribution		95% UTL with 99% Coverage	38.6
90% Percentile	18.39	95% Percentile Bootstrap UTL with 99% Coverage	38.6
95% Percentile	21.01	95% BCA Bootstrap UTL with 99% Coverage	38.6
99% Percentile	26.55	95% UPL	21.6
		95% Chebyshev UPL	37.34
95% WH Approx. Gamma UPL	21.01	Upper Threshold Limit Based upon IQR	20.67
95% HW Approx. Gamma UPL	21.04		
95% WH Approx. Gamma UTL with 99% Coverage	29.43		
95% HW Approx. Gamma UTL with 99% Coverage	30.01		
<b>Cobalt</b>			
General Statistics			
Number of Valid Data	106	Number of Detected Data	102
Number of Distinct Detected Data	74	Number of Non-Detect Data	4
Tolerance Factor	2.669	Percent Non-Detects	3.77%
Raw Statistics		Log-transformed Statistics	
Minimum Detected	2.5	Minimum Detected	0.916
Maximum Detected	15.7	Maximum Detected	2.754
Mean of Detected	5.215	Mean of Detected	1.585
SD of Detected	2.16	SD of Detected	0.353
Minimum Non-Detect	2.5	Minimum Non-Detect	0.916
Maximum Non-Detect	2.5	Maximum Non-Detect	0.916
Background Statistics			
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.17	Lilliefors Test Statistic	0.0953
5% Lilliefors Critical Value	0.0877	5% Lilliefors Critical Value	0.0877
<b>Data not Normal at 5% Significance Level</b>		<b>Data not Lognormal at 5% Significance Level</b>	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	5.066	Mean (Log Scale)	1.534
SD	2.25	SD (Log Scale)	0.434
95% UTL 99% Coverage	11.07	95% UTL 99% Coverage	14.75
95% UPL (t)	8.818	95% UPL (t)	9.552
90% Percentile (z)	7.95	90% Percentile (z)	8.081

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

95% Percentile (z)	8.767	95% Percentile (z)	9.46
99% Percentile (z)	10.3	99% Percentile (z)	12.71
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	5.071	Mean in Original Scale	5.097
SD	2.239	SD in Original Scale	2.202
95% UTL with 99% Coverage	11.05	95% UTL with 99% Coverage	13.15
		95% BCA UTL with 99% Coverage	15.7
		95% Bootstrap (%) UTL with 99% Coverage	15.7
95% UPL (t)	8.803	95% UPL (t)	8.957
90% Percentile (z)	7.94	90% Percentile (z)	7.725
95% Percentile (z)	8.753	95% Percentile (z)	8.88
99% Percentile (z)	10.28	99% Percentile (z)	11.53
<b>Gamma Distribution Test with Detected Values Only</b>		<b>Data Distribution Test with Detected Values Only</b>	
k star (bias corrected)	7.461	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.699		
nu star	1522		
A-D Test Statistic	1.318	<b>Nonparametric Statistics</b>	
5% A-D Critical Value	0.753	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.122	Mean	5.113
5% K-S Critical Value	0.089	SD	2.171
<b>Data not Gamma Distributed at 5% Significance Level</b>		SE of Mean	0.212
<b>Assuming Gamma Distribution</b>		95% KM UTL with 99% Coverage	10.91
Gamma ROS Statistics with Extrapolated Data		95% KM Chebyshev UPL	14.62
Mean	5.021	95% KM UPL (t)	8.732
Median	4.74	90% Percentile (z)	7.895
SD	2.337	95% Percentile (z)	8.684
k star	1.125	99% Percentile (z)	10.16
Theta star	4.464	<b>Gamma ROS Limits with Extrapolated Data</b>	
Nu star	238.4	95% Wilson Hilferty (WH) Approx. Gamma UPL	11.5
95% Percentile of Chisquare (2k)	6.466	95% Hawkins Wixley (HW) Approx. Gamma UPL	13.64
		95% WH Approx. Gamma UTL with 99% Coverage	18.02
90% Percentile	11.23	95% HW Approx. Gamma UTL with 99% Coverage	23.83
95% Percentile	14.43		
99% Percentile	21.81		
<b>Note: DL/2 is not a recommended method.</b>			
<b>Copper</b>			
<b>General Statistics</b>			
Total Number of Observations	106	Number of Distinct Observations	89
Tolerance Factor	2.669		
<b>Raw Statistics</b>		<b>Log-Transformed Statistics</b>	
Minimum	2.69	Minimum	0.99
Maximum	59	Maximum	4.078
Second Largest	44.1	Second Largest	3.786
First Quartile	6.818	First Quartile	1.919
Median	12.15	Median	2.497

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

Third Quartile	18.35	Third Quartile	2.91
Mean	13.94	Mean	2.426
SD	9.607	SD	0.653
Coefficient of Variation	0.689		
Skewness	1.735		
<b>Background Statistics</b>			
<b>Normal Distribution Test</b>		<b>Lognormal Distribution Test</b>	
Lilliefors Test Statistic	0.132	Lilliefors Test Statistic	0.0712
Lilliefors Critical Value	0.0861	Lilliefors Critical Value	0.0861
<b>Data not Normal at 5% Significance Level</b>		<b>Data appear Lognormal at 5% Significance Level</b>	
<b>Assuming Normal Distribution</b>		<b>Assuming Lognormal Distribution</b>	
95% UTL with 99% Coverage	39.58	95% UTL with 99% Coverage	64.62
95% UPL (t)	29.96	95% UPL (t)	33.6
90% Percentile (z)	26.25	90% Percentile (z)	26.12
95% Percentile (z)	29.74	95% Percentile (z)	33.11
99% Percentile (z)	36.29	99% Percentile (z)	51.67
<b>Gamma Distribution Test</b>		<b>Data Distribution Test</b>	
k star	2.482	<b>Data Follow Appr. Gamma Distribution at 5% Significance Level</b>	
Theta Star	5.618		
MLE of Mean	13.94		
MLE of Standard Deviation	8.85		
nu star	526.1		
A-D Test Statistic	0.689	<b>Nonparametric Statistics</b>	
5% A-D Critical Value	0.762	90% Percentile	25.8
K-S Test Statistic	0.0891	95% Percentile	31.78
5% K-S Critical Value	0.0888	99% Percentile	43.79
<b>Data follow Appx. Gamma Distribution at 5% Significance Level</b>			
<b>Assuming Gamma Distribution</b>		95% UTL with 99% Coverage	59
90% Percentile	25.8	95% Percentile Bootstrap UTL with 99% Coverage	59
95% Percentile	30.94	95% BCA Bootstrap UTL with 99% Coverage	59
99% Percentile	42.2	95% UPL	34.32
		95% Chebyshev UPL	56.02
95% WH Approx. Gamma UPL	30.94	Upper Threshold Limit Based upon IQR	35.65
95% HW Approx. Gamma UPL	31.39		
95% WH Approx. Gamma UTL with 99% Coverage	48.4		
95% HW Approx. Gamma UTL with 99% Coverage	51.01		
<b>Lead</b>			
<b>General Statistics</b>			
Number of Valid Data	106	Number of Detected Data	100
Number of Distinct Detected Data	82	Number of Non-Detect Data	6
Tolerance Factor	2.669	Percent Non-Detects	5.66%
<b>Raw Statistics</b>		<b>Log-transformed Statistics</b>	
Minimum Detected	2.3	Minimum Detected	0.833
Maximum Detected	112	Maximum Detected	4.718

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

Mean of Detected	13.7	Mean of Detected	2.071
SD of Detected	18.57	SD of Detected	0.94
Minimum Non-Detect	2.5	Minimum Non-Detect	0.916
Maximum Non-Detect	2.5	Maximum Non-Detect	0.916
<b>Background Statistics</b>			
<b>Normal Distribution Test with Detected Values Only</b>		<b>Lognormal Distribution Test with Detected Values Only</b>	
Lilliefors Test Statistic	0.299	Lilliefors Test Statistic	0.161
5% Lilliefors Critical Value	0.0886	5% Lilliefors Critical Value	0.0886
<b>Data not Normal at 5% Significance Level</b>		<b>Data not Lognormal at 5% Significance Level</b>	
<b>Assuming Normal Distribution</b>		<b>Assuming Lognormal Distribution</b>	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	13	Mean (Log Scale)	1.966
SD	18.26	SD (Log Scale)	1.008
95% UTL 99% Coverage	61.73	95% UTL 99% Coverage	105.4
95% UPL (t)	43.44	95% UPL (t)	38.39
90% Percentile (z)	36.4	90% Percentile (z)	26.02
95% Percentile (z)	43.03	95% Percentile (z)	37.54
99% Percentile (z)	55.47	99% Percentile (z)	74.63
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	12.27	Mean in Original Scale	12.99
SD	19	SD in Original Scale	18.27
95% UTL with 99% Coverage	62.97	95% UTL with 99% Coverage	111.1
		95% BCA UTL with 99% Coverage	112
		95% Bootstrap (%) UTL with 99% Coverage	112
95% UPL (t)	43.95	95% UPL (t)	39.49
90% Percentile (z)	36.62	90% Percentile (z)	26.51
95% Percentile (z)	43.52	95% Percentile (z)	38.58
99% Percentile (z)	56.47	99% Percentile (z)	77.98
<b>Gamma Distribution Test with Detected Values Only</b>		<b>Data Distribution Test with Detected Values Only</b>	
k star (bias corrected)	1.025	<b>Data do not follow a Discernable Distribution (0.05)</b>	
Theta Star	13.36		
nu star	205.1		
A-D Test Statistic	7.995	<b>Nonparametric Statistics</b>	
5% A-D Critical Value	0.782	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.227	Mean	13.06
5% K-S Critical Value	0.092	SD	18.14
<b>Data not Gamma Distributed at 5% Significance Level</b>		SE of Mean	1.77
<b>Assuming Gamma Distribution</b>		95% KM UTL with 99% Coverage	61.46
Gamma ROS Statistics with Extrapolated Data		95% KM Chebyshev UPL	92.48
Mean	12.93	95% KM UPL (t)	43.29
Median	5.7	90% Percentile (z)	36.3
SD	18.31	95% Percentile (z)	42.89
k star	0.456	99% Percentile (z)	55.25
Theta star	28.32	<b>Gamma ROS Limits with Extrapolated Data</b>	
Nu star	96.77	95% Wilson Hilferty (WH) Approx. Gamma UPL	41.9
95% Percentile of Chisquare (2k)	3.622	95% Hawkins Wixley (HW) Approx. Gamma UPL	47.27

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

		95% WH Approx. Gamma UTL with 99% Coverage	83.28
90% Percentile	35.62	95% HW Approx. Gamma UTL with 99% Coverage	107
95% Percentile	51.29		
99% Percentile	90.15		
<b>Note: DL/2 is not a recommended method.</b>			
<b>Mercury</b>			
<b>General Statistics</b>			
Number of Valid Data	106	Number of Detected Data	30
Number of Distinct Detected Data	28	Number of Non-Detect Data	76
Tolerance Factor	2.669	Percent Non-Detects	71.70%
<b>Raw Statistics</b>		<b>Log-transformed Statistics</b>	
Minimum Detected	0.0175	Minimum Detected	-4.046
Maximum Detected	0.324	Maximum Detected	-1.127
Mean of Detected	0.0493	Mean of Detected	-3.342
SD of Detected	0.0599	SD of Detected	0.71
Minimum Non-Detect	0.0039	Minimum Non-Detect	-5.547
Maximum Non-Detect	0.1	Maximum Non-Detect	-2.303
<b>Data with Multiple Detection Limits</b>		<b>Single Detection Limit Scenario</b>	
<b>Note: Data have multiple DLs - Use of KM Method is recommended</b>		Number treated as Non-Detect with Single DL	103
<b>For all methods (except KM, DL/2, and ROS Methods),</b>		Number treated as Detected with Single DL	3
<b>Observations &lt; Largest ND are treated as NDs</b>		Single DL Non-Detect Percentage	97.17%
<b>Background Statistics</b>			
<b>Normal Distribution Test with Detected Values Only</b>		<b>Lognormal Distribution Test with Detected Values Only</b>	
Shapiro Wilk Test Statistic	0.54	Shapiro Wilk Test Statistic	0.84
5% Shapiro Wilk Critical Value	0.927	5% Shapiro Wilk Critical Value	0.927
<b>Data not Normal at 5% Significance Level</b>		<b>Data not Lognormal at 5% Significance Level</b>	
<b>Assuming Normal Distribution</b>		<b>Assuming Lognormal Distribution</b>	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0475	Mean (Log Scale)	-3.247
SD	0.0331	SD (Log Scale)	0.782
95% UTL 99% Coverage	0.136	95% UTL 99% Coverage	0.313
95% UPL (t)	0.103	95% UPL (t)	0.143
90% Percentile (z)	0.0899	90% Percentile (z)	0.106
95% Percentile (z)	0.102	95% Percentile (z)	0.141
99% Percentile (z)	0.124	99% Percentile (z)	0.24
<b>Maximum Likelihood Estimate(MLE) Method</b>		<b>Log ROS Method</b>	
Mean	-0.368	Mean in Original Scale	0.0351
SD	0.245	SD in Original Scale	0.0371
95% UTL with 99% Coverage	0.286	95% UTL with 99% Coverage	0.187
		95% BCA UTL with 99% Coverage	0.324
		95% Bootstrap (%) UTL with 99% Coverage	0.324
95% UPL (t)	0.0409	95% UPL (t)	0.0893
90% Percentile (z)	-0.0537	90% Percentile (z)	0.0672
95% Percentile (z)	0.0354	95% Percentile (z)	0.0878
99% Percentile (z)	0.202	99% Percentile (z)	0.145

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	1.511	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0326		
nu star	90.69		
A-D Test Statistic	2.521	<b>Nonparametric Statistics</b>	
5% A-D Critical Value	0.762	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.25	Mean	0.0355
5% K-S Critical Value	0.163	SD	0.0359
<b>Data not Gamma Distributed at 5% Significance Level</b>		SE of Mean	0.00443
		95% KM UTL with 99% Coverage	0.131
<b>Assuming Gamma Distribution</b>		95% KM Chebyshev UPL	0.193
Gamma ROS Statistics with Extrapolated Data		95% KM UPL (t)	0.0953
Mean	0.0393	90% Percentile (z)	0.0815
Median	0.0284	95% Percentile (z)	0.0945
SD	0.0429	99% Percentile (z)	0.119
k star	0.283		
Theta star	0.139	<b>Gamma ROS Limits with Extrapolated Data</b>	
Nu star	59.92	95% Wilson Hilferty (WH) Approx. Gamma UPL	0.16
95% Percentile of Chisquare (2k)	2.635	95% Hawkins Wixley (HW) Approx. Gamma UPL	0.21
		95% WH Approx. Gamma UTL with 99% Coverage	0.354
90% Percentile	0.117	95% HW Approx. Gamma UTL with 99% Coverage	0.575
95% Percentile	0.183		
99% Percentile	0.357		
<b>Note: DL/2 is not a recommended method.</b>			
<b>Molybdenum</b>			
<b>General Statistics</b>			
Number of Valid Data	106	Number of Detected Data	16
Number of Distinct Detected Data	16	Number of Non-Detect Data	90
Tolerance Factor	2.669	Percent Non-Detects	84.91%
<b>Raw Statistics</b>		<b>Log-transformed Statistics</b>	
Minimum Detected	0.0978	Minimum Detected	-2.325
Maximum Detected	0.625	Maximum Detected	-0.47
Mean of Detected	0.191	Mean of Detected	-1.8
SD of Detected	0.136	SD of Detected	0.492
Minimum Non-Detect	0.0777	Minimum Non-Detect	-2.555
Maximum Non-Detect	2.5	Maximum Non-Detect	0.916
<b>Data with Multiple Detection Limits</b>		<b>Single Detection Limit Scenario</b>	
<b>Note: Data have multiple DLs - Use of KM Method is recommended</b>		Number treated as Non-Detect with Single DL	106
<b>For all methods (except KM, DL/2, and ROS Methods),</b>		Number treated as Detected with Single DL	0
<b>Observations &lt; Largest ND are treated as NDs</b>		Single DL Non-Detect Percentage	100.00%
<b>Background Statistics</b>			
<b>Normal Distribution Test with Detected Values Only</b>		<b>Lognormal Distribution Test with Detected Values Only</b>	
Shapiro Wilk Test Statistic	0.629	Shapiro Wilk Test Statistic	0.816
5% Shapiro Wilk Critical Value	0.887	5% Shapiro Wilk Critical Value	0.887
<b>Data not Normal at 5% Significance Level</b>		<b>Data not Lognormal at 5% Significance Level</b>	

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.873	Mean (Log Scale)	-0.704
SD	0.544	SD (Log Scale)	1.404
95% UTL 99% Coverage	2.324	95% UTL 99% Coverage	20.94
95% UPL (t)	1.779	95% UPL (t)	5.134
90% Percentile (z)	1.57	90% Percentile (z)	2.987
95% Percentile (z)	1.767	95% Percentile (z)	4.974
99% Percentile (z)	2.138	99% Percentile (z)	12.95
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.111
		SD in Original Scale	0.109
		Mean in Log Scale	-2.564
		SD in Log Scale	0.867
		95% UTL 99% Coverage	0.778
		95% UPL (t)	0.327
		90% Percentile (z)	0.234
		95% Percentile (z)	0.32
		99% Percentile (z)	0.578
<b>Gamma Distribution Test with Detected Values Only</b>		<b>Data Distribution Test with Detected Values Only</b>	
k star (bias corrected)	2.987	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0639		
nu star	95.57		
A-D Test Statistic	1.555	<b>Nonparametric Statistics</b>	
5% A-D Critical Value	0.743	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.264	Mean	0.14
5% K-S Critical Value	0.216	SD	0.101
<b>Data not Gamma Distributed at 5% Significance Level</b>		SE of Mean	0.0176
		95% KM UTL with 99% Coverage	0.409
<b>Assuming Gamma Distribution</b>		95% KM Chebyshev UPL	0.581
Gamma ROS Statistics with Extrapolated Data		95% KM UPL (t)	0.308
Mean	0.0863	90% Percentile (z)	0.269
Median	0.000001	95% Percentile (z)	0.306
SD	0.121	99% Percentile (z)	0.374
k star	0.136		
Theta star	0.635	<b>Gamma ROS Limits with Extrapolated Data</b>	
Nu star	28.79	95% Wilson Hilferty (WH) Approx. Gamma UPL	0.384
95% Percentile of Chisquare (2k)	1.522	95% Hawkins Wixley (HW) Approx. Gamma UPL	0.465
		95% WH Approx. Gamma UTL with 99% Coverage	1.026
90% Percentile	0.252	95% HW Approx. Gamma UTL with 99% Coverage	1.667
95% Percentile	0.483		
99% Percentile	1.17		
<b>Note: DL/2 is not a recommended method.</b>			
<b>Nickel</b>			
<b>General Statistics</b>			
Number of Valid Data	106	Number of Detected Data	95
Number of Distinct Detected Data	84	Number of Non-Detect Data	11
Tolerance Factor	2.669	Percent Non-Detects	10.38%

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

Raw Statistics		Log-transformed Statistics	
Minimum Detected	3	Minimum Detected	1.099
Maximum Detected	27.2	Maximum Detected	3.303
Mean of Detected	8.186	Mean of Detected	1.976
SD of Detected	4.689	SD of Detected	0.484
Minimum Non-Detect	2.5	Minimum Non-Detect	0.916
Maximum Non-Detect	2.5	Maximum Non-Detect	0.916
Background Statistics			
Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Lilliefors Test Statistic	0.194	Lilliefors Test Statistic	0.105
5% Lilliefors Critical Value	0.0909	5% Lilliefors Critical Value	0.0909
<b>Data not Normal at 5% Significance Level</b>		<b>Data not Lognormal at 5% Significance Level</b>	
Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	7.466	Mean (Log Scale)	1.794
SD	4.919	SD (Log Scale)	0.706
95% UTL 99% Coverage	20.6	95% UTL 99% Coverage	39.54
95% UPL (t)	15.67	95% UPL (t)	19.5
90% Percentile (z)	13.77	90% Percentile (z)	14.86
95% Percentile (z)	15.56	95% Percentile (z)	19.2
99% Percentile (z)	18.91	99% Percentile (z)	31.05
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	7.306	Mean in Original Scale	7.586
SD	5.173	SD in Original Scale	4.779
95% UTL with 99% Coverage	21.11	95% UTL with 99% Coverage	29.75
		95% BCA UTL with 99% Coverage	27.2
		95% Bootstrap (%) UTL with 99% Coverage	27.2
95% UPL (t)	15.93	95% UPL (t)	16.74
90% Percentile (z)	13.94	90% Percentile (z)	13.41
95% Percentile (z)	15.81	95% Percentile (z)	16.52
99% Percentile (z)	19.34	99% Percentile (z)	24.44
Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	3.991	<b>Data do not follow a Discernable Distribution (0.05)</b>	
Theta Star	2.051		
nu star	758.3		
A-D Test Statistic	2.313	Nonparametric Statistics	
5% A-D Critical Value	0.756	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.135	Mean	7.648
5% K-S Critical Value	0.0921	SD	4.69
<b>Data not Gamma Distributed at 5% Significance Level</b>		SE of Mean	0.458
		95% KM UTL with 99% Coverage	20.17
		95% KM Chebyshev UPL	28.19
		95% KM UPL (t)	15.47
		90% Percentile (z)	13.66
		95% Percentile (z)	15.36
		99% Percentile (z)	18.56
Assuming Gamma Distribution			
Gamma ROS Statistics with Extrapolated Data			
Mean	7.336		
Median	6.145		
SD	5.097		

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

k star	0.393		
Theta star	18.68	<b>Gamma ROS Limits with Extrapolated Data</b>	
Nu star	83.28	95% Wilson Hilferty (WH) Approx. Gamma UPL	23.91
95% Percentile of Chisquare (2k)	3.285	95% Hawkins Wixley (HW) Approx. Gamma UPL	31.7
		95% WH Approx. Gamma UTL with 99% Coverage	45
90% Percentile	20.79	95% HW Approx. Gamma UTL with 99% Coverage	71.44
95% Percentile	30.67		
99% Percentile	55.58		
<b>Note: DL/2 is not a recommended method.</b>			
<b>Selenium</b>			
<b>General Statistics</b>			
Number of Valid Data	106	Number of Detected Data	1
Number of Distinct Detected Data	1	Number of Non-Detect Data	105
<b>Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set!</b>			
<b>It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV).</b>			
<b>The data set for variable Selenium was not processed!</b>			
<b>Silver</b>			
<b>General Statistics</b>			
Number of Valid Data	106	Number of Detected Data	9
Number of Distinct Detected Data	8	Number of Non-Detect Data	97
Tolerance Factor	2.669	Percent Non-Detects	91.51%
<b>Raw Statistics</b>		<b>Log-transformed Statistics</b>	
Minimum Detected	0.132	Minimum Detected	-2.025
Maximum Detected	1.29	Maximum Detected	0.255
Mean of Detected	0.582	Mean of Detected	-0.88
SD of Detected	0.469	SD of Detected	0.898
Minimum Non-Detect	0.117	Minimum Non-Detect	-2.146
Maximum Non-Detect	2.5	Maximum Non-Detect	0.916
<b>Data with Multiple Detection Limits</b>		<b>Single Detection Limit Scenario</b>	
<b>Note: Data have multiple DLs - Use of KM Method is recommended</b>		Number treated as Non-Detect with Single DL	106
<b>For all methods (except KM, DL/2, and ROS Methods),</b>		Number treated as Detected with Single DL	0
<b>Observations &lt; Largest ND are treated as NDs</b>		Single DL Non-Detect Percentage	100.00%
<b>Warning: There are only 9 Detected Values in this data</b>			
<b>Note: It should be noted that even though bootstrap may be performed on this data set</b>			
<b>the resulting calculations may not be reliable enough to draw conclusions</b>			
<b>It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.</b>			
<b>Background Statistics</b>			
<b>Normal Distribution Test with Detected Values Only</b>		<b>Lognormal Distribution Test with Detected Values Only</b>	
Shapiro Wilk Test Statistic	0.832	Shapiro Wilk Test Statistic	0.878

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

5% Shapiro Wilk Critical Value	0.829	5% Shapiro Wilk Critical Value	0.829
<b>Data appear Normal at 5% Significance Level</b>		<b>Data appear Lognormal at 5% Significance Level</b>	
<b>Assuming Normal Distribution</b>		<b>Assuming Lognormal Distribution</b>	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.901	Mean (Log Scale)	-0.622
SD	0.533	SD (Log Scale)	1.329
95% UTL 99% Coverage	2.322	95% UTL 99% Coverage	18.65
95% UPL (t)	1.789	95% UPL (t)	4.927
90% Percentile (z)	1.584	90% Percentile (z)	2.951
95% Percentile (z)	1.777	95% Percentile (z)	4.782
99% Percentile (z)	2.14	99% Percentile (z)	11.83
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
		Mean in Original Scale	0.184
		SD in Original Scale	0.445
		Mean in Log Scale	-3.451
		SD in Log Scale	2.015
		95% UTL 99% Coverage	6.87
		95% UPL (t)	0.913
		90% Percentile (z)	0.42
		95% Percentile (z)	0.873
		99% Percentile (z)	3.445
<b>Gamma Distribution Test with Detected Values Only</b>		<b>Data Distribution Test with Detected Values Only</b>	
k star (bias corrected)	1.159	<b>Data appear Normal at 5% Significance Level</b>	
Theta Star	0.502		
nu star	20.86		
A-D Test Statistic	0.606	<b>Nonparametric Statistics</b>	
5% A-D Critical Value	0.733	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.259	Mean	
5% K-S Critical Value	0.284	SD	
<b>Data appear Gamma Distributed at 5% Significance Level</b>		SE of Mean	
<b>Assuming Gamma Distribution</b>		95% KM UTL with 99% Coverage	
Gamma ROS Statistics with Extrapolated Data		95% KM Chebyshev UPL	
Mean	0.147	95% KM UPL (t)	
Median	0.000001	90% Percentile (z)	
SD	0.335	95% Percentile (z)	
k star	0.0956	99% Percentile (z)	
Theta star	1.541	<b>Gamma ROS Limits with Extrapolated Data</b>	
Nu star	20.26	95% Wilson Hilferty (WH) Approx. Gamma UPL	
95% Percentile of Chisquare (2k)	1.112	95% Hawkins Wixley (HW) Approx. Gamma UPL	
		95% WH Approx. Gamma UTL with 99% Coverage	
90% Percentile	0.384	95% HW Approx. Gamma UTL with 99% Coverage	
95% Percentile	0.857		
99% Percentile	2.393		
<b>Note: DL/2 is not a recommended method.</b>			

<b>Thallium</b>			
<b>General Statistics</b>			
Number of Valid Data	106	Number of Detected Data	0
Number of Distinct Detected Data	0	Number of Non-Detect Data	106
<b>Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!</b>			
<b>Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!</b>			
<b>The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).</b>			
<b>The data set for variable Thallium was not processed!</b>			
<b>Vanadium</b>			
<b>General Statistics</b>			
Total Number of Observations	106	Number of Distinct Observations	86
Tolerance Factor	2.669		
<b>Raw Statistics</b>		<b>Log-Transformed Statistics</b>	
Minimum	6.2	Minimum	1.825
Maximum	47.1	Maximum	3.852
Second Largest	44	Second Largest	3.784
First Quartile	14.03	First Quartile	2.641
Median	16.65	Median	2.812
Third Quartile	22.58	Third Quartile	3.117
Mean	18.99	Mean	2.867
SD	7.863	SD	0.392
Coefficient of Variation	0.414		
Skewness	1.276		
<b>Background Statistics</b>			
<b>Normal Distribution Test</b>		<b>Lognormal Distribution Test</b>	
Lilliefors Test Statistic	0.129	Lilliefors Test Statistic	0.0615
Lilliefors Critical Value	0.0861	Lilliefors Critical Value	0.0861
<b>Data not Normal at 5% Significance Level</b>		<b>Data appear Lognormal at 5% Significance Level</b>	
<b>Assuming Normal Distribution</b>		<b>Assuming Lognormal Distribution</b>	
95% UTL with 99% Coverage	39.97	95% UTL with 99% Coverage	50.07
95% UPL (t)	32.1	95% UPL (t)	33.81
90% Percentile (z)	29.07	90% Percentile (z)	29.06
95% Percentile (z)	31.92	95% Percentile (z)	33.51
99% Percentile (z)	37.28	99% Percentile (z)	43.78
<b>Gamma Distribution Test</b>		<b>Data Distribution Test</b>	
k star	6.467	<b>Data appear Gamma Distributed at 5% Significance Level</b>	
Theta Star	2.936		
MLE of Mean	18.99		
MLE of Standard Deviation	7.467		
nu star	1371		
A-D Test Statistic	0.684	<b>Nonparametric Statistics</b>	
5% A-D Critical Value	0.754	90% Percentile	28.95
K-S Test Statistic	0.086	95% Percentile	35.55

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

5% K-S Critical Value	0.088	99% Percentile	43.82
<b>Data appear Gamma Distributed at 5% Significance Level</b>			
<b>Assuming Gamma Distribution</b>			
		95% UTL with 99% Coverage	47.1
90% Percentile	28.96	95% Percentile Bootstrap UTL with 99% Coverage	47.1
95% Percentile	32.7	95% BCA Bootstrap UTL with 99% Coverage	47.1
99% Percentile	40.51	95% UPL	36.88
		95% Chebyshev UPL	53.42
95% WH Approx. Gamma UPL	32.76	Upper Threshold Limit Based upon IQR	35.4
95% HW Approx. Gamma UPL	32.96		
95% WH Approx. Gamma UTL with 99% Coverage	44.61		
95% HW Approx. Gamma UTL with 99% Coverage	45.66		
<b>Zinc</b>			
<b>General Statistics</b>			
Total Number of Observations	105	Number of Distinct Observations	98
Tolerance Factor	2.671	Number of Missing Values	1
<b>Raw Statistics</b>		<b>Log-Transformed Statistics</b>	
Minimum	9.7	Minimum	2.272
Maximum	291	Maximum	5.673
Second Largest	172	Second Largest	5.147
First Quartile	17.7	First Quartile	2.874
Median	29.8	Median	3.395
Third Quartile	46.4	Third Quartile	3.837
Mean	42.07	Mean	3.455
SD	40.39	SD	0.704
Coefficient of Variation	0.96		
Skewness	3.14		
<b>Background Statistics</b>			
<b>Normal Distribution Test</b>		<b>Lognormal Distribution Test</b>	
Lilliefors Test Statistic	0.224	Lilliefors Test Statistic	0.1
Lilliefors Critical Value	0.0865	Lilliefors Critical Value	0.0865
<b>Data not Normal at 5% Significance Level</b>		<b>Data not Lognormal at 5% Significance Level</b>	
<b>Assuming Normal Distribution</b>		<b>Assuming Lognormal Distribution</b>	
95% UTL with 99% Coverage	149.9	95% UTL with 99% Coverage	207.6
95% UPL (t)	109.4	95% UPL (t)	102.5
90% Percentile (z)	93.83	90% Percentile (z)	78.07
95% Percentile (z)	108.5	95% Percentile (z)	100.8
99% Percentile (z)	136	99% Percentile (z)	162.9
<b>Gamma Distribution Test</b>		<b>Data Distribution Test</b>	
k star	1.862	<b>Data do not follow a Discernable Distribution (0.05)</b>	
Theta Star	22.6		
MLE of Mean	42.07		
MLE of Standard Deviation	30.83		
nu star	390.9		
A-D Test Statistic	3.522	<b>Nonparametric Statistics</b>	
5% A-D Critical Value	0.766	90% Percentile	92.1

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

K-S Test Statistic	0.124	95% Percentile	112.8
5% K-S Critical Value	0.0894	99% Percentile	171.2
<b>Data not Gamma Distributed at 5% Significance Level</b>			
<b>Assuming Gamma Distribution</b>			
		95% UTL with 99% Coverage	291
90% Percentile	83.21	95% Percentile Bootstrap UTL with 99% Coverage	291
95% Percentile	102.1	95% BCA Bootstrap UTL with 99% Coverage	291
99% Percentile	144.1	95% UPL	117.5
		95% Chebyshev UPL	219
95% WH Approx. Gamma UPL	100.7	Upper Threshold Limit Based upon IQR	89.45
95% HW Approx. Gamma UPL	100.6		
95% WH Approx. Gamma UTL with 99% Coverage	165.7		
95% HW Approx. Gamma UTL with 99% Coverage	172.2		
<b>BaP-TEQ</b>			
<b>General Statistics</b>			
Number of Valid Data	35	Number of Detected Data	22
Number of Distinct Detected Data	22	Number of Non-Detect Data	13
Tolerance Factor	2.983	Percent Non-Detects	37.14%
<b>Raw Statistics</b>		<b>Log-transformed Statistics</b>	
Minimum Detected	0.00106	Minimum Detected	-6.849
Maximum Detected	0.179	Maximum Detected	-1.718
Mean of Detected	0.0122	Mean of Detected	-5.696
SD of Detected	0.0376	SD of Detected	1.226
Minimum Non-Detect	0.00106	Minimum Non-Detect	-6.849
Maximum Non-Detect	0.00106	Maximum Non-Detect	-6.849
<b>Background Statistics</b>			
<b>Normal Distribution Test with Detected Values Only</b>		<b>Lognormal Distribution Test with Detected Values Only</b>	
Shapiro Wilk Test Statistic	0.303	Shapiro Wilk Test Statistic	0.823
5% Shapiro Wilk Critical Value	0.911	5% Shapiro Wilk Critical Value	0.911
<b>Data not Normal at 5% Significance Level</b>		<b>Data not Lognormal at 5% Significance Level</b>	
<b>Assuming Normal Distribution</b>		<b>Assuming Lognormal Distribution</b>	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.00785	Mean (Log Scale)	-6.382
SD	0.0301	SD (Log Scale)	1.322
95% UTL 99% Coverage	0.0977	95% UTL 99% Coverage	0.0874
95% UPL (t)	0.0595	95% UPL (t)	0.0163
90% Percentile (z)	0.0464	90% Percentile (z)	0.00921
95% Percentile (z)	0.0574	95% Percentile (z)	0.0149
99% Percentile (z)	0.0779	99% Percentile (z)	0.0367
Maximum Likelihood Estimate(MLE) Method		Log ROS Method	
Mean	-0.00432	Mean in Original Scale	0.00774
SD	0.0392	SD in Original Scale	0.0301
95% UTL with 99% Coverage	0.113	95% UTL with 99% Coverage	0.267
		95% BCA UTL with 99% Coverage	0.179
		95% Bootstrap (%) UTL with 99% Coverage	0.179

**Appendix 5**  
**ProUCL Output of UTL Evaluation**

95% UPL (t)	0.0629	95% UPL (t)	0.0258
90% Percentile (z)	0.0459	90% Percentile (z)	0.0116
95% Percentile (z)	0.0601	95% Percentile (z)	0.0227
99% Percentile (z)	0.0868	99% Percentile (z)	0.0796
<b>Gamma Distribution Test with Detected Values Only</b>		<b>Data Distribution Test with Detected Values Only</b>	
k star (bias corrected)	0.457	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0266		
nu star	20.11		
A-D Test Statistic	3.184	<b>Nonparametric Statistics</b>	
5% A-D Critical Value	0.806	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.307	Mean	0.00805
5% K-S Critical Value	0.196	SD	0.0296
<b>Data not Gamma Distributed at 5% Significance Level</b>		SE of Mean	0.00513
<b>Assuming Gamma Distribution</b>		95% KM UTL with 99% Coverage	0.0965
Gamma ROS Statistics with Extrapolated Data		95% KM Chebyshev UPL	0.139
Mean	0.00765	95% KM UPL (t)	0.0589
Median	0.00127	90% Percentile (z)	0.046
SD	0.0302	95% Percentile (z)	0.0568
k star	0.195	99% Percentile (z)	0.077
Theta star	0.0392	<b>Gamma ROS Limits with Extrapolated Data</b>	
Nu star	13.67	95% Wilson Hilferty (WH) Approx. Gamma UPL	0.0259
95% Percentile of Chisquare (2k)	2.025	95% Hawkins Wixley (HW) Approx. Gamma UPL	0.0269
90% Percentile	0.0231	95% WH Approx. Gamma UTL with 99% Coverage	0.0823
95% Percentile	0.0397	95% HW Approx. Gamma UTL with 99% Coverage	0.111
99% Percentile	0.0854		
<b>Note: DL/2 is not a recommended method.</b>			

## **APPENDIX 6**

### **ProUCL Output of One Sample Proportion Test Results**

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Antimony (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24401 MARBELLA AVE	33	21	0.15	1.14	0.437	0.36	0.292	0.0509	6	0.182	0.00539	Reject H0, Conclude Site Proportion > 0.05	
24402 NEPTUNE AVE	48	1	0.31	0.31	0.31	0.31	1.12E-16	1.62E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 PANAMA AVE	127	84	0.31	2.1	0.997	0.95	0.454	0.0403	84	0.661		Reject H0, Conclude Site Proportion > 0.05	
24402 RAVENNA AVE	40	2	0.19	0.28	0.26	0.28	0.0381	0.00602	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 NEPTUNE AVE	46	40	0.31	1.99	1.055	1.03	0.432	0.0636	34	0.739	1.25E-34	Reject H0, Conclude Site Proportion > 0.05	
24403 RAVENNA AVE	62	2	0.31	0.62	0.315	0.31	0.0394	0.005	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24405 MARBELLA AVE	25	10	0.31	1.1	0.424	0.31	0.191	0.0381	1	0.04	0.723	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 MARBELLA AVE	40	4	0.31	0.8	0.33	0.31	0.0842	0.0133	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 NEPTUNE AVE	28	10	0.15	1.7	0.47	0.15	0.51	0.0963	8	0.286	4.92E-05	Reject H0, Conclude Site Proportion > 0.05	
24406 PANAMA AVE	23	6	0.19	4.3	0.805	0.31	1.226	0.256	4	0.174	0.0258	Reject H0, Conclude Site Proportion > 0.05	
24406 RAVENNA AVE	26	1	0.28	0.28	0.28	0.28	1.70E-16	3.33E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 NEPTUNE AVE	24	10	0.15	2.07	0.426	0.23	0.47	0.0959	4	0.167	0.0298	Reject H0, Conclude Site Proportion > 0.05	
24409 RAVENNA AVE	33	1	0.31	0.31	0.31	0.31	5.64E-17	9.81E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24410 PANAMA AVE	33	1	0.31	0.31	0.31	0.31	5.64E-17	9.81E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 MARBELLA AVE	69	47	0.31	3.58	1.335	1.46	0.884	0.106	45	0.652	1.97E-41	Reject H0, Conclude Site Proportion > 0.05	
24411 PANAMA AVE	37	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 MARBELLA AVE	31	2	0.15	0.31	0.284	0.31	0.0598	0.0107	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 RAVENNA AVE	61	1	0.31	0.31	0.31	0.31	5.60E-17	7.17E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 NEPTUNE AVE	24	12	0.31	0.81	0.391	0.31	0.134	0.0273	1	0.0417	0.708	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 RAVENNA AVE	28	20	0.31	1.56	0.803	0.845	0.379	0.0716	15	0.536	6.13E-13	Reject H0, Conclude Site Proportion > 0.05	
24416 MARBELLA AVE	50	1	0.31	0.31	0.31	0.31	1.68E-16	2.38E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 NEPTUNE AVE	21	2	0.31	0.4	0.314	0.31	0.0196	0.00429	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 PANAMA AVE	33	23	0.31	2.26	1.027	1.06	0.584	0.102	22	0.667	2.69E-21	Reject H0, Conclude Site Proportion > 0.05	
24416 RAVENNA AVE	42	2	0.19	0.31	0.293	0.31	0.0425	0.00656	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 MARBELLA AVE	8	3	0.31	2.19	0.759	0.31	0.832	0.294	2	0.25	0.0572	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 PANAMA AVE	47	1	0.31	0.31	0.31	0.31	1.12E-16	1.64E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 NEPTUNE AVE	32	1	0.31	0.31	0.31	0.31	5.64E-17	9.97E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 RAVENNA AVE	32	19	0.19	1.55	0.665	0.66	0.419	0.0741	14	0.438	1.22E-10	Reject H0, Conclude Site Proportion > 0.05	
24420 PANAMA AVE	33	3	0.31	0.63	0.322	0.31	0.0564	0.00981	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24421 PANAMA AVE	30	1	0.31	0.31	0.31	0.31	1.13E-16	2.06E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 MARBELLA AVE	43	2	0.15	0.31	0.299	0.31	0.0412	0.00629	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 NEPTUNE AVE	36	26	0.19	1.91	0.789	0.74	0.503	0.0638	17	0.472	2.62E-13	Reject H0, Conclude Site Proportion > 0.05	
24422 RAVENNA AVE	29	1	0.28	0.28	0.28	0.28	1.13E-16	2.10E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 MARBELLA AVE	13	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 NEPTUNE AVE	37	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 RAVENNA AVE	40	2	0.19	0.31	0.292	0.31	0.0434	0.00686	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 MARBELLA AVE	24	2	0.19	0.31	0.29	0.31	0.0457	0.00933	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 NEPTUNE AVE	30	2	0.19	0.31	0.286	0.31	0.0488	0.00891	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 PANAMA AVE	30	3	0.31	1.05	0.356	0.31	0.176	0.0321	2	0.0667	0.446	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 RAVENNA AVE	49	27	0.31	2.4	0.773	0.66	0.525	0.0751	22	0.449	3.16E-16	Reject H0, Conclude Site Proportion > 0.05	
24427 MARBELLA AVE	25	1	0.31	0.31	0.31	0.31	1.70E-16	3.40E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 PANAMA AVE	38	3	0.15	0.39	0.308	0.31	0.0293	0.00476	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 NEPTUNE AVE	19	5	0.31	1.98	0.438	0.31	0.39	0.0894	1	0.0526	0.623	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 RAVENNA AVE	29	8	0.22	0.48	0.31	0.31	0.0543	0.0101	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24430 PANAMA AVE	30	5	0.19	0.42	0.303	0.31	0.0437	0.00797	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24431 PANAMA AVE	35	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24432 MARBELLA AVE	67	13	0.15	0.7	0.331	0.31	0.0949	0.0116	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24433 MARBELLA AVE	27	3	0.19	0.33	0.28	0.31	0.0542	0.0104	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24436 PANAMA AVE	35	4	0.31	0.77	0.333	0.31	0.0843	0.0159	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 MARBELLA AVE	51	2	0.15	0.31	0.291	0.31	0.0521	0.00729	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 NEPTUNE AVE	58	2	0.19	0.31	0.298	0.31	0.0369	0.00484	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 PANAMA AVE	48	30	0.15	3.35	0.853	0.565	0.696	0.101	22	0.458	1.83E-16	Reject H0, Conclude Site Proportion > 0.05	
24502 RAVENNA AVE	44	2	0.31	1.1	0.328	0.31	0.119	0.018	1	0.0227	0.895	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 MARBELLA AVE	29	1	0.31	0.31	0.31	0.31	1.13E-16	2.10E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Antimony (0-10)														
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings	
24503 NEPTUNE AVE	60	21	0.15	1.75	0.505	0.31	0.386	0.0498	13	0.217	6.85E-06	Reject H0, Conclude Site Proportion > 0.05		
24503 PANAMA AVE	28	5	0.19	6.45	0.803	0.31	1.518	0.287	3	0.107	0.163	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24503 RAVENNA AVE	34	9	0.15	1.16	0.354	0.31	0.198	0.0339	2	0.0588	0.512	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24506 MARBELLA AVE	36	2	0.28	0.31	0.288	0.28	0.0132	0.0022	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24507 MARBELLA AVE	36	6	0.31	1.44	0.384	0.31	0.245	0.0409	2	0.0556	0.543	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24508 NEPTUNE AVE	40	1	0.31	0.31	0.31	0.31	5.62E-17	8.89E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24508 PANAMA AVE	24	1	0.31	0.31	0.31	0.31	1.70E-16	3.47E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24508 RAVENNA AVE	39	4	0.31	0.91	0.335	0.31	0.106	0.017	1	0.0256	0.865	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24509 NEPTUNE AVE	31	10	0.28	0.55	0.329	0.31	0.0764	0.0137	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24509 PANAMA AVE	47	11	0.31	0.74	0.38	0.31	0.115	0.0168	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24509 RAVENNA AVE	37	5	0.31	0.84	0.338	0.31	0.1	0.0164	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24512 MARBELLA AVE	48	29	0.28	0.79	0.54	0.54	0.119	0.0172	2	0.0417	0.699	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24512 NEPTUNE AVE	36	1	0.15	0.15	0.15	0.15	5.63E-17	9.38E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24512 PANAMA AVE	28	8	0.31	0.83	0.396	0.31	0.131	0.0247	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24513 RAVENNA AVE	46	14	0.31	1.24	0.502	0.31	0.316	0.0466	10	0.217	7.55E-05	Reject H0, Conclude Site Proportion > 0.05		
24513 NEPTUNE AVE	37	2	0.31	1.49	0.342	0.31	0.194	0.0319	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24513 PANAMA AVE	51	20	0.31	1.09	0.418	0.31	0.173	0.0242	3	0.0588	0.473	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24513 RAVENNA AVE	30	25	0.31	2.67	0.918	0.625	0.683	0.125	13	0.433	6.53E-10	Reject H0, Conclude Site Proportion > 0.05		
24516 MARBELLA AVE	30	1	0.31	0.31	0.31	0.31	1.13E-16	2.06E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24517 MARBELLA AVE	12	10	0.19	1.1	0.556	0.53	0.319	0.0921	4	0.333	0.00224	Reject H0, Conclude Site Proportion > 0.05		
24518 NEPTUNE AVE	45	19	0.22	0.58	0.285	0.22	0.0865	0.0144	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24518 PANAMA AVE	42	10	0.19	2.69	0.642	0.31	0.751	0.116	8	0.19	0.00099906	Reject H0, Conclude Site Proportion > 0.05		
24518 RAVENNA AVE	30	18	0.31	2.08	0.615	0.375	0.436	0.0795	9	0.3	1.07E-05	Reject H0, Conclude Site Proportion > 0.05		
24519 NEPTUNE AVE	35	4	0.31	0.88	0.335	0.31	0.104	0.0175	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24519 PANAMA AVE	30	1	0.31	0.31	0.31	0.31	1.13E-16	2.06E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24522 MARBELLA AVE	27	1	0.31	0.31	0.31	0.31	1.70E-16	3.27E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24522 NEPTUNE AVE	28	16	0.28	1.1	0.37	0.31	0.159	0.0301	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24522 PANAMA AVE	36	17	0.31	1	0.451	0.325	0.191	0.0319	4	0.111	0.104	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24522 RAVENNA AVE	35	5	0.31	0.71	0.332	0.31	0.0806	0.0136	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24523 MARBELLA AVE	45	24	0.31	1.25	0.537	0.47	0.266	0.0396	9	0.2	0.00033498	Reject H0, Conclude Site Proportion > 0.05		
24523 NEPTUNE AVE	37	6	0.31	1.12	0.359	0.31	0.158	0.026	2	0.0541	0.558	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24523 RAVENNA AVE	17	10	0.31	1.74	0.561	0.4	0.39	0.0947	4	0.235	0.0088	Reject H0, Conclude Site Proportion > 0.05		
24526 MARBELLA AVE	36	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24528 NEPTUNE AVE	31	4	0.31	0.5	0.331	0.31	0.0506	0.00909	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24528 PANAMA AVE	39	1	0.15	0.15	0.15	0.15	8.44E-17	1.35E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24529 NEPTUNE AVE	32	1	0.31	0.31	0.31	0.31	5.64E-17	9.97E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24529 PANAMA AVE	24	2	0.15	0.31	0.203	0.15	0.077	0.0157	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24532 RAVENNA AVE	26	2	0.31	0.84	0.33	0.31	0.104	0.0204	1	0.0385	0.736	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24532 MARBELLA AVE	27	2	0.19	0.31	0.274	0.31	0.0558	0.0107	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24532 NEPTUNE AVE	21	4	0.31	0.51	0.323	0.31	0.0442	0.00964	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24532 PANAMA AVE	23	1	0.15	0.15	0.15	0.15	5.68E-17	1.18E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24532 RAVENNA AVE	29	8	0.31	2.09	0.531	0.31	0.495	0.0919	5	0.172	0.0136	Reject H0, Conclude Site Proportion > 0.05		
24533 MARBELLA AVE	25	2	0.28	0.57	0.292	0.28	0.058	0.0116	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24533 PANAMA AVE	29	1	0.31	0.31	0.31	0.31	1.13E-16	2.10E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24533 RAVENNA AVE	52	4	0.15	0.86	0.301	0.31	0.119	0.0165	2	0.0385	0.741	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24602 MARBELLA AVE	34	19	0.28	1.31	0.559	0.48	0.303	0.052	7	0.206	0.00127	Reject H0, Conclude Site Proportion > 0.05		
24602 NEPTUNE AVE	33	1	0.31	0.31	0.31	0.31	5.64E-17	9.81E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24602 PANAMA AVE	40	11	0.31	1.49	0.472	0.31	0.302	0.0478	8	0.2	0.00071151	Reject H0, Conclude Site Proportion > 0.05		
24602 RAVENNA AVE	28	2	0.28	0.31	0.289	0.28	0.0138	0.00261	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24603 MARBELLA AVE	26	2	0.19	0.31	0.282	0.31	0.0516	0.0101	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24603 NEPTUNE AVE	49	16	0.31	1.08	0.45	0.31	0.209	0.0299	7	0.143	0.0106	Reject H0, Conclude Site Proportion > 0.05		
24603 PANAMA AVE	30	6	0.31	0.85	0.368	0.31	0.14	0.0255	1	0.0333	0.785	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24603 RAVENNA AVE	31	2	0.19	0.31	0.287	0.31	0.0482	0.00866	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24606 MARBELLA AVE	63	20	0.31	1.47	0.445	0.31	0.239	0.0301	9	0.143	0.00399	Reject H0, Conclude Site Proportion > 0.05		

One Sample Proportion Test Results - Antimony (0-10)														
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings	
24607 MARBELLA AVE	31	8	0.31	1.16	0.423	0.31	0.252	0.0453	4	0.129	0.0671	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24608 NEPTUNE AVE	37	17	0.31	1.03	0.47	0.38	0.216	0.0355	6	0.162	0.00954	Reject H0, Conclude Site Proportion > 0.05		
24608 PANAMA AVE	22	8	0.28	1.1	0.348	0.31	0.174	0.0372	1	0.0455	0.676	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24608 RAVENNA AVE	40	14	0.15	1.64	0.444	0.31	0.295	0.0468	5	0.125	0.048	Reject H0, Conclude Site Proportion > 0.05		
24609 NEPTUNE AVE	30	16	0.31	1.76	0.743	0.435	0.517	0.0943	12	0.4	9.04E-09	Reject H0, Conclude Site Proportion > 0.05		
24609 PANAMA AVE	34	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24609 RAVENNA AVE	45	20	0.31	0.94	0.438	0.32	0.188	0.028	6	0.133	0.0239	Reject H0, Conclude Site Proportion > 0.05		
24612 MARBELLA AVE	51	19	0.22	2.41	0.409	0.22	0.35	0.049	5	0.098	0.11	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24612 NEPTUNE AVE	47	19	0.15	1.13	0.378	0.19	0.309	0.045	7	0.149	0.00845	Reject H0, Conclude Site Proportion > 0.05		
24612 PANAMA AVE	33	15	0.15	0.83	0.305	0.15	0.233	0.0406	3	0.0909	0.227	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24612 RAVENNA AVE	46	10	0.31	2.21	0.391	0.31	0.302	0.0446	2	0.0435	0.677	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24613 MARBELLA AVE	52	1	0.31	0.31	0.31	0.31	1.68E-16	2.33E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24613 NEPTUNE AVE	39	22	0.22	1.13	0.416	0.34	0.247	0.0396	4	0.103	0.129	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24613 PANAMA AVE	51	6	0.31	0.69	0.332	0.31	0.0719	0.0101	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24613 RAVENNA AVE	33	20	0.31	1.41	0.52	0.49	0.237	0.0413	4	0.121	0.0808	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24616 MARBELLA AVE	46	13	0.31	1.73	0.427	0.31	0.316	0.0466	5	0.109	0.0786	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24617 MARBELLA AVE	34	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24618 NEPTUNE AVE	26	1	0.31	0.31	0.31	0.31	1.70E-16	3.33E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24618 PANAMA AVE	28	2	0.15	0.31	0.287	0.31	0.057	0.0108	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24618 RAVENNA AVE	40	1	0.31	0.31	0.31	0.31	5.62E-17	8.89E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24619 NEPTUNE AVE	28	3	0.31	0.35	0.312	0.31	0.00833	0.00157	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24619 RAVENNA AVE	35	8	0.31	2.86	0.416	0.31	5.63E-17	9.13E-18	0	0.0266	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24622 MARBELLA AVE	53	1	0.31	0.31	0.31	0.31	0.432	0.0731	1	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24622 NEPTUNE AVE	34	14	0.28	0.56	0.339	0.31	0.0772	0.0132	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24623 MARBELLA AVE	32	1	0.31	0.31	0.31	0.31	5.64E-17	9.97E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24623 NEPTUNE AVE	36	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24627 MARBELLA AVE	48	16	0.31	3.23	0.708	0.31	0.789	0.114	11	0.229	1.97E-05	Reject H0, Conclude Site Proportion > 0.05		
24628 MARBELLA AVE	52	3	0.28	0.67	0.288	0.28	0.0542	0.00751	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24628 NEPTUNE AVE	18	1	0.31	0.31	0.31	0.31	1.14E-16	2.69E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24629 NEPTUNE AVE	39	16	0.31	1.95	0.526	0.31	0.386	0.0618	8	0.205	0.00059512	Reject H0, Conclude Site Proportion > 0.05		
24632 NEPTUNE AVE	20	16	0.19	1.97	0.733	0.575	0.51	0.114	8	0.4	2.86E-06	Reject H0, Conclude Site Proportion > 0.05		
24633 MARBELLA AVE	40	1	0.15	0.15	0.15	0.15	8.43E-17	1.33E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24700 MARBELLA AVE	46	13	0.31	1.52	0.457	0.31	0.306	0.0451	4	0.087	0.197	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24700 RAVENNA AVE	56	9	0.31	1.28	0.347	0.31	0.142	0.019	1	0.0179	0.943	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24702 NEPTUNE AVE	46	1	0.31	0.31	0.31	0.31	1.12E-16	1.66E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24702 PANAMA AVE	30	4	0.31	0.56	0.325	0.31	0.0514	0.00938	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24703 MARBELLA AVE	36	10	0.22	0.57	0.277	0.235	0.0809	0.0135	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24703 NEPTUNE AVE	39	6	0.19	0.63	0.311	0.31	0.0839	0.0134	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24703 RAVENNA AVE	53	5	0.31	0.87	0.337	0.31	0.108	0.0149	2	0.0377	0.75	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24706 MARBELLA AVE	43	17	0.31	1.13	0.453	0.31	0.243	0.0371	7	0.163	0.00515	Reject H0, Conclude Site Proportion > 0.05		
24706 RAVENNA AVE	33	3	0.31	0.73	0.328	0.31	0.0793	0.0138	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24707 MARBELLA AVE	37	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24707 PANAMA AVE	37	4	0.31	2.27	0.387	0.31	0.334	0.0549	2	0.0541	0.558	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24709 NEPTUNE AVE	37	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24709 PANAMA AVE	43	4	0.19	0.35	0.287	0.31	0.0508	0.00775	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24709 RAVENNA AVE	52	2	0.31	0.7	0.318	0.31	0.0541	0.0075	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24710 MARBELLA AVE	43	1	0.31	0.31	0.31	0.31	1.12E-16	1.71E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24712 NEPTUNE AVE	32	4	0.31	1.3	0.364	0.31	0.194	0.0342	1	0.0313	0.806	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24712 PANAMA AVE	27	2	0.31	0.61	0.321	0.31	0.0577	0.0111	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24712 RAVENNA AVE	45	14	0.31	1.02	0.399	0.31	0.161	0.024	3	0.0667	0.392	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24713 MARBELLA AVE	37	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24713 PANAMA AVE	34	4	0.28	0.75	0.306	0.28	0.1	0.0171	1	0.0294	0.825	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24713 RAVENNA AVE	35	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Antimony (0-10)														
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings	
24715 NEPTUNE AVE	37	12	0.15	1.4	0.448	0.31	0.342	0.0562	5	0.135	0.0359	Reject H0, Conclude Site Proportion > 0.05		
24716 MARBELLA AVE	30	1	0.31	0.31	0.31	0.31	1.13E-16	2.06E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24716 RAVENNA AVE	15	1	0.31	0.31	0.31	0.31	5.75E-17	1.48E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24717 MARBELLA AVE	38	1	0.31	0.31	0.31	0.31	5.63E-17	9.13E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24718 NEPTUNE AVE	65	34	0.31	2.55	0.528	0.39	0.372	0.0462	9	0.138	0.00493	Reject H0, Conclude Site Proportion > 0.05		
24718 PANAMA AVE	33	2	0.31	0.47	0.315	0.31	0.0279	0.00485	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24719 NEPTUNE AVE	33	1	0.31	0.31	0.31	0.31	5.64E-17	9.81E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24719 PANAMA AVE	28	1	0.31	0.31	0.31	0.31	1.13E-16	2.14E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24719 RAVENNA AVE	45	13	0.31	1.65	0.422	0.31	0.268	0.0399	5	0.111	0.0729	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24722 MARBELLA AVE	34	1	0.28	0.28	0.28	0.28	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24722 NEPTUNE AVE	40	9	0.22	0.39	0.243	0.22	0.0458	0.00725	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24722 PANAMA AVE	18	1	0.31	0.31	0.31	0.31	1.14E-16	2.69E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24722 RAVENNA AVE	41	1	0.28	0.28	0.28	0.28	1.12E-16	1.76E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24723 MARBELLA AVE	22	1	0.31	0.31	0.31	0.31	1.71E-16	3.63E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24723 RAVENNA AVE	37	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24725 NEPTUNE AVE	35	2	0.19	0.31	0.289	0.31	0.0459	0.00776	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24726 MARBELLA AVE	49	30	0.31	2.66	0.713	0.44	0.599	0.0856	17	0.347	1.06E-10	Reject H0, Conclude Site Proportion > 0.05		
24726 RAVENNA AVE	37	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24727 MARBELLA AVE	40	15	0.28	0.96	0.356	0.28	0.138	0.0218	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24728 NEPTUNE AVE	33	2	0.31	0.5	0.316	0.31	0.0331	0.00576	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24728 PANAMA AVE	31	9	0.31	0.96	0.395	0.31	0.187	0.0337	3	0.0968	0.201	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24729 NEPTUNE AVE	35	4	0.19	0.34	0.291	0.31	0.0467	0.0079	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24729 PANAMA AVE	34	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24729 RAVENNA AVE	16	1	0.31	0.31	0.31	0.31	5.73E-17	1.43E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24732 MARBELLA AVE	37	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24732 NEPTUNE AVE	35	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24732 PANAMA AVE	33	6	0.22	0.66	0.265	0.22	0.0859	0.015	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24732 RAVENNA AVE	42	3	0.31	1.32	0.343	0.31	0.166	0.0256	1	0.0238	0.894	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24733 MARBELLA AVE	32	1	0.31	0.31	0.31	0.31	5.64E-17	9.97E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24733 PANAMA AVE	38	2	0.31	0.42	0.313	0.31	0.0178	0.00289	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24733 RAVENNA AVE	40	3	0.28	0.41	0.289	0.28	0.023	0.00364	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24735 NEPTUNE AVE	36	11	0.31	1.66	0.513	0.31	0.37	0.0617	7	0.194	0.00181	Reject H0, Conclude Site Proportion > 0.05		
24736 MARBELLA AVE	52	1	0.31	0.31	0.31	0.31	1.68E-16	2.33E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24736 RAVENNA AVE	43	9	0.15	1	0.378	0.31	0.223	0.0341	5	0.116	0.0623	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24737 MARBELLA AVE	28	2	0.31	0.32	0.31	0.31	0.00189	0.00035714	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24738 NEPTUNE AVE	51	2	0.19	0.31	0.296	0.31	0.039	0.00547	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24738 PANAMA AVE	32	19	0.22	0.92	0.374	0.34	0.168	0.0296	1	0.0313	0.806	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24739 NEPTUNE AVE	41	5	0.31	0.61	0.331	0.31	0.0669	0.0105	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24739 PANAMA AVE	43	13	0.28	0.98	0.382	0.28	0.195	0.0297	4	0.093	0.167	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24739 RAVENNA AVE	42	1	0.31	0.31	0.31	0.31	5.62E-17	8.67E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24740 MARBELLA AVE	64	11	0.31	0.5	0.334	0.31	0.0497	0.00621	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24741 MARBELLA AVE	12	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24743 RAVENNA AVE	42	1	0.28	0.28	0.28	0.28	1.12E-16	1.73E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24744 MARBELLA AVE	25	11	0.31	1.74	0.445	0.31	0.303	0.0606	2	0.08	0.358	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24748 RAVENNA AVE	24	1	0.31	0.31	0.31	0.31	1.70E-16	3.47E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24749 RAVENNA AVE	43	27	0.31	1.63	0.745	0.7	0.372	0.0667	20	0.465	2.99E-15	Reject H0, Conclude Site Proportion > 0.05		
24752 RAVENNA AVE	45	2	0.31	0.85	0.322	0.31	0.0805	0.012	1	0.0222	0.901	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24802 PANAMA AVE	47	8	0.31	0.85	0.377	0.31	0.157	0.0229	3	0.0638	0.42	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24803 NEPTUNE AVE	32	3	0.31	0.7	0.326	0.31	0.071	0.0126	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24803 PANAMA AVE	18	1	0.31	0.31	0.31	0.31	1.14E-16	2.69E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24809 NEPTUNE AVE	27	1	0.31	0.31	0.31	0.31	1.70E-16	3.27E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24809 PANAMA AVE	36	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24812 PANAMA AVE	29	20	0.22	1.21	0.516	0.45	0.273	0.0508	5	0.172	0.0136	Reject H0, Conclude Site Proportion > 0.05		
24813 PANAMA AVE	15	1	0.31	0.31	0.31	0.31	5.75E-17	1.48E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Antimony (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24815 NEPTUNE AVE	30	20	0.19	2.49	0.913	0.71	0.673	0.123	14	0.467	4.14E-11	Reject H0, Conclude Site Proportion > 0.05	
24818 PANAMA AVE	34	8	0.31	0.93	0.373	0.31	0.155	0.0266	2	0.0588	0.512	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24819 PANAMA AVE	34	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24822 PANAMA AVE	43	2	0.31	0.34	0.311	0.31	0.00457	0.00069767	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24823 PANAMA AVE	39	1	0.31	0.31	0.31	0.31	5.62E-17	9.01E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24825 NEPTUNE AVE	98	2	0.19	0.31	0.303	0.31	0.0289	0.00292	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24828 PANAMA AVE	36	2	0.15	0.31	0.306	0.31	0.0267	0.00444	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24829 PANAMA AVE	48	8	0.31	0.68	0.345	0.31	0.0949	0.0137	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24832 PANAMA AVE	38	10	0.31	0.85	0.363	0.31	0.122	0.0197	1	0.0263	0.858	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24833 PANAMA AVE	43	1	0.31	0.31	0.31	0.31	1.12E-16	1.71E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24838 PANAMA AVE	28	8	0.19	0.6	0.319	0.31	0.095	0.018	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24904 NEPTUNE AVE	74	18	0.31	1.19	0.392	0.31	0.188	0.0219	7	0.0946	0.0766	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24912 NEPTUNE AVE	36	5	0.19	0.45	0.298	0.31	0.0581	0.00968	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
301 244TH ST	29	1	0.31	0.31	0.31	0.31	1.13E-16	2.10E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
305 244TH ST	54	2	0.15	0.31	0.37	0.31	0.0627	0.00854	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
311 244TH ST	71	22	0.15	1.09	0.37	0.31	0.227	0.027	6	0.0845	0.144	Do Not Reject H0, Conclude Site Proportion <= 0.05	
317 244TH ST	58	2	0.15	0.31	0.288	0.31	0.0557	0.00731	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
321 244TH ST	40	11	0.31	1.78	0.456	0.31	0.315	0.0498	6	0.15	0.0139	Reject H0, Conclude Site Proportion > 0.05	
327 244TH ST	12	4	0.31	0.91	0.375	0.31	0.175	0.0506	1	0.0833	0.46	Do Not Reject H0, Conclude Site Proportion <= 0.05	
331 244TH ST	28	1	0.31	0.31	0.31	0.31	1.13E-16	2.14E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
337 244TH ST	34	22	0.22	1.28	0.456	0.395	0.267	0.0458	3	0.0882	0.241	Do Not Reject H0, Conclude Site Proportion <= 0.05	
341 244TH ST	48	1	0.31	0.31	0.31	0.31	1.12E-16	1.62E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
344 249TH ST	35	24	0.15	1.05	0.552	0.56	0.239	0.0403	10	0.286	5.64E-06	Reject H0, Conclude Site Proportion > 0.05	
345 249TH ST	93	9	0.19	0.66	0.32	0.31	0.0756	0.00784	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
347 244TH ST	32	9	0.31	0.84	0.398	0.31	0.167	0.0294	2	0.0625	0.48	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 248TH ST	49	10	0.31	0.75	0.343	0.31	0.0884	0.0126	1	0.0204	0.919	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 249TH ST	51	4	0.31	0.86	0.331	0.31	0.0927	0.013	1	0.0196	0.927	Do Not Reject H0, Conclude Site Proportion <= 0.05	
351 244TH ST	32	2	0.19	0.31	0.288	0.31	0.0476	0.00841	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
352 249TH ST	32	10	0.19	1.08	0.348	0.31	0.169	0.0299	1	0.0313	0.806	Do Not Reject H0, Conclude Site Proportion <= 0.05	
353 249TH ST	32	1	0.31	0.31	0.31	0.31	5.64E-17	9.97E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
354 248TH ST	39	1	0.31	0.31	0.31	0.31	5.62E-17	9.01E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 244TH ST	40	14	0.31	1.24	0.423	0.31	0.23	0.0363	5	0.125	0.048	Reject H0, Conclude Site Proportion > 0.05	
357 249TH ST	24	1	0.31	0.31	0.31	0.31	1.70E-16	3.47E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
358 249TH ST	43	1	0.31	0.31	0.31	0.31	1.12E-16	1.71E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
360 248TH ST	48	2	0.31	0.71	0.327	0.31	0.0808	0.0117	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
361 244TH ST	23	2	0.19	0.31	0.279	0.31	0.0539	0.0112	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
362 249TH ST	25	1	0.31	0.31	0.31	0.31	1.70E-16	3.40E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
363 249TH ST	27	1	0.31	0.31	0.31	0.31	1.70E-16	3.27E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
364 248TH ST	48	1	0.31	0.31	0.31	0.31	1.12E-16	1.62E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 244TH ST	13	1	0.31	0.31	0.31	0.31	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 249TH ST	46	9	0.28	1.11	0.327	0.31	0.12	0.0177	1	0.0217	0.906	Do Not Reject H0, Conclude Site Proportion <= 0.05	
368 249TH ST	55	1	0.31	0.31	0.31	0.31	5.60E-17	7.55E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
373 249TH ST	42	2	0.15	0.31	0.283	0.31	0.0604	0.00931	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 248TH ST	120	33	0.31	1.21	0.409	0.31	0.193	0.0176	8	0.0667	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 249TH ST	27	8	0.31	1.05	0.394	0.31	0.19	0.0366	2	0.0741	0.394	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 244TH ST	32	6	0.31	0.64	0.337	0.31	0.0763	0.0135	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 249TH ST	33	1	0.31	0.31	0.31	0.31	5.64E-17	9.81E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
378 249TH ST	41	17	0.31	0.82	0.458	0.32	0.186	0.0291	8	0.195	0.00084553	Reject H0, Conclude Site Proportion > 0.05	
383 249TH ST	32	1	0.31	0.31	0.31	0.31	5.64E-17	9.97E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
402 249TH ST	32	1	0.31	0.31	0.31	0.31	5.64E-17	9.97E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
408 249TH ST	24	1	0.31	0.31	0.31	0.31	1.70E-16	3.47E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
412 249TH ST	77	2	0.19	0.31	0.298	0.31	0.0369	0.0042	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Arsenic (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24401 MARBELLA AVE	33	32	1.48	29.2	5.81	4.3	5.019	0.874	2	0.0606	0.496	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 NEPTUNE AVE	48	47	4.13	15.6	6.853	6.445	2.055	0.297	1	0.0208	0.915	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 PANAMA AVE	127	114	0.83	27.9	5.776	4.61	3.722	0.33	8	0.063		Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 RAVENNA AVE	40	34	3.39	25	7.062	5.87	4.168	0.659	3	0.075	0.323	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 NEPTUNE AVE	46	46	4.03	18.7	8.855	7.83	3.775	0.557	8	0.174	0.00185	Reject H0, Conclude Site Proportion > 0.05	
24403 RAVENNA AVE	62	59	2.93	13.9	6.752	6.79	2.135	0.271	1	0.0161	0.958	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24405 MARBELLA AVE	25	25	2.24	26.9	6.44	4.76	5.274	1.055	2	0.08	0.358	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 MARBELLA AVE	40	39	2.91	12.7	6.279	5.825	2.28	0.36	2	0.05	0.601	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 NEPTUNE AVE	28	25	2	10.4	5.909	5.445	2.167	0.409	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 PANAMA AVE	23	23	0.77	5.78	3.9	3.67	1.228	0.256	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 RAVENNA AVE	26	23	3.2	10	5.376	5.055	1.471	0.288	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 NEPTUNE AVE	24	24	2.96	13.8	5.923	5.415	2.366	0.487	1	0.0417	0.708	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 RAVENNA AVE	33	31	4.64	16.3	6.988	6.3	2.347	0.409	2	0.0606	0.496	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24410 PANAMA AVE	33	33	1.02	5.69	3.109	3.12	1.207	0.21	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 MARBELLA AVE	69	66	0.4	18	4.882	4.47	2.718	0.327	1	0.0145	0.971	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 PANAMA AVE	37	36	3.38	43.6	8.601	6.64	6.763	1.112	5	0.135	0.0359	Reject H0, Conclude Site Proportion > 0.05	
24412 MARBELLA AVE	31	31	0.63	14.9	4.62	3.97	2.756	0.495	1	0.0323	0.796	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 RAVENNA AVE	61	58	3.48	21.1	7.17	6.92	2.538	0.325	1	0.0164	0.956	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 NEPTUNE AVE	24	22	1.14	14.8	3.789	3.055	2.895	0.591	1	0.0417	0.708	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 RAVENNA AVE	28	28	2.84	11.9	6.358	6.3	2.095	0.396	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 MARBELLA AVE	50	49	2.33	21.2	6.198	5.37	3.497	0.495	3	0.06	0.459	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 NEPTUNE AVE	21	20	2.82	8.76	5.464	5.76	1.575	0.344	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 PANAMA AVE	33	33	1.28	6.16	2.873	2.52	1.14	0.198	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 RAVENNA AVE	42	41	1.31	7.74	4.447	4.215	1.552	0.239	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 MARBELLA AVE	8	8	6.44	24.6	13.3	11.13	6.595	2.332	4	0.5	0.00037175	Reject H0, Conclude Site Proportion > 0.05	
24417 PANAMA AVE	47	44	0.59	11.1	2.88	2.45	1.803	0.263	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 NEPTUNE AVE	32	30	3.6	19.9	6.686	6.105	3.037	0.537	2	0.0625	0.48	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 RAVENNA AVE	32	32	1.45	8.57	5.529	5.98	1.727	0.305	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24420 PANAMA AVE	33	33	1.43	9.05	4.037	3.86	1.61	0.28	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24421 PANAMA AVE	30	29	0.4	12.2	3.251	2.685	2.314	0.422	1	0.0333	0.785	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 MARBELLA AVE	43	40	1.51	9.62	5.006	4.83	1.994	0.304	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 NEPTUNE AVE	36	35	3.34	10.9	5.926	6.15	1.534	0.256	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 RAVENNA AVE	29	28	4.04	7.43	5.549	5.49	1.027	0.191	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 MARBELLA AVE	13	13	4.77	28.3	10.36	8.41	6.172	1.712	2	0.154	0.135	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 NEPTUNE AVE	37	34	2.3	10.3	4.989	4.58	1.682	0.277	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 RAVENNA AVE	40	35	1.77	8.01	4.065	3.76	1.468	0.232	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 MARBELLA AVE	24	24	2.29	9.78	5.81	5.89	1.965	0.401	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 NEPTUNE AVE	30	30	3.18	8.98	5.425	5.14	1.54	0.281	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 PANAMA AVE	30	30	1.5	6.27	3.472	2.905	1.524	0.278	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 RAVENNA AVE	49	48	2.9	13.8	6.437	6.43	1.791	0.256	1	0.0204	0.919	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 MARBELLA AVE	25	25	2.78	13.6	6.867	6.78	2.4	0.48	1	0.04	0.723	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 PANAMA AVE	38	37	4.26	11	6.771	6.75	1.455	0.236	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 NEPTUNE AVE	19	19	2.06	10.7	4.909	4.64	2.308	0.529	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 RAVENNA AVE	29	29	2.87	7.39	4.284	3.98	1.12	0.208	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24430 PANAMA AVE	30	29	2.49	9.26	5.081	4.625	1.669	0.305	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24431 PANAMA AVE	35	35	3.21	21.8	6.009	5.22	3.062	0.518	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24432 MARBELLA AVE	67	64	0.92	16.4	4.621	3.92	2.896	0.354	2	0.0299	0.854	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24433 MARBELLA AVE	27	26	2.34	10.1	5.88	5.62	1.963	0.378	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24436 PANAMA AVE	35	31	2.52	6.59	4.398	4.48	1.222	0.207	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 MARBELLA AVE	51	50	2.22	16.9	5.62	5.11	2.678	0.375	1	0.0196	0.927	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 NEPTUNE AVE	58	55	2.44	7.68	4.322	4.28	0.934	0.123	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 PANAMA AVE	48	47	0.26	6.85	3.353	3.435	1.654	0.239	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 RAVENNA AVE	44	42	1.73	8.79	3.412	2.935	1.481	0.223	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 MARBELLA AVE	29	29	3.34	9.4	6.445	6.63	1.502	0.279	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
**ProUCL Output of One Sample Proportion Test Results**

One Sample Proportion Test Results - Arsenic (0-10)														
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings	
24503 NEPTUNE AVE	60	59	2.15	35.5	6.861	5.76	4.474	0.578	4	0.0667	0.353	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24503 PANAMA AVE	28	28	2.93	10.1	5.854	5.38	1.761	0.333	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24503 RAVENNA AVE	34	34	2.13	11.3	4.389	4.155	1.71	0.293	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24506 MARBELLA AVE	36	36	3.19	28.8	8.536	7.155	4.692	0.782	6	0.167	0.00834	Reject H0. Conclude Site Proportion > 0.05		
24507 MARBELLA AVE	36	36	5.39	12.4	7.991	7.56	1.73	0.288	1	0.0278	0.842	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24508 NEPTUNE AVE	40	39	3.45	14.8	7.1	6.35	2.638	0.417	2	0.05	0.601	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24508 PANAMA AVE	24	24	1.15	6.58	4.364	4.685	1.516	0.309	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24508 RAVENNA AVE	39	39	2.31	9.6	5.451	4.87	2.112	0.338	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24509 NEPTUNE AVE	31	30	1.46	15.2	6.012	5.58	3.012	0.541	2	0.0645	0.463	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24509 PANAMA AVE	47	43	0.58	12.1	3.083	2.4	2.236	0.326	1	0.0213	0.91	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24509 RAVENNA AVE	37	37	3.67	14	7.355	7.01	2.587	0.425	2	0.0541	0.558	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24512 MARBELLA AVE	48	47	1.73	18.7	7.489	7.415	3.464	0.5	5	0.104	0.0907	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24512 NEPTUNE AVE	36	35	2.43	14.8	6.512	5.165	3.288	0.548	2	0.0556	0.543	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24512 PANAMA AVE	28	28	0.89	6.15	3.216	3.495	1.446	0.273	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24512 RAVENNA AVE	46	44	2.42	20	6.507	5.565	3.292	0.485	2	0.0435	0.677	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24513 NEPTUNE AVE	37	36	2.25	14.4	6.352	5.89	2.755	0.453	1	0.027	0.85	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24513 PANAMA AVE	51	50	1.75	37.9	6.332	5.35	5.189	0.727	2	0.0392	0.731	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24513 RAVENNA AVE	30	29	2.18	12.8	6.624	5.99	2.904	0.53	2	0.0667	0.446	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24516 MARBELLA AVE	30	29	2.75	17.8	8.083	7.83	3.55	0.648	4	0.133	0.0608	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24517 MARBELLA AVE	12	12	3.22	7.9	5.684	5.38	1.327	0.383	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24518 NEPTUNE AVE	45	40	1.68	17.3	5.724	4.86	3.56	0.531	2	0.0444	0.665	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24518 PANAMA AVE	42	41	1.58	6.81	4.039	3.985	1.307	0.202	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24518 RAVENNA AVE	30	30	2.33	26.8	8.007	6.375	5.358	0.978	4	0.133	0.0608	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24519 NEPTUNE AVE	35	33	2.28	11.3	6.415	6.08	2.676	0.452	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24519 PANAMA AVE	30	28	1.56	9.25	3.618	2.76	2.024	0.37	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24522 MARBELLA AVE	27	27	1.3	19	8.431	7.49	4.88	0.939	8	0.296	3.67E-05	Reject H0. Conclude Site Proportion > 0.05		
24522 NEPTUNE AVE	28	27	2.14	19.8	7.041	5.58	4.163	0.787	2	0.0714	0.412	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24522 PANAMA AVE	36	35	1.53	8.92	3.965	3.48	1.571	0.262	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24522 RAVENNA AVE	35	34	0.87	13.7	3.357	2.61	2.492	0.421	1	0.0286	0.834	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24523 MARBELLA AVE	45	42	1.55	12	5.737	5.54	1.852	0.276	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24523 NEPTUNE AVE	37	35	2.25	21.9	7.933	6.75	4.395	0.723	4	0.108	0.112	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24523 RAVENNA AVE	17	17	3.05	9.48	5.483	4.8	1.969	0.477	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24526 MARBELLA AVE	36	36	2.1	26.2	6.266	5.505	4.272	0.712	2	0.0556	0.543	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24528 NEPTUNE AVE	31	26	0.41	15.8	2.753	1.94	3.274	0.588	2	0.0645	0.463	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24528 PANAMA AVE	39	37	0.48	5.8	2.23	1.85	1.086	0.176	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24529 NEPTUNE AVE	32	31	2.4	11.3	5.307	4.62	2.205	0.39	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24529 PANAMA AVE	24	23	2.45	6.01	4.152	3.93	1.029	0.21	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24529 RAVENNA AVE	26	25	2.83	9.29	5.206	4.715	1.998	0.392	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24532 MARBELLA AVE	27	27	2.19	16.1	5.303	4.64	2.898	0.558	2	0.0741	0.394	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24532 NEPTUNE AVE	21	21	1.15	7.66	3.564	3.01	1.706	0.372	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24532 PANAMA AVE	23	23	2.36	11.2	5.058	4.19	2.432	0.507	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24532 RAVENNA AVE	29	28	1.75	6.51	3.859	3.5	1.256	0.233	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24533 MARBELLA AVE	25	25	4.15	11	7.285	7.11	1.649	0.33	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24533 PANAMA AVE	29	29	3.15	8.4	5.364	5.17	1.414	0.283	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24533 RAVENNA AVE	52	47	0.53	4.57	2.81	2.915	0.895	0.124	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24602 MARBELLA AVE	34	33	0.46	16	4.176	3.245	3.493	0.599	2	0.0588	0.512	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24602 NEPTUNE AVE	33	31	0.92	3.86	2.119	1.91	0.93	0.162	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24602 PANAMA AVE	40	39	1.24	15	4.093	2.98	3.277	0.518	2	0.05	0.601	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24602 RAVENNA AVE	28	28	3.2	9.3	5.453	5.16	1.714	0.324	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24603 MARBELLA AVE	26	24	2.87	12.3	6.214	5.59	2.396	0.47	1	0.0385	0.736	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24603 NEPTUNE AVE	49	48	0.53	8.62	3.412	2.93	2.397	0.342	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24603 PANAMA AVE	30	29	2.36	8.04	4.837	4.795	1.297	0.237	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24603 RAVENNA AVE	31	31	2.17	6.02	3.779	3.68	0.961	0.173	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		
24606 MARBELLA AVE	63	61	1.92	11	5.461	5.36	2.071	0.261	0	0	1	Do Not Reject H0. Conclude Site Proportion <= 0.05		

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Arsenic (0-10)														
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings	
24607 MARBELLA AVE	31	30	0.58	21.1	5.345	4.75	3.418	0.614	1	0.0323	0.796	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24608 NEPTUNE AVE	37	36	1.94	6.98	4.384	4.53	1.292	0.211	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24608 PANAMA AVE	22	22	2.11	11.2	4.583	4.625	1.888	0.403	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24608 RAVENNA AVE	40	40	1.58	14.7	4.017	3.605	2.122	0.336	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24609 NEPTUNE AVE	30	30	1.81	15.5	6.724	6.255	3.61	0.659	4	0.133	0.0608	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24609 PANAMA AVE	34	34	0.4	14.3	4.95	4.215	2.871	0.492	1	0.0294	0.825	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24609 RAVENNA AVE	45	42	1.42	5.51	2.86	2.55	1.053	0.157	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24612 MARBELLA AVE	51	50	2.1	14.8	5.258	4.71	2.51	0.351	2	0.0392	0.731	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24612 NEPTUNE AVE	47	44	2.04	9.42	4.766	4.5	1.522	0.222	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24612 PANAMA AVE	33	32	1.78	10.2	4.025	3.09	2.359	0.411	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24612 RAVENNA AVE	46	45	2.24	15.6	6.023	4.73	3.096	0.457	3	0.0652	0.406	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24613 MARBELLA AVE	52	51	3.22	35.4	9.803	7.77	6.246	0.866	11	0.212	4.37E-05	Reject H0, Conclude Site Proportion > 0.05		
24613 NEPTUNE AVE	39	39	2.41	15.2	6.901	5.89	3.532	0.566	5	0.128	0.0438	Reject H0, Conclude Site Proportion > 0.05		
24613 PANAMA AVE	51	47	1.56	14.8	5.509	4.64	2.607	0.365	1	0.0196	0.927	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24613 RAVENNA AVE	33	33	1.32	8.26	3.705	3.57	1.639	0.285	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24616 MARBELLA AVE	46	44	2.24	32.2	6.947	5.035	6.089	0.898	5	0.109	0.0786	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24617 MARBELLA AVE	34	34	2.69	17.2	8.529	7.72	3.333	0.572	6	0.176	0.00627	Reject H0, Conclude Site Proportion > 0.05		
24618 NEPTUNE AVE	26	24	2.69	8.68	4.911	4.61	1.603	0.314	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24618 PANAMA AVE	28	28	1.58	18.2	4.026	3.115	3.248	0.614	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24618 RAVENNA AVE	40	39	1.81	15.1	4.787	4.22	2.632	0.416	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24619 NEPTUNE AVE	28	27	3.58	14.2	7.708	7.19	3.327	0.629	3	0.107	0.163	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24619 PANAMA AVE	38	38	1.19	15	3.919	3.375	2.547	0.413	1	0.0263	0.858	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24619 RAVENNA AVE	35	35	1.55	8.63	3.517	3.15	1.565	0.264	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24622 MARBELLA AVE	53	49	0.54	28.4	7.661	6.29	4.927	0.677	6	0.113	0.0482	Reject H0, Conclude Site Proportion > 0.05		
24622 NEPTUNE AVE	34	34	2.41	13.2	4.764	4.02	2.539	0.435	1	0.0294	0.825	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24623 MARBELLA AVE	32	32	3.01	25.8	7.075	5.66	4.632	0.819	3	0.0938	0.214	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24623 NEPTUNE AVE	36	33	4.28	16	8.68	8.065	3.1	0.517	7	0.194	0.00181	Reject H0, Conclude Site Proportion > 0.05		
24627 MARBELLA AVE	48	46	2.02	20.5	6.605	5.475	3.511	0.507	4	0.0833	0.218	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24628 MARBELLA AVE	52	47	2.4	25.6	7.353	5.94	4.495	0.623	8	0.154	0.00409	Reject H0, Conclude Site Proportion > 0.05		
24628 NEPTUNE AVE	18	18	0.44	5.85	2.093	1.695	1.397	0.329	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24629 NEPTUNE AVE	39	39	3.63	13	7.941	7.89	2.53	0.405	2	0.0513	0.587	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24632 NEPTUNE AVE	20	20	2.44	11.2	5.376	4.6	2.338	0.523	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24633 MARBELLA AVE	40	40	3.1	27.7	7.584	6.59	4.379	0.682	4	0.1	0.138	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24700 MARBELLA AVE	46	46	1.86	16.2	6.607	6.35	2.283	0.337	1	0.0217	0.906	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24700 RAVENNA AVE	56	53	2.18	11.7	5.102	4.37	2.32	0.31	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24702 NEPTUNE AVE	46	41	0.84	7.49	2.476	1.905	1.561	0.23	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24702 PANAMA AVE	30	29	2.32	13.4	6.025	5.475	2.274	0.415	1	0.0333	0.785	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24703 MARBELLA AVE	36	35	2.33	12.8	5.411	4.645	2.366	0.394	1	0.0278	0.842	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24703 NEPTUNE AVE	39	38	1.01	10.9	4.553	4.41	2.938	0.47	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24703 RAVENNA AVE	53	47	0.88	9.93	3.148	2.36	2.04	0.28	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24706 MARBELLA AVE	43	42	2.89	11.5	5.653	5.53	1.92	0.293	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24706 RAVENNA AVE	33	32	2.12	13.6	4.941	4.08	2.667	0.464	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24707 MARBELLA AVE	37	37	3.28	11.2	6.092	5.82	1.737	0.286	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24708 PANAMA AVE	37	35	1.59	12.1	5.194	5.02	2.585	0.425	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24709 NEPTUNE AVE	37	35	2.75	16.8	6.665	5.73	2.951	0.485	2	0.0541	0.558	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24709 PANAMA AVE	43	43	1.49	11.4	4.291	3.73	2.082	0.318	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24709 RAVENNA AVE	52	49	1.84	11.5	4.351	4.415	1.455	0.202	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24710 MARBELLA AVE	43	40	2.04	9.01	5.072	4.76	1.734	0.264	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24712 NEPTUNE AVE	32	32	1.42	11.5	4.733	4.18	2.226	0.393	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24712 PANAMA AVE	27	26	1.83	7.33	4.734	4.96	1.343	0.259	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24712 RAVENNA AVE	45	45	2.23	8.7	5.058	4.71	1.481	0.221	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24713 MARBELLA AVE	37	36	3.37	9.79	5.407	5.09	1.552	0.255	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24713 PANAMA AVE	34	32	2.3	16.5	5.969	5.3	2.919	0.501	2	0.0588	0.512	Do Not Reject H0, Conclude Site Proportion <= 0.05		
24713 RAVENNA AVE	35	34	1.31	6.31	3.57	3.54	1.422	0.24	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05		

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Arsenic (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24715 NEPTUNE AVE	37	36	2.78	16.7	6.627	6.37	3.388	0.557	3	0.0811	0.282	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 MARBELLA AVE	30	29	4.3	11.2	6.711	6.475	1.474	0.289	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 RAVENNA AVE	15	15	2.04	10.5	3.87	3.18	2.078	0.537	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24717 MARBELLA AVE	38	38	2.85	10.7	4.93	4.72	1.582	0.257	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 NEPTUNE AVE	65	61	1.02	7.88	3.282	3.14	1.725	0.214	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 PANAMA AVE	33	33	2.1	11.7	4.978	4.8	1.86	0.324	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 NEPTUNE AVE	33	32	2.32	8.64	5.502	5.57	1.642	0.286	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 PANAMA AVE	28	26	3.09	13.6	5.588	5.015	2.122	0.401	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 RAVENNA AVE	45	44	1.35	9.28	3.981	4.03	1.689	0.252	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 MARBELLA AVE	34	32	2.4	6.6	4.386	4.365	1.186	0.198	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 NEPTUNE AVE	40	40	1.06	5.46	2.45	2.305	1.064	0.168	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 PANAMA AVE	18	18	2.36	6.56	4.596	4.715	1.418	0.334	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 RAVENNA AVE	41	24	2	8.6	3.505	3.2	1.303	0.203	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 MARBELLA AVE	22	22	1.52	5.79	3.301	3.48	0.96	0.205	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 RAVENNA AVE	37	36	0.4	4.42	1.688	1.56	1.099	0.181	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24725 NEPTUNE AVE	35	33	2.07	6.63	4.247	4.01	1.238	0.209	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 MARBELLA AVE	49	45	4.23	11.4	6.76	6.45	1.458	0.208	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 RAVENNA AVE	37	36	1.17	5.68	2.992	3.14	1.318	0.217	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24727 MARBELLA AVE	40	39	2.47	8.17	4.635	4.41	1.34	0.212	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 NEPTUNE AVE	33	31	1.18	4.76	2.651	2.58	1.121	0.195	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 PANAMA AVE	31	30	1.43	10.8	3.966	4.1	1.965	0.353	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 NEPTUNE AVE	35	34	2.32	6.3	4.015	3.91	1.147	0.194	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 PANAMA AVE	34	33	1.78	8.85	3.853	3.41	1.735	0.297	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 RAVENNA AVE	16	16	1.53	6.51	3.489	2.685	1.692	0.423	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 MARBELLA AVE	37	35	0.66	9.03	5.213	5.58	1.704	0.28	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 NEPTUNE AVE	35	34	1.12	4.68	2.626	2.54	1.095	0.185	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 PANAMA AVE	33	32	1.34	6	3.621	3.75	1.338	0.233	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 RAVENNA AVE	42	38	0.4	5.82	1.74	1.655	1.15	0.177	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 MARBELLA AVE	32	31	2.76	8.98	4.965	4.775	1.385	0.245	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 PANAMA AVE	38	36	1.89	6.64	4.099	4.27	1.529	0.248	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 RAVENNA AVE	40	39	1.6	5.06	3.026	2.715	1.015	0.161	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24735 NEPTUNE AVE	36	36	0.95	4.92	2.588	2.395	1.137	0.189	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 MARBELLA AVE	52	49	1.33	8.55	4.282	4.18	1.615	0.224	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 RAVENNA AVE	43	38	1.56	5.62	3.491	3.51	0.938	0.143	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24737 MARBELLA AVE	28	28	1.71	6.3	3.663	3.835	1.267	0.239	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 NEPTUNE AVE	51	49	1.52	5.76	3.131	2.97	1.185	0.166	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 PANAMA AVE	32	31	0.84	4.61	2.606	2.545	1.093	0.193	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 NEPTUNE AVE	41	38	0.65	7.14	2.64	2.34	1.551	0.242	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 PANAMA AVE	43	43	0.93	9.32	3.195	3.01	1.62	0.247	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 RAVENNA AVE	42	39	0.4	4.09	1.604	1.665	0.889	0.137	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24740 MARBELLA AVE	64	62	2.07	10.8	4.594	4.51	1.418	0.177	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24741 MARBELLA AVE	12	12	2.77	5.39	4.378	4.42	0.747	0.216	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24743 MARBELLA AVE	42	36	0.62	4.3	2.217	2.18	1.092	0.169	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24744 MARBELLA AVE	25	24	1.71	5.81	3.609	3.43	1.165	0.233	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24748 RAVENNA AVE	24	24	3.31	6.9	4.891	4.77	0.96	0.196	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24749 RAVENNA AVE	43	40	1.52	6.22	2.788	2.77	0.794	0.121	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24752 RAVENNA AVE	45	40	1.86	5.5	3.376	3.22	0.746	0.111	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24802 PANAMA AVE	47	46	1.26	5.33	3.246	3.22	1.19	0.174	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 NEPTUNE AVE	32	31	1.17	6.7	2.569	2.26	1.284	0.227	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 PANAMA AVE	18	18	1.48	5.03	2.726	2.67	1.071	0.252	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 NEPTUNE AVE	27	25	0.62	3.01	1.403	1.14	0.693	0.133	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 PANAMA AVE	36	36	1.47	6.83	2.749	2.41	1.163	0.194	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24812 PANAMA AVE	29	27	0.58	3.54	2.047	2.29	0.926	0.172	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24813 PANAMA AVE	15	14	1.06	4.47	2.732	2.33	1.123	0.29	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

**Appendix 6  
ProUCL Output of One Sample Proportion Test Results**

One Sample Proportion Test Results - Arsenic (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24815 NEPTUNE AVE	30	29	1.16	5.2	2.604	2.32	1.094	0.2	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24818 PANAMA AVE	34	34	0.92	4.33	2.487	2.645	1.022	0.175	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24819 PANAMA AVE	34	31	2.63	6.01	3.99	3.945	0.929	0.159	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24822 PANAMA AVE	43	41	1.72	5.75	3.369	3.54	1.318	0.201	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24823 PANAMA AVE	39	37	2.27	5.9	3.832	3.97	0.866	0.139	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24825 NEPTUNE AVE	98	86	1.47	6.45	3.425	3.2	1.139	0.115	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24828 PANAMA AVE	36	33	0.55	3.77	1.877	1.94	0.91	0.152	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24829 PANAMA AVE	48	43	0.89	8.67	2.318	2.215	1.136	0.164	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24832 PANAMA AVE	38	33	0.4	3.9	1.692	1.495	0.837	0.136	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24833 PANAMA AVE	43	40	0.58	3.8	1.725	1.69	0.782	0.116	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24838 PANAMA AVE	28	27	1.54	7.23	4.068	4.17	1.596	0.302	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24904 NEPTUNE AVE	74	64	1.54	6.59	4.054	4.115	0.922	0.107	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24912 NEPTUNE AVE	36	34	1.61	6.07	3.427	2.965	1.315	0.219	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
301 244TH ST	29	25	0.4	14	2.769	1.79	3.347	0.621	1	0.0345	0.774	Do Not Reject H0, Conclude Site Proportion <= 0.05	
305 244TH ST	54	54	1.91	28.2	8.046	6.97	5.174	0.704	9	0.167	0.00134	Reject H0, Conclude Site Proportion > 0.05	
311 244TH ST	71	69	0.75	39.6	7.078	6.82	4.825	0.573	4	0.0563	0.477	Do Not Reject H0, Conclude Site Proportion <= 0.05	
317 244TH ST	58	56	0.89	20.2	7.549	7.59	3.708	0.487	4	0.069	0.33	Do Not Reject H0, Conclude Site Proportion <= 0.05	
321 244TH ST	40	40	3.44	50.9	8.714	6.715	7.741	1.224	6	0.15	0.0139	Reject H0, Conclude Site Proportion > 0.05	
327 244TH ST	12	12	2.32	10.9	5.581	5.31	2.52	0.728	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
331 244TH ST	28	28	1.95	62.9	11.65	7.05	13.13	2.481	6	0.214	0.00227	Reject H0, Conclude Site Proportion > 0.05	
337 244TH ST	34	34	2.59	19.3	7.901	6.67	4.164	0.714	5	0.147	0.0299	Reject H0, Conclude Site Proportion > 0.05	
341 244TH ST	48	46	5.12	19.3	8.239	7.53	2.563	0.37	4	0.0833	0.218	Do Not Reject H0, Conclude Site Proportion <= 0.05	
344 249TH ST	35	33	1.13	4.73	2.755	2.57	1.21	0.204	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
345 249TH ST	93	82	1.01	5.99	3.201	3.04	1.053	0.109	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
347 244TH ST	32	32	4.48	14.2	7.07	6.795	1.865	0.33	1	0.0313	0.806	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 248TH ST	49	47	1.01	5.58	2.644	2.4	1.21	0.173	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
349 249TH ST	51	49	0.4	6.55	3.214	3.12	1.513	0.212	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
351 244TH ST	32	31	3.03	8.58	5.286	5.25	1.198	0.154	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
352 249TH ST	32	32	1.28	4.32	2.8	2.865	0.87	0.154	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
353 249TH ST	32	29	2.18	11.1	5.098	4.875	1.909	0.338	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
354 248TH ST	39	37	1.72	6.21	3.225	2.86	1.235	0.198	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 244TH ST	40	39	3.86	9.56	6.291	6.425	1.377	0.218	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 249TH ST	24	24	2.05	6.17	4.043	4.03	1.141	0.233	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
358 249TH ST	43	42	0.4	4.93	2.196	2.04	1.155	0.176	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
360 248TH ST	48	46	2.77	8.26	5.189	5.08	1.194	0.172	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
361 244TH ST	23	23	3.46	9.84	5.449	5.46	1.57	0.327	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
362 249TH ST	25	24	1.16	5.67	3.285	3.09	1.51	0.302	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
363 249TH ST	27	26	0.53	6.3	2.68	2.15	1.758	0.338	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
364 248TH ST	48	42	1.32	4.86	2.497	2.38	0.766	0.111	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 244TH ST	13	13	1.34	5.55	3.919	4.08	1.203	0.334	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 249TH ST	46	45	0.7	5.96	3.295	3.355	1.331	0.196	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
368 249TH ST	55	51	0.94	7.22	2.244	1.98	1.092	0.147	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
373 249TH ST	42	41	0.4	5.06	2.152	2.115	0.956	0.147	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 248TH ST	120	109	0.51	7.46	2.911	2.87	1.423	0.13	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 249TH ST	27	25	0.4	3.38	1.237	1	0.835	0.161	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 244TH ST	32	31	3.24	11.6	5.502	4.935	2.019	0.357	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 249TH ST	33	20	0.4	2.54	0.871	0.65	0.554	0.0965	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
378 249TH ST	41	38	0.42	4.38	2.442	2.32	1.015	0.159	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
383 249TH ST	32	29	1.37	6.86	2.618	2.41	0.994	0.176	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
402 249TH ST	32	31	0.69	3.6	2.271	2.525	0.906	0.16	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
408 249TH ST	24	23	0.76	6.7	2.871	2.27	1.673	0.341	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
412 249TH ST	77	71	1.12	11.5	4.346	4.26	2.039	0.232	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 Product Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Cadmium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24401 MARBELLA AVE	33	20	0.09	1.16	0.354	0.31	0.195	0.0339	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 NEPTUNE AVE	48	1	0.09	0.09	0.09	0.09	4.21E-17	6.07E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 PANAMA AVE	127	20	0.09	0.83	0.123	0.09	0.0969	0.0086	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 RAVENNA AVE	40	15	0.01	1.54	0.162	0.09	0.312	0.0493	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 NEPTUNE AVE	46	1	0.09	0.09	0.09	0.09	4.21E-17	6.21E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 RAVENNA AVE	62	14	0.09	0.58	0.128	0.1	0.0748	0.0095	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24405 MARBELLA AVE	25	12	0.09	0.21	0.14	0.14	0.0378	0.00756	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 MARBELLA AVE	40	18	0.03	0.7	0.142	0.09	0.142	0.0225	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 NEPTUNE AVE	28	17	0.09	0.75	0.404	0.455	0.228	0.0431	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 PANAMA AVE	23	3	0.01	0.09	0.07	0.09	0.0346	0.00722	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 RAVENNA AVE	26	11	0.01	0.47	0.0927	0.09	0.102	0.0201	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 NEPTUNE AVE	24	12	0.09	1.85	0.4	0.26	0.412	0.0842	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 RAVENNA AVE	33	27	0.09	1.4	0.608	0.66	0.343	0.0597	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24410 PANAMA AVE	33	7	0.09	0.36	0.12	0.09	0.0733	0.0128	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 MARBELLA AVE	69	14	0.09	0.45	0.121	0.09	0.0654	0.00787	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 PANAMA AVE	37	3	0.09	6.33	0.373	0.09	1.222	0.201	2	0.0541	0.558	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 MARBELLA AVE	31	15	0.09	1.68	0.275	0.14	0.369	0.0663	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 RAVENNA AVE	61	1	0.09	0.09	0.09	0.09	7.00E-17	8.96E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 NEPTUNE AVE	24	6	0.09	2.05	0.223	0.09	0.432	0.0883	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 RAVENNA AVE	28	5	0.09	0.98	0.158	0.09	0.216	0.0409	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 MARBELLA AVE	50	7	0.09	0.93	0.129	0.09	0.14	0.0197	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 NEPTUNE AVE	21	16	0.12	0.38	0.22	0.22	0.0711	0.0155	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 PANAMA AVE	33	15	0.09	0.37	0.156	0.13	0.0779	0.0136	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 RAVENNA AVE	42	3	0.01	1.22	0.107	0.09	0.178	0.0274	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 MARBELLA AVE	8	1	0.09	0.09	0.09	0.09	1.48E-17	5.25E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 PANAMA AVE	47	16	0.09	0.57	0.138	0.09	0.0914	0.0133	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 NEPTUNE AVE	32	1	0.09	0.09	0.09	0.09	1.41E-17	2.49E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 RAVENNA AVE	32	3	0.01	0.43	0.0881	0.09	0.069	0.0122	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24420 PANAMA AVE	33	5	0.09	1.09	0.127	0.09	0.174	0.0303	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24421 PANAMA AVE	30	9	0.09	0.34	0.122	0.09	0.0728	0.0133	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 MARBELLA AVE	43	10	0.09	0.81	0.145	0.09	0.16	0.0244	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 NEPTUNE AVE	36	3	0.01	0.22	0.0803	0.09	0.0385	0.00642	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 RAVENNA AVE	29	7	0.01	0.15	0.0379	0.01	0.0489	0.00908	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 MARBELLA AVE	13	2	0.09	1.7	0.214	0.09	0.447	0.124	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 NEPTUNE AVE	37	11	0.09	0.39	0.132	0.1	0.067	0.011	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 RAVENNA AVE	40	5	0.01	0.38	0.0878	0.09	0.0573	0.00906	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 MARBELLA AVE	24	6	0.01	0.79	0.115	0.09	0.148	0.0302	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 NEPTUNE AVE	30	2	0.01	0.09	0.074	0.09	0.0325	0.00594	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 PANAMA AVE	30	10	0.09	0.75	0.158	0.09	0.152	0.0277	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 RAVENNA AVE	49	2	0.09	0.8	0.104	0.09	0.101	0.0145	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 MARBELLA AVE	25	1	0.09	0.09	0.09	0.09	2.83E-17	5.67E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 PANAMA AVE	38	2	0.09	1.08	0.116	0.09	0.161	0.0261	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 NEPTUNE AVE	19	1	0.09	0.09	0.09	0.09	2.85E-17	6.54E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 RAVENNA AVE	29	15	0.09	0.44	0.178	0.12	0.107	0.0199	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24430 PANAMA AVE	30	3	0.01	1.37	0.125	0.09	0.236	0.0432	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24431 PANAMA AVE	35	12	0.09	1.12	0.176	0.09	0.221	0.0373	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24432 MARBELLA AVE	67	14	0.09	0.66	0.141	0.09	0.138	0.0169	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24433 MARBELLA AVE	27	5	0.01	0.32	0.0907	0.09	0.0788	0.0152	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24436 PANAMA AVE	35	1	0.09	0.09	0.09	0.09	2.82E-17	4.76E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 MARBELLA AVE	51	26	0.09	2.8	0.357	0.11	0.521	0.0729	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 NEPTUNE AVE	58	2	0.01	0.09	0.0817	0.09	0.0246	0.00323	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 PANAMA AVE	48	3	0.01	0.14	0.081	0.09	0.0281	0.00405	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 RAVENNA AVE	44	4	0.09	0.25	0.0984	0.09	0.0296	0.00447	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 MARBELLA AVE	29	1	0.09	0.09	0.09	0.09	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Cadmium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24503 NEPTUNE AVE	60	11	0.09	0.72	0.146	0.09	0.156	0.0201	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 PANAMA AVE	28	12	0.01	0.27	0.132	0.13	0.0507	0.00957	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 RAVENNA AVE	34	2	0.09	0.14	0.0959	0.09	0.0164	0.00028	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24506 MARBELLA AVE	36	19	0.01	0.47	0.159	0.14	0.103	0.0172	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24507 MARBELLA AVE	36	17	0.09	0.34	0.175	0.18	0.0594	0.00991	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 NEPTUNE AVE	40	1	0.09	0.09	0.09	0.09	4.22E-17	6.67E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 PANAMA AVE	24	1	0.09	0.09	0.09	0.09	2.84E-17	5.79E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 RAVENNA AVE	39	4	0.09	0.28	0.0977	0.09	0.0316	0.00506	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 NEPTUNE AVE	31	19	0.09	0.64	0.327	0.36	0.172	0.031	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 PANAMA AVE	47	12	0.09	1.85	0.164	0.09	0.269	0.0392	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 RAVENNA AVE	37	2	0.09	1	0.115	0.09	0.15	0.0246	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 MARBELLA AVE	48	28	0.26	0.73	0.499	0.505	0.0993	0.0143	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 NEPTUNE AVE	36	23	0.4	1.36	0.626	0.575	0.173	0.0289	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 PANAMA AVE	28	3	0.09	0.27	0.0996	0.09	0.0375	0.00708	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 RAVENNA AVE	46	20	0.09	0.31	0.163	0.14	0.0745	0.011	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 NEPTUNE AVE	37	4	0.09	0.27	0.0962	0.09	0.0299	0.00492	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 PANAMA AVE	51	2	0.09	0.12	0.0912	0.09	0.00588	0.00082353	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 RAVENNA AVE	30	11	0.09	0.37	0.125	0.09	0.068	0.0124	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24516 MARBELLA AVE	30	1	0.09	0.09	0.09	0.09	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24517 MARBELLA AVE	12	9	0.01	0.98	0.458	0.585	0.351	0.101	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 NEPTUNE AVE	45	15	0.09	0.46	0.219	0.25	0.104	0.0156	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 PANAMA AVE	42	8	0.01	0.44	0.102	0.09	0.0764	0.0118	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 RAVENNA AVE	30	10	0.09	0.58	0.132	0.09	0.105	0.0192	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 NEPTUNE AVE	35	7	0.09	6.88	0.309	0.09	1.146	0.194	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 PANAMA AVE	30	8	0.09	0.51	0.13	0.09	0.105	0.0193	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 MARBELLA AVE	27	11	0.09	0.39	0.158	0.09	0.0909	0.0175	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 NEPTUNE AVE	28	14	0.09	0.58	0.285	0.31	0.172	0.0326	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 PANAMA AVE	36	1	0.09	0.09	0.09	0.09	0.034	0.00575	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 RAVENNA AVE	35	6	0.09	0.28	0.101	0.09	0.034	0.00575	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 MARBELLA AVE	45	14	0.09	0.63	0.145	0.09	0.123	0.0183	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 NEPTUNE AVE	37	5	0.09	0.36	0.108	0.09	0.0576	0.00947	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 RAVENNA AVE	17	7	0.09	0.73	0.146	0.09	0.159	0.0387	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24526 MARBELLA AVE	36	12	0.09	0.57	0.137	0.09	0.0926	0.0154	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 NEPTUNE AVE	31	9	0.09	0.28	0.118	0.09	0.0504	0.00906	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 PANAMA AVE	39	2	0.14	0.2	0.142	0.14	0.00961	0.00154	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 NEPTUNE AVE	32	4	0.09	0.72	0.131	0.09	0.15	0.0266	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 PANAMA AVE	24	13	0.09	0.59	0.279	0.32	0.163	0.0332	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 RAVENNA AVE	26	14	0.09	3.72	0.327	0.105	0.73	0.143	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 MARBELLA AVE	27	14	0.01	0.33	0.135	0.15	0.103	0.0198	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 NEPTUNE AVE	21	7	0.09	1.35	0.212	0.09	0.304	0.0662	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 PANAMA AVE	23	17	0.14	0.43	0.29	0.28	0.0704	0.0147	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 RAVENNA AVE	29	2	0.09	0.12	0.091	0.09	0.00557	0.00103	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 MARBELLA AVE	29	18	0.01	2.6	0.415	0.24	0.603	0.121	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 PANAMA AVE	25	3	0.09	1.1	0.131	0.09	0.19	0.0352	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 RAVENNA AVE	52	6	0.09	0.42	0.112	0.09	0.0558	0.00773	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 MARBELLA AVE	34	25	0.25	1.2	0.595	0.575	0.203	0.0347	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 NEPTUNE AVE	33	1	0.09	0.09	0.09	0.09	1.41E-17	2.45E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 PANAMA AVE	40	1	0.09	0.09	0.09	0.09	4.22E-17	6.67E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 RAVENNA AVE	26	3	0.01	0.17	0.0357	0.01	0.0438	0.00828	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 MARBELLA AVE	28	5	0.01	0.31	0.102	0.09	0.0786	0.0154	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 NEPTUNE AVE	49	5	0.09	0.2	0.0949	0.09	0.0195	0.00278	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 PANAMA AVE	30	1	0.09	0.09	0.09	0.09	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 RAVENNA AVE	31	6	0.01	0.22	0.0877	0.09	0.0455	0.00817	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24606 MARBELLA AVE	63	7	0.09	0.33	0.0989	0.09	0.0346	0.00436	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Cadmium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24607 MARBELLA AVE	31	15	0.09	0.65	0.17	0.1	0.124	0.0223	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 NEPTUNE AVE	37	1	0.09	0.09	0.09	0.09	2.81E-17	4.63E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 PANAMA AVE	22	9	0.09	0.27	0.143	0.15	0.0494	0.0105	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 RAVENNA AVE	40	7	0.09	1	0.128	0.09	0.153	0.0242	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 NEPTUNE AVE	30	5	0.09	0.39	0.105	0.09	0.0555	0.0101	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 PANAMA AVE	34	3	0.09	0.38	0.0997	0.09	0.0498	0.00853	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 RAVENNA AVE	45	4	0.09	0.6	0.108	0.09	0.0825	0.0123	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 MARBELLA AVE	51	17	0.09	3.08	0.244	0.1	0.419	0.0587	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 NEPTUNE AVE	47	6	0.09	0.77	0.149	0.14	0.136	0.0198	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 PANAMA AVE	33	19	0.14	0.51	0.272	0.27	0.107	0.0186	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 RAVENNA AVE	46	14	0.09	0.61	0.142	0.12	0.0941	0.0139	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 MARBELLA AVE	52	1	0.09	0.09	0.09	0.09	5.61E-17	7.77E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 NEPTUNE AVE	39	9	0.09	0.33	0.177	0.09	0.0978	0.0157	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 PANAMA AVE	51	2	0.09	0.2	0.0922	0.09	0.0154	0.00216	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 RAVENNA AVE	33	10	0.09	0.32	0.131	0.09	0.0653	0.0114	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24616 MARBELLA AVE	46	9	0.09	0.28	0.11	0.09	0.0437	0.00644	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24617 MARBELLA AVE	34	24	0.09	1.02	0.383	0.335	0.212	0.0363	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 NEPTUNE AVE	26	1	0.09	0.09	0.09	0.09	1.42E-17	2.78E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 PANAMA AVE	28	5	0.09	0.63	0.141	0.09	0.135	0.0254	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 RAVENNA AVE	40	10	0.09	0.19	0.113	0.1	0.0308	0.00487	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 NEPTUNE AVE	28	1	0.09	0.09	0.09	0.09	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 PANAMA AVE	38	6	0.09	0.21	0.101	0.09	0.0296	0.0048	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 RAVENNA AVE	35	6	0.09	0.32	0.106	0.09	0.0474	0.008	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 MARBELLA AVE	53	2	0.09	1.03	0.108	0.09	0.129	0.0177	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 NEPTUNE AVE	34	19	0.09	0.61	0.302	0.325	0.151	0.0258	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 MARBELLA AVE	32	17	0.09	0.57	0.197	0.19	0.096	0.017	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 NEPTUNE AVE	36	2	0.09	0.24	0.0942	0.09	0.025	0.00417	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24627 MARBELLA AVE	48	1	0.09	0.09	0.09	0.09	4.21E-17	6.07E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24628 MARBELLA AVE	52	19	0.01	0.78	0.099	0.03	0.155	0.0215	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24628 NEPTUNE AVE	18	1	0.09	0.09	0.09	0.09	2.86E-17	6.73E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24629 NEPTUNE AVE	39	2	0.09	0.1	0.0903	0.09	0.0016	0.00025641	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24632 NEPTUNE AVE	20	2	0.01	0.09	0.078	0.09	0.0293	0.00655	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24633 MARBELLA AVE	40	8	0.14	0.58	0.14	0.14	0.0901	0.0142	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 MARBELLA AVE	46	2	0.09	0.3	0.0946	0.09	0.031	0.00457	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 RAVENNA AVE	56	1	0.09	0.09	0.09	0.09	5.60E-17	7.49E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 NEPTUNE AVE	46	4	0.09	0.39	0.0974	0.09	0.0442	0.00652	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 PANAMA AVE	30	3	0.09	1.72	0.157	0.09	0.304	0.0554	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 MARBELLA AVE	36	15	0.09	0.66	0.194	0.09	0.144	0.0241	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 NEPTUNE AVE	39	11	0.01	0.65	0.117	0.09	0.105	0.0168	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 RAVENNA AVE	53	4	0.09	0.29	0.0951	0.09	0.0285	0.00392	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 MARBELLA AVE	43	4	0.09	0.53	0.102	0.09	0.0673	0.0103	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 RAVENNA AVE	33	4	0.09	0.19	0.0948	0.09	0.0192	0.00335	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24707 MARBELLA AVE	37	1	0.09	0.09	0.09	0.09	2.81E-17	4.63E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24707 PANAMA AVE	37	12	0.09	0.72	0.178	0.09	0.162	0.0266	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 NEPTUNE AVE	37	1	0.09	0.09	0.09	0.09	2.81E-17	4.63E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 PANAMA AVE	43	5	0.01	0.15	0.0749	0.09	0.0363	0.00554	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 RAVENNA AVE	52	6	0.09	0.15	0.0935	0.09	0.0122	0.00169	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24710 MARBELLA AVE	43	13	0.09	0.52	0.14	0.09	0.0877	0.0134	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 NEPTUNE AVE	32	1	0.09	0.09	0.09	0.09	1.41E-17	2.49E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 PANAMA AVE	27	4	0.09	0.23	0.0989	0.09	0.0299	0.00576	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 RAVENNA AVE	45	4	0.09	0.18	0.0976	0.09	0.0225	0.00335	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 MARBELLA AVE	37	9	0.09	0.34	0.124	0.09	0.0617	0.0101	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 PANAMA AVE	34	22	0.01	0.62	0.206	0.16	0.169	0.0289	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 RAVENNA AVE	35	13	0.09	0.61	0.159	0.13	0.0895	0.0151	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 Product Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Cadmium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24715 NEPTUNE AVE	37	9	0.09	0.47	0.128	0.09	0.0951	0.0156	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 MARBELLA AVE	30	1	0.09	0.09	0.09	0.09	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 RAVENNA AVE	15	5	0.09	0.2	0.106	0.09	0.0342	0.00883	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24717 MARBELLA AVE	38	7	0.09	0.09	0.09	0.09	2.81E-17	4.56E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 NEPTUNE AVE	65	1	0.09	0.19	0.0863	0.09	0.0164	0.00204	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 PANAMA AVE	33	2	0.09	0.28	0.0958	0.09	0.0331	0.00576	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 NEPTUNE AVE	33	1	0.09	0.09	0.09	0.09	1.41E-17	2.45E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 PANAMA AVE	28	1	0.09	0.09	0.09	0.09	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 RAVENNA AVE	45	4	0.09	0.17	0.0929	0.09	0.0129	0.00192	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 MARBELLA AVE	34	13	0.01	0.41	0.103	0.06	0.113	0.0193	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 NEPTUNE AVE	40	7	0.09	0.31	0.129	0.09	0.0741	0.0117	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 PANAMA AVE	18	1	0.09	0.09	0.09	0.09	2.86E-17	6.73E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 RAVENNA AVE	41	8	0.01	0.52	0.0398	0.01	0.0937	0.0146	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 MARBELLA AVE	22	2	0.09	0.58	0.112	0.09	0.104	0.0223	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 RAVENNA AVE	37	10	0.09	1.53	0.197	0.09	0.321	0.0528	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24725 NEPTUNE AVE	35	3	0.01	0.09	0.0777	0.09	0.0285	0.00482	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 MARBELLA AVE	49	1	0.09	0.09	0.09	0.09	4.21E-17	6.01E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 RAVENNA AVE	37	3	0.09	0.19	0.0932	0.09	0.0165	0.00271	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24727 MARBELLA AVE	40	21	0.09	0.69	0.333	0.32	0.117	0.0184	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 NEPTUNE AVE	33	1	0.09	0.09	0.09	0.09	1.41E-17	2.45E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 PANAMA AVE	31	15	0.09	2.12	0.311	0.12	0.478	0.0859	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 NEPTUNE AVE	36	2	0.01	0.09	0.0786	0.09	0.0284	0.0048	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 PANAMA AVE	34	6	0.09	0.15	0.0953	0.09	0.0148	0.00254	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 RAVENNA AVE	16	1	0.09	0.09	0.09	0.09	1.43E-17	3.58E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 MARBELLA AVE	37	1	0.09	0.09	0.09	0.09	2.81E-17	4.63E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 NEPTUNE AVE	35	7	0.09	0.3	0.107	0.09	0.0481	0.00814	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 PANAMA AVE	33	6	0.09	1.16	0.172	0.09	0.254	0.0443	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 RAVENNA AVE	42	2	0.09	0.15	0.0914	0.09	0.00926	0.00143	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 MARBELLA AVE	32	19	0.09	0.44	0.197	0.17	0.0967	0.0171	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 PANAMA AVE	38	17	0.11	0.5	0.179	0.16	0.0723	0.0117	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 RAVENNA AVE	40	18	0.01	0.43	0.236	0.255	0.114	0.018	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24735 NEPTUNE AVE	36	1	0.09	0.09	0.09	0.09	2.82E-17	4.69E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 MARBELLA AVE	62	2	0.09	0.5	0.0979	0.09	0.0569	0.00788	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 RAVENNA AVE	43	9	0.09	0.39	0.137	0.09	0.103	0.0157	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24737 MARBELLA AVE	28	2	0.09	0.86	0.118	0.09	0.146	0.0275	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 NEPTUNE AVE	51	5	0.01	0.32	0.0863	0.09	0.0432	0.00605	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 PANAMA AVE	32	8	0.09	0.57	0.151	0.09	0.121	0.0214	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 NEPTUNE AVE	41	6	0.09	0.61	0.14	0.09	0.138	0.0216	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 PANAMA AVE	43	17	0.09	0.57	0.258	0.26	0.104	0.0159	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 RAVENNA AVE	42	7	0.09	0.55	0.118	0.09	0.0905	0.014	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24740 MARBELLA AVE	64	1	0.09	0.09	0.09	0.09	6.99E-17	8.74E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24741 MARBELLA AVE	12	2	0.09	0.14	0.0942	0.09	0.0144	0.00417	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24741 RAVENNA AVE	42	20	0.01	0.44	0.192	0.24	0.116	0.018	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24744 MARBELLA AVE	25	2	0.09	0.14	0.092	0.09	0.01	0.002	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24748 RAVENNA AVE	24	1	0.09	0.09	0.09	0.09	2.84E-17	5.79E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24749 RAVENNA AVE	43	4	0.09	0.34	0.1	0.09	0.0423	0.00645	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24752 RAVENNA AVE	45	4	0.09	0.39	0.0987	0.09	0.0454	0.00677	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24802 PANAMA AVE	47	5	0.09	0.41	0.106	0.09	0.0612	0.00893	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 NEPTUNE AVE	32	4	0.09	0.39	0.104	0.09	0.056	0.00991	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 PANAMA AVE	18	2	0.09	0.11	0.0911	0.09	0.00471	0.00111	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 NEPTUNE AVE	27	4	0.09	9.02	0.43	0.09	1.717	0.33	1	0.037	0.75	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 PANAMA AVE	36	2	0.09	0.13	0.0911	0.09	0.00667	0.00111	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24812 PANAMA AVE	29	3	0.09	0.28	0.108	0.09	0.0551	0.0102	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24813 PANAMA AVE	15	1	0.09	0.09	0.09	0.09	1.44E-17	3.71E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 PROCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Cadmium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24815 NEPTUNE AVE	30	9	0.01	0.93	0.14	0.09	0.175	0.0319	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24818 PANAMA AVE	34	1	0.09	0.09	0.09	0.09	2.82E-17	4.83E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24819 PANAMA AVE	34	2	0.09	0.63	0.106	0.09	0.0926	0.0159	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24822 PANAMA AVE	43	3	0.09	0.31	0.0958	0.09	0.0338	0.00515	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24823 PANAMA AVE	39	5	0.09	0.26	0.099	0.09	0.0342	0.00547	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24825 NEPTUNE AVE	98	20	0.01	0.82	0.128	0.1	0.0992	0.01	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24828 PANAMA AVE	36	14	0.1	0.58	0.174	0.145	0.0945	0.0158	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24829 PANAMA AVE	48	1	0.09	0.09	0.09	0.09	4.21E-17	6.07E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24832 PANAMA AVE	38	8	0.09	0.4	0.11	0.09	0.0565	0.00916	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24833 PANAMA AVE	43	2	0.09	0.34	0.0958	0.09	0.0381	0.00681	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24838 PANAMA AVE	28	3	0.01	0.11	0.0736	0.09	0.034	0.00643	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24904 NEPTUNE AVE	74	1	0.09	0.09	0.09	0.09	8.38E-17	9.75E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24912 NEPTUNE AVE	36	2	0.01	0.09	0.0767	0.09	0.0302	0.00504	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
301 244TH ST	29	2	0.09	0.15	0.0921	0.09	0.0111	0.00207	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
305 244TH ST	54	10	0.09	1.39	0.146	0.14	0.193	0.0263	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
311 244TH ST	71	26	0.09	3.76	0.297	0.14	0.568	0.0674	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
317 244TH ST	58	24	0.09	0.43	0.177	0.15	0.0812	0.0107	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
321 244TH ST	40	16	0.09	1	0.175	0.13	0.154	0.0244	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
327 244TH ST	12	1	0.09	0.09	0.09	0.09	1.45E-17	4.18E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
331 244TH ST	28	11	0.09	1.12	0.184	0.11	0.206	0.0389	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
337 244TH ST	34	18	0.09	1.18	0.31	0.29	0.184	0.0315	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
341 244TH ST	48	1	0.09	0.09	0.09	0.09	4.21E-17	6.07E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
344 249TH ST	35	5	0.09	0.78	0.128	0.09	0.13	0.0219	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
345 249TH ST	93	46	0.01	1.93	0.671	0.19	0.64	0.0664	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
347 244TH ST	32	1	0.09	0.09	0.09	0.09	1.41E-17	2.49E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 248TH ST	49	4	0.09	0.18	0.0929	0.09	0.0134	0.00191	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 249TH ST	51	10	0.09	0.22	0.102	0.09	0.0277	0.00387	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
351 244TH ST	32	6	0.01	0.4	0.0897	0.09	0.0689	0.0141	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
352 249TH ST	32	6	0.01	0.47	0.0922	0.09	0.0796	0.0141	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
353 249TH ST	32	1	0.09	0.09	0.09	0.09	1.41E-17	2.49E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
354 248TH ST	39	9	0.09	0.79	0.134	0.09	0.133	0.0214	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 244TH ST	40	1	0.09	0.09	0.09	0.09	4.22E-17	6.67E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 249TH ST	24	1	0.09	0.09	0.09	0.09	2.84E-17	5.79E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
358 249TH ST	43	3	0.09	0.2	0.0944	0.09	0.0205	0.00313	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
360 248TH ST	48	15	0.16	0.74	0.288	0.27	0.0796	0.0115	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
361 244TH ST	23	2	0.01	0.09	0.0691	0.09	0.0359	0.00749	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
362 249TH ST	25	1	0.09	0.09	0.09	0.09	2.83E-17	5.67E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
363 249TH ST	27	11	0.09	2.89	0.357	0.09	0.584	0.112	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
364 248TH ST	48	11	0.09	0.37	0.127	0.09	0.0693	0.01	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 244TH ST	13	1	0.09	0.09	0.09	0.09	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 249TH ST	46	11	0.09	0.32	0.121	0.09	0.0474	0.00699	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
368 249TH ST	55	7	0.09	0.33	0.0995	0.09	0.0364	0.00491	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
373 249TH ST	42	10	0.09	0.56	0.181	0.09	0.144	0.0222	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 248TH ST	120	15	0.09	1.88	0.128	0.09	0.184	0.0168	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 249TH ST	27	6	0.09	0.33	0.112	0.09	0.0634	0.0122	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 244TH ST	32	8	0.09	0.47	0.118	0.09	0.0749	0.0132	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 249TH ST	33	1	0.09	0.09	0.09	0.09	1.41E-17	2.45E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
378 249TH ST	41	5	0.09	0.27	0.098	0.09	0.0308	0.00482	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
383 249TH ST	32	1	0.09	0.09	0.09	0.09	1.41E-17	2.49E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
402 249TH ST	32	8	0.09	0.53	0.12	0.09	0.083	0.0147	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
408 249TH ST	24	8	0.09	1.34	0.208	0.09	0.279	0.057	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
412 249TH ST	77	14	0.01	0.29	0.101	0.09	0.0496	0.00665	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

**Appendix 6  
ProUCL Output of One Sample Proportion Test Results**

One Sample Proportion Test Results - Cobalt (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24401 MARBELLA AVE	33	29	7.51	16	11.25	10.9	2.138	0.372	15	0.455	1.34E-11	Reject H0, Conclude Site Proportion > 0.05	
24402 NEPTUNE AVE	48	42	7.29	14	9.713	9.755	1.316	0.19	8	0.167	0.00245	Reject H0, Conclude Site Proportion > 0.05	
24402 PANAMA AVE	127	87	2.58	16.5	10.96	11.4	2.776	0.246	71	0.559		Reject H0, Conclude Site Proportion > 0.05	
24402 RAVENNA AVE	40	33	7.47	18.4	10.53	10.1	2.18	0.345	13	0.325	4.09E-08	Reject H0, Conclude Site Proportion > 0.05	
24403 NEPTUNE AVE	46	40	7.29	19	10.25	9.805	2.372	0.35	12	0.261	1.92E-06	Reject H0, Conclude Site Proportion > 0.05	
24403 RAVENNA AVE	62	50	5.24	17.3	10.07	9.925	1.759	0.223	13	0.21	1.00E-05	Reject H0, Conclude Site Proportion > 0.05	
24405 MARBELLA AVE	25	24	7.39	16.5	11.36	10.8	2.561	0.512	12	0.48	6.88E-10	Reject H0, Conclude Site Proportion > 0.05	
24406 MARBELLA AVE	40	33	6.29	15	10.34	10.3	2.025	0.32	14	0.35	4.10E-09	Reject H0, Conclude Site Proportion > 0.05	
24406 NEPTUNE AVE	28	27	7.26	14.1	9.709	9.305	1.745	0.33	6	0.214	0.00227	Reject H0, Conclude Site Proportion > 0.05	
24406 PANAMA AVE	23	22	4.93	15.8	9.741	10.2	2.729	0.569	7	0.304	9.40E-05	Reject H0, Conclude Site Proportion > 0.05	
24406 RAVENNA AVE	26	24	6.51	12	9.219	9.21	1.238	0.243	3	0.115	0.139	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 NEPTUNE AVE	24	22	6.49	10.8	8.915	9.135	1.19	0.243	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 RAVENNA AVE	33	28	6.67	12.6	9.54	9.45	1.491	0.259	6	0.182	0.00539	Reject H0, Conclude Site Proportion > 0.05	
24410 PANAMA AVE	33	30	3.82	16.5	8.864	8.96	2.759	0.48	6	0.182	0.00539	Reject H0, Conclude Site Proportion > 0.05	
24411 MARBELLA AVE	69	46	5.72	15.1	10.83	11	1.761	0.212	35	0.507	3.00E-27	Reject H0, Conclude Site Proportion > 0.05	
24411 PANAMA AVE	37	34	6.46	14.8	10.29	9.8	2.027	0.333	13	0.351	1.39E-08	Reject H0, Conclude Site Proportion > 0.05	
24412 MARBELLA AVE	31	28	7.8	31.3	12.01	11.3	4.148	0.745	17	0.548	1.03E-14	Reject H0, Conclude Site Proportion > 0.05	
24412 RAVENNA AVE	61	47	6.85	13.9	9.536	9.2	1.737	0.222	16	0.262	3.57E-08	Reject H0, Conclude Site Proportion > 0.05	
24413 NEPTUNE AVE	24	23	7.32	11.7	8.878	8.885	1.221	0.249	1	0.0417	0.708	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 RAVENNA AVE	28	28	5.19	13.5	8.782	8.585	2.023	0.382	4	0.143	0.0491	Reject H0, Conclude Site Proportion > 0.05	
24416 MARBELLA AVE	50	41	5.38	21.5	10.31	9.915	2.962	0.419	16	0.32	1.47E-09	Reject H0, Conclude Site Proportion > 0.05	
24416 NEPTUNE AVE	21	18	6.5	10.8	9.17	9.8	1.39	0.303	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 PANAMA AVE	33	33	4.41	12.2	8.582	8.38	2.154	0.375	7	0.212	0.00106	Reject H0, Conclude Site Proportion > 0.05	
24416 RAVENNA AVE	42	38	6.2	13.5	9.274	9.115	1.566	0.242	4	0.0952	0.157	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 MARBELLA AVE	8	7	9.75	13.9	11.46	11.45	1.34	0.474	4	0.625	1.54E-05	Reject H0, Conclude Site Proportion > 0.05	
24417 PANAMA AVE	47	43	4.63	13.6	9.306	9.22	1.816	0.265	9	0.191	0.0047065	Reject H0, Conclude Site Proportion > 0.05	
24419 NEPTUNE AVE	32	28	6.54	11.2	8.927	8.805	1.215	0.215	2	0.0625	0.48	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 RAVENNA AVE	32	32	5.84	14.4	8.411	8.275	1.876	0.332	3	0.0938	0.214	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24420 PANAMA AVE	33	32	2.68	11.5	7.664	7.68	1.936	0.337	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24421 PANAMA AVE	30	30	5.13	13.5	8.757	8.385	1.956	0.357	4	0.133	0.0608	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 MARBELLA AVE	43	41	5	14.1	8.791	8.67	1.723	0.263	4	0.093	0.167	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 NEPTUNE AVE	36	34	6.96	11.4	9.235	9.35	1.228	0.205	3	0.0833	0.268	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 RAVENNA AVE	29	26	6.73	11	9.209	9.16	1.121	0.208	1	0.0345	0.774	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 MARBELLA AVE	13	13	8.43	14.7	10.94	10.7	1.679	0.466	6	0.462	1.98E-05	Reject H0, Conclude Site Proportion > 0.05	
24423 NEPTUNE AVE	37	31	6.3	12.8	9.087	8.94	1.605	0.264	3	0.0811	0.282	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 RAVENNA AVE	40	38	5.53	13.5	8.318	8.165	1.794	0.284	5	0.125	0.048	Reject H0, Conclude Site Proportion > 0.05	
24426 MARBELLA AVE	24	22	5.68	12.4	8.758	8.71	1.603	0.327	2	0.0833	0.339	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 NEPTUNE AVE	30	30	5.9	12.2	9.204	9.108	1.652	0.302	5	0.167	0.0156	Reject H0, Conclude Site Proportion > 0.05	
24426 PANAMA AVE	30	30	2.7	14.2	8.907	9.15	2.776	0.507	8	0.267	8.46E-05	Reject H0, Conclude Site Proportion > 0.05	
24426 RAVENNA AVE	49	45	5.68	15.3	9.289	9.06	1.915	0.274	9	0.184	0.0064845	Reject H0, Conclude Site Proportion > 0.05	
24427 MARBELLA AVE	25	22	7.02	15.5	12.36	13.1	2.314	0.463	19	0.76	2.52E-20	Reject H0, Conclude Site Proportion > 0.05	
24427 PANAMA AVE	38	36	6.23	13.8	9.381	9.51	1.612	0.262	6	0.158	0.0109	Reject H0, Conclude Site Proportion > 0.05	
24427 NEPTUNE AVE	19	17	7.38	11.3	9.208	9.03	1.079	0.247	1	0.0526	0.623	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 RAVENNA AVE	29	29	5.14	11.5	8.237	8.16	1.386	0.257	2	0.069	0.429	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24430 PANAMA AVE	30	29	2.37	12.1	7.701	8.315	2.47	0.451	2	0.0667	0.446	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24431 PANAMA AVE	35	27	6.8	12.7	10.02	9.91	1.422	0.24	8	0.229	0.00027214	Reject H0, Conclude Site Proportion > 0.05	
24432 MARBELLA AVE	67	60	6.36	13.6	9.214	9.12	1.464	0.179	6	0.0896	0.118	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24433 MARBELLA AVE	27	23	7.04	16.5	12.13	11.7	2.204	0.424	18	0.667	1.16E-17	Reject H0, Conclude Site Proportion > 0.05	
24436 PANAMA AVE	35	33	1.84	11.7	7.019	7.27	2.411	0.408	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 MARBELLA AVE	51	47	5.7	13	9.274	9.29	1.772	0.248	11	0.216	3.61E-05	Reject H0, Conclude Site Proportion > 0.05	
24502 NEPTUNE AVE	58	53	4.33	11.7	7.525	7.415	1.512	0.199	2	0.0345	0.793	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 PANAMA AVE	48	46	1.27	12.7	7.15	7.42	2.371	0.342	1	0.0208	0.915	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 RAVENNA AVE	44	42	5.86	12.3	8.278	8.015	1.291	0.195	1	0.0227	0.895	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 MARBELLA AVE	29	22	9.36	24.9	12.66	11.7	3.494	0.649	20	0.69	6.16E-20	Reject H0, Conclude Site Proportion > 0.05	

**Appendix 6  
ProUCL Output of One Sample Proportion Test Results**

One Sample Proportion Test Results - Cobalt (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24503 NEPTUNE AVE	60	50	2.58	14.5	9.3	9.395	1.589	0.205	4	0.0667	0.353	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 PANAMA AVE	28	25	4.4	11.9	9.228	9.395	1.737	0.328	3	0.107	0.163	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 RAVENNA AVE	34	32	4.9	13.5	8.324	8.085	1.836	0.315	2	0.0588	0.512	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24506 MARBELLA AVE	36	33	5.35	17.1	9.615	9.455	2.119	0.353	6	0.167	0.00834	Reject H0, Conclude Site Proportion > 0.05	
24507 MARBELLA AVE	36	28	9.43	17.5	13.2	13.15	1.86	0.31	33	0.917	7.16E-40	Reject H0, Conclude Site Proportion > 0.05	
24508 NEPTUNE AVE	40	39	5.93	11.5	8.675	8.605	1.263	0.2	2	0.05	0.601	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 PANAMA AVE	24	24	1.98	12	7.505	8.22	2.971	0.606	3	0.125	0.116	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 RAVENNA AVE	39	37	6.59	11.7	9.003	8.76	1.523	0.244	7	0.179	0.00292	Reject H0, Conclude Site Proportion > 0.05	
24509 NEPTUNE AVE	31	28	3.24	11.3	8.098	7.86	1.649	0.296	1	0.0323	0.796	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 PANAMA AVE	47	43	6.01	11.7	8.519	8.35	1.298	0.189	1	0.0213	0.91	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 RAVENNA AVE	37	37	6.08	11.6	8.395	8.27	1.39	0.229	2	0.0541	0.558	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 MARBELLA AVE	48	39	7.49	16.9	10.3	10.25	2.004	0.289	17	0.354	7.26E-11	Reject H0, Conclude Site Proportion > 0.05	
24512 NEPTUNE AVE	36	32	6.64	15.2	9.001	8.625	1.67	0.278	4	0.111	0.104	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 PANAMA AVE	28	28	1.89	10.9	6.515	7.24	2.909	0.55	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 RAVENNA AVE	46	41	5.14	12.2	8.452	8.54	1.453	0.214	1	0.0217	0.906	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 NEPTUNE AVE	37	31	5.83	16.4	9.219	9.41	1.945	0.32	2	0.0541	0.558	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 PANAMA AVE	51	49	4.82	10.3	7.64	7.47	1.299	0.182	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 RAVENNA AVE	30	29	5.96	12.6	8.614	8.36	1.81	0.331	4	0.133	0.0608	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24516 MARBELLA AVE	30	26	6.46	11.6	9.017	9.13	1.433	0.262	1	0.0333	0.785	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24517 MARBELLA AVE	12	12	9.82	18.4	11.97	11.15	2.336	0.674	8	0.667	1.61E-08	Reject H0, Conclude Site Proportion > 0.05	
24518 NEPTUNE AVE	45	43	6.25	16.3	8.784	8.35	1.962	0.292	6	0.133	0.0239	Reject H0, Conclude Site Proportion > 0.05	
24518 PANAMA AVE	42	41	1.3	11.2	6.54	7.745	2.893	0.446	1	0.0238	0.884	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 RAVENNA AVE	30	29	6.04	10.7	8.314	8.59	1.397	0.255	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 NEPTUNE AVE	35	33	6.95	11.3	8.877	8.83	1.231	0.208	3	0.0857	0.254	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 PANAMA AVE	30	30	2.46	11.9	7.73	8.045	1.965	0.359	1	0.0333	0.785	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 MARBELLA AVE	27	23	4.99	18.6	11.28	11.6	2.719	0.523	17	0.63	3.97E-16	Reject H0, Conclude Site Proportion > 0.05	
24522 NEPTUNE AVE	28	23	6.44	11.3	9.175	9.015	1.441	0.272	5	0.179	0.0117	Do Not Reject H0, Conclude Site Proportion > 0.05	
24522 PANAMA AVE	36	35	1.19	10.6	6.35	6.99	2.918	0.486	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 RAVENNA AVE	35	35	1.56	14	7.713	7.81	2.373	0.401	2	0.0571	0.528	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 MARBELLA AVE	45	35	5.02	15.7	10.37	10.9	2.158	0.322	22	0.489	3.18E-17	Reject H0, Conclude Site Proportion > 0.05	
24523 NEPTUNE AVE	37	34	7.09	13.6	9.519	9.18	1.663	0.273	5	0.135	0.0359	Reject H0, Conclude Site Proportion > 0.05	
24523 RAVENNA AVE	17	16	6.01	10.7	7.899	7.74	1.147	0.278	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24526 MARBELLA AVE	36	28	5.26	16	10.56	10.9	2.353	0.392	17	0.472	2.62E-13	Reject H0, Conclude Site Proportion > 0.05	
24528 NEPTUNE AVE	31	30	2.4	17.6	6.85	6.44	2.888	0.519	1	0.0323	0.796	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 PANAMA AVE	39	38	1.6	15.7	6.17	6.58	2.483	0.398	1	0.0256	0.865	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 NEPTUNE AVE	32	30	5.97	16.2	8.665	8.23	2.065	0.365	3	0.0938	0.214	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 PANAMA AVE	24	23	1.2	9.54	6.535	6.755	2.463	0.503	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 RAVENNA AVE	26	26	2.13	11.2	7.319	7.815	2.285	0.448	1	0.0385	0.736	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 MARBELLA AVE	27	23	4.72	18.3	10.59	10.9	2.872	0.553	13	0.481	1.26E-10	Reject H0, Conclude Site Proportion > 0.05	
24532 NEPTUNE AVE	21	21	3.13	14.9	6.856	6.03	3.08	0.672	3	0.143	0.0849	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 PANAMA AVE	23	21	2.68	7.63	6.083	6.45	1.176	0.245	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 RAVENNA AVE	29	29	1.98	11.5	7.198	7.5	2.734	0.508	1	0.0345	0.774	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 MARBELLA AVE	25	24	7.05	16.4	10.54	10.3	1.989	0.398	10	0.4	1.59E-07	Reject H0, Conclude Site Proportion > 0.05	
24533 PANAMA AVE	29	28	1.69	10.3	6.412	6.61	2.082	0.387	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 RAVENNA AVE	52	51	1.91	11.8	6.827	7.22	2.468	0.342	1	0.0192	0.931	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 MARBELLA AVE	34	30	5.62	16.4	9.792	9.755	2.18	0.374	9	0.265	3.26E-05	Reject H0, Conclude Site Proportion > 0.05	
24602 NEPTUNE AVE	33	32	3.55	11.9	6.995	6.81	2.05	0.357	2	0.0606	0.496	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 PANAMA AVE	40	39	1.49	8.81	6.256	6.41	1.408	0.223	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 RAVENNA AVE	26	26	2.62	11.8	7.345	7.165	2.425	0.458	2	0.0714	0.412	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 MARBELLA AVE	28	25	7.32	15.7	10.8	11.25	2.117	0.415	15	0.577	1.39E-13	Reject H0, Conclude Site Proportion > 0.05	
24603 NEPTUNE AVE	49	47	2.52	12.6	7.407	7.42	2.199	0.314	2	0.0408	0.71	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 PANAMA AVE	30	30	4.55	12.8	6.895	6.72	1.88	0.307	1	0.0333	0.785	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 RAVENNA AVE	31	31	2.6	13.3	6.503	6.77	2.392	0.43	1	0.0323	0.796	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24606 MARBELLA AVE	63	55	3.04	14.7	9.311	10.1	2.893	0.365	18	0.286	1.12E-09	Reject H0, Conclude Site Proportion > 0.05	

Appendix 6  
ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Cobalt (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24607 MARBELLA AVE	31	29	1.31	15.8	9.483	10.5	3.21	0.577	12	0.387	1.41E-08	Reject H0, Conclude Site Proportion > 0.05	
24608 NEPTUNE AVE	37	37	2.88	9.76	6.528	6.4	1.83	0.301	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 PANAMA AVE	22	21	3.11	8.31	6.138	5.895	1.112	0.237	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 NEPTUNE AVE	40	39	2.38	9.16	6.391	6.745	1.802	0.285	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 NEPTUNE AVE	30	30	3.43	15.6	8.121	8.065	2.309	0.422	2	0.0667	0.446	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 PANAMA AVE	34	33	2.69	13	6.845	6.625	1.949	0.334	1	0.0294	0.825	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 RAVENNA AVE	45	42	2.19	10.7	6.335	5.98	1.807	0.269	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 MARBELLA AVE	51	43	5.09	15.1	10.14	10.7	2.704	0.379	23	0.451	5.94E-17	Reject H0, Conclude Site Proportion > 0.05	
24612 NEPTUNE AVE	47	43	3.42	9.86	6.726	6.91	1.456	0.212	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 PANAMA AVE	33	32	4.63	8.68	6.559	6.31	0.912	0.159	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 RAVENNA AVE	46	44	2.99	9.79	6.233	6.54	1.503	0.222	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 MARBELLA AVE	52	42	6.88	26	11.66	11.65	3.132	0.434	32	0.615	1.09E-28	Reject H0, Conclude Site Proportion > 0.05	
24613 NEPTUNE AVE	39	39	5.33	12.1	8.436	8.42	1.299	0.208	1	0.0256	0.865	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 PANAMA AVE	51	46	3.5	12.1	6.679	6.25	1.557	0.218	2	0.0392	0.731	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 RAVENNA AVE	33	33	4.34	10.1	6.869	6.57	1.383	0.241	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24616 MARBELLA AVE	46	41	3.17	13.1	8.458	8.52	2.678	0.395	9	0.196	0.00039808	Reject H0, Conclude Site Proportion > 0.05	
24617 MARBELLA AVE	34	30	5.01	19.3	12.03	11.5	3.183	0.546	21	0.618	2.34E-19	Reject H0, Conclude Site Proportion > 0.05	
24618 NEPTUNE AVE	26	26	6.32	8.22	7.076	7.035	0.627	0.123	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 PANAMA AVE	28	28	4.38	9.95	6.469	6.205	1.305	0.247	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 RAVENNA AVE	40	39	4.31	9.34	6.714	6.275	1.352	0.214	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 NEPTUNE AVE	28	27	5.87	11	8.126	8.035	1.261	0.229	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 PANAMA AVE	38	37	3.3	8.66	6.342	6.44	1.269	0.206	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 RAVENNA AVE	35	35	4.37	9.31	6.941	6.91	1.206	0.204	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 MARBELLA AVE	53	48	2.6	15.5	9.119	9.14	3.154	0.433	19	0.358	4.36E-12	Reject H0, Conclude Site Proportion > 0.05	
24622 NEPTUNE AVE	34	32	5.33	13.2	7.614	7.115	1.758	0.301	3	0.0882	0.241	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 MARBELLA AVE	26	26	5.23	18.6	11.38	11.7	2.292	0.405	21	0.656	3.59E-20	Reject H0, Conclude Site Proportion > 0.05	
24623 NEPTUNE AVE	36	33	6.38	9.91	8.423	8.41	0.839	0.14	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24627 MARBELLA AVE	48	45	5.61	21	11.52	11.3	2.866	0.414	27	0.563	5.89E-23	Reject H0, Conclude Site Proportion > 0.05	
24628 MARBELLA AVE	52	48	2.65	17.7	9.115	9.04	3.633	0.504	16	0.308	2.80E-09	Reject H0, Conclude Site Proportion > 0.05	
24628 NEPTUNE AVE	18	18	5.41	9.22	6.752	6.39	1.064	0.251	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24629 NEPTUNE AVE	39	37	5.78	10.8	8.141	7.89	1.165	0.186	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24632 NEPTUNE AVE	20	20	3.65	11.8	7.366	7.065	1.628	0.364	1	0.05	0.642	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24633 MARBELLA AVE	40	34	6.16	24.6	11.33	10.95	3.426	0.542	20	0.5	4.96E-16	Reject H0, Conclude Site Proportion > 0.05	
24700 MARBELLA AVE	46	42	2.78	12.6	8.636	8.63	2.05	0.302	6	0.13	0.0263	Reject H0, Conclude Site Proportion > 0.05	
24700 RAVENNA AVE	56	54	5.43	13.5	6.914	6.565	1.263	0.169	1	0.0179	0.943	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 NEPTUNE AVE	46	43	4.81	9.09	7.212	7.115	0.779	0.115	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 PANAMA AVE	30	30	5.52	11	6.655	6.435	1.051	0.192	1	0.0333	0.785	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 MARBELLA AVE	36	34	4.62	18.8	9.842	9.74	2.916	0.486	12	0.333	9.87E-08	Reject H0, Conclude Site Proportion > 0.05	
24703 NEPTUNE AVE	39	39	6.23	11.2	8.36	8.48	1.115	0.178	1	0.0256	0.865	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 RAVENNA AVE	53	47	5.42	9.65	7.686	7.66	1.052	0.145	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 MARBELLA AVE	43	40	3.08	12.9	8.38	8.71	2.278	0.347	6	0.14	0.0194	Reject H0, Conclude Site Proportion > 0.05	
24706 RAVENNA AVE	33	33	5.4	9.46	7.303	7.46	1.13	0.197	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24707 MARBELLA AVE	37	35	5.31	13.1	8.539	7.86	2.226	0.366	8	0.216	0.00040828	Reject H0, Conclude Site Proportion > 0.05	
24708 PANAMA AVE	37	34	3.95	12.8	7.089	6.99	1.526	0.251	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 NEPTUNE AVE	37	37	5.96	9.32	7.762	7.89	0.947	0.156	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 PANAMA AVE	43	41	5.18	9.42	6.964	6.87	0.869	0.133	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 RAVENNA AVE	52	50	5.65	9.7	7.338	7.4	1.039	0.144	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24710 MARBELLA AVE	43	41	3.18	14	9.045	8.75	2.526	0.385	11	0.256	6.31E-06	Reject H0, Conclude Site Proportion > 0.05	
24712 NEPTUNE AVE	32	30	5.49	9.25	7.134	7.03	0.904	0.16	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 PANAMA AVE	27	27	4.16	13.6	7.477	7.18	1.771	0.341	1	0.037	0.75	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 RAVENNA AVE	45	43	4.96	9.29	6.601	6.46	0.835	0.125	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 MARBELLA AVE	37	33	4.19	14.3	8.721	8.62	2.9	0.477	10	0.27	9.76E-06	Reject H0, Conclude Site Proportion > 0.05	
24713 PANAMA AVE	34	33	4.2	9.36	7.284	7.31	1.256	0.215	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 RAVENNA AVE	35	34	4.94	9.56	6.805	6.89	1.079	0.182	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 PROCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Cobalt (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24715 NEPTUNE AVE	37	37	5.15	10.9	8.273	8.34	1.228	0.202	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 MARBELLA AVE	30	28	5.04	12	8.599	9.18	2.23	0.407	5	0.167	0.0156	Reject H0, Conclude Site Proportion > 0.05	
24716 RAVENNA AVE	15	15	4.8	7.23	6.065	6.08	0.742	0.191	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24717 MARBELLA AVE	38	37	4.68	17	8.555	7.36	3.181	0.516	6	0.158	0.0109	Reject H0, Conclude Site Proportion > 0.05	
24718 NEPTUNE AVE	65	61	5.02	11.3	6.952	6.49	1.345	0.167	1	0.0154	0.964	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 PANAMA AVE	33	31	5.09	9.58	6.908	6.74	0.971	0.169	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 NEPTUNE AVE	33	33	3.33	12.1	7.824	7.96	1.769	0.308	2	0.0606	0.496	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 PANAMA AVE	28	28	5.4	9.49	7.026	6.85	0.885	0.167	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 RAVENNA AVE	45	44	5.03	10.8	7.171	7.13	1.431	0.213	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 MARBELLA AVE	34	32	4.04	12.1	8.061	7.76	1.9	0.326	3	0.0882	0.241	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 NEPTUNE AVE	40	39	1.44	11.1	6.617	6.5	1.535	0.243	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 PANAMA AVE	18	17	4.27	10.2	6.326	6.22	1.447	0.341	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 RAVENNA AVE	41	36	3.7	9.69	6.24	6.21	0.997	0.156	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 MARBELLA AVE	22	22	2.05	12.4	7.576	7.235	2.661	0.567	4	0.182	0.0222	Reject H0, Conclude Site Proportion > 0.05	
24723 RAVENNA AVE	37	35	5.1	8.56	6.449	6.29	0.895	0.147	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24725 NEPTUNE AVE	35	34	4.99	9.02	6.657	6.34	1.117	0.189	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 MARBELLA AVE	49	44	2.59	12.9	8.94	9.01	2.62	0.374	12	0.245	3.96E-06	Reject H0, Conclude Site Proportion > 0.05	
24726 RAVENNA AVE	37	35	2.63	11	6.235	6.21	1.378	0.226	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24727 MARBELLA AVE	40	38	2.37	13.7	7.482	7.37	2.567	0.406	2	0.05	0.601	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 NEPTUNE AVE	33	29	3.83	9.02	6.409	6.13	1.198	0.209	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 PANAMA AVE	31	30	4.14	14.7	7.181	6.95	1.839	0.33	1	0.0323	0.796	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 NEPTUNE AVE	36	34	4.56	13.1	7.076	6.74	1.585	0.268	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 PANAMA AVE	34	33	5.49	9.76	6.884	6.7	0.869	0.149	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 RAVENNA AVE	16	15	5.31	8.81	6.452	6.27	0.834	0.209	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 MARBELLA AVE	37	34	1.24	12.4	7.308	7.2	2.683	0.441	3	0.0811	0.282	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 NEPTUNE AVE	35	33	5.17	11.3	7.15	6.84	1.45	0.245	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 PANAMA AVE	33	32	4.88	9.13	6.996	7.24	1.186	0.206	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 RAVENNA AVE	42	39	5.18	8.83	6.445	6.2	0.924	0.143	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 MARBELLA AVE	32	28	1.81	12.3	7.166	6.89	2.989	0.528	5	0.156	0.0204	Reject H0, Conclude Site Proportion > 0.05	
24733 PANAMA AVE	38	37	5.74	9.65	7.399	7.36	0.989	0.16	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 RAVENNA AVE	40	40	5.14	8.9	6.443	6.26	0.828	0.131	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24735 NEPTUNE AVE	36	35	3.74	10.6	6.758	6.245	1.385	0.231	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 MARBELLA AVE	62	46	3.13	13.9	8.345	8.65	2.505	0.347	6	0.115	0.0445	Reject H0, Conclude Site Proportion > 0.05	
24736 RAVENNA AVE	43	40	5.85	8.3	7.021	7.03	0.65	0.0991	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24737 MARBELLA AVE	28	28	5.19	12.6	7.858	7.125	2.132	0.403	3	0.107	0.163	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 NEPTUNE AVE	51	50	5.5	9.36	6.915	6.77	0.915	0.128	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 PANAMA AVE	32	32	3.84	9.16	6.014	5.91	1.381	0.244	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 NEPTUNE AVE	41	38	4.81	9.73	6.656	6.4	1.011	0.158	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 PANAMA AVE	43	41	5.05	9.69	7	7.04	1.242	0.189	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 RAVENNA AVE	42	40	2.44	7.92	6.455	6.535	0.98	0.151	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24740 MARBELLA AVE	64	62	3.34	12.9	7.622	7.205	2.071	0.259	3	0.0469	0.627	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24741 MARBELLA AVE	12	11	4.34	10.2	7.718	7.505	1.615	0.466	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24743 MARBELLA AVE	42	36	5.79	8.27	7.064	7.055	0.625	0.0965	2	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24744 MARBELLA AVE	25	25	4.06	15.7	7.533	6.94	2.469	0.494	2	0.08	0.358	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24748 RAVENNA AVE	24	22	6.01	8.09	7.04	7.05	0.476	0.0973	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24749 RAVENNA AVE	43	40	5.43	12.9	6.962	6.92	1.129	0.172	1	0.0233	0.89	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24752 RAVENNA AVE	45	40	5.56	10.2	6.931	6.83	1.04	0.155	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24802 PANAMA AVE	47	43	4.54	10.3	6.691	6.86	1.454	0.212	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 NEPTUNE AVE	32	30	4.68	9.98	6.468	6.16	1.102	0.195	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 PANAMA AVE	18	18	4.79	10.1	6.121	5.75	1.31	0.309	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 NEPTUNE AVE	27	26	5.52	8.33	6.449	6.27	0.741	0.143	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 PANAMA AVE	36	34	6.23	10.9	7.498	7.32	0.899	0.15	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24812 PANAMA AVE	29	28	4.26	8.6	6.176	6.29	1.31	0.243	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24813 PANAMA AVE	15	15	5.93	13.1	8.271	7.17	2.315	0.598	3	0.2	0.0362	Reject H0, Conclude Site Proportion > 0.05	

Appendix 6  
 PROCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Cobalt (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24815 NEPTUNE AVE	30	30	4.71	10	6.637	6.5	1.19	0.217	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24818 PANAMA AVE	34	34	4.23	10.6	5.974	5.75	1.363	0.234	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24819 PANAMA AVE	34	32	5.04	10.7	6.734	6.62	0.924	0.158	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24822 PANAMA AVE	43	43	4.24	9.49	6.465	6.44	1.411	0.215	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24823 PANAMA AVE	39	36	4.78	10.3	6.881	6.74	0.992	0.159	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24825 NEPTUNE AVE	98	84	5.41	9.66	6.996	6.835	0.839	0.0847	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24828 PANAMA AVE	36	34	3.53	9.49	6.079	6.03	1.535	0.256	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24829 PANAMA AVE	48	45	5.33	9.68	6.861	6.6	1.055	0.152	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24832 PANAMA AVE	38	37	4.88	14	7.139	6.85	1.859	0.302	2	0.0526	0.573	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24833 PANAMA AVE	43	40	5.23	10.9	7.023	6.52	1.52	0.232	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24838 PANAMA AVE	28	27	4.69	9.97	6.698	6.49	1.33	0.251	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24904 NEPTUNE AVE	74	65	2.23	9.79	6.942	6.935	1.016	0.118	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24912 NEPTUNE AVE	36	34	4.76	8.89	6.281	5.93	1.193	0.199	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
301 244TH ST	29	27	2.84	17.4	10.76	10.2	3.113	0.578	12	0.414	5.69E-09	Reject H0, Conclude Site Proportion > 0.05	
305 244TH ST	54	49	5.9	21.2	10.67	10.4	2.933	0.399	23	0.426	2.83E-16	Reject H0, Conclude Site Proportion > 0.05	
311 244TH ST	71	58	2.36	14.2	9.165	9.35	2.34	0.278	13	0.183	4.60E-05	Reject H0, Conclude Site Proportion > 0.05	
317 244TH ST	58	42	3.8	14.6	9.875	10.2	2.2	0.289	23	0.397	1.89E-15	Reject H0, Conclude Site Proportion > 0.05	
321 244TH ST	40	35	6.55	21	11.55	11.15	2.878	0.455	22	0.55	1.12E-18	Reject H0, Conclude Site Proportion > 0.05	
327 244TH ST	12	12	8.31	12.7	10.81	10.85	1.26	0.364	5	0.417	0.00018395	Reject H0, Conclude Site Proportion > 0.05	
331 244TH ST	28	24	6.7	17.7	11.18	10.9	2.465	0.466	14	0.5	1.26E-11	Reject H0, Conclude Site Proportion > 0.05	
337 244TH ST	34	31	5.79	13.6	9.876	9.88	2.166	0.371	10	0.294	4.22E-06	Reject H0, Conclude Site Proportion > 0.05	
341 244TH ST	48	38	6.4	17.6	10.76	11.1	2.332	0.337	25	0.521	2.97E-20	Reject H0, Conclude Site Proportion > 0.05	
344 249TH ST	35	34	5.42	11	7.044	6.26	1.664	0.281	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
345 249TH ST	93	84	4.91	9.81	6.997	7.06	0.975	0.101	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
347 244TH ST	32	29	6	14.6	10.4	10.45	2.241	0.396	14	0.438	1.22E-10	Reject H0, Conclude Site Proportion > 0.05	
348 248TH ST	49	43	5.2	8.94	6.434	6.42	0.839	0.12	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 249TH ST	51	46	4.88	10.7	6.986	6.34	1.598	0.224	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
351 244TH ST	32	30	5.41	16	10.16	10.55	2.65	0.468	13	0.406	1.72E-09	Reject H0, Conclude Site Proportion > 0.05	
352 249TH ST	32	32	5.09	9.7	6.714	6.675	1.139	0.201	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
353 249TH ST	32	30	5.06	9.14	6.913	6.9	1.055	0.187	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
354 248TH ST	39	31	5.85	7.96	6.91	6.89	0.481	0.0771	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 244TH ST	40	33	5.16	24.1	10.59	10.5	3.345	0.529	17	0.425	2.23E-12	Reject H0, Conclude Site Proportion > 0.05	
357 249TH ST	24	23	5.36	9.05	7.072	6.97	1.046	0.214	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
358 249TH ST	43	41	2.76	9.25	5.983	5.81	1.397	0.213	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
360 248TH ST	48	43	4.67	13.9	6.894	6.76	1.341	0.194	1	0.0208	0.915	Do Not Reject H0, Conclude Site Proportion <= 0.05	
361 244TH ST	23	20	4.7	14.7	9.945	10.5	2.694	0.562	9	0.391	8.39E-07	Reject H0, Conclude Site Proportion > 0.05	
362 249TH ST	25	24	4.62	10.9	6.858	6.45	1.682	0.336	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
363 249TH ST	27	26	5.74	7.79	6.562	6.53	0.501	0.0964	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
364 248TH ST	48	43	5.46	8.27	6.741	6.635	0.66	0.0952	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 244TH ST	13	13	4.13	11.3	8.985	9.52	2.234	0.62	2	0.154	0.135	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 249TH ST	46	43	2.19	8.52	6.271	6.345	1.198	0.177	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
368 249TH ST	55	52	4.61	11.2	6.622	6.18	1.36	0.183	1	0.0182	0.94	Do Not Reject H0, Conclude Site Proportion <= 0.05	
373 249TH ST	42	38	4.2	8.26	6.142	6.45	0.755	0.117	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 248TH ST	120	93	2.19	10.4	6.999	6.948	0.898	0.0819	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 249TH ST	27	26	3.81	9.2	6.757	6.28	1.371	0.264	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 244TH ST	32	27	6.5	14.7	11.27	11.6	1.975	0.349	20	0.625	1.20E-18	Reject H0, Conclude Site Proportion > 0.05	
377 249TH ST	33	29	3.45	7.51	6.07	6.07	0.72	0.125	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
378 249TH ST	41	38	5.07	10	6.708	6.22	1.259	0.197	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
383 249TH ST	32	30	5.01	7.48	6.065	6.02	0.656	0.116	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
402 249TH ST	32	32	5.09	10.5	6.918	6.585	1.348	0.238	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
408 249TH ST	24	23	5.45	8.97	6.406	6.135	0.809	0.165	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
412 249TH ST	77	71	4.44	15.3	6.958	6.17	2.422	0.276	7	0.0909	0.0903	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 Product Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Copper (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24401 MARBELLA AVE	33	30	8.39	41.5	21.18	19	7.862	1.369	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 NEPTUNE AVE	48	40	9.13	26.4	14.86	14.8	3.019	0.436	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 PANAMA AVE	127	105	3.96	47.9	19.27	18.7	7.492	0.665	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 RAVENNA AVE	40	33	12	34.5	19.08	18.1	5.634	0.891	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 NEPTUNE AVE	46	40	10.2	33.4	18.17	17.5	4.84	0.714	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 RAVENNA AVE	62	49	9.24	31.3	16.08	15.6	3.757	0.477	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 MARBELLA AVE	25	24	10.1	43.6	19.93	18.3	8.503	1.701	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 MARBELLA AVE	40	36	10.8	31.4	19.62	20.15	4.552	0.72	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 NEPTUNE AVE	28	24	7.92	25.4	14.32	13.6	4.279	0.809	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 PANAMA AVE	23	21	9.36	27.3	17.98	18.3	5.486	1.144	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 RAVENNA AVE	26	24	10	27.2	15.84	15.1	3.897	0.764	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 NEPTUNE AVE	24	24	8.49	37.3	16.77	15.95	6.099	1.245	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 RAVENNA AVE	33	30	9.45	27.5	16.39	15.6	3.73	0.649	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24410 PANAMA AVE	33	31	8.16	36.4	14.89	14.2	5.283	0.92	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 MARBELLA AVE	69	54	10.3	38	21.4	21.4	4.692	0.565	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 PANAMA AVE	37	35	11.4	92.6	23.73	19.5	15.98	2.628	2	0.0541	0.558	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 MARBELLA AVE	31	30	10.4	1190	88.46	20.9	242.8	43.61	4	0.129	0.0671	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 RAVENNA AVE	61	48	9.46	23.5	15.05	14.3	3.917	0.501	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 NEPTUNE AVE	24	23	8.53	40.8	17.1	16.5	7.181	1.466	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 RAVENNA AVE	28	26	5.87	53.4	17.2	13.9	10.42	1.969	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 MARBELLA AVE	50	44	8.57	36.4	17.85	17.3	6.164	0.872	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 NEPTUNE AVE	21	18	8.86	18.7	13.79	13.5	3.007	0.656	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 PANAMA AVE	33	31	8.61	20	13.93	14.3	2.946	0.513	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 RAVENNA AVE	42	39	8.02	42.3	14.61	13.65	5.713	0.882	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 MARBELLA AVE	8	8	19.1	27.4	22.49	21.85	3.18	1.124	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 PANAMA AVE	47	42	7.4	27.1	15.72	14.7	4.297	0.627	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 NEPTUNE AVE	32	30	7.86	40.2	15.55	14.4	5.869	1.037	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 RAVENNA AVE	33	31	5.45	20.3	12.62	11.8	3.597	0.636	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24420 PANAMA AVE	33	31	5.82	19.9	12.48	11.8	3.538	0.616	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24421 PANAMA AVE	30	28	7.9	24.7	15.4	15.4	4.352	0.795	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 MARBELLA AVE	43	37	7.87	54.7	17.19	16.4	7.861	1.199	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 NEPTUNE AVE	36	31	9.57	33.1	15.46	15.15	4.961	0.827	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 RAVENNA AVE	29	23	9.29	29.4	14.61	14.5	4.074	0.756	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 MARBELLA AVE	13	13	15.7	56.5	24.82	22.6	10.51	2.914	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 NEPTUNE AVE	37	35	6.78	23.1	14.76	14.5	4.117	0.677	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 RAVENNA AVE	40	34	6.65	20.3	11.76	11.6	3.295	0.521	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 MARBELLA AVE	24	23	7.91	44.2	17.05	16.1	7.212	1.472	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 NEPTUNE AVE	30	28	6.93	24.6	13.11	11	4.859	0.887	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 PANAMA AVE	30	29	4.74	23	13.79	12.85	4.474	0.817	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 RAVENNA AVE	49	46	7.38	23.9	14.46	13.9	4.366	0.624	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 MARBELLA AVE	25	20	13.8	31.1	21.79	21.7	4.258	0.852	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 PANAMA AVE	38	34	8.51	60.1	16.12	15.4	8.359	1.356	1	0.0263	0.858	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 NEPTUNE AVE	19	18	9.42	20.1	13.64	13.6	2.837	0.651	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 RAVENNA AVE	29	23	6.47	24.9	13.01	11.7	4.182	0.777	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24430 PANAMA AVE	30	27	3.07	43.3	12.24	10.95	7.432	1.357	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24431 PANAMA AVE	35	34	8.61	31	17.56	17.3	5.195	0.878	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24432 MARBELLA AVE	67	53	8.02	35	16.35	16.6	4.179	0.51	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24433 MARBELLA AVE	27	26	17.3	35.2	23.06	20.8	5.592	1.076	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24436 PANAMA AVE	35	35	2.76	12.8	7.58	8.54	2.724	0.46	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 MARBELLA AVE	51	47	8.53	32	16.7	16.3	5.515	0.772	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 NEPTUNE AVE	58	53	6.33	36	11.21	10.2	4.407	0.579	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 PANAMA AVE	48	43	1.53	16.9	7.519	7.705	2.937	0.424	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 RAVENNA AVE	44	40	6.99	19	11.37	10.7	2.832	0.427	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 MARBELLA AVE	29	26	13	46	21.02	19.1	6.063	1.126	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Copper (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24503 NEPTUNE AVE	60	50	4.44	24.3	15.68	15.45	4.11	0.531	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 PANAMA AVE	28	27	7.28	21.2	14.71	14.55	3.453	0.653	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 RAVENNA AVE	34	31	7.42	36.2	12.9	11.25	5.673	0.973	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24506 MARBELLA AVE	36	32	8.59	36.4	17.88	18	4.892	0.815	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24507 MARBELLA AVE	36	34	9.86	37.3	21.86	19.35	6.885	1.148	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 NEPTUNE AVE	40	34	8.21	20.8	14.02	13.65	3.37	0.533	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 PANAMA AVE	24	24	2.34	15.4	7.835	8.665	3.123	0.638	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 RAVENNA AVE	39	30	7.57	23.5	13.32	12.6	3.833	0.614	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 NEPTUNE AVE	31	28	9.02	21.8	14.44	13.8	3.222	0.579	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 PANAMA AVE	47	41	8.7	33.3	13.83	12.5	4.743	0.692	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 RAVENNA AVE	37	33	7.32	39.2	14.83	13.9	5.907	0.971	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 MARBELLA AVE	48	40	8.88	36.5	19.26	19	5.837	0.843	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 NEPTUNE AVE	36	32	7.87	28.5	14.33	13.25	4.474	0.746	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 PANAMA AVE	28	28	1.91	13	6.861	7.625	3.156	0.596	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 RAVENNA AVE	46	42	7.58	23.1	13.59	13.3	3.998	0.589	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 NEPTUNE AVE	37	35	6.12	29.4	14.67	14.1	4.82	0.792	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 PANAMA AVE	51	48	6.01	24.6	12.23	11.5	3.794	0.531	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 RAVENNA AVE	30	28	6.5	22.6	14.58	13.85	4.341	0.793	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24516 MARBELLA AVE	30	30	7.42	28	17.81	18.35	4.826	0.881	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24517 MARBELLA AVE	12	12	17.5	29.6	23.2	22.35	4.915	1.419	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 NEPTUNE AVE	45	40	7.92	22.3	14.57	14.7	4.184	0.624	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 PANAMA AVE	42	41	1.87	27.1	7.995	8.495	5.291	0.816	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 RAVENNA AVE	30	28	8.65	21.4	15.25	16.3	4.087	0.746	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 NEPTUNE AVE	35	30	8.56	22.3	14.02	13.1	4.078	0.689	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 MARBELLA AVE	27	24	7.88	35.7	22.88	23.4	6.458	1.243	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 NEPTUNE AVE	28	26	7.05	22.8	15.13	16	4.277	0.808	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 PANAMA AVE	36	36	1.01	19.9	7.145	7.665	3.706	0.618	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 RAVENNA AVE	35	34	2.01	23.4	11.72	11	4.629	0.782	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 MARBELLA AVE	45	40	7.27	31.6	21.26	20.7	5.173	0.771	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 NEPTUNE AVE	37	36	8.26	27.4	15.78	15.1	5.312	0.873	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 RAVENNA AVE	17	16	7.68	18	13.05	14	3.073	0.745	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24526 MARBELLA AVE	36	35	7.36	37.8	19.21	19.35	6.104	1.017	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 NEPTUNE AVE	31	31	2.8	21.2	8.784	7.82	4.636	0.833	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 PANAMA AVE	39	39	0.51	28.2	6.216	6.2	4.586	0.734	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 NEPTUNE AVE	32	30	8.87	37.3	15.21	14.15	5.574	0.985	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 PANAMA AVE	24	24	2.05	13.2	7.662	7.82	2.953	0.603	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 RAVENNA AVE	26	26	2.65	41.6	13.99	12.2	9.361	1.836	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 MARBELLA AVE	27	25	8.07	36.1	20.79	21.2	6.804	1.309	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 NEPTUNE AVE	21	21	3.59	80.8	15.7	10.2	16.73	3.652	1	0.0476	0.659	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 PANAMA AVE	23	23	2.73	26.6	9.643	9.18	4.716	0.983	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 RAVENNA AVE	29	26	1.97	12.1	7.69	8.17	2.754	0.511	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 MARBELLA AVE	29	21	16.5	17.0	31.41	24.5	29.82	5.964	1	0.04	0.723	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 PANAMA AVE	25	27	2.19	16.7	8.762	8.67	3.047	0.566	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 RAVENNA AVE	52	50	1.8	17.5	7.557	7.79	3.092	0.429	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 MARBELLA AVE	34	31	7.63	31.5	20.77	21.35	5.927	1.017	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 NEPTUNE AVE	33	30	3.37	12.5	8.235	8.26	2.401	0.418	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 PANAMA AVE	40	38	2.25	17.5	9.412	8.97	3.64	0.575	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 RAVENNA AVE	26	27	4.3	16.3	9.264	9.035	2.822	0.533	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 MARBELLA AVE	28	24	14.3	30.5	22.69	23.7	4.674	0.917	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 NEPTUNE AVE	49	49	2.82	26.3	10.93	9.98	4.453	0.636	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 PANAMA AVE	30	27	6.71	14.5	9.877	9.98	2.044	0.373	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 RAVENNA AVE	31	30	3.45	19.4	7.848	7.78	2.932	0.527	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24606 MARBELLA AVE	63	54	3.67	30.2	16.77	17.9	6.771	0.853	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
ProCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Copper (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24607 MARBELLA AVE	31	27	2.35	37.1	19.73	19.8	7.675	1.378	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 NEPTUNE AVE	37	35	3.67	46.5	12.26	8.88	9.243	1.52	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 PANAMA AVE	22	19	3.73	26	10.3	9.905	4.58	0.976	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 RAVENNA AVE	40	29	2.43	29.8	9.95	8.535	5.939	0.939	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 NEPTUNE AVE	30	29	4.62	22.4	13.07	11.35	5.418	0.989	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 PANAMA AVE	34	33	3.93	21.8	13.07	10.85	4.182	0.717	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 RAVENNA AVE	45	41	3.31	21.2	7.732	7.56	2.851	0.425	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 MARBELLA AVE	51	48	6.61	54.3	18.31	18.4	7.482	1.048	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 NEPTUNE AVE	47	45	4.12	105	10.81	8.51	14.22	2.074	1	0.0213	0.91	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 PANAMA AVE	33	33	5.89	17.8	9.773	8.85	2.956	0.514	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 RAVENNA AVE	46	44	3.67	64.3	11.22	9.505	8.936	1.318	1	0.0217	0.906	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 MARBELLA AVE	52	45	15.3	35.9	22.55	22.65	4.515	0.626	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 NEPTUNE AVE	39	38	7.69	21	13.4	13.3	4.295	0.688	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 PANAMA AVE	51	47	6.4	23.2	10.9	9.82	3.867	0.542	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 RAVENNA AVE	33	29	5.71	13.1	8.521	7.82	2.131	0.371	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24616 MARBELLA AVE	46	42	3.71	27.8	14.15	12.95	6.832	1.007	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24617 MARBELLA AVE	34	33	11.4	47.4	25.28	24.3	8.231	1.412	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 NEPTUNE AVE	26	24	7.58	18.5	11.77	11.05	3.323	0.652	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 PANAMA AVE	28	28	4.86	18.6	9.793	9.065	3.403	0.643	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 RAVENNA AVE	40	37	5.93	17.8	8.852	8.405	2.458	0.389	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 NEPTUNE AVE	28	27	8.05	23	13.38	12.55	4.177	0.789	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 PANAMA AVE	38	36	4.4	16.3	9.946	9.585	2.743	0.445	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 RAVENNA AVE	35	34	6.55	14.4	9.374	8.64	2.227	0.377	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 MARBELLA AVE	53	50	3.46	38.4	16.95	18	9.073	1.246	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 NEPTUNE AVE	34	33	7.09	19	10.36	9.67	2.922	0.501	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 MARBELLA AVE	36	34	12.1	48.1	23.7	22.3	6.573	1.162	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 NEPTUNE AVE	32	30	7.7	30.7	14.72	14.7	4.655	0.776	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24627 MARBELLA AVE	48	44	7.2	33.6	22.15	22.95	6.511	0.94	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24628 MARBELLA AVE	52	41	3.97	39.3	17.1	17.15	8.117	1.126	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24628 NEPTUNE AVE	18	18	6.2	14.7	8.964	8.055	2.247	0.53	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24629 NEPTUNE AVE	39	36	8.02	26.6	13.86	14.5	3.88	0.621	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24632 NEPTUNE AVE	20	18	6.46	20.6	10.59	8.825	4.029	0.901	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24633 MARBELLA AVE	40	37	5.99	37.5	20.93	21.7	8.274	1.308	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 MARBELLA AVE	46	39	2.79	36.8	15.6	14.75	6.386	0.942	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 RAVENNA AVE	56	54	5.11	16.5	8.961	8.17	2.45	0.327	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 NEPTUNE AVE	46	42	7.21	15.9	10.04	9.345	2.139	0.315	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 PANAMA AVE	30	28	5.93	51.7	13.89	11.15	9.107	1.663	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 MARBELLA AVE	36	34	4.91	74.2	20.58	20.65	12.78	2.131	1	0.0278	0.842	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 NEPTUNE AVE	39	34	7.89	20.9	13.83	14	3.844	0.615	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 RAVENNA AVE	53	49	5.8	34.4	10.75	9.49	4.296	0.59	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 MARBELLA AVE	43	40	3.6	23.8	13.85	14	5.378	0.82	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 RAVENNA AVE	33	31	6.41	18.8	10.53	9.38	3.211	0.559	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24707 MARBELLA AVE	37	33	5.98	26	13.75	11.7	5.596	0.92	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24708 PANAMA AVE	37	36	6.26	25.8	13.77	13.4	4.957	0.815	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 NEPTUNE AVE	37	32	6.2	21.5	12.43	12.1	3.607	0.593	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 PANAMA AVE	43	38	6.44	17.9	10.89	10.6	2.797	0.426	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 RAVENNA AVE	52	47	6.44	19.1	9.715	9.115	2.308	0.32	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24710 MARBELLA AVE	43	42	4.02	36.8	16.29	15	7.137	1.088	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 NEPTUNE AVE	32	31	7.39	16.4	9.663	8.96	2.146	0.379	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 PANAMA AVE	27	26	6.63	16.7	10.73	10.2	2.6	0.5	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 RAVENNA AVE	45	41	6.53	26.8	9.968	8.53	3.859	0.575	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 MARBELLA AVE	37	36	6	26.7	13.89	11.7	6.256	1.028	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 PANAMA AVE	34	17	8.7	24.9	13.37	12.6	3.287	0.564	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 RAVENNA AVE	35	30	6.56	18	9.293	9.17	2.044	0.345	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
ProCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Copper (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24715 NEPTUNE AVE	37	33	6.95	20.1	13.26	14.1	3.635	0.598	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 MARBELLA AVE	30	29	6.49	25	15.18	15.9	5.389	0.984	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 RAVENNA AVE	15	15	7.58	16.3	9.999	9.5	2.271	0.586	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24717 MARBELLA AVE	38	37	4.34	25.2	10.9	9.195	4.978	0.808	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 NEPTUNE AVE	65	56	6.21	16.3	9.37	8.92	2.199	0.273	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 PANAMA AVE	33	30	6.15	26.3	11.62	10.2	4.776	0.831	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 NEPTUNE AVE	33	32	3.9	36.5	14.34	11.5	7.495	1.305	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 PANAMA AVE	28	26	7.46	22.7	11.63	11.05	3.501	0.662	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 RAVENNA AVE	45	42	6.55	33.3	10.11	9.18	4.191	0.625	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 MARBELLA AVE	34	28	6.5	25	13.19	12	5.262	0.902	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 NEPTUNE AVE	40	38	1.66	14.4	8.5	8.3	2.278	0.36	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 PANAMA AVE	18	18	5.63	14.2	8.678	8.48	1.834	0.432	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 RAVENNA AVE	41	32	6.3	19.7	9.344	8.8	2.869	0.448	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 MARBELLA AVE	22	22	2.8	28.2	11.72	9.185	6.236	1.33	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 RAVENNA AVE	37	36	5.49	32.5	10.09	8.31	5.499	0.904	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 NEPTUNE AVE	35	32	5.64	22.1	9.574	8.67	3.256	0.55	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 MARBELLA AVE	49	46	3.2	27.8	15.17	15.7	6.004	0.858	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 RAVENNA AVE	37	37	4.83	17.6	7.679	7.77	2.165	0.356	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24727 MARBELLA AVE	40	38	3.38	27.8	11.67	10.65	5.479	0.866	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 NEPTUNE AVE	33	31	5.3	22.2	8.299	8.02	2.772	0.483	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 PANAMA AVE	31	29	4.92	41	13.32	10.2	8.402	1.509	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 NEPTUNE AVE	36	33	6.16	21.4	10.21	9.57	3.147	0.532	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 PANAMA AVE	34	33	5.96	14.7	8.921	9.225	1.801	0.309	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 RAVENNA AVE	16	16	5.41	23.5	8.791	7.95	4.258	1.064	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 MARBELLA AVE	37	37	1.22	24.9	10.43	8.86	5.511	0.906	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 NEPTUNE AVE	35	33	5.41	22.3	9.653	8.9	3.21	0.543	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 PANAMA AVE	33	30	4.86	29.9	10.37	8.155	4.935	0.859	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 RAVENNA AVE	42	41	5.19	17.4	8.174	8.155	1.872	0.289	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 MARBELLA AVE	32	32	2.54	27.2	11.36	9.8	6.08	1.075	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 PANAMA AVE	38	35	6.64	31.4	11.11	10.15	4.298	0.697	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 RAVENNA AVE	40	36	5.89	13.2	8.736	8.275	1.781	0.282	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24735 NEPTUNE AVE	36	35	5.05	12.5	11.34	10.75	19.57	3.262	1	0.0278	0.842	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 MARBELLA AVE	62	50	3.23	21.8	12.11	8.05	4.684	0.649	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 RAVENNA AVE	43	40	6.87	18.3	9.379	8.85	1.834	0.28	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24737 MARBELLA AVE	28	25	6.19	21.6	10.7	10.4	3.126	0.591	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 NEPTUNE AVE	51	50	5.56	13.9	8.828	8.63	1.526	0.214	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 PANAMA AVE	32	32	3.99	22	9.195	8.915	3.382	0.598	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 NEPTUNE AVE	41	37	5.68	18.9	9.021	8.72	2.07	0.323	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 PANAMA AVE	43	40	5.77	14.2	8.793	8.59	1.761	0.269	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 RAVENNA AVE	42	39	5	18.2	8.907	8.73	2.296	0.354	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24740 MARBELLA AVE	64	56	3.45	21.6	10.51	9.62	3.798	0.475	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24741 MARBELLA AVE	12	11	6.69	17.3	11.48	11.55	2.753	0.795	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24743 RAVENNA AVE	42	40	5.17	13.1	8.859	8.69	1.472	0.227	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24744 MARBELLA AVE	25	22	5.54	22.5	9.97	9.97	3.118	0.624	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24748 RAVENNA AVE	24	23	7.8	13.5	9.375	9.115	1.276	0.26	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24749 RAVENNA AVE	43	38	7.33	28.2	10.18	9.74	3.399	0.518	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24752 RAVENNA AVE	45	43	6.57	19.7	8.922	8.27	2.367	0.353	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24802 PANAMA AVE	47	44	4.24	15.7	8.23	8.11	2.412	0.352	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 NEPTUNE AVE	32	32	5.52	15.3	8.59	8.355	2.122	0.375	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 PANAMA AVE	18	18	5.58	10.1	7.564	7.405	1.105	0.261	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 NEPTUNE AVE	27	27	5.48	10.4	8.415	8.63	1.302	0.251	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 PANAMA AVE	36	33	7.34	21.8	9.984	9.085	2.938	0.49	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24812 PANAMA AVE	29	28	5.31	13.8	7.866	7.36	2.088	0.388	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24813 PANAMA AVE	15	15	6.84	30.1	13.04	9.5	7.832	2.022	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Copper (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24815 NEPTUNE AVE	30	26	4.84	23.1	11.1	9.79	4.463	0.815	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24818 PANAMA AVE	34	33	4.94	17.6	7.846	7.175	2.43	0.417	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24819 PANAMA AVE	34	32	6.98	51.7	10.35	8.385	7.719	1.324	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24822 PANAMA AVE	43	41	5.65	74.9	9.924	7.7	10.4	1.586	1	0.0233	0.89	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24823 PANAMA AVE	39	39	6.42	15.7	9.522	9.01	2.138	0.342	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24825 NEPTUNE AVE	98	88	6.07	24.9	9.136	8.7	2.576	0.26	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24828 PANAMA AVE	36	35	5.04	17.5	8.29	7.575	2.913	0.485	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24829 PANAMA AVE	48	47	6.42	18.1	8.897	8.895	1.877	0.271	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24832 PANAMA AVE	38	37	5.89	19.7	8.714	8.405	2.504	0.406	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24833 PANAMA AVE	43	41	5.88	23.2	9.112	8.78	2.722	0.415	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24838 PANAMA AVE	28	28	6.29	18.6	9.095	8.435	2.447	0.462	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24904 NEPTUNE AVE	74	64	2.9	17.2	9.065	8.68	1.758	0.204	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24912 NEPTUNE AVE	36	31	5.99	18.2	8.658	7.97	2.507	0.418	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
301 244TH ST	29	26	7.81	37.7	18.65	17	7.083	1.315	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
305 244TH ST	54	47	6.36	78.3	19.04	17.7	11.43	1.555	1	0.0185	0.937	Do Not Reject H0, Conclude Site Proportion <= 0.05	
311 244TH ST	71	64	8.57	115	25.05	22.1	16.2	1.923	3	0.0423	0.695	Do Not Reject H0, Conclude Site Proportion <= 0.05	
317 244TH ST	58	52	11.2	35.4	21.63	22.65	5.56	0.73	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
321 244TH ST	40	34	12.3	58.1	24.95	23.35	9.073	1.435	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
327 244TH ST	12	12	16.5	27.9	20.57	19	4.026	1.162	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
331 244TH ST	28	27	8.13	38.3	21.43	20.8	5.98	1.13	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
337 244TH ST	34	33	7.98	37.7	18.45	18.85	6.016	1.032	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
341 244TH ST	48	43	10.8	34.4	19.34	20.25	5.184	0.748	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
344 249TH ST	35	30	6.12	22.4	9.944	9.76	2.961	0.501	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
345 249TH ST	93	78	5.9	26.6	9.869	9.3	3.001	0.311	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
347 244TH ST	32	28	9.65	35.2	19	19.2	6.259	1.106	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 248TH ST	49	45	5.61	12.2	8.698	8.68	1.657	0.237	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 249TH ST	51	49	6.34	31.7	9.576	8.95	3.495	0.489	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
351 244TH ST	32	29	10	24.7	16.9	16.95	4.375	0.773	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
352 249TH ST	32	31	6.05	17.8	9.148	8.25	2.679	0.474	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
353 249TH ST	32	31	6.09	13.3	9.486	9.42	1.677	0.297	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
354 248TH ST	39	37	7.49	27.4	9.941	8.52	3.719	0.596	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 244TH ST	40	36	9.3	37.2	16.69	16.55	5.174	0.818	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 249TH ST	24	23	7	12.6	9.665	9.665	1.578	0.322	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
358 249TH ST	43	41	4	11.5	7.627	7.63	1.747	0.266	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
360 248TH ST	48	41	5.81	17.8	8.855	8.715	1.559	0.225	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
361 244TH ST	23	21	8.28	29.7	17.56	17.3	5.291	1.103	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
362 249TH ST	25	24	5.72	14.7	8.847	8.56	2.19	0.438	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
363 249TH ST	27	27	7.49	36.3	14.45	9.51	8.868	1.707	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
364 248TH ST	48	47	6.68	15.8	18.83	10.01	28.07	4.052	3	0.0625	0.433	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 244TH ST	13	12	7.47	35.2	18.12	16.9	6.961	1.931	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 249TH ST	46	41	2.88	12.8	8.939	8.72	1.939	0.286	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
368 249TH ST	55	54	5.49	13.9	8.571	8.38	1.923	0.259	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
373 249TH ST	42	41	6.63	23.3	9.789	8.435	4.02	0.62	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 248TH ST	100	100	2.42	40.6	10.01	8.9	4.591	0.419	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 249TH ST	27	27	5.16	14.1	8.9	8.33	2.128	0.41	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 244TH ST	32	31	12.2	30.3	19.59	19.15	3.922	0.693	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 249TH ST	33	32	4.7	17.9	8.587	7.83	2.499	0.435	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
378 249TH ST	41	36	5.04	12.9	8.801	8.31	1.815	0.283	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
383 249TH ST	32	32	5.87	20	9.023	7.965	3.189	0.564	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
402 249TH ST	28	28	6.49	17.2	9.508	9.08	2.33	0.412	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
408 249TH ST	24	24	5.93	45.9	13.8	9.555	10.61	2.165	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
412 249TH ST	77	71	3.71	29.8	10.11	8.57	5.542	0.632	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 Product Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Lead (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24401 MARBELLA AVE	33	32	4.17	87	11.51	8.22	14.13	2.459	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 NEPTUNE AVE	48	47	4.9	24.6	8.432	7.915	2.94	0.424	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 PANAMA AVE	127	114	3.3	50.1	9.056	8	5.822	0.517	0	0		Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 RAVENNA AVE	40	36	4.5	38	9.567	7.215	7.28	1.151	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 NEPTUNE AVE	46	45	4.48	35	9.872	8.245	5.953	0.878	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 RAVENNA AVE	62	56	5.02	43.6	11.26	9.655	5.822	0.739	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 MARBELLA AVE	25	21	6.65	16	11.14	10.9	2.375	0.475	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 MARBELLA AVE	40	40	1.91	30.8	7.519	5.835	6.132	0.97	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 NEPTUNE AVE	28	27	4.35	62.7	11.16	7.27	13.48	2.547	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 PANAMA AVE	23	21	2.52	58.7	15.94	9.53	16.29	3.397	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 RAVENNA AVE	26	25	5.6	27.2	10.22	8.155	5.646	1.107	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 NEPTUNE AVE	24	24	5.99	72.5	17.03	9.785	17.27	3.526	2	0.0833	0.339	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 RAVENNA AVE	33	30	5.37	177	14.55	7.15	30.19	5.256	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24410 PANAMA AVE	33	32	2.21	35.9	10.4	7.38	8.093	1.409	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 MARBELLA AVE	69	67	2.11	88.5	9.186	6.3	11.52	1.387	1	0.0145	0.971	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 PANAMA AVE	37	34	4.28	81.9	16.4	9.96	18.59	3.056	2	0.0541	0.558	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 MARBELLA AVE	31	29	6.33	87	17.87	9.88	20.04	3.599	2	0.0645	0.463	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 RAVENNA AVE	61	60	4.95	39.5	8.497	7.5	4.588	0.587	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 NEPTUNE AVE	24	24	5.88	59.1	12.02	8.435	11.46	2.34	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 RAVENNA AVE	28	26	3.63	83.5	13.72	7.475	17.21	3.253	1	0.0367	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 MARBELLA AVE	50	50	0.18	115	8.306	4.465	16.25	2.298	1	0.02	0.923	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 NEPTUNE AVE	21	20	5.93	100	13.45	8.46	19.99	4.363	1	0.0476	0.659	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 RAVENNA AVE	42	41	3.94	64.4	8.768	6.975	8.336	1.451	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 MARBELLA AVE	8	8	4.5	22.4	9.354	8.24	5.531	1.955	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 PANAMA AVE	47	46	5.41	32.4	11.5	9.33	6.799	0.992	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 NEPTUNE AVE	32	31	5.57	39.5	11.48	8.165	8.504	1.503	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 RAVENNA AVE	32	30	2.54	29.1	7.938	6.76	5.377	0.951	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24420 PANAMA AVE	33	33	2.54	89.5	11.17	8.37	15.18	2.642	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24421 PANAMA AVE	30	30	3.76	39.6	9.388	8.13	6.41	1.17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 MARBELLA AVE	43	42	1.22	39.7	6.905	5.49	6.342	0.967	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 NEPTUNE AVE	36	35	5.07	51.4	10.37	7.81	8.478	1.413	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 RAVENNA AVE	29	28	6.61	20.2	9.703	9.06	3.001	0.557	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 MARBELLA AVE	13	13	5.07	63.5	11.8	7.33	15.61	4.33	1	0.0769	0.487	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 NEPTUNE AVE	37	36	1.75	18.4	6.042	4.98	3.535	0.581	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 RAVENNA AVE	40	39	3.15	14.5	6.497	6.01	2.52	0.398	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 MARBELLA AVE	24	23	2.35	59.4	11.35	5.905	12.51	2.554	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 NEPTUNE AVE	30	30	4.44	20.8	8.466	6.825	4.226	0.772	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 PANAMA AVE	30	29	2.13	40.4	8.703	7.39	6.929	1.265	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 RAVENNA AVE	49	43	4.22	49.1	10.79	8.01	7.384	1.055	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 MARBELLA AVE	25	24	3.95	18.5	8.595	8.15	3.375	0.675	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 PANAMA AVE	38	38	5.13	81.8	11.72	8.05	13.11	2.126	1	0.0263	0.858	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 NEPTUNE AVE	19	18	5.33	21.1	9.175	7.59	4.324	0.992	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 RAVENNA AVE	29	28	1.47	23.5	8.218	6.13	5.377	0.999	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24430 PANAMA AVE	30	30	1.08	66.8	9.567	5.755	12.44	2.272	1	0.0333	0.785	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24431 PANAMA AVE	35	34	3.6	36.4	8.413	5.09	7.638	1.291	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24432 MARBELLA AVE	67	63	4.83	24.3	10.61	9.12	4.875	0.596	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24433 MARBELLA AVE	27	27	4.07	307	19.5	7.41	57.59	11.08	1	0.037	0.75	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24436 PANAMA AVE	35	33	0.87	17.5	5.547	5.44	3.65	0.617	1	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 MARBELLA AVE	51	50	3.28	1330	35.06	7.59	185	25.91	1	0.0196	0.927	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 NEPTUNE AVE	58	57	2.55	29.8	6.091	5.16	4.313	0.566	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 PANAMA AVE	48	46	0.31	12.5	4.975	4.94	2.796	0.404	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 RAVENNA AVE	44	44	4.18	33	9.609	7.965	5.712	0.861	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 MARBELLA AVE	29	28	5.83	19	8.593	7.74	2.631	0.488	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Lead (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24503 NEPTUNE AVE	60	58	3.91	21.9	8.971	7.785	3.956	0.511	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 PANAMA AVE	28	26	3.73	32.5	7.411	6.06	5.442	1.028	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 RAVENNA AVE	34	33	3.85	14.1	7.145	6.565	2.51	0.431	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24506 MARBELLA AVE	36	33	5.08	60	11.86	9.38	9.455	1.576	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24507 MARBELLA AVE	36	33	5.35	21.3	9.264	8.07	2.968	0.495	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 NEPTUNE AVE	40	39	4.94	35.5	8.621	6.92	5.074	0.802	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 PANAMA AVE	24	20	0.18	12.9	5.32	5.535	3.262	0.666	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 RAVENNA AVE	39	38	2.7	52.8	8.27	5.82	8.7	1.393	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 NEPTUNE AVE	31	30	5.2	32.1	10.39	7.97	6.044	1.085	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 PANAMA AVE	47	45	4.11	48.4	9.647	7.65	7.123	1.039	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 RAVENNA AVE	37	36	4.27	73.4	11.81	7.09	13.57	2.23	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 MARBELLA AVE	48	44	3.6	31.8	8.149	6.75	4.627	0.668	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 NEPTUNE AVE	36	34	3.52	18.5	6.41	5.44	3.271	0.545	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 PANAMA AVE	28	24	0.18	15.1	4.773	5.13	3.447	0.651	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 RAVENNA AVE	46	44	3.27	53.6	8.268	7.285	7.056	1.04	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 NEPTUNE AVE	37	36	3.47	18.2	7.465	7.13	2.766	0.455	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 PANAMA AVE	51	51	3.3	20.5	6.729	5.87	3.432	0.481	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 RAVENNA AVE	30	30	3.14	26.7	7.81	6.42	5.391	0.984	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24516 MARBELLA AVE	30	29	4.69	17	8.912	7.435	3.861	0.705	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24517 MARBELLA AVE	12	12	4.67	19.6	9.514	7.195	5.148	1.486	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 NEPTUNE AVE	45	43	3.89	72.2	8.871	6.14	10.45	1.557	1	0.0222	0.901	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 PANAMA AVE	42	35	0.18	96	7.103	3.665	14.91	2.3	1	0.0238	0.884	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 RAVENNA AVE	30	29	3.72	20.8	7.59	6.415	4.439	0.81	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 NEPTUNE AVE	35	34	4.06	18.7	8.316	6.89	3.672	0.621	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 PANAMA AVE	30	28	0.18	34.3	9.141	7.115	7.789	1.422	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 MARBELLA AVE	27	26	1.1	15.1	6.234	6.17	3.354	0.645	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 NEPTUNE AVE	28	28	3.81	22	7.331	5.615	4.62	0.873	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 PANAMA AVE	36	36	0.18	26.6	5.238	4.845	4.574	0.762	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 RAVENNA AVE	35	34	0.18	16.9	6.227	6.4	3.09	0.522	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 MARBELLA AVE	45	44	3.44	14.8	14.78	8.09	23.61	3.52	2	0.0444	0.665	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 NEPTUNE AVE	37	35	4.75	21.6	8.916	6.73	4.527	0.744	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 RAVENNA AVE	17	17	3.23	28.5	9.909	6.85	6.981	1.693	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24526 MARBELLA AVE	36	36	2.34	12.1	6.245	6.005	2.275	0.379	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 NEPTUNE AVE	31	31	1.41	15.1	5.88	5.36	3.188	0.573	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 PANAMA AVE	39	39	0.96	31.2	6.037	4.35	6.12	0.98	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 NEPTUNE AVE	32	31	3.39	29.9	7.983	6.57	4.978	0.88	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 PANAMA AVE	24	24	0.51	14.5	4.971	4.815	3.056	0.624	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 RAVENNA AVE	26	25	0.67	39.6	8.215	3.765	9.888	1.939	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 MARBELLA AVE	27	24	1.38	22.7	6.559	5.09	4.62	0.889	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 NEPTUNE AVE	21	20	2.31	51.7	15.2	10.8	14.48	3.161	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 PANAMA AVE	23	22	2.41	67.7	10.27	6.12	13.43	2.801	1	0.0435	0.693	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 RAVENNA AVE	29	29	0.77	11.3	4.618	4.78	2.414	0.448	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 MARBELLA AVE	25	25	4.13	31	10.9	7.9	7.098	1.42	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 PANAMA AVE	29	29	0.18	22.2	5.573	4.88	4.506	0.837	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 RAVENNA AVE	52	50	1.02	20.6	4.928	4.845	2.916	0.404	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 MARBELLA AVE	34	34	2.89	26.2	10.27	9.3	5.248	0.9	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 NEPTUNE AVE	33	33	1.59	21	5.937	4.85	3.843	0.669	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 PANAMA AVE	40	40	0.94	76	11.37	4.06	17.69	2.796	2	0.05	0.601	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 RAVENNA AVE	28	27	1.8	42	6.885	5.01	7.509	1.419	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 MARBELLA AVE	26	26	4.25	32	11.19	8.21	7.11	1.394	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 NEPTUNE AVE	49	47	1.51	16.1	6.195	5.58	3.068	0.438	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 PANAMA AVE	30	30	5.23	44.4	9.324	7.385	7.547	1.378	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 RAVENNA AVE	31	31	1.78	73.8	7.075	4.47	12.95	2.326	1	0.0323	0.796	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24606 MARBELLA AVE	63	62	1.58	22	6.38	5.67	3.726	0.469	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Lead (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24607 MARBELLA AVE	31	31	1.3	29.4	8.573	7.13	5.267	0.946	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 NEPTUNE AVE	37	37	1.94	76.2	12.97	5.07	16.92	2.781	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 PANAMA AVE	22	22	2.15	330	26.96	7.52	69.24	14.76	2	0.0909	0.302	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 RAVENNA AVE	40	40	1.17	58.7	9.969	5.19	12.02	1.901	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 NEPTUNE AVE	30	29	1.68	14.9	6.652	5.6	3.371	0.616	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 PANAMA AVE	34	34	2.25	46.8	9.226	5.885	8.955	1.536	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 RAVENNA AVE	45	44	1.46	16.1	5.363	4.95	2.451	0.365	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 MARBELLA AVE	51	50	2.7	144	9.61	6.54	19.44	2.722	1	0.0196	0.927	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 NEPTUNE AVE	47	46	2	17.2	5.822	5.07	2.945	0.43	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 PANAMA AVE	33	31	3.39	74.3	10.11	5.47	12.91	2.248	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 RAVENNA AVE	46	45	2.74	141	13.34	7.03	22.69	3.345	2	0.0435	0.677	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 MARBELLA AVE	52	48	5.57	14.9	8.73	8.245	2.002	0.278	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 NEPTUNE AVE	39	36	3.89	18.9	7.451	5.86	3.783	0.606	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 PANAMA AVE	51	47	3.4	221	18.85	9.38	35.8	5.013	3	0.0588	0.473	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 RAVENNA AVE	33	29	3.92	13.7	5.893	5.05	2.345	0.408	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24616 MARBELLA AVE	46	45	1.24	21	7.309	6.45	4.419	0.652	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24617 MARBELLA AVE	34	34	3.14	20.1	8.415	7.335	3.697	0.634	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 NEPTUNE AVE	26	24	4.87	20.3	8.96	7.09	4.606	0.903	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 PANAMA AVE	28	28	3.08	62	13.67	7.535	14.53	2.747	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 RAVENNA AVE	40	36	2.51	10.4	3.85	3.45	1.503	0.238	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 NEPTUNE AVE	28	28	4.37	30.9	8.151	7.185	4.898	0.926	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 PANAMA AVE	38	38	2.91	36.2	11.56	7.52	9.002	1.46	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 RAVENNA AVE	35	34	3.48	15.7	5.575	5.04	2.559	0.433	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 MARBELLA AVE	53	51	0.85	41.1	8.812	7.02	6.683	0.918	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 NEPTUNE AVE	34	34	3.36	50.6	7.34	5.34	8.154	1.398	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 MARBELLA AVE	32	32	3.79	23.1	8.476	7.005	4.392	0.776	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 NEPTUNE AVE	36	35	4.04	34.3	8.873	6.545	6.852	1.142	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24627 MARBELLA AVE	48	48	2.8	26.3	9.159	8.365	4.696	0.678	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24628 MARBELLA AVE	52	50	0.48	45	10.1	8.07	9.144	1.268	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24628 NEPTUNE AVE	18	18	3.49	27.5	7.201	6.55	5.313	1.252	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24629 NEPTUNE AVE	39	37	4.17	20	8.395	7	4.279	0.685	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24632 NEPTUNE AVE	20	19	5.06	30.1	8.921	6.275	6.811	1.523	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24633 MARBELLA AVE	40	39	2.3	390	20.24	8.42	60.73	9.603	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 MARBELLA AVE	46	46	1.27	49.4	9.349	7.03	8.754	1.291	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 RAVENNA AVE	56	54	2.98	77	8.44	4.97	13	1.737	2	0.0357	0.777	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 NEPTUNE AVE	46	45	4.47	50.1	8.994	6.99	6.954	1.025	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 PANAMA AVE	30	30	4.24	156	24.47	11.6	31.7	5.788	3	0.1	0.188	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 MARBELLA AVE	36	36	2.15	59.8	10.4	7.215	11.01	1.835	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 NEPTUNE AVE	39	39	4.21	29.3	8.672	7	5.333	0.854	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 RAVENNA AVE	53	50	3.6	36.3	7.292	6.03	4.727	0.649	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 MARBELLA AVE	43	39	2.55	18.2	8.076	7.6	3.442	0.525	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 RAVENNA AVE	33	33	3.74	65	14.54	7.74	15.44	2.688	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24707 MARBELLA AVE	37	37	2.99	29.9	7.672	5.42	6.218	1.022	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24708 PANAMA AVE	37	36	3.43	108	16.7	11.6	20.54	3.378	2	0.0541	0.558	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 NEPTUNE AVE	37	36	3.38	24.9	9.554	6.96	5.429	0.893	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 PANAMA AVE	43	43	1.6	68.2	15.28	8.1	16.4	2.501	2	0.0465	0.64	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 RAVENNA AVE	52	51	3.77	27.9	7.153	5.495	4.403	0.611	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24710 MARBELLA AVE	43	43	1.61	140	10.11	6.06	20.69	3.155	1	0.0233	0.89	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 NEPTUNE AVE	32	31	2.78	37.3	6.273	4.625	6.062	1.072	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 PANAMA AVE	27	27	4.48	220	20.84	9.17	41.53	7.992	2	0.0741	0.394	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 RAVENNA AVE	45	45	3.62	146	13.02	7.59	22.86	3.408	2	0.0444	0.665	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 MARBELLA AVE	37	36	1.6	12	5.017	4.16	2.945	0.484	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 PANAMA AVE	34	30	3.1	209	20.68	9.7	36.07	6.186	2	0.0588	0.512	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 RAVENNA AVE	35	34	2.49	21.8	4.741	4.03	3.316	0.56	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Lead (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24715 NEPTUNE AVE	37	37	3.31	34.7	8.541	7.06	5.809	0.955	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 MARBELLA AVE	30	30	3.11	32.6	8.19	7.34	6.093	1.112	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 RAVENNA AVE	15	15	2.31	21	8.695	7.66	5.989	1.546	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24717 MARBELLA AVE	38	38	2.6	12.1	5.724	5.05	2.515	0.408	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 NEPTUNE AVE	65	62	3.05	17.3	4.92	4.33	2.161	0.268	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 PANAMA AVE	33	31	3.95	91	15.67	10.5	16.03	2.79	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 NEPTUNE AVE	33	32	2.15	65.5	15.05	7.57	15.35	2.672	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 PANAMA AVE	28	28	4.19	146	18.2	9.225	27.47	5.192	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 RAVENNA AVE	45	41	3.26	82.8	8.038	5.2	12.22	1.822	1	0.0222	0.901	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 MARBELLA AVE	34	33	2.6	17.9	7.246	5.42	3.982	0.683	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 NEPTUNE AVE	40	39	0.44	18.6	5.741	4.395	3.771	0.596	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 PANAMA AVE	18	18	2.26	27.8	8.758	6.415	6.549	1.544	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 RAVENNA AVE	41	41	3.1	105	15.16	7.09	21.59	3.372	2	0.0488	0.614	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 MARBELLA AVE	22	21	1.08	23.1	6.386	5.205	4.86	1.036	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 RAVENNA AVE	37	37	3.05	43.1	8.319	5.01	8.381	1.378	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 NEPTUNE AVE	35	34	2.95	111	9.84	4.67	18.26	3.087	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 MARBELLA AVE	49	45	0.71	28.2	7.386	6.22	4.32	0.617	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 RAVENNA AVE	37	33	1.73	17	4.863	3.62	3.555	0.584	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24727 MARBELLA AVE	40	39	0.97	65.4	7.985	4.635	11.28	1.784	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 NEPTUNE AVE	33	33	2.54	27.5	5.126	4.2	4.291	0.747	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 PANAMA AVE	31	31	3.56	239	30.61	9.57	46.29	8.314	6	0.194	0.0039	Reject H0, Conclude Site Proportion > 0.05	
24729 NEPTUNE AVE	34	34	3.17	155	13.44	5.42	25.98	4.392	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 PANAMA AVE	16	16	3.84	52.4	8.81	7.395	8.157	1.399	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 RAVENNA AVE	37	36	3.1	35	6.808	4.495	7.745	1.936	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 MARBELLA AVE	37	36	1.22	27.3	6.788	5.22	5.494	0.903	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 NEPTUNE AVE	35	34	1.71	26.4	5.983	3.45	5.677	0.96	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 PANAMA AVE	33	32	2.63	48.6	8.739	5.55	9.064	1.578	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 RAVENNA AVE	42	40	3.24	19.8	6.513	5.255	3.343	0.516	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 MARBELLA AVE	32	32	1.36	18.8	7.021	6.425	4.401	0.778	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 PANAMA AVE	38	35	4.58	98.7	14.78	10.4	17.35	2.815	1	0.0263	0.858	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 RAVENNA AVE	40	39	4.01	30.2	7.407	6.285	4.485	0.709	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24735 NEPTUNE AVE	36	36	2	25	7.423	5.305	5.397	0.899	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 MARBELLA AVE	62	50	1.6	40.7	9.126	6.48	7.369	1.022	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 RAVENNA AVE	43	41	2.41	12.3	5.69	4.97	2.056	0.314	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24737 MARBELLA AVE	28	26	2.57	51	8.207	5.76	9.001	1.701	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 NEPTUNE AVE	51	51	2.36	97.1	9.456	4.89	16.64	2.331	2	0.0392	0.731	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 PANAMA AVE	32	32	2.29	103	18.54	8.485	23.7	4.19	3	0.0938	0.214	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 NEPTUNE AVE	41	38	3.12	39.1	11.02	8.38	7.757	1.212	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 PANAMA AVE	43	40	2.5	45	6.116	4.7	6.674	1.018	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 RAVENNA AVE	42	40	3.12	27.2	7.532	5.69	5.013	0.774	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24740 MARBELLA AVE	64	61	2.15	31	9.083	5.635	7.02	0.877	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24741 MARBELLA AVE	12	12	3.7	20.9	9.676	7.635	5.577	1.61	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24743 RAVENNA AVE	42	41	3.76	23.1	8.917	7.95	4.078	0.629	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24744 MARBELLA AVE	25	25	4.01	13.3	6.96	5.81	2.812	0.574	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24748 RAVENNA AVE	24	23	4.39	13.3	6.96	5.81	2.812	0.574	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24749 RAVENNA AVE	43	41	3.84	163	15.68	10.1	24.34	3.712	1	0.0233	0.89	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24752 RAVENNA AVE	45	42	3.42	265	13.79	7	38.81	5.786	1	0.0222	0.901	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24802 PANAMA AVE	47	47	2.49	27.8	8.701	5.82	6.719	0.98	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 NEPTUNE AVE	32	31	3.37	25	9.068	5.745	6.322	1.118	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 PANAMA AVE	18	18	2.87	7.65	4.587	4.59	1.398	0.329	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 NEPTUNE AVE	27	27	3.89	31	11.21	9.08	7.335	1.412	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 PANAMA AVE	36	34	3.53	21.3	7.004	5.405	4.15	0.692	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24812 PANAMA AVE	29	28	1.69	26.7	6.334	3.92	6.328	1.175	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24813 PANAMA AVE	15	15	4.33	34.7	11.82	7.76	9.641	2.489	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Lead (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24815 NEPTUNE AVE	30	29	3.5	51.2	15	11.45	11.48	2.096	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24818 PANAMA AVE	34	33	2.21	88.1	10.12	4.795	18.97	3.254	2	0.0388	0.512	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24819 PANAMA AVE	34	32	3.65	267	17.18	6.58	46.1	7.907	2	0.0588	0.512	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24822 PANAMA AVE	43	39	2.74	82.9	10.58	5.38	14.73	2.246	1	0.0233	0.89	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24823 PANAMA AVE	39	39	3.72	16.1	7.072	6.16	3.148	0.504	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24825 NEPTUNE AVE	98	93	2.84	34.5	8.725	4.605	7.812	0.789	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24828 PANAMA AVE	36	35	1.78	191	15.08	5.6	33.45	5.576	2	0.0556	0.543	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24829 PANAMA AVE	48	48	4.44	24	7.756	6.65	3.709	0.535	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24832 PANAMA AVE	38	37	3.36	23.7	8.772	7.09	5.557	0.901	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24833 PANAMA AVE	43	40	4.26	34.8	8.933	7.08	5.59	0.852	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24838 PANAMA AVE	28	28	3.01	90.7	12.5	7.95	16.73	3.163	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24904 NEPTUNE AVE	74	69	2.71	47.3	12.1	8.83	8.92	1.037	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24912 NEPTUNE AVE	36	36	3.1	48	10.44	7.03	9.78	1.63	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
301 244TH ST	29	29	0.18	39.1	7.106	4.98	7.829	1.454	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
305 244TH ST	54	52	3.72	115	16.93	8.31	24.16	3.288	3	0.0556	0.511	Do Not Reject H0, Conclude Site Proportion <= 0.05	
311 244TH ST	71	70	2.74	254	38.69	13.3	54.88	6.513	13	0.183	4.60E-05	Reject H0, Conclude Site Proportion > 0.05	
317 244TH ST	58	56	4.08	207	20.75	9.76	37.04	4.863	3	0.0517	0.559	Do Not Reject H0, Conclude Site Proportion <= 0.05	
321 244TH ST	40	38	3.2	38.2	11.11	9.725	6.419	1.015	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
327 244TH ST	12	12	7.23	12.7	8.59	8.265	1.473	0.425	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
331 244TH ST	28	28	3.63	22.4	7.868	7.35	3.26	0.616	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
337 244TH ST	34	33	3.16	15.6	7.549	7.22	2.482	0.426	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
341 244TH ST	48	46	4.15	28.1	8.61	7.1	5.111	0.738	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
344 249TH ST	35	34	4.17	65.7	12.58	9.3	11.6	1.961	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
345 249TH ST	93	84	0.18	203	14.34	7.48	27.41	2.843	2	0.0215	0.95	Do Not Reject H0, Conclude Site Proportion <= 0.05	
347 244TH ST	32	31	3.61	26.9	9.608	7.69	6.506	1.15	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 248TH ST	49	49	2.98	26	7.449	5.32	5.483	0.783	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 249TH ST	51	49	3.15	133	15.28	8.56	21.82	3.055	2	0.0392	0.731	Do Not Reject H0, Conclude Site Proportion <= 0.05	
351 244TH ST	32	31	2.84	135	11.95	7.225	22.79	4.028	1	0.0313	0.806	Do Not Reject H0, Conclude Site Proportion <= 0.05	
352 249TH ST	32	32	2.85	56.9	13.26	8.655	11.98	2.118	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
353 249TH ST	32	32	3.05	24.6	7.154	5.955	4.387	0.776	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
354 248TH ST	39	38	1.6	47.2	9.401	4.74	10.6	1.697	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 244TH ST	40	39	3.05	15.9	7.739	7.465	3.096	0.49	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 249TH ST	24	24	4.4	14.6	7.633	5.95	3.069	0.627	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
358 249TH ST	43	43	0.56	39.4	7.38	4.57	7.528	1.148	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
360 248TH ST	48	45	3.4	26.3	6.497	5.13	3.857	0.557	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
361 244TH ST	23	23	2.81	18.1	7.638	6.99	3.973	0.828	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
362 249TH ST	25	25	3.53	31.4	9.047	6.19	7.864	1.573	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
363 249TH ST	27	27	4.65	81.8	18.25	7.27	19.37	3.728	1	0.037	0.75	Do Not Reject H0, Conclude Site Proportion <= 0.05	
364 248TH ST	48	45	1.98	153	10.57	4.97	22.43	3.238	1	0.0208	0.915	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 244TH ST	13	13	2.53	151	22.6	10.6	39.22	10.88	1	0.0769	0.487	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 249TH ST	46	42	3.1	67.7	11.83	8.47	12	1.769	1	0.0217	0.906	Do Not Reject H0, Conclude Site Proportion <= 0.05	
368 249TH ST	55	53	2.85	144	11.66	6.2	20.26	2.731	1	0.0182	0.94	Do Not Reject H0, Conclude Site Proportion <= 0.05	
373 249TH ST	42	41	4.01	31.1	11.31	7.405	8.128	1.254	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 248TH ST	120	111	1.83	241	14.97	7.125	30.92	2.823	4	0.0333	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 249TH ST	27	26	3.57	32.9	9.639	6.57	8.351	1.607	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 244TH ST	32	30	5.04	28.3	9.642	7.825	4.96	0.877	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 249TH ST	33	33	0.5	26.2	6.162	4.62	6.134	1.068	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
378 249TH ST	41	41	3.42	44.9	7.808	6.58	6.581	1.028	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
383 249TH ST	32	32	3.83	24.7	9.507	7.245	5.758	1.018	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
402 249TH ST	32	32	1.82	29.9	7.131	5.06	6.421	1.135	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
408 249TH ST	24	24	3.42	127	14.39	6.975	24.68	5.038	1	0.0417	0.708	Do Not Reject H0, Conclude Site Proportion <= 0.05	
412 249TH ST	77	71	1.34	381	17.26	6.89	46.27	5.273	3	0.039	0.747	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Thallium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24401 MARBELLA AVE	33	2	0.15	0.23	0.218	0.23	0.0291	0.00507	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 NEPTUNE AVE	48	1	0.23	0.23	0.23	0.23	2.81E-16	4.05E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 PANAMA AVE	127	12	0.23	0.74	0.253	0.23	0.0833	0.0074	12	0.0945		Reject H0, Conclude Site Proportion > 0.05	
24402 RAVENNA AVE	40	3	0.1	0.3	0.203	0.23	0.057	0.00901	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 NEPTUNE AVE	46	1	0.23	0.23	0.23	0.23	2.53E-16	3.72E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 RAVENNA AVE	62	1	0.23	0.23	0.23	0.23	3.08E-16	3.91E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 MARBELLA AVE	25	1	0.23	0.23	0.23	0.23	1.42E-16	2.83E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 MARBELLA AVE	40	1	0.23	0.23	0.23	0.23	2.53E-16	4.00E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 NEPTUNE AVE	28	2	0.15	0.23	0.173	0.15	0.0368	0.00696	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 PANAMA AVE	23	2	0.1	0.23	0.196	0.23	0.0584	0.0122	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 RAVENNA AVE	26	1	0.23	0.23	0.23	0.23	1.42E-16	2.78E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 NEPTUNE AVE	24	2	0.15	0.23	0.19	0.19	0.0409	0.00834	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 RAVENNA AVE	33	3	0.23	0.89	0.266	0.23	0.145	0.0253	2	0.0606	0.496	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24410 PANAMA AVE	33	1	0.23	0.23	0.23	0.23	1.97E-16	3.44E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 MARBELLA AVE	69	1	0.23	0.23	0.23	0.23	3.08E-16	3.70E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 PANAMA AVE	37	11	0.23	1.06	0.305	0.23	0.186	0.0306	10	0.27	9.76E-06	Reject H0, Conclude Site Proportion > 0.05	
24412 MARBELLA AVE	31	2	0.15	0.23	0.217	0.23	0.0299	0.00537	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 RAVENNA AVE	61	1	0.23	0.23	0.23	0.23	3.08E-16	3.94E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 NEPTUNE AVE	24	1	0.23	0.23	0.23	0.23	1.13E-16	2.32E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 RAVENNA AVE	28	1	0.23	0.23	0.23	0.23	1.70E-16	3.21E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 MARBELLA AVE	50	1	0.23	0.23	0.23	0.23	2.80E-16	3.97E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 NEPTUNE AVE	21	1	0.23	0.23	0.23	0.23	8.53E-17	1.86E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 PANAMA AVE	33	1	0.23	0.23	0.23	0.23	1.97E-16	3.44E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 RAVENNA AVE	42	2	0.1	0.23	0.211	0.23	0.046	0.0071	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 MARBELLA AVE	8	1	0.23	0.23	0.23	0.23	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 PANAMA AVE	47	1	0.23	0.23	0.23	0.23	2.81E-16	4.09E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 NEPTUNE AVE	32	2	0.23	0.25	0.231	0.23	0.00354	0.000625	1	0.0313	0.806	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 RAVENNA AVE	32	2	0.1	0.23	0.206	0.23	0.0516	0.00911	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24420 PANAMA AVE	33	1	0.23	0.23	0.23	0.23	1.97E-16	3.44E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24421 PANAMA AVE	30	1	0.23	0.23	0.23	0.23	1.69E-16	3.09E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 MARBELLA AVE	43	2	0.15	0.23	0.224	0.23	0.0206	0.00314	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 NEPTUNE AVE	36	2	0.1	0.23	0.208	0.23	0.0491	0.00819	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 RAVENNA AVE	29	2	0.23	0.4	0.236	0.23	0.0316	0.00586	1	0.0345	0.774	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 MARBELLA AVE	13	2	0.23	0.31	0.236	0.23	0.0222	0.00615	1	0.0769	0.487	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 NEPTUNE AVE	37	1	0.23	0.23	0.23	0.23	2.25E-16	3.70E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 RAVENNA AVE	40	2	0.1	0.23	0.211	0.23	0.047	0.00743	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 MARBELLA AVE	24	2	0.1	0.23	0.208	0.23	0.0495	0.0101	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 NEPTUNE AVE	30	3	0.1	0.26	0.205	0.23	0.0537	0.0098	1	0.0333	0.785	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 PANAMA AVE	30	1	0.23	0.23	0.23	0.23	1.69E-16	3.09E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 RAVENNA AVE	49	2	0.23	1.24	0.251	0.23	0.144	0.0206	1	0.0204	0.919	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 MARBELLA AVE	25	1	0.23	0.23	0.23	0.23	1.42E-16	2.83E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 PANAMA AVE	38	2	0.15	0.23	0.228	0.23	0.013	0.00211	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 NEPTUNE AVE	19	1	0.23	0.23	0.23	0.23	5.70E-17	1.31E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 RAVENNA AVE	29	1	0.23	0.23	0.23	0.23	1.70E-16	3.15E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24430 PANAMA AVE	30	2	0.1	0.23	0.217	0.23	0.0397	0.00724	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24431 PANAMA AVE	35	1	0.23	0.23	0.23	0.23	2.25E-16	3.81E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24432 MARBELLA AVE	67	2	0.15	0.23	0.225	0.23	0.0191	0.00233	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24433 MARBELLA AVE	27	2	0.1	0.23	0.196	0.23	0.0581	0.0112	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24436 PANAMA AVE	35	2	0.23	0.23	0.23	0.23	2.25E-16	3.81E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 MARBELLA AVE	51	2	0.15	0.23	0.221	0.23	0.026	0.00365	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 NEPTUNE AVE	58	2	0.1	0.23	0.217	0.23	0.0399	0.00524	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 PANAMA AVE	48	4	0.1	0.29	0.216	0.23	0.0452	0.00652	2	0.0417	0.699	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 RAVENNA AVE	44	1	0.23	0.23	0.23	0.23	2.53E-16	3.81E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 MARBELLA AVE	29	1	0.23	0.23	0.23	0.23	1.70E-16	3.15E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

**Appendix 6  
ProUCL Output of One Sample Proportion Test Results**

One Sample Proportion Test Results - Thallium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24503 NEPTUNE AVE	60	2	0.15	0.23	0.223	0.23	0.0223	0.00288	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 PANAMA AVE	28	2	0.1	0.23	0.225	0.23	0.0246	0.00464	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 RAVENNA AVE	34	4	0.15	0.28	0.227	0.23	0.0214	0.00367	2	0.0588	0.512	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24506 MARBELLA AVE	36	11	0.23	0.61	0.281	0.23	0.0877	0.0146	14	0.389	8.12E-10	Reject H0, Conclude Site Proportion > 0.05	
24507 MARBELLA AVE	36	1	0.23	0.23	0.23	0.23	2.25E-16	3.75E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 NEPTUNE AVE	40	1	0.23	0.23	0.23	0.23	2.53E-16	4.00E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 PANAMA AVE	24	1	0.23	0.23	0.23	0.23	1.13E-16	2.32E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 RAVENNA AVE	39	1	0.23	0.23	0.23	0.23	2.25E-16	3.60E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 NEPTUNE AVE	31	1	0.23	0.23	0.23	0.23	1.98E-16	3.55E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 PANAMA AVE	47	1	0.23	0.23	0.23	0.23	2.81E-16	4.09E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 RAVENNA AVE	37	1	0.23	0.23	0.23	0.23	2.25E-16	3.70E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 MARBELLA AVE	48	1	0.23	0.23	0.23	0.23	2.81E-16	4.05E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 NEPTUNE AVE	36	1	0.15	0.15	0.15	0.15	5.63E-17	9.38E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 PANAMA AVE	28	2	0.23	0.42	0.237	0.23	0.0359	0.00679	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 RAVENNA AVE	46	1	0.23	0.23	0.23	0.23	2.53E-16	3.72E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 NEPTUNE AVE	37	1	0.23	0.23	0.23	0.23	2.25E-16	3.70E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 PANAMA AVE	51	1	0.23	0.23	0.23	0.23	2.80E-16	3.93E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 RAVENNA AVE	30	1	0.23	0.23	0.23	0.23	1.69E-16	3.09E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24516 MARBELLA AVE	30	1	0.23	0.23	0.23	0.23	1.69E-16	3.09E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24517 MARBELLA AVE	12	2	0.1	0.23	0.187	0.23	0.064	0.0185	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 NEPTUNE AVE	45	1	0.23	0.23	0.23	0.23	2.53E-16	3.77E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 PANAMA AVE	42	4	0.1	0.31	0.215	0.23	0.0494	0.00763	2	0.0476	0.628	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 RAVENNA AVE	30	1	0.23	0.23	0.23	0.23	1.69E-16	3.09E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 NEPTUNE AVE	35	1	0.23	0.23	0.23	0.23	2.25E-16	3.81E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 PANAMA AVE	30	1	0.23	0.23	0.23	0.23	1.69E-16	3.09E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 MARBELLA AVE	27	1	0.23	0.23	0.23	0.23	1.70E-16	3.27E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 NEPTUNE AVE	28	1	0.23	0.23	0.23	0.23	1.70E-16	3.27E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 PANAMA AVE	36	1	0.23	0.23	0.23	0.23	2.25E-16	3.75E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 RAVENNA AVE	35	1	0.23	0.23	0.23	0.23	2.25E-16	3.81E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 MARBELLA AVE	45	1	0.23	0.23	0.23	0.23	2.53E-16	3.77E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 NEPTUNE AVE	37	1	0.23	0.23	0.23	0.23	2.25E-16	3.70E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 RAVENNA AVE	17	1	0.23	0.23	0.23	0.23	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24526 MARBELLA AVE	36	1	0.23	0.23	0.23	0.23	2.25E-16	3.75E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 NEPTUNE AVE	31	1	0.23	0.23	0.23	0.23	1.98E-16	3.55E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 PANAMA AVE	39	1	0.15	0.15	0.15	0.15	8.44E-17	1.35E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 NEPTUNE AVE	32	14	0.23	0.84	0.35	0.27	0.169	0.0299	17	0.531	2.09E-14	Reject H0, Conclude Site Proportion > 0.05	
24529 PANAMA AVE	24	2	0.15	0.23	0.177	0.15	0.0385	0.00786	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 MARBELLA AVE	26	1	0.23	0.23	0.23	0.23	1.42E-16	2.78E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 NEPTUNE AVE	27	2	0.1	0.23	0.191	0.23	0.0605	0.0116	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 PANAMA AVE	21	1	0.23	0.23	0.23	0.23	8.53E-17	1.86E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 RAVENNA AVE	23	1	0.15	0.15	0.15	0.15	5.68E-17	1.18E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 MARBELLA AVE	29	1	0.23	0.23	0.23	0.23	1.42E-16	2.83E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 PANAMA AVE	29	1	0.23	0.23	0.23	0.23	1.70E-16	3.15E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 RAVENNA AVE	25	1	0.23	0.23	0.23	0.23	1.70E-16	3.15E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 MARBELLA AVE	52	3	0.15	0.29	0.219	0.23	0.0308	0.00427	1	0.0192	0.931	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 MARBELLA AVE	34	1	0.23	0.23	0.23	0.23	1.97E-16	3.38E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 NEPTUNE AVE	33	1	0.23	0.23	0.23	0.23	1.97E-16	3.44E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 PANAMA AVE	40	1	0.23	0.23	0.23	0.23	2.53E-16	4.00E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 RAVENNA AVE	26	4	0.23	0.38	0.241	0.23	0.0339	0.0064	3	0.107	0.163	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 MARBELLA AVE	28	7	0.1	0.98	0.263	0.23	0.194	0.038	5	0.192	0.00851	Reject H0, Conclude Site Proportion > 0.05	
24603 NEPTUNE AVE	49	1	0.23	0.23	0.23	0.23	2.80E-16	4.01E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 PANAMA AVE	30	1	0.23	0.23	0.23	0.23	1.69E-16	3.09E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 RAVENNA AVE	31	23	0.1	3.47	1.886	2.12	1.345	0.242	21	0.677	1.30E-20	Reject H0, Conclude Site Proportion > 0.05	
24606 MARBELLA AVE	63	1	0.23	0.23	0.23	0.23	3.08E-16	3.88E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 PROCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Thallium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24607 MARBELLA AVE	31	1	0.23	0.23	0.23	0.23	1.98E-16	3.55E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 NEPTUNE AVE	37	1	0.23	0.23	0.23	0.23	2.25E-16	3.70E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 PANAMA AVE	22	15	0.23	2.52	1.43	1.97	0.0126	0.207	14	0.636	1.33E-13	Reject H0, Conclude Site Proportion > 0.05	
24609 NEPTUNE AVE	40	2	0.15	0.23	0.228	0.23	0.0926	0.002	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 NEPTUNE AVE	30	1	0.23	0.23	0.23	0.23	1.69E-16	3.09E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 PANAMA AVE	34	1	0.23	0.23	0.23	0.23	1.97E-16	3.38E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 RAVENNA AVE	45	1	0.23	0.23	0.23	0.23	2.53E-16	3.77E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 MARBELLA AVE	51	1	0.23	0.23	0.23	0.23	2.80E-16	3.93E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 NEPTUNE AVE	47	17	0.15	0.58	0.278	0.23	0.108	0.0158	17	0.362	4.92E-11	Reject H0, Conclude Site Proportion > 0.05	
24612 PANAMA AVE	33	6	0.15	0.34	0.165	0.15	0.0418	0.00727	2	0.0606	0.496	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 RAVENNA AVE	46	1	0.23	0.23	0.23	0.23	2.53E-16	3.72E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 MARBELLA AVE	52	1	0.23	0.23	0.23	0.23	2.80E-16	3.89E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 NEPTUNE AVE	39	1	0.23	0.23	0.23	0.23	2.25E-16	3.60E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 PANAMA AVE	51	1	0.23	0.23	0.23	0.23	2.80E-16	3.93E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 RAVENNA AVE	33	1	0.23	0.23	0.23	0.23	1.97E-16	3.44E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24616 MARBELLA AVE	46	1	0.23	0.23	0.23	0.23	2.53E-16	3.72E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24617 MARBELLA AVE	34	19	0.23	1.2	0.494	0.36	0.296	0.0507	21	0.618	2.34E-19	Reject H0, Conclude Site Proportion > 0.05	
24618 NEPTUNE AVE	26	1	0.23	0.23	0.23	0.23	1.42E-16	2.78E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 PANAMA AVE	28	2	0.15	0.23	0.219	0.23	0.0285	0.00539	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 RAVENNA AVE	40	1	0.23	0.23	0.23	0.23	2.53E-16	4.00E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 NEPTUNE AVE	28	1	0.23	0.23	0.23	0.23	1.70E-16	3.21E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 PANAMA AVE	38	1	0.23	0.23	0.23	0.23	2.25E-16	3.65E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 RAVENNA AVE	35	1	0.23	0.23	0.23	0.23	2.25E-16	3.81E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 MARBELLA AVE	53	1	0.23	0.23	0.23	0.23	2.80E-16	3.85E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 NEPTUNE AVE	34	1	0.23	0.23	0.23	0.23	1.97E-16	3.38E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 MARBELLA AVE	36	1	0.23	0.23	0.23	0.23	1.97E-16	3.49E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 NEPTUNE AVE	32	1	0.23	0.23	0.23	0.23	2.25E-16	3.75E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 MARBELLA AVE	48	1	0.23	0.23	0.23	0.23	2.81E-16	4.05E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24627 MARBELLA AVE	52	6	0.23	0.44	0.24	0.23	0.0368	0.0051	5	0.0962	0.117	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24628 MARBELLA AVE	18	1	0.23	0.23	0.23	0.23	2.86E-17	6.73E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24629 NEPTUNE AVE	39	2	0.23	0.32	0.232	0.23	0.0144	0.00231	1	0.0256	0.865	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24632 NEPTUNE AVE	20	2	0.1	0.23	0.21	0.23	0.0476	0.0106	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24633 MARBELLA AVE	40	1	0.15	0.15	0.15	0.15	8.43E-17	1.33E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 MARBELLA AVE	46	1	0.23	0.23	0.23	0.23	2.53E-16	3.72E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 RAVENNA AVE	56	1	0.23	0.23	0.23	0.23	2.80E-16	3.74E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 NEPTUNE AVE	46	1	0.23	0.23	0.23	0.23	2.53E-16	3.72E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 PANAMA AVE	30	2	0.23	0.28	0.232	0.23	0.00913	0.00167	1	0.0333	0.785	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 MARBELLA AVE	36	1	0.23	0.23	0.23	0.23	2.25E-16	3.75E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 NEPTUNE AVE	39	2	0.1	0.23	0.21	0.23	0.0475	0.00761	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 RAVENNA AVE	53	1	0.23	0.23	0.23	0.23	2.80E-16	3.85E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 MARBELLA AVE	43	1	0.23	0.23	0.23	0.23	2.53E-16	3.86E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 RAVENNA AVE	33	1	0.23	0.23	0.23	0.23	1.97E-16	3.44E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24707 MARBELLA AVE	37	10	0.23	0.54	0.262	0.23	0.0722	0.0119	9	0.243	6.75E-05	Reject H0, Conclude Site Proportion > 0.05	
24708 PANAMA AVE	37	1	0.23	0.23	0.23	0.23	2.25E-16	3.70E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 NEPTUNE AVE	37	4	0.23	0.36	0.236	0.23	0.0244	0.00401	3	0.0811	0.282	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 PANAMA AVE	43	2	0.1	0.23	0.2	0.23	0.0556	0.00847	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 RAVENNA AVE	52	1	0.23	0.23	0.23	0.23	2.80E-16	3.89E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24710 MARBELLA AVE	43	1	0.23	0.23	0.23	0.23	2.53E-16	3.86E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 NEPTUNE AVE	32	1	0.23	0.23	0.23	0.23	1.97E-16	3.49E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 PANAMA AVE	27	1	0.23	0.23	0.23	0.23	1.70E-16	3.27E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 RAVENNA AVE	45	1	0.23	0.23	0.23	0.23	2.53E-16	3.77E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 MARBELLA AVE	37	1	0.23	0.23	0.23	0.23	2.25E-16	3.70E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 PANAMA AVE	34	5	0.23	0.36	0.241	0.23	0.0321	0.00551	6	0.176	0.00627	Reject H0, Conclude Site Proportion > 0.05	
24713 RAVENNA AVE	35	1	0.23	0.23	0.23	0.23	2.25E-16	3.81E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 Product Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Thallium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24715 NEPTUNE AVE	37	2	0.15	0.23	0.221	0.23	0.0252	0.00414	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 MARBELLA AVE	30	12	0.23	0.78	0.336	0.23	0.162	0.0295	13	0.433	6.53E-10	Reject H0, Conclude Site Proportion > 0.05	
24716 RAVENNA AVE	15	1	0.23	0.23	0.23	0.23	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24717 MARBELLA AVE	38	4	0.23	0.32	0.235	0.23	0.0191	0.0031	3	0.0789	0.296	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 NEPTUNE AVE	65	1	0.23	0.23	0.23	0.23	3.08E-16	3.82E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 PANAMA AVE	33	1	0.23	0.23	0.23	0.23	1.97E-16	3.44E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 NEPTUNE AVE	33	2	0.23	0.24	0.23	0.23	0.00174	0.000303	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 PANAMA AVE	28	3	0.23	0.35	0.236	0.23	0.0242	0.00458	2	0.0714	0.412	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 RAVENNA AVE	45	1	0.23	0.23	0.23	0.23	2.53E-16	3.77E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 MARBELLA AVE	34	11	0.23	0.42	0.263	0.23	0.0523	0.00896	14	0.412	3.27E-10	Reject H0, Conclude Site Proportion > 0.05	
24722 NEPTUNE AVE	40	1	0.23	0.23	0.23	0.23	2.53E-16	4.00E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 PANAMA AVE	18	1	0.23	0.23	0.23	0.23	2.86E-17	6.73E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 RAVENNA AVE	41	2	0.23	0.26	0.231	0.23	0.00469	0.00073171	1	0.0244	0.878	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 MARBELLA AVE	22	1	0.23	0.23	0.23	0.23	8.52E-17	1.82E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 RAVENNA AVE	37	1	0.23	0.23	0.23	0.23	2.25E-16	3.70E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 NEPTUNE AVE	35	2	0.1	0.23	0.208	0.23	0.0497	0.0084	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 MARBELLA AVE	49	2	0.23	0.25	0.23	0.23	0.00286	0.00040816	1	0.0204	0.919	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 RAVENNA AVE	37	1	0.23	0.23	0.23	0.23	2.25E-16	3.70E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24727 MARBELLA AVE	40	1	0.23	0.23	0.23	0.23	2.53E-16	4.00E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 NEPTUNE AVE	33	1	0.23	0.23	0.23	0.23	1.97E-16	3.44E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 MARBELLA AVE	22	1	0.23	0.23	0.23	0.23	8.52E-17	1.82E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 NEPTUNE AVE	31	1	0.23	0.23	0.23	0.23	1.98E-16	3.55E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 PANAMA AVE	36	2	0.1	0.23	0.208	0.23	0.0497	0.0084	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 RAVENNA AVE	34	1	0.23	0.23	0.23	0.23	1.97E-16	3.38E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 MARBELLA AVE	16	1	0.23	0.23	0.23	0.23	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 MARBELLA AVE	37	4	0.23	0.31	0.234	0.23	0.0164	0.0027	3	0.0811	0.282	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 NEPTUNE AVE	35	1	0.23	0.23	0.23	0.23	2.25E-16	3.81E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 PANAMA AVE	33	1	0.23	0.23	0.23	0.23	1.97E-16	3.44E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 RAVENNA AVE	42	1	0.23	0.23	0.23	0.23	2.53E-16	3.90E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 MARBELLA AVE	32	7	0.23	0.83	0.282	0.23	0.129	0.0228	6	0.188	0.0046	Reject H0, Conclude Site Proportion > 0.05	
24733 PANAMA AVE	38	1	0.23	0.23	0.23	0.23	2.25E-16	3.65E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 RAVENNA AVE	40	4	0.23	0.47	0.241	0.23	0.0399	0.00631	5	0.125	0.048	Reject H0, Conclude Site Proportion > 0.05	
24735 NEPTUNE AVE	36	20	0.23	0.57	0.338	0.325	0.0994	0.0166	28	0.778	7.59E-30	Reject H0, Conclude Site Proportion > 0.05	
24736 MARBELLA AVE	62	1	0.23	0.23	0.23	0.23	2.80E-16	3.89E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 RAVENNA AVE	43	2	0.15	0.23	0.219	0.23	0.028	0.00428	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24737 MARBELLA AVE	28	1	0.23	0.23	0.23	0.23	1.70E-16	3.21E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 NEPTUNE AVE	51	2	0.1	0.23	0.215	0.23	0.0423	0.00592	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 PANAMA AVE	32	1	0.23	0.23	0.23	0.23	1.97E-16	3.49E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 NEPTUNE AVE	41	1	0.23	0.23	0.23	0.23	2.53E-16	3.95E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 PANAMA AVE	43	1	0.23	0.23	0.23	0.23	2.53E-16	3.86E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 RAVENNA AVE	42	1	0.23	0.23	0.23	0.23	2.53E-16	3.90E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24740 MARBELLA AVE	64	1	0.23	0.23	0.23	0.23	3.08E-16	3.85E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24741 MARBELLA AVE	12	1	0.23	0.23	0.23	0.23	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24743 RAVENNA AVE	42	1	0.23	0.23	0.23	0.23	2.53E-16	3.90E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24744 MARBELLA AVE	25	1	0.23	0.23	0.23	0.23	1.42E-16	2.83E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24748 RAVENNA AVE	24	1	0.23	0.23	0.23	0.23	1.13E-16	2.32E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24749 RAVENNA AVE	43	1	0.23	0.23	0.23	0.23	2.53E-16	3.86E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24752 RAVENNA AVE	45	1	0.23	0.23	0.23	0.23	2.53E-16	3.77E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24802 PANAMA AVE	47	1	0.23	0.23	0.23	0.23	2.81E-16	4.09E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 NEPTUNE AVE	32	1	0.23	0.23	0.23	0.23	1.97E-16	3.49E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 PANAMA AVE	18	1	0.23	0.23	0.23	0.23	2.86E-17	6.73E-18	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 NEPTUNE AVE	27	1	0.23	0.23	0.23	0.23	1.70E-16	3.27E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 PANAMA AVE	36	1	0.23	0.23	0.23	0.23	2.25E-16	3.75E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24812 PANAMA AVE	29	1	0.23	0.23	0.23	0.23	1.70E-16	3.15E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24813 PANAMA AVE	15	1	0.23	0.23	0.23	0.23	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Thallium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24815 NEPTUNE AVE	30	2	0.1	0.23	0.217	0.23	0.0397	0.00724	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24818 PANAMA AVE	34	1	0.23	0.23	0.23	0.23	1.97E-16	3.38E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24819 PANAMA AVE	34	1	0.23	0.23	0.23	0.23	1.97E-16	3.38E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24822 PANAMA AVE	43	1	0.23	0.23	0.23	0.23	2.53E-16	3.86E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24823 PANAMA AVE	39	1	0.23	0.23	0.23	0.23	2.25E-16	3.60E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24825 NEPTUNE AVE	98	2	0.1	0.23	0.222	0.23	0.0313	0.00316	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24828 PANAMA AVE	36	2	0.15	0.23	0.228	0.23	0.0133	0.00222	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24829 PANAMA AVE	48	1	0.23	0.23	0.23	0.23	2.81E-16	4.05E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24832 PANAMA AVE	38	1	0.23	0.23	0.23	0.23	2.25E-16	3.65E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24833 PANAMA AVE	43	1	0.23	0.23	0.23	0.23	2.53E-16	3.86E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24838 PANAMA AVE	28	2	0.1	0.23	0.202	0.23	0.0543	0.0103	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24904 NEPTUNE AVE	74	1	0.23	0.23	0.23	0.23	3.35E-16	3.90E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24912 NEPTUNE AVE	36	2	0.1	0.23	0.208	0.23	0.0491	0.00819	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
301 244TH ST	29	1	0.23	0.23	0.23	0.23	1.70E-16	3.15E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
305 244TH ST	54	2	0.15	0.23	0.215	0.23	0.0314	0.00427	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
311 244TH ST	71	9	0.15	0.36	0.215	0.23	0.0365	0.00433	3	0.0423	0.695	Do Not Reject H0, Conclude Site Proportion <= 0.05	
317 244TH ST	58	3	0.15	0.23	0.219	0.23	0.0271	0.00355	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
321 244TH ST	40	4	0.23	0.31	0.234	0.23	0.0168	0.00265	3	0.075	0.323	Do Not Reject H0, Conclude Site Proportion <= 0.05	
327 244TH ST	12	1	0.23	0.23	0.23	0.23	0	0	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
331 244TH ST	28	1	0.23	0.23	0.23	0.23	1.70E-16	3.21E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
337 244TH ST	34	1	0.23	0.23	0.23	0.23	1.97E-16	3.38E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
341 244TH ST	48	8	0.23	0.57	0.264	0.23	0.0802	0.013	9	0.188	0.00055373	Reject H0, Conclude Site Proportion > 0.05	
344 249TH ST	35	5	0.23	0.37	0.239	0.23	0.0291	0.00493	4	0.114	0.0958	Do Not Reject H0, Conclude Site Proportion <= 0.05	
345 249TH ST	93	38	0.1	3.47	1.465	0.23	1.377	0.143	43	0.462	5.86E-31	Reject H0, Conclude Site Proportion > 0.05	
347 244TH ST	32	1	0.23	0.23	0.23	0.23	1.97E-16	3.49E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 248TH ST	49	1	0.23	0.23	0.23	0.23	2.80E-16	4.01E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 249TH ST	51	1	0.23	0.23	0.23	0.23	2.80E-16	3.93E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
351 244TH ST	32	2	0.1	0.23	0.206	0.23	0.0516	0.00911	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
352 249TH ST	32	2	0.1	0.23	0.206	0.23	0.0516	0.00911	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
353 249TH ST	32	2	0.23	0.29	0.232	0.23	0.0106	0.00188	1	0.0313	0.806	Do Not Reject H0, Conclude Site Proportion <= 0.05	
354 248TH ST	39	1	0.23	0.23	0.23	0.23	2.25E-16	3.60E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 244TH ST	40	1	0.23	0.23	0.23	0.23	2.53E-16	4.00E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 249TH ST	24	1	0.23	0.23	0.23	0.23	1.13E-16	2.32E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
358 249TH ST	43	1	0.23	0.23	0.23	0.23	2.53E-16	3.86E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
360 248TH ST	48	1	0.23	0.23	0.23	0.23	2.81E-16	4.05E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
361 244TH ST	23	8	0.1	0.76	0.243	0.23	0.151	0.0315	6	0.261	0.00075351	Reject H0, Conclude Site Proportion > 0.05	
362 249TH ST	25	1	0.23	0.23	0.23	0.23	1.42E-16	2.83E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
363 249TH ST	27	1	0.23	0.23	0.23	0.23	1.70E-16	3.27E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
364 248TH ST	48	1	0.23	0.23	0.23	0.23	2.81E-16	4.05E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 244TH ST	13	2	0.23	0.27	0.233	0.23	0.0111	0.00308	1	0.0769	0.487	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 249TH ST	46	3	0.23	0.35	0.233	0.23	0.0181	0.00267	2	0.0435	0.677	Do Not Reject H0, Conclude Site Proportion <= 0.05	
368 249TH ST	55	1	0.23	0.23	0.23	0.23	2.80E-16	3.78E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
373 249TH ST	42	2	0.15	0.23	0.217	0.23	0.0302	0.00466	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 248TH ST	120	1	0.23	0.23	0.23	0.23	3.62E-16	3.31E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 249TH ST	27	1	0.23	0.23	0.23	0.23	1.70E-16	3.27E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 244TH ST	32	1	0.23	0.23	0.23	0.23	1.97E-16	3.49E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 249TH ST	33	1	0.23	0.23	0.23	0.23	1.97E-16	3.44E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
378 249TH ST	41	1	0.23	0.23	0.23	0.23	2.53E-16	3.95E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
383 249TH ST	32	1	0.23	0.23	0.23	0.23	1.97E-16	3.49E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
402 249TH ST	32	1	0.23	0.23	0.23	0.23	1.97E-16	3.49E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
408 249TH ST	24	1	0.23	0.23	0.23	0.23	1.13E-16	2.32E-17	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
412 249TH ST	77	57	0.1	3.17	0.921	0.76	0.679	0.0773	64	0.831	5.17E-70	Reject H0, Conclude Site Proportion > 0.05	

Appendix 6  
ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Vanadium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24401 MARBELLA AVE	33	32	23	57.6	39.28	38.1	7.168	1.248	5	0.152	0.023	Reject H0, Conclude Site Proportion > 0.05	
24402 NEPTUNE AVE	48	36	28.9	49.1	34.92	34.45	3.759	0.543	1	0.0208	0.915	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 PANAMA AVE	127	106	7.95	58.7	36.44	36.5	9.126	0.81	21	0.165		Reject H0, Conclude Site Proportion > 0.05	
24402 RAVENNA AVE	40	38	29	52.1	37.61	37.1	5.475	0.866	3	0.075	0.323	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 NEPTUNE AVE	46	38	26	73.5	36.57	34.4	8.473	1.249	4	0.087	0.197	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 RAVENNA AVE	62	53	21.9	48.3	37	36.95	5.082	0.645	3	0.0484	0.605	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 MARBELLA AVE	25	23	21.4	55.6	36.03	35.5	7.908	1.582	2	0.08	0.358	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 MARBELLA AVE	40	38	28.8	46.3	36.03	36.6	5.525	0.874	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 NEPTUNE AVE	28	27	23.6	46.8	34.55	33.85	5.988	1.132	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 PANAMA AVE	23	21	20.7	46.8	33.41	33.6	6.114	1.275	1	0.0435	0.693	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 RAVENNA AVE	26	24	24.9	42.2	33.45	33.15	4.429	0.869	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 NEPTUNE AVE	24	23	23.9	41.4	31.75	31.55	4.2	0.857	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 RAVENNA AVE	33	32	27.4	43.5	35.15	34.9	4.06	0.707	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24410 PANAMA AVE	33	30	17.2	59.9	30.82	31.1	8.129	1.415	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 MARBELLA AVE	69	59	22.6	55.1	36.54	36.2	6.582	0.792	6	0.087	0.131	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 PANAMA AVE	37	33	24.6	49.2	36.06	36.3	5.691	0.936	3	0.0811	0.282	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 MARBELLA AVE	31	29	27.1	61.9	39.94	38.5	7.53	1.352	5	0.161	0.0179	Reject H0, Conclude Site Proportion > 0.05	
24412 RAVENNA AVE	61	55	24.1	48.5	36.52	36.1	5.771	0.739	3	0.0492	0.594	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 NEPTUNE AVE	24	24	23.7	42	30.91	30.55	4.433	0.905	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 RAVENNA AVE	28	27	18.6	57.3	31.23	30.5	7.364	1.392	1	0.0367	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 MARBELLA AVE	50	45	24.3	67.1	37.14	36.5	9.152	1.294	7	0.0357	0.0118	Reject H0, Conclude Site Proportion > 0.05	
24416 NEPTUNE AVE	21	21	23.4	39.5	32.45	32.5	5.001	1.091	0	0.14	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 PANAMA AVE	33	29	15.9	46.1	28.31	26.3	6.991	1.217	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 RAVENNA AVE	42	37	23.8	43.5	34.63	34.8	4.249	0.656	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 MARBELLA AVE	8	8	31.8	49.7	40.18	39.75	6.257	2.212	2	0.25	0.0572	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 PANAMA AVE	47	41	20.3	45.7	34.49	34	6.028	0.879	1	0.0213	0.91	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 NEPTUNE AVE	32	28	22.3	41.2	31.78	31.9	4.472	0.79	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 RAVENNA AVE	30	30	18	40.3	30.12	31.25	6.012	1.063	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24420 PANAMA AVE	33	31	8.37	42.7	26.66	26.3	6.9	1.201	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24421 PANAMA AVE	30	30	20.3	43.8	31.31	30.8	5.791	1.057	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 MARBELLA AVE	43	38	18.6	39	31.32	32	5.029	0.767	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 NEPTUNE AVE	36	33	23.8	42.2	32.51	32.65	4.895	0.816	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 RAVENNA AVE	29	25	27.1	49.1	34.71	34.3	4.218	0.783	1	0.0345	0.774	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 MARBELLA AVE	13	13	28.5	54.6	38.34	37.7	7.415	2.057	2	0.154	0.135	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 NEPTUNE AVE	37	35	21.9	42.6	31.74	32	4.323	0.711	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 RAVENNA AVE	40	35	19.8	39	28.26	27.75	4.841	0.765	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 MARBELLA AVE	24	24	22.3	39.6	32.9	34.8	5.324	1.087	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 NEPTUNE AVE	30	29	23.4	42.5	32.6	31.65	5.341	0.975	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 PANAMA AVE	30	28	9.9	45.1	29.74	28.5	9.423	1.72	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 RAVENNA AVE	49	45	21.3	47.6	34.06	33.5	5.883	0.84	3	0.0612	0.446	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 MARBELLA AVE	25	25	22	53.2	40.49	42.7	8.377	1.675	9	0.36	1.92E-06	Reject H0, Conclude Site Proportion > 0.05	
24427 PANAMA AVE	38	37	23	47.4	34.51	34.25	5.086	0.825	1	0.0263	0.858	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 NEPTUNE AVE	19	19	29.7	40.3	34.83	35.6	2.948	0.676	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 RAVENNA AVE	29	24	20.1	45.3	30.96	30.9	4.901	0.91	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24430 PANAMA AVE	30	30	10.1	49.5	28.98	28.1	10.18	1.859	2	0.0667	0.446	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24431 PANAMA AVE	35	30	28.6	52.6	36.91	36.5	5.084	0.859	2	0.0571	0.528	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24432 MARBELLA AVE	67	54	23.4	45.6	33.66	34	4.786	0.585	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24433 MARBELLA AVE	27	25	30.7	63.5	39.65	37.7	6.557	1.262	4	0.148	0.0437	Reject H0, Conclude Site Proportion > 0.05	
24436 PANAMA AVE	35	36	7.26	39.6	24.86	28.4	8.479	1.433	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 MARBELLA AVE	51	46	18.7	72.7	34.38	32.2	10.05	1.407	4	0.0784	0.251	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 NEPTUNE AVE	58	47	18.8	34.7	26.98	27.2	3.353	0.44	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 PANAMA AVE	48	45	5.57	49.2	27.16	29.45	9.512	1.373	1	0.0208	0.915	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 RAVENNA AVE	44	34	22.9	36.1	30.83	31.4	3.05	0.46	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 MARBELLA AVE	29	28	28.9	48.9	40.54	40	5.159	0.958	6	0.207	0.00274	Reject H0, Conclude Site Proportion > 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Vanadium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24503 NEPTUNE AVE	60	46	9.7	46.8	34.02	33.75	5.855	0.756	2	0.0333	0.808	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 PANAMA AVE	28	27	17.4	43.3	34.75	35.2	5.498	1.039	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 RAVENNA AVE	34	32	22.7	43	29.74	28.1	5.487	0.941	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24506 MARBELLA AVE	36	33	18.9	82.1	35.81	35	10.18	1.697	2	0.0566	0.543	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24507 MARBELLA AVE	36	34	25.6	79.2	45.55	42.35	9.875	1.646	12	0.333	9.87E-08	Reject H0, Conclude Site Proportion > 0.05	
24508 NEPTUNE AVE	40	34	23.2	41	31.91	32.2	4.099	0.648	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 PANAMA AVE	24	23	10.1	36.7	26.71	30.95	9.117	1.861	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 RAVENNA AVE	39	38	21.4	42.7	32.58	32.7	5.413	0.867	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 NEPTUNE AVE	31	30	11.7	41.2	30.79	31	5.764	1.035	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 PANAMA AVE	47	42	20.6	38.7	30.81	31.1	4.88	0.683	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 RAVENNA AVE	37	32	23.5	47.5	31.66	31.9	5.752	0.946	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 MARBELLA AVE	48	45	28	54.7	39.67	39.85	6.855	0.989	9	0.188	0.00055373	Reject H0, Conclude Site Proportion > 0.05	
24512 NEPTUNE AVE	36	34	21.3	57.2	31.77	30.4	6.33	1.055	1	0.0278	0.842	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 PANAMA AVE	28	27	6.44	35.5	23.55	27.55	9.937	1.878	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 RAVENNA AVE	46	45	19.8	46.5	30.62	30.9	5.273	0.777	1	0.0217	0.906	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 NEPTUNE AVE	37	34	19.3	46.9	33.55	34.6	6.123	1.007	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 PANAMA AVE	51	45	16.3	62.9	28.97	28.2	6.95	0.973	1	0.0196	0.927	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 RAVENNA AVE	30	29	19.2	42.6	31.11	30.25	5.894	1.076	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24516 MARBELLA AVE	30	27	22.6	48.3	34.22	34.8	5.764	1.052	1	0.0333	0.785	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24517 MARBELLA AVE	12	11	37.8	63	43.29	39.4	7.45	2.151	4	0.333	0.00224	Reject H0, Conclude Site Proportion > 0.05	
24518 NEPTUNE AVE	45	43	20.1	43.7	31.2	32.2	6.365	0.949	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 PANAMA AVE	42	41	5.7	36.8	23.52	27	9.809	1.514	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 RAVENNA AVE	30	29	21	39.9	30.04	30.25	5.096	0.93	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 NEPTUNE AVE	35	33	24.3	41.7	32.21	32.2	5.011	0.847	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 PANAMA AVE	30	28	10.2	38.8	28.04	29.75	6.699	1.223	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 MARBELLA AVE	27	27	21.5	55.9	40.39	42.4	8.124	1.563	7	0.259	0.00028544	Reject H0, Conclude Site Proportion > 0.05	
24522 NEPTUNE AVE	28	28	22	43.4	32.52	33.9	6.013	1.136	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 PANAMA AVE	36	35	4.69	40.6	22.24	24	9.749	1.625	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 RAVENNA AVE	35	32	6.93	38	27.38	28.4	6.82	1.153	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 MARBELLA AVE	45	40	22.7	50.1	38.5	40.1	5.738	0.855	2	0.0444	0.665	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 NEPTUNE AVE	37	35	24.7	53.7	36.2	35.4	7.151	1.176	4	0.108	0.112	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 RAVENNA AVE	17	16	21.3	36	29.13	29	3.565	0.865	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24526 MARBELLA AVE	36	34	20.4	51.2	37.43	38.4	6.264	1.044	2	0.0556	0.543	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 NEPTUNE AVE	31	29	9.83	40.1	23.52	21.9	8.235	1.479	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 PANAMA AVE	39	36	6.17	33	20.89	22.1	6.864	1.099	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 NEPTUNE AVE	32	27	23.4	47.5	33.46	31.9	6.307	1.115	3	0.0938	0.214	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 PANAMA AVE	24	24	4.77	35	22.02	23.25	8.487	1.732	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 RAVENNA AVE	26	25	8.86	42.3	27.05	27.4	8.389	1.645	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 MARBELLA AVE	27	26	18.4	86	38.15	37.6	12.67	2.438	3	0.111	0.15	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 NEPTUNE AVE	21	21	13.7	60.6	26.18	24	11.41	2.49	1	0.0476	0.659	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 PANAMA AVE	23	22	9.33	29.2	22.28	23.4	4.956	1.033	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 RAVENNA AVE	29	28	7.64	40.5	26.29	28.8	9.619	1.786	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 MARBELLA AVE	25	22	25	70.6	39.26	38.6	8.112	1.622	1	0.04	0.723	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 PANAMA AVE	29	26	7.28	36	23.83	24.2	6.917	1.284	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 RAVENNA AVE	52	44	7.8	38	25.55	26.5	8.636	1.198	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 MARBELLA AVE	34	28	18.5	72.3	37.74	36	10.44	1.79	7	0.206	0.00127	Reject H0, Conclude Site Proportion > 0.05	
24602 NEPTUNE AVE	33	28	14.3	38.3	25.1	22.6	6.754	1.176	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 PANAMA AVE	40	39	6.54	46.7	33.47	23.55	7.114	1.125	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 RAVENNA AVE	26	28	11.9	47	30.11	30.65	8.603	1.626	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 MARBELLA AVE	28	26	29.6	59.2	42.37	40.85	8.16	1.6	10	0.385	2.47E-07	Reject H0, Conclude Site Proportion > 0.05	
24603 NEPTUNE AVE	49	45	9.61	43.1	26.93	26.4	8.254	1.179	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 PANAMA AVE	30	27	20.9	41.7	27.47	26.55	4.922	0.899	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 RAVENNA AVE	31	28	11.3	36.5	24.2	22.7	7.159	1.286	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24606 MARBELLA AVE	63	61	14.9	53	34.4	36.6	9.846	1.241	6	0.0952	0.0945	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 PROCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Vanadium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24607 MARBELLA AVE	31	28	4.16	56.1	34.7	36.7	10.5	1.885	2	0.0645	0.463	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 NEPTUNE AVE	37	36	11.2	35.6	23.76	22.4	6.133	1.008	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 PANAMA AVE	22	20	11.6	58.8	25.82	24.85	9.14	1.949	1	0.0455	0.676	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 RAVENNA AVE	40	38	9.67	39.2	24.52	25.35	7.103	1.123	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 NEPTUNE AVE	30	30	15.5	43.8	32.11	33.05	7.051	1.287	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 PANAMA AVE	34	30	10.5	38.9	25.74	25.8	6.457	1.107	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 RAVENNA AVE	45	42	10.8	36	22.37	21	5.66	0.844	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 MARBELLA AVE	51	43	20.6	52.5	36.66	38.4	8.105	1.135	5	0.098	0.11	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 NEPTUNE AVE	47	37	14.2	36.4	26.88	28.3	4.557	0.665	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 PANAMA AVE	33	32	18.9	37.5	25.18	23.5	5.325	0.927	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 RAVENNA AVE	46	40	11.9	48.2	25.28	25.55	7.358	1.085	2	0.0435	0.677	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 MARBELLA AVE	52	45	27.9	68.5	42.35	42	6.754	0.937	13	0.25	1.23E-06	Reject H0, Conclude Site Proportion > 0.05	
24613 NEPTUNE AVE	39	32	20.4	42	32.65	32.4	4.713	0.755	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 PANAMA AVE	51	44	19.6	44.2	26.14	24.8	5.726	0.802	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 RAVENNA AVE	33	29	17	35.6	24.69	23.5	4.754	0.828	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24616 MARBELLA AVE	46	43	12.3	51.5	32.15	32.45	9.306	1.372	3	0.0652	0.406	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24617 MARBELLA AVE	34	30	19.1	63.7	45.61	47.5	8.962	1.537	19	0.559	1.71E-16	Reject H0, Conclude Site Proportion > 0.05	
24618 NEPTUNE AVE	26	23	21.8	34.3	26.78	25.85	3.252	0.638	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 PANAMA AVE	28	26	15.7	39.1	24.54	23.2	6.892	1.302	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 RAVENNA AVE	40	32	18.4	35.1	25.74	25.5	5.06	0.8	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 NEPTUNE AVE	28	26	24.4	42.3	32.18	32.05	4.679	0.884	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 PANAMA AVE	38	33	13.4	35.8	23.68	24	4.855	0.788	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 RAVENNA AVE	35	30	18.4	32.2	25.39	25.5	4.697	0.794	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 MARBELLA AVE	53	50	12	50.1	32.89	35	10.05	1.381	6	0.113	0.0482	Reject H0, Conclude Site Proportion > 0.05	
24622 NEPTUNE AVE	34	30	19.1	37	27.9	28.25	4.945	0.848	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 MARBELLA AVE	32	29	28.1	40.5	42.33	42.1	7.025	1.242	8	0.25	0.00013908	Reject H0, Conclude Site Proportion > 0.05	
24623 NEPTUNE AVE	36	33	28.6	40.5	34.31	34.65	3.058	0.51	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24627 MARBELLA AVE	48	45	23.1	75.2	40.61	40.75	9.711	1.402	13	0.271	4.49E-07	Reject H0, Conclude Site Proportion > 0.05	
24628 MARBELLA AVE	52	47	10.1	55.6	32.98	34.2	11.3	1.566	6	0.115	0.0445	Reject H0, Conclude Site Proportion > 0.05	
24628 NEPTUNE AVE	18	16	16.5	34.6	23.52	23.3	4.916	1.159	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24629 NEPTUNE AVE	39	34	23.6	38.4	30.69	31.3	3.875	0.62	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24632 NEPTUNE AVE	20	20	16.7	42.2	27.6	27.45	5.419	1.212	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24633 MARBELLA AVE	40	39	20.4	82.2	36.92	36.1	10.44	1.651	3	0.075	0.323	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 MARBELLA AVE	46	40	10.8	45.7	31.09	32	6.738	0.993	1	0.0217	0.906	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 RAVENNA AVE	56	51	17.5	40.3	25.67	25.35	5.199	0.695	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 NEPTUNE AVE	46	38	20.3	36.1	27.25	26.85	3.56	0.525	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 PANAMA AVE	30	28	18.5	38.7	26.4	25.65	4.656	0.85	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 MARBELLA AVE	36	36	19.1	49.9	35.63	38.15	9.181	1.53	4	0.111	0.104	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 NEPTUNE AVE	39	36	21.6	42.9	31.17	30.8	4.528	0.725	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 RAVENNA AVE	53	46	18.3	37.7	28.27	29	4.666	0.641	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 MARBELLA AVE	43	40	13.1	42.3	31.13	32.5	6.813	1.039	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 RAVENNA AVE	33	30	19.5	40	27.26	26.6	5.172	0.9	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24707 MARBELLA AVE	37	35	22.6	47.9	33.44	33.1	6.948	1.142	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24708 PANAMA AVE	37	33	18	42.1	27.46	28.3	6.016	0.989	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 NEPTUNE AVE	37	32	20.2	38.6	29.44	29.5	4.329	0.712	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 PANAMA AVE	43	37	15.9	31.8	25.43	25.6	3.76	0.573	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 RAVENNA AVE	52	45	19.1	35.7	27.49	27.6	4.053	0.562	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24710 MARBELLA AVE	43	38	12.3	51	33.89	33.8	7.267	1.108	1	0.0233	0.89	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 NEPTUNE AVE	32	29	18.7	37.1	28.77	28.5	4.087	0.722	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 PANAMA AVE	27	25	16.4	38.8	27.5	27	4.601	0.886	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 RAVENNA AVE	45	38	19.8	34.9	25.57	25.2	3.471	0.517	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 MARBELLA AVE	37	36	19.7	45.4	33.02	33.9	7.095	1.166	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 PANAMA AVE	34	22	21	40	29.97	30.2	5.016	0.86	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 RAVENNA AVE	35	33	17.8	36.2	25.71	25.5	5.038	0.852	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Vanadium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24715 NEPTUNE AVE	37	30	21.5	38.6	30.59	30.5	4.193	0.689	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 MARBELLA AVE	30	28	21.4	42.1	33.96	33.7	5.697	1.04	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 RAVENNA AVE	15	15	18.4	29.8	23.3	23.5	3.075	0.794	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24717 MARBELLA AVE	38	37	18.3	41.2	27.52	25.75	6.898	1.119	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 NEPTUNE AVE	65	57	15.7	36.3	24.82	25.1	5.664	0.703	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 PANAMA AVE	33	31	17.1	35.4	26.44	26.4	4.803	0.836	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 NEPTUNE AVE	33	29	13.1	39.1	28.43	27.4	5.997	1.044	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 PANAMA AVE	28	24	22.8	38.6	28.04	27.6	4.452	0.841	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 RAVENNA AVE	45	38	17.2	34.9	26.33	27.1	5.059	0.754	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 MARBELLA AVE	34	32	16.8	42.8	29.3	29.25	6.388	1.096	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 NEPTUNE AVE	40	38	6.22	31.2	23.02	23.35	5.124	0.81	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 PANAMA AVE	18	17	15.2	35.8	23.37	24.15	5.606	1.321	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 RAVENNA AVE	41	29	16	33.8	23.84	24	4.819	0.753	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 MARBELLA AVE	22	22	9.24	40.9	27.61	29.1	7.971	1.699	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 RAVENNA AVE	37	32	16	31.6	24.85	24	4.973	0.818	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 NEPTUNE AVE	35	33	17.2	31.3	24.85	25.8	4.129	0.698	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 MARBELLA AVE	49	44	11.1	53	34.06	34.7	8.325	1.189	2	0.0408	0.71	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 RAVENNA AVE	37	35	11.5	33.3	22.54	23.4	5.8	0.953	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24727 MARBELLA AVE	40	37	10.9	47.6	28.59	30.2	8.437	1.334	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 NEPTUNE AVE	33	29	15.7	34.7	22.53	21.5	4.854	0.845	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 PANAMA AVE	31	29	14.7	34	25.13	26.1	5.423	0.974	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 NEPTUNE AVE	36	31	15	37.6	25.28	25	4.726	0.799	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 PANAMA AVE	34	30	16.8	40.1	25.38	23.6	6.751	1.158	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 RAVENNA AVE	16	16	15.8	36.4	22.74	19.85	6.036	1.509	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 MARBELLA AVE	37	36	4.74	43.7	27.94	27.1	9.453	1.554	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 NEPTUNE AVE	35	33	15.7	35.5	24.65	25	5.037	0.851	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 PANAMA AVE	33	29	14.9	39	25.26	24.7	6.082	1.059	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 RAVENNA AVE	42	37	15.6	32.1	23.23	23.8	4.575	0.706	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 MARBELLA AVE	32	30	7.83	43.4	28.85	30.35	9.697	1.714	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 PANAMA AVE	38	33	18.4	38.5	28.33	28.5	6.296	1.021	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 RAVENNA AVE	40	32	17	33.3	22.78	21.15	5.099	0.806	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24735 NEPTUNE AVE	36	35	14.4	35.1	24.33	23.6	5.723	0.954	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 MARBELLA AVE	62	49	12.7	43.7	29.81	30.4	7.11	0.986	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 RAVENNA AVE	43	36	19	31.8	26.19	25.6	3.17	0.483	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24737 MARBELLA AVE	28	27	20.9	39.7	27.59	26.4	5.872	1.11	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 NEPTUNE AVE	51	42	17.9	34.6	25.67	25.4	4.157	0.582	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 PANAMA AVE	32	30	12.4	42.3	24.51	22.95	7.188	1.271	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 NEPTUNE AVE	41	35	18.5	34.9	24.53	24.2	4.441	0.694	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 PANAMA AVE	43	39	16.3	37	25.53	26.1	5.67	0.865	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 RAVENNA AVE	42	38	8.72	35.6	24.03	23.8	5.496	0.848	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24740 MARBELLA AVE	64	51	12.8	36.9	26.36	26.8	5.121	0.64	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24741 MARBELLA AVE	12	12	20.5	35.3	28.2	27.8	4.772	1.378	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24743 MARBELLA AVE	42	38	19.2	33.6	26	25.65	3.324	0.513	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24744 MARBELLA AVE	25	21	18.2	43	26.55	24.9	5.884	1.177	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24748 RAVENNA AVE	24	20	22.1	34.3	28.15	28.25	2.921	0.596	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24749 RAVENNA AVE	43	35	17	40.7	25.23	25.2	3.756	0.573	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24752 RAVENNA AVE	45	41	18.7	33	24.69	24.9	3.552	0.529	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24802 PANAMA AVE	47	42	13.4	33.4	23.18	23.4	5.887	0.859	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 NEPTUNE AVE	32	29	17.6	32.5	23.48	22.4	4.197	0.742	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 PANAMA AVE	18	18	15.9	35.4	22.38	20.2	6.301	1.485	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 NEPTUNE AVE	27	23	17.3	32.1	22.84	22.1	3.982	0.766	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 PANAMA AVE	36	32	21.2	38.3	27.66	27.85	3.584	0.597	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24812 PANAMA AVE	29	28	13.4	31.5	21.42	23	5.436	1.009	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24813 PANAMA AVE	15	15	20.4	38.8	27.47	26.2	5.951	1.536	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Vanadium (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24815 NEPTUNE AVE	30	30	14.8	31.9	24.1	23.3	4.344	0.793	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24818 PANAMA AVE	34	31	13.4	30.6	21.93	22.55	4.992	0.856	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24819 PANAMA AVE	34	30	18.6	36.1	23.96	24	3.593	0.616	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24822 PANAMA AVE	43	39	15.1	33.4	22.78	23.2	5.31	0.81	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24823 PANAMA AVE	39	33	17.5	33.4	24.66	24.6	3.079	0.493	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24825 NEPTUNE AVE	98	72	18.8	35.1	25.39	24.45	4.39	0.443	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24828 PANAMA AVE	36	31	12.5	33.5	21.23	22.65	5.335	0.889	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24829 PANAMA AVE	48	43	17.6	36.7	24.05	23.1	4.141	0.598	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24832 PANAMA AVE	38	34	15	33.4	23.54	23.5	4.619	0.749	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24833 PANAMA AVE	43	36	16.8	39.2	25.24	23.9	6.061	0.924	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24838 PANAMA AVE	28	26	15	32	24.22	24.25	4.21	0.796	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24904 NEPTUNE AVE	74	58	8.09	33.7	25.23	25.15	4.115	0.478	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24912 NEPTUNE AVE	36	33	14.6	36.2	22.29	19.2	6.496	1.083	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
301 244TH ST	29	29	14.4	48.4	33.97	32.2	8.911	1.655	3	0.103	0.175	Do Not Reject H0, Conclude Site Proportion <= 0.05	
305 244TH ST	54	50	19.9	59.1	35.15	34.3	8.229	1.12	5	0.0926	0.132	Do Not Reject H0, Conclude Site Proportion <= 0.05	
311 244TH ST	71	62	12.3	54.4	33.37	33.9	9.087	1.078	8	0.113	0.0252	Do Not Reject H0, Conclude Site Proportion <= 0.05	
317 244TH ST	58	52	16.3	51	33.37	34.2	7.789	1.023	2	0.0345	0.793	Do Not Reject H0, Conclude Site Proportion <= 0.05	
321 244TH ST	40	36	21.9	71.5	40.32	38.1	10.8	1.707	13	0.325	4.09E-08	Reject H0, Conclude Site Proportion > 0.05	
327 244TH ST	12	12	29	51.9	39.43	37.15	8.364	2.414	4	0.333	0.00224	Reject H0, Conclude Site Proportion > 0.05	
331 244TH ST	28	28	19.9	59.8	38.39	37.15	9.435	1.783	6	0.214	0.00227	Reject H0, Conclude Site Proportion > 0.05	
337 244TH ST	34	34	21.2	50.9	36.55	35.75	7.804	1.338	6	0.176	0.00627	Reject H0, Conclude Site Proportion > 0.05	
341 244TH ST	48	41	26	60.4	36.94	35.7	6.234	0.9	3	0.0625	0.433	Do Not Reject H0, Conclude Site Proportion <= 0.05	
344 249TH ST	35	32	16.3	39.5	24.62	22	7.074	1.196	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
345 249TH ST	93	68	16.2	39.1	25.91	26.4	4.815	0.499	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
347 244TH ST	32	30	24.1	45.5	35.1	34.45	6.257	1.106	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 248TH ST	49	46	16.4	33.6	23.78	23	4.607	0.658	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 249TH ST	51	43	15.9	38.7	24.6	23.4	6.232	0.873	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
351 244TH ST	32	31	15.9	42.4	33.98	35.85	6.239	1.103	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
352 249TH ST	32	28	15.7	33.2	22.79	22.45	4.389	0.776	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
353 249TH ST	32	28	17.1	33.6	26.95	28.4	4.865	0.86	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
354 248TH ST	39	32	18.9	34.1	25.96	25.9	2.69	0.431	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 244TH ST	40	35	18.3	44.2	33.22	33	7.011	1.109	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 249TH ST	24	23	17.1	32.1	25.44	26.25	3.953	0.807	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
358 249TH ST	43	38	11.4	31.7	20.25	19.3	5.638	0.86	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
360 248TH ST	48	38	16.7	47.8	27.16	26.7	4.555	0.657	1	0.0208	0.915	Do Not Reject H0, Conclude Site Proportion <= 0.05	
361 244TH ST	23	21	18.7	51	35.02	35.7	6.664	1.39	1	0.0435	0.693	Do Not Reject H0, Conclude Site Proportion <= 0.05	
362 249TH ST	25	23	14.4	38.6	23.33	22	7.386	1.477	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
363 249TH ST	27	25	18.8	30.6	24.42	24.1	2.922	0.562	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
364 248TH ST	48	38	17.9	31.7	24.42	24.25	2.933	0.423	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 244TH ST	13	13	16.3	45.7	32.06	32.5	8.264	2.292	1	0.0769	0.487	Do Not Reject H0, Conclude Site Proportion <= 0.05	
368 249TH ST	55	49	15.9	36.3	23.19	24.5	4.919	0.725	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
373 249TH ST	42	34	14.3	31.4	21.36	21.2	3.766	0.581	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 248TH ST	120	83	7.22	33.9	25.27	24.75	3.853	0.352	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 249TH ST	27	25	11.8	36.3	23.05	21.1	6.348	1.222	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 244TH ST	32	28	26.8	44.8	35.28	34.95	4.914	0.869	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 249TH ST	33	29	11	28.8	21.02	20.6	3.367	0.586	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
378 249TH ST	41	37	15.7	35	22.45	20	5.578	0.871	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
383 249TH ST	32	29	15.7	24.8	20.34	20.45	2.55	0.451	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
402 249TH ST	32	32	16.7	35.5	23.59	22.4	5.301	0.937	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
408 249TH ST	24	24	17.5	34.5	23.94	21.6	5.281	1.078	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
412 249TH ST	77	71	15.3	70.7	26.3	24.4	9.301	1.06	1	0.013	0.981	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Zinc (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24401 MARBELLA AVE	33	30	27.9	86.7	49.15	47.6	12.03	2.093	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 NEPTUNE AVE	48	40	29	106	41.7	39.9	11.45	1.653	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 PANAMA AVE	127	110	11.5	93.6	45.03	43.4	13.55	1.203	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 RAVENNA AVE	40	38	27	104	45.71	42.5	14.94	2.362	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 NEPTUNE AVE	46	41	28.5	109	48.22	44.55	17.52	2.582	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 RAVENNA AVE	62	52	28.8	106	48.75	47.55	12.19	1.548	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 MARBELLA AVE	25	23	25.4	75.1	45.58	44	10.73	2.147	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 MARBELLA AVE	40	38	29.3	107	47.3	43.25	17.23	2.724	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 NEPTUNE AVE	28	25	26.6	99.3	42.33	38.9	13.98	2.643	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 PANAMA AVE	23	22	23.5	125	54.88	45.2	26.64	5.554	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 RAVENNA AVE	26	25	26.9	62.5	38.9	37.95	8.081	1.585	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 NEPTUNE AVE	24	23	32.3	166	54.4	43.1	30.13	6.151	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 RAVENNA AVE	33	30	28.4	44.7	55.92	41.1	73.26	12.75	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24410 PANAMA AVE	33	33	17.3	93	43.43	40.9	17.16	2.988	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 MARBELLA AVE	69	62	27.6	107	51.28	48.8	12.39	1.492	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 PANAMA AVE	37	37	31.8	288	66.66	51	54.06	8.888	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 MARBELLA AVE	31	31	33.4	47.7	79.85	56.3	84.78	15.23	1	0.0323	0.796	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 RAVENNA AVE	61	57	28	88.3	40.95	39.3	10.01	1.282	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 NEPTUNE AVE	24	24	25.4	140	51.53	43.25	28.02	5.719	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 RAVENNA AVE	28	27	20.9	188	51.2	37.2	38.53	7.282	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 MARBELLA AVE	50	46	25.3	149	47.92	44.8	22.04	3.118	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 NEPTUNE AVE	21	20	26.7	45.3	35.92	36.5	5.129	1.119	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 PANAMA AVE	33	33	21.5	135	43.13	39.8	19.85	3.456	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 RAVENNA AVE	42	40	26.3	180	41.65	37.2	23.25	3.588	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 MARBELLA AVE	8	8	39.6	80.4	52.95	53.3	12.53	4.43	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 PANAMA AVE	47	45	22.2	64.7	38.89	37.9	8.279	1.208	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 NEPTUNE AVE	32	32	25.5	142	47.25	40.8	23.51	4.156	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 RAVENNA AVE	32	32	19.9	83.6	37.99	36.35	12.43	2.198	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24420 PANAMA AVE	33	31	18.2	143	54.78	40.1	35.42	6.166	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24421 PANAMA AVE	30	30	39.5	242	83.68	68.95	45.99	8.396	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 MARBELLA AVE	43	42	22.3	127	43.68	39.4	16.32	2.488	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 NEPTUNE AVE	36	34	28.8	115	45.95	42.25	17.23	2.872	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 RAVENNA AVE	29	28	27	56.1	36.7	36.8	5.799	1.077	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 MARBELLA AVE	13	12	40.6	185	61.61	48.3	38.3	10.62	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 NEPTUNE AVE	37	35	21.3	81.1	38.51	35.1	11.31	1.86	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 RAVENNA AVE	40	36	24.6	57.3	38.84	36.55	8.245	1.304	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 MARBELLA AVE	24	21	29.2	161	53.67	44.35	28.9	5.898	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 NEPTUNE AVE	30	28	22.2	73.3	37.92	34.65	12.07	2.203	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 PANAMA AVE	30	29	14.8	101	43.8	42.6	16.66	3.042	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 RAVENNA AVE	49	47	24.7	82	42.14	40.4	11.85	1.693	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 MARBELLA AVE	25	24	31.5	82.8	50.16	49.3	11.4	2.28	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 PANAMA AVE	38	36	27.1	248	45.58	39.5	34.67	5.624	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 NEPTUNE AVE	19	18	29.1	71.2	39.54	36.9	9.008	2.067	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 RAVENNA AVE	29	29	26.7	84.3	42.91	40.1	13.3	2.469	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24430 PANAMA AVE	30	26	9.11	178	38.84	32.7	29.64	5.411	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24431 PANAMA AVE	35	33	29.1	119	44.67	42.1	16.92	2.859	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24432 MARBELLA AVE	67	60	25.6	108	44.8	41.6	13.93	1.702	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24433 MARBELLA AVE	27	26	40.3	113	57.37	54.4	15.71	3.024	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24436 PANAMA AVE	35	33	8.67	65.8	29.38	28.4	10.84	1.833	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 MARBELLA AVE	51	47	22.8	81.5	44.7	43.4	13.48	1.887	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 NEPTUNE AVE	58	48	24.4	48.1	32.81	33.25	5.499	0.722	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 PANAMA AVE	48	43	5.57	47.2	27.37	29.15	8.005	1.155	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 RAVENNA AVE	44	41	23	65.1	36.14	34.15	8.485	1.279	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 MARBELLA AVE	29	29	32.2	76.9	44.41	40	11.05	2.052	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Zinc (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24503 NEPTUNE AVE	60	55	12.6	86	42.12	41.2	11.44	1.476	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 PANAMA AVE	28	28	20.9	52.1	37.43	37.4	6.123	1.157	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 RAVENNA AVE	34	34	23.9	113	37.87	34.75	15.81	2.711	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24506 MARBELLA AVE	36	34	29	94.4	49.22	48.5	11.47	1.912	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24507 MARBELLA AVE	36	34	34.1	78	53.34	53.3	10.6	1.767	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 NEPTUNE AVE	40	39	26.9	64.4	38.45	37.35	7.61	1.203	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 PANAMA AVE	24	23	9.83	47.1	27.96	30.85	9.264	1.891	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 RAVENNA AVE	39	35	24.2	163	42.72	38.1	24.84	3.977	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 NEPTUNE AVE	31	30	26.5	87.4	43.08	39.3	14.24	2.558	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 PANAMA AVE	47	44	25.1	189	41.17	35.8	24.91	3.634	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 RAVENNA AVE	37	34	26.2	146	43.76	36.2	24.09	3.96	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 MARBELLA AVE	48	39	26.3	69.4	44.5	42.55	9.439	1.362	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 NEPTUNE AVE	36	33	28.1	103	40.77	38.7	12.86	2.143	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 PANAMA AVE	28	28	7.89	46.5	24.69	27.1	9.888	1.869	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 RAVENNA AVE	46	42	19.9	82.4	33.47	32.9	9.655	1.424	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 NEPTUNE AVE	37	35	19.6	96.2	41.66	39.5	14.8	2.434	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 PANAMA AVE	51	46	19.6	52.9	32.06	31.4	6.663	0.933	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 RAVENNA AVE	30	30	20.6	89.7	40.63	37.55	15.52	2.833	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24516 MARBELLA AVE	30	28	23.7	64.6	42.21	40.45	10.14	1.852	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24517 MARBELLA AVE	12	12	42.6	94.7	61.23	58.45	14.08	4.064	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 NEPTUNE AVE	45	41	23	61.1	36.56	36.8	7.508	1.119	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 PANAMA AVE	42	39	6.24	34.6	39.87	29.55	55.29	8.532	1	0.0238	0.894	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 RAVENNA AVE	30	29	25.4	84.3	39.78	36.8	12.86	2.347	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 NEPTUNE AVE	35	35	26	1240	78.45	38.7	203.1	34.32	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 PANAMA AVE	30	30	13.1	87.5	34.58	32.95	13.7	2.502	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 MARBELLA AVE	27	26	22.8	69	48.07	47.5	11.22	2.16	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 NEPTUNE AVE	28	28	28	56.8	41.2	40.2	8.253	1.56	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 PANAMA AVE	36	35	6.51	51.2	26.31	27.25	11.72	1.953	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 RAVENNA AVE	35	33	8.08	52.4	30.76	31.5	8.63	1.459	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 MARBELLA AVE	45	44	21	106	49.81	45.9	16.41	2.447	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 NEPTUNE AVE	37	34	26.6	86.1	44.13	41.1	14.86	2.443	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 RAVENNA AVE	17	16	24.2	409	58.04	35.7	90.99	22.07	1	0.0588	0.582	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24526 MARBELLA AVE	36	36	24.9	79.4	44.12	43.85	10.66	1.776	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 NEPTUNE AVE	31	26	10.7	47	26.18	26.7	9.063	1.628	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 PANAMA AVE	39	37	7.48	55.9	25.14	25.4	10.69	1.712	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 NEPTUNE AVE	32	30	27.6	86.5	40.71	35.9	14.44	2.553	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 PANAMA AVE	24	23	7.42	47.5	28.03	30	9.762	1.993	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 RAVENNA AVE	26	26	13.3	195	45.42	35.55	37.46	7.347	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 MARBELLA AVE	27	26	27.7	86.3	54.55	55.3	14.56	2.802	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 NEPTUNE AVE	21	20	14.7	121	48.38	50.5	28.73	6.27	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 PANAMA AVE	23	22	14.1	95	32.07	29.7	15.18	3.165	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 RAVENNA AVE	29	25	8.38	41.6	27.17	28.6	8.451	1.569	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 MARBELLA AVE	25	25	37.4	480	80.84	59.8	86.54	17.31	1	0.04	0.723	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 PANAMA AVE	29	28	8.75	297	35.36	27.3	51	9.471	1	0.0345	0.774	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 RAVENNA AVE	52	50	8.45	88.9	28.53	28.55	13.16	1.826	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 MARBELLA AVE	34	27	25.3	73	47.63	46.95	12.16	2.085	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 NEPTUNE AVE	33	31	16.6	56.9	30.05	29.6	9.838	1.713	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 PANAMA AVE	40	38	8.06	79.3	33.1	32.55	12.16	1.922	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 RAVENNA AVE	26	25	12.4	43.4	27.82	27.9	6.927	1.309	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 MARBELLA AVE	28	25	37.4	111	60.6	56.1	18.21	3.57	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 NEPTUNE AVE	49	46	12.6	83.8	30.57	28.8	11.61	1.658	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 PANAMA AVE	30	27	23.3	42.9	33.69	35.75	5.901	1.077	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 RAVENNA AVE	31	31	14.9	84.7	29.7	26.8	13.32	2.393	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24606 MARBELLA AVE	63	60	13	71.9	40.74	42.4	13.39	1.687	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 Product Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Zinc (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24607 MARBELLA AVE	31	30	6.89	148	48.25	43.7	25.72	4.62	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 NEPTUNE AVE	37	33	14.3	160	45.09	29.7	35.56	5.846	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 PANAMA AVE	22	19	13.7	62.3	31.95	31	10.92	2.329	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 RAVENNA AVE	40	29	11	91	32.14	29.55	16.2	2.562	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 NEPTUNE AVE	30	29	15.9	63	36.81	35.8	12.02	2.194	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 PANAMA AVE	34	32	14.7	50.5	29.6	28.85	8.485	1.455	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 RAVENNA AVE	45	42	13.3	81	25.84	24.1	10.41	1.552	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 MARBELLA AVE	51	48	23	176	45.37	45.7	21.46	3.005	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 NEPTUNE AVE	47	40	18.5	140	32.91	29.2	18.92	2.76	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 PANAMA AVE	33	33	22.8	43.8	31.24	31.6	6.08	1.058	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 RAVENNA AVE	46	44	16.1	174	32.7	28.85	25.66	3.784	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 MARBELLA AVE	52	48	33.4	66.8	49.46	51.2	8.71	1.208	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 NEPTUNE AVE	39	36	29	85.5	48.54	48.5	10.52	1.684	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 PANAMA AVE	51	45	20.5	80.7	33.82	31.5	11.68	1.636	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 RAVENNA AVE	33	30	21.3	47.6	28.25	26.5	6.144	1.069	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24616 MARBELLA AVE	46	45	12.2	68.7	38.86	39.15	13.98	2.061	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24617 MARBELLA AVE	34	33	25	104	56.73	53.05	18.19	3.119	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 NEPTUNE AVE	26	24	24.1	60.5	35.44	31.9	10.28	2.015	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 PANAMA AVE	28	28	17.7	52.6	31.64	30	9.925	1.876	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 RAVENNA AVE	40	31	20	37.2	25.93	26.35	4.141	0.655	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 NEPTUNE AVE	28	28	28	68.8	39.18	38	9.55	1.805	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 PANAMA AVE	38	36	15.3	42.5	29.98	30.1	6.39	1.037	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 RAVENNA AVE	35	32	20.4	42.9	28.24	26.4	5.486	0.927	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 MARBELLA AVE	53	52	9.62	146	43.92	40.4	22.71	3.12	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 NEPTUNE AVE	34	30	21.1	56.6	34.01	32.9	8.752	1.501	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 MARBELLA AVE	32	32	26.8	92.1	52.73	52.75	10.93	1.932	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 NEPTUNE AVE	36	35	25.1	115	40.21	37.1	15.91	2.651	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24627 MARBELLA AVE	48	45	27	100	53.38	53.7	14.43	2.083	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24628 MARBELLA AVE	52	50	12.1	89	42.18	41.9	17.97	2.492	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24628 NEPTUNE AVE	18	18	17.8	34.4	25.97	25.7	4.419	1.042	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24629 NEPTUNE AVE	39	36	26.5	126	40.92	36.4	17.04	2.728	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24632 NEPTUNE AVE	20	20	25.5	119	40.69	32.05	22.06	4.933	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24633 MARBELLA AVE	40	37	26.8	122	59.14	60.7	20.92	3.308	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 MARBELLA AVE	46	43	13.8	176	44.45	38.2	24.26	3.577	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 RAVENNA AVE	56	48	19.4	58	31.44	29.15	7.774	1.039	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 NEPTUNE AVE	46	41	24.2	139	48.84	37.45	28.03	4.133	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 PANAMA AVE	30	28	21.7	190	47.32	32.95	38.71	7.067	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 MARBELLA AVE	36	36	21.5	153	47.32	46.95	28.32	4.72	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 NEPTUNE AVE	39	37	24.6	75.4	38.23	36	10.45	1.673	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 RAVENNA AVE	53	46	20.3	69.8	31.08	28.9	8.238	1.132	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 MARBELLA AVE	43	43	15.6	145	39.89	37.1	19.09	2.911	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 RAVENNA AVE	33	30	23.1	63.8	38.18	39.3	10.67	1.857	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24707 MARBELLA AVE	37	35	24.8	58.3	39.87	36.3	10.63	1.747	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 NEPTUNE AVE	37	36	19.9	122	43.18	39.5	21.12	3.472	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 PANAMA AVE	43	37	21.4	87.3	38.8	34.3	13.52	2.062	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 RAVENNA AVE	52	47	21.6	57.3	35.79	30.5	10.67	1.479	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24710 MARBELLA AVE	43	42	14.6	197	45.93	39.6	27.13	4.138	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 NEPTUNE AVE	32	28	21.3	138	35.42	30.5	20.11	3.554	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 PANAMA AVE	27	26	19.7	72.9	34.51	31.9	9.544	1.837	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 RAVENNA AVE	45	41	23.6	120	36.39	31.7	17.78	2.65	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 MARBELLA AVE	37	35	20.7	56.4	37.64	33.6	10.59	1.741	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 PANAMA AVE	34	26	20	77	36.44	33	10.88	1.866	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 RAVENNA AVE	35	30	21.3	70.3	28.24	27.2	8.502	1.437	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 Product Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Zinc (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24715 NEPTUNE AVE	37	34	24.7	56.3	36.95	37.4	7.407	1.218	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 MARBELLA AVE	30	30	24.4	106	43.33	39.75	15.37	2.807	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 RAVENNA AVE	15	14	25	51.1	31.86	28.9	7.074	1.826	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24717 MARBELLA AVE	38	34	22	61.2	35.24	32.8	10.07	1.633	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 NEPTUNE AVE	65	58	19.9	42.2	27.27	26.5	4.889	0.606	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 PANAMA AVE	33	32	18.6	102	40.59	35.4	18.63	3.243	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 NEPTUNE AVE	33	32	18.1	175	53.78	40	37.52	6.531	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 PANAMA AVE	28	28	23.3	240	46.05	34.45	40.91	7.732	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 RAVENNA AVE	45	39	20.5	66.5	29.56	28.5	7.765	1.158	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 MARBELLA AVE	34	32	16.6	62.2	35.11	34.05	11.23	1.927	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 NEPTUNE AVE	40	33	7.06	70.5	28.72	26.2	11.17	1.767	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 PANAMA AVE	18	17	18.2	57.4	29.14	29.55	9.048	2.133	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 RAVENNA AVE	41	34	13.8	61.5	28.62	26.7	10.61	1.658	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 MARBELLA AVE	22	22	9.44	123	37.23	30	22.82	4.864	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 RAVENNA AVE	37	35	18.5	131	33.48	25.8	22.33	3.671	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 NEPTUNE AVE	35	31	19.7	110	33	28.9	17.57	2.969	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 MARBELLA AVE	49	46	11.3	88.8	41.08	38.2	15.41	2.201	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 RAVENNA AVE	37	36	12.8	68.6	27.12	27.8	9.108	1.497	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24727 MARBELLA AVE	40	40	12.4	142	36.67	34.15	20.44	3.232	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 NEPTUNE AVE	33	27	17.8	80.8	26.35	25	10.47	1.822	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 PANAMA AVE	31	29	17.7	174	56.47	37.7	41.05	7.372	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 NEPTUNE AVE	35	32	22.3	137	39.3	31.8	21.58	3.648	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 PANAMA AVE	34	31	18.7	73.7	27.26	26.45	9.131	1.566	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 RAVENNA AVE	16	14	19.9	106	33.39	27.85	20.38	5.094	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 MARBELLA AVE	37	35	7.85	63.3	31.34	28.3	12.77	2.1	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 NEPTUNE AVE	35	33	20.4	93.4	31.86	27.9	14.11	2.384	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 PANAMA AVE	33	30	16.5	148	34.22	30.4	22.78	3.965	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 RAVENNA AVE	42	38	17.4	53.6	27.86	27.6	6.089	0.94	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 MARBELLA AVE	32	31	10.8	57.9	35.53	34.95	11.85	2.095	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 PANAMA AVE	38	35	22.5	90.7	40.82	39.05	13.66	2.216	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 RAVENNA AVE	40	39	22.1	49.6	31.3	29.65	6.961	1.101	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24735 NEPTUNE AVE	36	33	14.3	66.1	29.38	27.35	9.463	1.577	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 MARBELLA AVE	62	48	14.3	113	40.51	34.6	20.56	2.852	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 RAVENNA AVE	43	35	22.1	50.8	30.96	30	5.57	0.849	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24737 MARBELLA AVE	28	26	24.7	265	43.29	36.2	44.04	8.323	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 NEPTUNE AVE	51	45	22.6	56.3	32.79	31.7	8.153	1.142	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 PANAMA AVE	32	32	14	101	34.62	30.05	16.22	2.868	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 NEPTUNE AVE	41	39	22.1	90.1	37.8	31.2	15.91	2.485	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 PANAMA AVE	43	35	18.6	54	29.97	30	7.218	1.101	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 RAVENNA AVE	42	39	14	52.7	28.66	27.6	7.722	1.192	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24740 MARBELLA AVE	64	62	17.1	71.6	36.97	31.3	13.83	1.729	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24741 MARBELLA AVE	12	12	19.3	64.8	36.89	33	11.88	3.431	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24743 MARBELLA AVE	42	36	21	55.2	30.38	28	7.975	1.231	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24744 MARBELLA AVE	25	24	19.5	72.3	34.9	33.3	10.13	2.027	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24748 RAVENNA AVE	24	21	26.1	45.1	30.89	29.9	4.731	0.966	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24749 RAVENNA AVE	43	41	19.4	85.2	36.92	32.4	14.81	2.258	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24752 RAVENNA AVE	45	38	20.1	60.5	29.83	28.9	6.561	0.978	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24802 PANAMA AVE	47	42	16.1	65.6	29.55	28.5	10.13	1.478	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 NEPTUNE AVE	32	32	20.1	106	33.04	27.4	16.46	2.909	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 PANAMA AVE	18	16	19.9	37.9	27.51	27.85	6.067	1.43	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 NEPTUNE AVE	27	26	19.6	5770	249.1	30.8	1104	212.4	1	0.037	0.75	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 PANAMA AVE	36	32	22.8	48.2	30.68	28.65	6.459	1.077	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24812 PANAMA AVE	29	28	15.1	49.3	26.41	25	9.558	1.775	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24813 PANAMA AVE	15	14	22.3	55.8	33.11	29	11.8	3.046	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 Product Output of One Sample Proportion Test Results

One Sample Proportion Test Results - Zinc (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24815 NEPTUNE AVE	30	27	25.4	106	47.67	35.6	26.04	4.754	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24818 PANAMA AVE	34	33	14.3	54.4	25.96	24.05	8.555	1.467	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24819 PANAMA AVE	34	30	22.5	240	36.21	27.65	36.65	6.285	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24822 PANAMA AVE	43	43	17.9	330	42.08	28.7	60.02	9.153	1	0.0233	0.89	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24823 PANAMA AVE	39	38	21.6	347	41.03	29	51.06	8.176	1	0.0256	0.865	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24825 NEPTUNE AVE	98	82	20.9	125	35.75	30.35	17.24	1.741	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24828 PANAMA AVE	36	34	17	85.8	31.44	29.55	14.57	2.429	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24829 PANAMA AVE	48	44	21.2	121	32.15	27.7	18.26	2.636	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24832 PANAMA AVE	38	34	17.8	79.5	30.42	28.85	10.9	1.768	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24833 PANAMA AVE	43	39	20.8	97	32.74	28.5	13.72	2.093	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24838 PANAMA AVE	28	26	18.8	88.1	40.37	34.25	18.15	3.43	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24904 NEPTUNE AVE	74	63	9.53	85.9	34.32	31.2	11.06	1.286	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24912 NEPTUNE AVE	36	36	19.8	73.1	33.62	29.95	12.9	2.15	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
301 244TH ST	29	29	24.1	120	46.65	42.4	18.47	3.43	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
305 244TH ST	54	52	22.4	544	61.76	46.1	71.04	9.667	1	0.0185	0.937	Do Not Reject H0, Conclude Site Proportion <= 0.05	
311 244TH ST	71	69	24.9	1140	104.2	54.6	178.9	21.23	3	0.0423	0.695	Do Not Reject H0, Conclude Site Proportion <= 0.05	
317 244TH ST	58	56	27.3	158	55.34	51.05	22.94	3.012	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
321 244TH ST	40	40	29.9	111	50.19	48.05	14.8	2.34	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
327 244TH ST	12	12	36.1	55.5	45.84	45	7.453	2.152	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
331 244TH ST	28	27	21.6	85.5	45.88	45.15	11.92	2.253	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
337 244TH ST	34	33	24.8	70	42.18	42.4	9.002	1.544	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
341 244TH ST	48	45	29.8	313	49.99	43.9	40.44	5.837	1	0.0208	0.915	Do Not Reject H0, Conclude Site Proportion <= 0.05	
344 249TH ST	35	32	22.7	109	36.28	32.3	15.74	2.66	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
345 249TH ST	93	76	21.3	158	34.27	30.9	15.6	1.617	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
347 244TH ST	32	31	29.1	114	51.61	45.55	22.43	3.965	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 248TH ST	49	47	19.2	47.3	28.16	26.6	7.134	1.019	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 249TH ST	51	48	19.4	101	33.58	30.1	12.3	1.722	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
351 244TH ST	32	32	21.9	62.6	41.12	41.05	8.576	1.516	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
352 249TH ST	32	31	19.6	85.2	37.95	32.55	17.54	3.101	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
353 249TH ST	32	29	19.7	60.9	31.76	29.9	9.381	1.658	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
354 248TH ST	39	36	23.4	114	38.03	29.3	19.57	3.134	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 244TH ST	40	37	22.9	66.6	40	38.7	10.2	1.613	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 249TH ST	24	24	20.9	42.6	28.36	27.45	6.349	1.296	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
358 249TH ST	43	41	18.1	62.1	28.74	27.3	8.625	1.315	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
360 248TH ST	48	36	18.5	49.7	27.38	26.55	4.351	0.628	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
361 244TH ST	23	23	21.7	81.5	45.19	44.1	12.6	2.628	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
362 249TH ST	25	25	18.3	100	33.1	29.8	17.14	3.429	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
363 249TH ST	27	26	23.3	67.3	71.28	29.5	12.48	24.01	1	0.037	0.75	Do Not Reject H0, Conclude Site Proportion <= 0.05	
364 248TH ST	48	42	22.7	68.2	32.75	29.25	9.23	1.332	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 244TH ST	13	12	20	282	64.55	45	67.76	18.79	0	0.0217	0.906	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 249TH ST	46	38	19.7	339	36.76	28.35	45.92	6.771	1	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
368 249TH ST	55	47	18.8	50.3	28.37	27.8	7	0.944	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
373 249TH ST	42	37	22.1	105	35.44	28.8	17.52	2.704	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 248TH ST	120	91	7.78	180	33.29	28.75	20.17	1.841	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 249TH ST	27	26	15.7	47.5	29.3	28	7.532	1.45	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 244TH ST	32	29	32.8	90.8	47.57	45.1	13.45	2.377	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 249TH ST	33	31	13.4	102	29.35	24.9	15.18	2.642	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
378 249TH ST	41	38	16.8	51.3	26.92	25.2	7.391	1.154	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
383 249TH ST	32	32	18.9	128	32.84	26.6	20.17	3.566	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
402 249TH ST	31	31	18.8	82.9	33.08	30.8	12.97	2.292	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
408 249TH ST	24	23	20	185	45.62	32.1	34.84	7.112	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
412 249TH ST	77	71	17.9	212	40.14	34.4	25.21	2.873	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 Product Output of One Sample Proportion Test Results

One Sample Proportion Test Results - BAP TEQ (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24401 MARBELLA AVE	33	24	0.00053	0.0555	0.0124	0.00838	0.0148	0.00258	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 NEPTUNE AVE	48	48	0.00268	0.613	0.0459	0.0188	0.0362	0.0139	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 PANAMA AVE	127	73	0.00053	0.584	0.0232	0.00098	0.0833	0.00739	0	0		Do Not Reject H0, Conclude Site Proportion <= 0.05	
24402 RAVENNA AVE	40	48	0.00053	0.569	0.0614	0.0245	0.101	0.016	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 NEPTUNE AVE	46	35	0.00162	1.07	0.146	0.0539	0.223	0.0329	1	0.0217	0.906	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24403 RAVENNA AVE	64	62	0.000537	1.236	0.0933	0.0218	0.252	0.0315	3	0.0469	0.627	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24405 MARBELLA AVE	25	22	0.00053	0.0337	0.00776	0.00225	0.00944	0.00189	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 MARBELLA AVE	40	23	0.00053	0.415	0.0289	0.00118	0.088	0.0139	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 NEPTUNE AVE	28	28	0.00134	0.342	0.0269	0.0118	0.0633	0.012	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 PANAMA AVE	23	22	0.00053	0.821	0.0908	0.0233	0.176	0.0368	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24406 RAVENNA AVE	26	26	0.00439	0.0921	0.0361	0.0339	0.0264	0.00518	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 NEPTUNE AVE	24	24	0.00402	0.45	0.0787	0.024	0.112	0.0229	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24409 RAVENNA AVE	33	33	0.000537	0.17	0.0354	0.0178	0.0442	0.00789	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24410 PANAMA AVE	33	29	0.00053	0.202	0.0367	0.00466	0.0528	0.00919	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 MARBELLA AVE	69	48	0.00053	1.251	0.0601	0.00254	0.201	0.0243	2	0.029	0.866	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24411 PANAMA AVE	41	35	0.00053	0.224	0.0474	0.0289	0.0576	0.009	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 MARBELLA AVE	31	28	0.00053	0.208	0.0405	0.0276	0.0479	0.00861	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24412 RAVENNA AVE	61	61	0.00053	0.43	0.0575	0.0237	0.0901	0.0115	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 NEPTUNE AVE	24	24	0.00141	0.384	0.0701	0.0194	0.101	0.0206	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24413 RAVENNA AVE	28	28	0.00103	0.386	0.0415	0.0222	0.0724	0.0137	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 MARBELLA AVE	50	47	0.000781	1.102	0.134	0.0563	0.212	0.03	1	0.02	0.923	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 NEPTUNE AVE	21	21	0.00152	0.162	0.028	0.0129	0.0382	0.00833	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 PANAMA AVE	33	29	0.00053	0.197	0.031	0.00409	0.0568	0.00989	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24416 RAVENNA AVE	42	42	0.00218	2.275	0.166	0.0298	0.432	0.0667	3	0.0714	0.351	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 MARBELLA AVE	8	4	0.00053	0.0194	0.00469	0.00053	0.00734	0.0026	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24417 PANAMA AVE	47	43	0.00053	0.529	0.0602	0.0256	0.0975	0.0142	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 NEPTUNE AVE	32	32	0.00152	0.448	0.0813	0.0255	0.115	0.0204	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24419 RAVENNA AVE	32	32	0.00106	0.176	0.0269	0.0127	0.0367	0.00649	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24420 PANAMA AVE	33	30	0.00053	1.113	0.0884	0.0085	0.204	0.0356	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24421 PANAMA AVE	30	29	0.000549	0.283	0.0786	0.0347	0.0861	0.0157	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 MARBELLA AVE	43	43	0.000606	0.605	0.0888	0.0318	0.143	0.0218	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 NEPTUNE AVE	36	36	0.000992	0.258	0.0327	0.0165	0.0502	0.00837	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24422 RAVENNA AVE	29	29	0.00053	1.019	0.089	0.026	0.195	0.0362	1	0.0345	0.774	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 MARBELLA AVE	13	9	0.00053	0.0199	0.00316	0.000786	0.00565	0.00157	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 NEPTUNE AVE	37	37	0.00098	0.229	0.0463	0.0129	0.0666	0.0109	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24423 RAVENNA AVE	40	40	0.00224	0.995	0.0677	0.0194	0.167	0.0265	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 MARBELLA AVE	24	24	0.00186	0.419	0.0966	0.0486	0.102	0.0208	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 NEPTUNE AVE	30	29	0.000605	0.142	0.0186	0.0114	0.0284	0.00483	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 PANAMA AVE	30	23	0.00053	0.409	0.0208	0.00264	0.0753	0.0138	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24426 RAVENNA AVE	49	49	0.00316	1.983	0.114	0.0337	0.296	0.0423	1	0.0204	0.919	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 MARBELLA AVE	25	17	0.00053	0.0946	0.00892	0.000995	0.0205	0.0041	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24427 PANAMA AVE	38	38	0.00078	0.821	0.0691	0.0136	0.148	0.0241	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 NEPTUNE AVE	19	19	0.0012	0.211	0.0424	0.0178	0.0524	0.012	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24429 RAVENNA AVE	29	29	0.00128	0.188	0.0376	0.0206	0.0404	0.00751	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24430 PANAMA AVE	30	24	0.00053	0.139	0.0101	0.00143	0.0264	0.00481	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24431 PANAMA AVE	35	35	0.000916	0.154	0.0386	0.0251	0.0443	0.00749	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24432 MARBELLA AVE	67	65	0.0004723	0.5	0.0683	0.0405	0.0868	0.0106	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24433 MARBELLA AVE	27	10	0.00053	0.0733	0.00567	0.0016	0.0147	0.00283	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24436 PANAMA AVE	35	24	0.00053	0.156	0.0109	0.0017	0.0288	0.00487	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 MARBELLA AVE	51	51	0.0004723	0.221	0.0456	0.0212	0.056	0.00784	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 NEPTUNE AVE	58	57	0.00053	0.303	0.0343	0.0155	0.0598	0.00786	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 PANAMA AVE	48	14	0.00053	0.0124	0.00143	0.00053	0.0026	0.00037488	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24502 RAVENNA AVE	44	44	0.00053	0.489	0.0718	0.027	0.115	0.0173	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 MARBELLA AVE	29	16	0.00053	0.0187	0.0027	0.000541	0.00408	0.00075744	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - BAP TEQ (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24503 NEPTUNE AVE	60	60	0.00269	0.245	0.0561	0.0317	0.0622	0.00803	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 PANAMA AVE	28	28	0.00108	0.347	0.053	0.0103	0.0854	0.0161	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24503 RAVENNA AVE	34	34	0.00067	0.676	0.0429	0.0183	0.114	0.0196	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24506 MARBELLA AVE	36	36	0.00308	0.593	0.097	0.0245	0.149	0.0249	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24507 MARBELLA AVE	36	21	0.00053	0.222	0.0177	0.0007995	0.0432	0.00721	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 NEPTUNE AVE	40	40	0.00174	1.09	0.0861	0.035	0.179	0.0283	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 PANAMA AVE	24	8	0.00053	0.00587	0.00107	0.00053	0.0013	0.00026451	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24508 RAVENNA AVE	39	38	0.000928	0.884	0.124	0.0286	0.192	0.0308	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 NEPTUNE AVE	31	31	0.000575	0.405	0.0609	0.019	0.095	0.0171	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 PANAMA AVE	47	45	0.00271	0.504	0.0647	0.029	0.0879	0.0128	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24509 RAVENNA AVE	37	37	0.00327	0.956	0.0891	0.027	0.174	0.0286	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 MARBELLA AVE	53	53	0.000615	1.118	0.137	0.0467	0.21	0.0288	1	0.0189	0.934	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 NEPTUNE AVE	36	36	0.00202	0.207	0.0433	0.019	0.0512	0.00854	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 PANAMA AVE	28	27	0.00053	0.0279	0.00465	0.00176	0.0074	0.0014	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24512 RAVENNA AVE	46	46	0.00137	0.283	0.0376	0.0151	0.055	0.00811	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 NEPTUNE AVE	37	37	0.000675	0.247	0.0351	0.0183	0.0466	0.00766	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 PANAMA AVE	51	49	0.00054	0.232	0.0648	0.0344	0.0659	0.00922	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24513 RAVENNA AVE	30	30	0.000743	0.223	0.0451	0.0157	0.0889	0.0126	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24516 MARBELLA AVE	30	27	0.00053	0.409	0.0589	0.0168	0.101	0.0184	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24517 MARBELLA AVE	12	12	0.00053	0.335	0.0507	0.00376	0.103	0.0298	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 NEPTUNE AVE	45	45	0.00251	0.595	0.044	0.0129	0.0935	0.0139	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 PANAMA AVE	42	16	0.00053	0.248	0.0109	0.00053	0.0413	0.00638	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24518 RAVENNA AVE	30	30	0.000916	0.208	0.0322	0.013	0.0473	0.00864	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 NEPTUNE AVE	35	35	0.000721	0.111	0.0331	0.0168	0.0354	0.00598	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24519 PANAMA AVE	30	30	0.00078	0.351	0.0337	0.0147	0.066	0.012	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 MARBELLA AVE	27	24	0.00053	0.208	0.0299	0.00913	0.0518	0.00997	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 NEPTUNE AVE	28	28	0.00053	0.402	0.0368	0.0124	0.0761	0.0144	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 PANAMA AVE	36	15	0.00053	0.015	0.00207	0.00053	0.00339	0.0005643	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24522 RAVENNA AVE	35	31	0.00053	0.212	0.0338	0.0174	0.05	0.00845	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 MARBELLA AVE	45	37	0.00053	0.785	0.0364	0.00298	0.142	0.0212	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 NEPTUNE AVE	37	37	0.00053	0.507	0.0638	0.0251	0.0992	0.0163	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24523 RAVENNA AVE	17	17	0.00459	0.297	0.0761	0.0522	0.0722	0.0175	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24526 MARBELLA AVE	36	27	0.00053	0.411	0.0822	0.0137	0.121	0.0201	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 NEPTUNE AVE	31	24	0.00053	0.0271	0.00539	0.00268	0.00719	0.00129	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24528 PANAMA AVE	39	35	0.0004723	0.44	0.0545	0.0141	0.0998	0.016	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 NEPTUNE AVE	32	32	0.00053	2.2	0.107	0.014	0.388	0.0686	1	0.0313	0.806	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 PANAMA AVE	24	12	0.0004723	0.0359	0.00244	0.00053	0.00719	0.00147	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24529 RAVENNA AVE	26	23	0.0005134	0.292	0.0546	0.0287	0.0714	0.014	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 MARBELLA AVE	27	26	0.0005134	0.273	0.0688	0.0174	0.09	0.0173	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 NEPTUNE AVE	21	13	0.00053	0.0285	0.00556	0.00289	0.0066	0.00144	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 PANAMA AVE	23	23	0.00192	0.923	0.128	0.0284	0.225	0.0468	1	0.0435	0.693	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24532 RAVENNA AVE	29	9	0.00053	0.0269	0.00266	0.00053	0.00555	0.00103	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 MARBELLA AVE	25	22	0.00053	0.063	0.0111	0.00828	0.0143	0.00285	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 PANAMA AVE	29	27	0.00053	0.356	0.0303	0.00277	0.0762	0.0141	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24533 RAVENNA AVE	52	23	0.0004723	0.0988	0.00299	0.00053	0.0136	0.00189	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 MARBELLA AVE	34	34	0.00053	0.496	0.0396	0.0145	0.0872	0.015	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 NEPTUNE AVE	33	15	0.00053	0.0158	0.00225	0.00053	0.00346	0.0006026	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 PANAMA AVE	40	38	0.00053	1.085	0.128	0.0281	0.243	0.0385	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24602 RAVENNA AVE	26	11	0.00053	0.176	0.0116	0.00053	0.0365	0.00689	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 MARBELLA AVE	28	23	0.00053	0.769	0.0448	0.00684	0.152	0.0298	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 NEPTUNE AVE	49	38	0.00053	0.109	0.019	0.0062	0.032	0.00457	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 PANAMA AVE	30	25	0.00053	0.863	0.0719	0.00264	0.21	0.0384	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24603 RAVENNA AVE	31	8	0.00053	1.168	0.0389	0.00053	0.21	0.0376	1	0.0323	0.796	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24606 MARBELLA AVE	63	45	0.00053	2.382	0.0912	0.00319	0.326	0.041	1	0.0159	0.961	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 Product Output of One Sample Proportion Test Results

One Sample Proportion Test Results - BAP TEQ (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24607 MARBELLA AVE	31	23	0.00053	0.207	0.0107	0.00117	0.0371	0.00666	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 NEPTUNE AVE	37	22	0.00053	0.513	0.0576	0.0118	0.115	0.0188	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24608 PANAMA AVE	22	21	0.00053	1.799	0.268	0.0687	0.479	0.102	2	0.0909	0.302	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 NEPTUNE AVE	40	31	0.00053	1.579	0.12	0.0079	0.314	0.0496	2	0.05	0.601	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 NEPTUNE AVE	30	30	0.00053	1.449	0.191	0.0208	0.37	0.0675	2	0.0667	0.446	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 PANAMA AVE	34	33	0.00053	0.896	0.0873	0.0166	0.185	0.0317	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24609 RAVENNA AVE	45	25	0.00053	0.0456	0.00452	0.00088	0.00952	0.00142	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 MARBELLA AVE	51	38	0.00053	0.803	0.0875	0.00486	0.185	0.026	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 NEPTUNE AVE	47	45	0.0004723	1.972	0.316	0.0675	0.514	0.0749	8	0.17	0.00213	Reject H0, Conclude Site Proportion > 0.05	
24612 PANAMA AVE	33	31	0.0004723	1.647	0.146	0.0144	0.348	0.0606	2	0.0606	0.496	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24612 RAVENNA AVE	46	38	0.00053	0.352	0.0582	0.0159	0.0873	0.0129	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 MARBELLA AVE	52	26	0.00053	0.135	0.00557	0.0005475	0.0189	0.00261	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 NEPTUNE AVE	39	39	0.00208	0.879	0.145	0.0497	0.225	0.036	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 PANAMA AVE	51	51	0.000537	6.181	0.262	0.0435	0.87	0.122	1	0.0196	0.927	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24613 RAVENNA AVE	33	21	0.00053	0.591	0.0384	0.000762	0.113	0.0196	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24616 MARBELLA AVE	57	56	0.00053	3.037	0.498	0.0552	0.747	0.099	12	0.211	2.09E-05	Reject H0, Conclude Site Proportion > 0.05	
24617 MARBELLA AVE	34	11	0.00053	0.018	0.00136	0.00053	0.00311	0.00053272	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 NEPTUNE AVE	26	26	0.00173	0.571	0.09	0.0197	0.156	0.0306	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 PANAMA AVE	28	28	0.000605	1.197	0.204	0.0431	0.308	0.0582	2	0.0714	0.412	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24618 RAVENNA AVE	40	24	0.00053	0.746	0.0235	0.00126	0.117	0.0186	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 NEPTUNE AVE	28	28	0.00233	1.822	0.241	0.0504	0.425	0.0804	2	0.0714	0.412	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 PANAMA AVE	38	38	0.0023	0.755	0.151	0.0428	0.2	0.0325	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24619 RAVENNA AVE	35	22	0.00053	2.496	0.132	0.00102	0.467	0.0789	2	0.0571	0.528	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24622 MARBELLA AVE	53	52	0.00053	6.891	0.409	0.0114	1.082	0.149	8	0.151	0.00461	Reject H0, Conclude Site Proportion > 0.05	
24622 NEPTUNE AVE	34	34	0.00424	3.304	0.206	0.0327	0.57	0.0978	1	0.0294	0.825	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 MARBELLA AVE	32	14	0.00053	0.106	0.00782	0.00053	0.0219	0.00387	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24623 NEPTUNE AVE	36	36	0.00852	4.856	0.452	0.0862	1.002	0.167	6	0.167	0.00834	Reject H0, Conclude Site Proportion > 0.05	
24627 MARBELLA AVE	48	34	0.00053	1.041	0.0738	0.00236	0.179	0.0259	1	0.0208	0.915	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24628 MARBELLA AVE	52	51	0.00053	0.712	0.0678	0.00913	0.148	0.0205	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24628 NEPTUNE AVE	18	18	0.0019	0.342	0.0673	0.03	0.0941	0.0222	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24629 NEPTUNE AVE	39	39	0.00106	0.914	0.132	0.0418	0.221	0.0354	1	0.0256	0.865	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24632 NEPTUNE AVE	20	20	0.00312	2.497	0.254	0.0276	0.591	0.132	1	0.1	0.264	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24633 MARBELLA AVE	40	37	0.0004723	1.551	0.0454	0.00152	0.244	0.0386	2	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 MARBELLA AVE	46	46	0.00053	1.099	0.0965	0.032	0.207	0.0305	1	0.0217	0.906	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24700 RAVENNA AVE	56	40	0.00053	0.444	0.0272	0.00283	0.0772	0.0103	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 NEPTUNE AVE	46	46	0.00258	1.538	0.173	0.0546	0.31	0.0458	3	0.0652	0.406	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24702 PANAMA AVE	30	30	0.00254	5.003	0.452	0.0898	1.005	0.184	4	0.133	0.0608	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 MARBELLA AVE	36	23	0.00053	1.833	0.0674	0.00187	0.305	0.0508	1	0.0278	0.842	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 NEPTUNE AVE	39	38	0.0032	0.629	0.104	0.045	0.145	0.0233	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24703 RAVENNA AVE	53	50	0.00053	2.722	0.217	0.0311	0.482	0.0662	3	0.0566	0.498	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 MARBELLA AVE	43	43	0.00217	1.428	0.189	0.053	0.32	0.0489	2	0.0465	0.64	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24706 RAVENNA AVE	33	33	0.00235	0.888	0.103	0.0229	0.189	0.0329	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24707 MARBELLA AVE	37	23	0.00053	0.0779	0.00757	0.00118	0.154	0.00253	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24708 PANAMA AVE	37	37	0.000639	1.972	0.185	0.0696	0.381	0.0626	2	0.0541	0.558	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 NEPTUNE AVE	37	37	0.00569	1.531	0.185	0.0472	0.304	0.05	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 PANAMA AVE	43	43	0.00171	7.051	0.514	0.0676	1.219	0.186	5	0.116	0.0623	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24709 RAVENNA AVE	52	48	0.00053	3.926	0.244	0.0507	0.648	0.0898	4	0.0769	0.262	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24710 MARBELLA AVE	43	42	0.000689	2.282	0.178	0.0256	0.385	0.0587	2	0.0465	0.64	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 NEPTUNE AVE	32	32	0.00366	0.992	0.122	0.0416	0.197	0.0349	1	0.0313	0.806	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 PANAMA AVE	27	27	0.00294	1.979	0.271	0.125	0.471	0.0906	2	0.0741	0.394	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24712 RAVENNA AVE	45	45	0.00053	1.51	0.106	0.0297	0.251	0.0374	1	0.0222	0.901	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 MARBELLA AVE	37	29	0.00053	0.086	0.0148	0.00513	0.0219	0.0036	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 PANAMA AVE	34	34	0.00188	2.124	0.162	0.0354	0.396	0.0679	2	0.0588	0.512	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24713 RAVENNA AVE	35	28	0.00053	2.226	0.17	0.0071	0.462	0.0781	2	0.0571	0.528	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
ProUCL Output of One Sample Proportion Test Results

One Sample Proportion Test Results - BAP TEQ (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24715 NEPTUNE AVE	37	37	0.00526	2.31	0.321	0.0663	0.534	0.0877	5	0.135	0.0359	Reject H0, Conclude Site Proportion > 0.05	
24716 MARBELLA AVE	30	25	0.00053	0.869	0.0663	0.00879	0.172	0.0315	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24716 RAVENNA AVE	15	15	0.000634	0.313	0.0819	0.0472	0.0905	0.0234	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24717 MARBELLA AVE	38	29	0.00053	0.682	0.0517	0.00319	0.132	0.0214	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 NEPTUNE AVE	70	49	0.00053	0.475	0.0594	0.0121	0.0909	0.0109	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24718 PANAMA AVE	33	33	0.00452	16.09	0.625	0.096	2.781	0.484	1	0.0303	0.816	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 NEPTUNE AVE	33	31	0.00053	0.192	0.0467	0.0368	0.0452	0.00787	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 PANAMA AVE	28	28	0.00212	1.74	0.196	0.0529	0.368	0.0696	1	0.0357	0.762	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24719 RAVENNA AVE	45	40	0.00053	1.022	0.103	0.035	0.208	0.031	2	0.0444	0.665	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 MARBELLA AVE	34	33	0.00053	0.687	0.048	0.0159	0.119	0.0204	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 NEPTUNE AVE	40	18	0.00053	0.0318	0.00439	0.00053	0.00779	0.00123	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 PANAMA AVE	18	17	0.00053	0.713	0.155	0.0355	0.241	0.0569	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24722 RAVENNA AVE	50	48	0.00053	0.858	0.106	0.0227	0.195	0.0276	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 MARBELLA AVE	22	16	0.00053	0.404	0.0256	0.00265	0.086	0.0183	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 RAVENNA AVE	37	30	0.00053	0.0713	0.0137	0.00433	0.019	0.00312	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24723 NEPTUNE AVE	35	25	0.00053	0.238	0.0196	0.00138	0.047	0.00795	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 MARBELLA AVE	49	39	0.00053	0.346	0.0227	0.00489	0.0553	0.0079	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24726 RAVENNA AVE	37	34	0.00053	3.954	0.146	0.00338	0.649	0.107	1	0.027	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24727 MARBELLA AVE	40	35	0.00053	1.765	0.0922	0.00656	0.292	0.0461	1	0.025	0.871	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 NEPTUNE AVE	33	23	0.00053	0.357	0.0206	0.00093	0.0568	0.0115	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24728 PANAMA AVE	31	31	0.00185	1.706	0.174	0.0543	0.34	0.061	1	0.0323	0.796	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 NEPTUNE AVE	35	24	0.00053	0.32	0.0275	0.00276	0.0618	0.0104	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 PANAMA AVE	34	34	0.00053	0.187	0.0381	0.0155	0.0454	0.00779	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24729 RAVENNA AVE	16	5	0.00053	0.013	0.0024	0.00053	0.00391	0.00097644	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 MARBELLA AVE	37	29	0.00053	0.406	0.0249	0.0031	0.0771	0.0127	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 NEPTUNE AVE	35	26	0.00053	1.852	0.132	0.0345	0.323	0.0545	1	0.0286	0.834	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 PANAMA AVE	33	28	0.00053	0.498	0.0616	0.0284	0.106	0.0185	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24732 RAVENNA AVE	42	39	0.00053	0.273	0.0395	0.00573	0.0703	0.0108	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 MARBELLA AVE	32	22	0.00053	0.12	0.0151	0.003	0.026	0.0046	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 PANAMA AVE	38	38	0.00228	1.98	0.196	0.0584	0.4	0.0649	2	0.0526	0.573	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24733 RAVENNA AVE	40	30	0.00053	0.198	0.0144	0.00169	0.0364	0.00576	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24735 NEPTUNE AVE	36	35	0.00053	0.656	0.0351	0.00439	0.111	0.0185	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 MARBELLA AVE	62	40	0.00053	0.149	0.0193	0.00257	0.032	0.00444	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24736 RAVENNA AVE	43	41	0.00273	1.032	0.148	0.058	0.214	0.0327	1	0.0233	0.89	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24737 MARBELLA AVE	28	24	0.00053	0.586	0.042	0.00339	0.116	0.022	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 NEPTUNE AVE	51	46	0.00053	2.263	0.268	0.125	0.407	0.057	3	0.0588	0.473	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24738 PANAMA AVE	32	31	0.00053	2.037	0.232	0.054	0.463	0.0818	2	0.0625	0.48	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 NEPTUNE AVE	41	39	0.00053	0.415	0.0421	0.00825	0.0862	0.0135	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 PANAMA AVE	43	39	0.00053	0.525	0.0579	0.0214	0.109	0.0166	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24739 RAVENNA AVE	42	41	0.00053	1.43	0.291	0.182	0.378	0.0583	5	0.119	0.0573	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24740 MARBELLA AVE	64	46	0.00053	1.185	0.0526	0.00276	0.17	0.0212	1	0.0156	0.962	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24741 MARBELLA AVE	12	12	0.00053	0.0717	0.0178	0.0138	0.0213	0.00615	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24743 RAVENNA AVE	47	47	0.00118	1.455	0.259	0.141	0.336	0.049	3	0.0638	0.42	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24744 MARBELLA AVE	25	21	0.00053	0.492	0.0643	0.00428	0.148	0.0296	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24748 RAVENNA AVE	24	24	0.00411	0.905	0.145	0.0648	0.206	0.042	1	0.0417	0.708	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24749 RAVENNA AVE	43	43	0.00518	1.1	0.191	0.0935	0.218	0.0333	1	0.0233	0.89	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24752 RAVENNA AVE	45	45	0.00342	1.521	0.127	0.0707	0.236	0.0351	1	0.0222	0.901	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24802 PANAMA AVE	47	46	0.00053	0.775	0.0718	0.0193	0.128	0.0187	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 NEPTUNE AVE	32	32	0.000893	0.23	0.0291	0.00868	0.0494	0.00874	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24803 PANAMA AVE	18	16	0.00053	0.849	0.108	0.00215	0.246	0.058	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 NEPTUNE AVE	27	27	0.000536	1.659	0.113	0.0331	0.315	0.0606	1	0.037	0.75	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24809 PANAMA AVE	36	36	0.000552	0.55	0.118	0.0469	0.154	0.0256	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24812 PANAMA AVE	29	24	0.00053	0.331	0.0351	0.00336	0.0762	0.0142	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24813 PANAMA AVE	15	15	0.0113	0.609	0.201	0.134	0.198	0.051	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	

Appendix 6  
 Product Output of One Sample Proportion Test Results

One Sample Proportion Test Results - BAP TEQ (0-10)													
Location	Number of Samples	Number of Distinct	Minimum	Maximum	Mean	Median	SD of Detected	SE of Mean	Number of Exceedances	Sample Proportion of Exceedances	P-Value	Conclusion	Warnings
24815 NEPTUNE AVE	30	29	0.00115	0.628	0.0924	0.0347	0.157	0.0287	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24818 PANAMA AVE	34	33	0.00053	15.22	0.517	0.01	2.608	0.447	2	0.0388	0.512	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24819 PANAMA AVE	34	34	0.00986	0.661	0.12	0.0792	0.147	0.0251	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24822 PANAMA AVE	43	42	0.00053	0.448	0.0545	0.014	0.0844	0.0129	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24823 PANAMA AVE	39	39	0.00358	0.937	0.113	0.0649	0.165	0.0264	1	0.0256	0.865	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24825 NEPTUNE AVE	98	84	0.00053	0.287	0.0207	0.0045	0.0423	0.00428	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24828 PANAMA AVE	36	36	0.0005134	2.862	0.189	0.0289	0.56	0.0833	3	0.0833	0.268	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24829 PANAMA AVE	48	48	0.00161	1.036	0.0977	0.0639	0.152	0.022	1	0.0208	0.915	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24832 PANAMA AVE	38	38	0.00053	0.8	0.0662	0.0188	0.142	0.023	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24833 PANAMA AVE	43	41	0.00053	1.254	0.112	0.0456	0.223	0.034	1	0.0233	0.89	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24838 PANAMA AVE	28	28	0.00078	0.871	0.146	0.0417	0.239	0.0451	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24904 NEPTUNE AVE	74	74	0.00088	0.652	0.106	0.0675	0.113	0.0131	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
24912 NEPTUNE AVE	36	36	0.00053	0.314	0.0448	0.0182	0.0888	0.0115	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
301 244TH ST	29	21	0.00053	0.212	0.0235	0.00176	0.0465	0.00864	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
305 244TH ST	54	34	0.00053	8.597	0.561	0.00104	1.784	0.243	5	0.0926	0.132	Do Not Reject H0, Conclude Site Proportion <= 0.05	
311 244TH ST	71	64	0.00053	33.31	1.833	0.0174	5.196	0.617	13	0.183	4.60E-05	Reject H0, Conclude Site Proportion > 0.05	
317 244TH ST	58	42	0.00053	13.07	0.606	0.00316	2.459	0.323	4	0.069	0.33	Do Not Reject H0, Conclude Site Proportion <= 0.05	
321 244TH ST	40	27	0.00053	0.0578	0.00807	0.00185	0.0128	0.00202	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
327 244TH ST	12	7	0.00053	0.0132	0.00359	0.00148	0.00423	0.00122	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
331 244TH ST	28	9	0.00053	0.0519	0.00426	0.00053	0.0106	0.00201	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
337 244TH ST	34	19	0.00053	0.0548	0.00598	0.0011	0.00189	0.00189	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
341 244TH ST	48	29	0.00053	0.0714	0.00622	0.00116	0.014	0.00202	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
344 249TH ST	35	35	0.000627	0.542	0.083	0.039	0.127	0.0215	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
345 249TH ST	93	89	0.00053	2.431	0.135	0.0222	0.395	0.041	3	0.0323	0.85	Do Not Reject H0, Conclude Site Proportion <= 0.05	
347 244TH ST	32	21	0.00053	0.0357	0.00579	0.00116	0.00915	0.00162	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 248TH ST	49	46	0.00053	4.123	0.219	0.0137	0.687	0.0981	2	0.0408	0.71	Do Not Reject H0, Conclude Site Proportion <= 0.05	
348 249TH ST	51	51	0.00316	0.424	0.0982	0.0618	0.108	0.0151	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
351 244TH ST	32	23	0.00053	0.488	0.0234	0.00208	0.0863	0.0153	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
352 249TH ST	32	32	0.00053	0.899	0.0954	0.0441	0.17	0.0301	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
353 249TH ST	32	32	0.000538	0.466	0.0321	0.00959	0.0843	0.0149	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
354 248TH ST	39	39	0.00343	1.271	0.256	0.128	0.335	0.0537	3	0.0769	0.309	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 244TH ST	40	20	0.00053	0.0643	0.00459	0.00053	0.0109	0.00172	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
357 249TH ST	24	23	0.00053	1.449	0.126	0.0262	0.329	0.0672	1	0.0417	0.708	Do Not Reject H0, Conclude Site Proportion <= 0.05	
358 249TH ST	43	40	0.00053	0.416	0.0506	0.0075	0.0978	0.0149	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
360 248TH ST	48	47	0.00053	0.448	0.0935	0.0403	0.123	0.0177	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
361 244TH ST	23	16	0.00053	0.0452	0.00615	0.00208	0.0104	0.00218	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
362 249TH ST	25	21	0.00053	0.0862	0.0154	0.00348	0.024	0.00479	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
363 249TH ST	27	27	0.00054	2.198	0.182	0.0603	0.417	0.0802	1	0.037	0.75	Do Not Reject H0, Conclude Site Proportion <= 0.05	
364 248TH ST	49	49	0.000654	0.735	0.126	0.051	0.173	0.0247	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 244TH ST	13	13	0.000659	0.691	0.097	0.0175	0.188	0.0522	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
367 249TH ST	46	46	0.00249	1.128	0.121	0.0558	0.215	0.0317	2	0.0435	0.677	Do Not Reject H0, Conclude Site Proportion <= 0.05	
368 249TH ST	55	55	0.000603	7.213	0.282	0.0214	1.197	0.161	3	0.0545	0.523	Do Not Reject H0, Conclude Site Proportion <= 0.05	
373 249TH ST	42	42	0.00728	0.664	0.0904	0.0462	0.116	0.0179	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 248TH ST	120	120	0.00061	22.3	0.502	0.079	2.29	0.209	6	0.05	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
374 249TH ST	27	27	0.000538	0.46	0.143	0.0823	0.142	0.0273	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 244TH ST	32	20	0.00053	0.203	0.0167	0.0015	0.0396	0.00701	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
377 249TH ST	33	33	0.00054	0.718	0.136	0.0952	0.152	0.0264	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
378 249TH ST	41	37	0.00053	0.456	0.0417	0.0176	0.0756	0.0118	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
383 249TH ST	32	32	0.00446	3.06	0.322	0.0761	0.718	0.127	2	0.0625	0.48	Do Not Reject H0, Conclude Site Proportion <= 0.05	
402 249TH ST	32	32	0.00053	0.547	0.0536	0.0194	0.107	0.0189	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
408 249TH ST	24	22	0.00053	0.239	0.0429	0.0325	0.0541	0.011	0	0	1	Do Not Reject H0, Conclude Site Proportion <= 0.05	
412 249TH ST	77	72	0.00053	16.19	0.266	0.0191	1.842	0.21	1	0.013	0.981	Do Not Reject H0, Conclude Site Proportion <= 0.05	

## **APPENDIX 7**

### **Probability Plots of Antimony, Arsenic and Thallium**

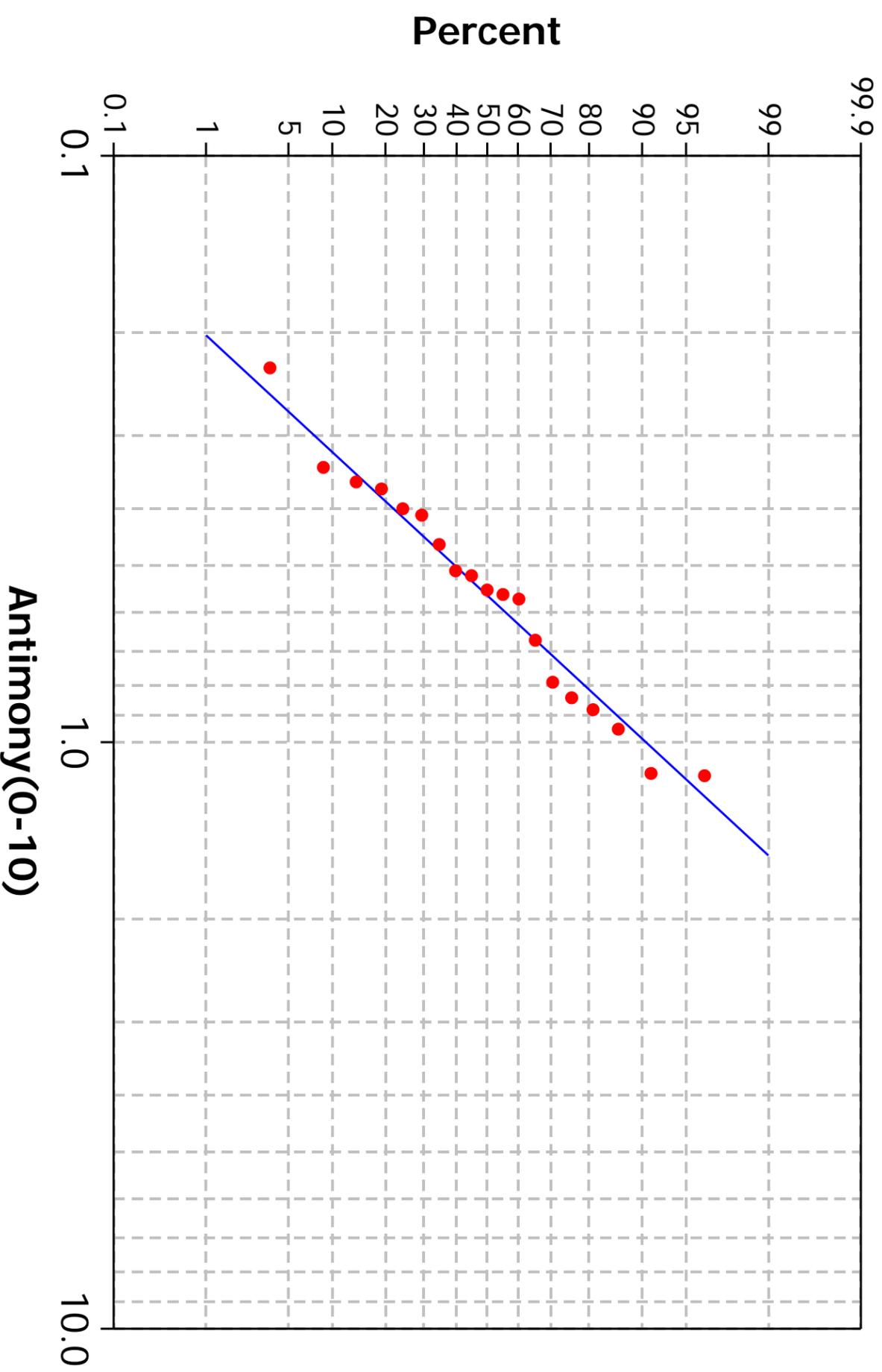
## **APPENDIX 7.1**

### **Probability Plots of Antimony**

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24401 MARBELLA AVE

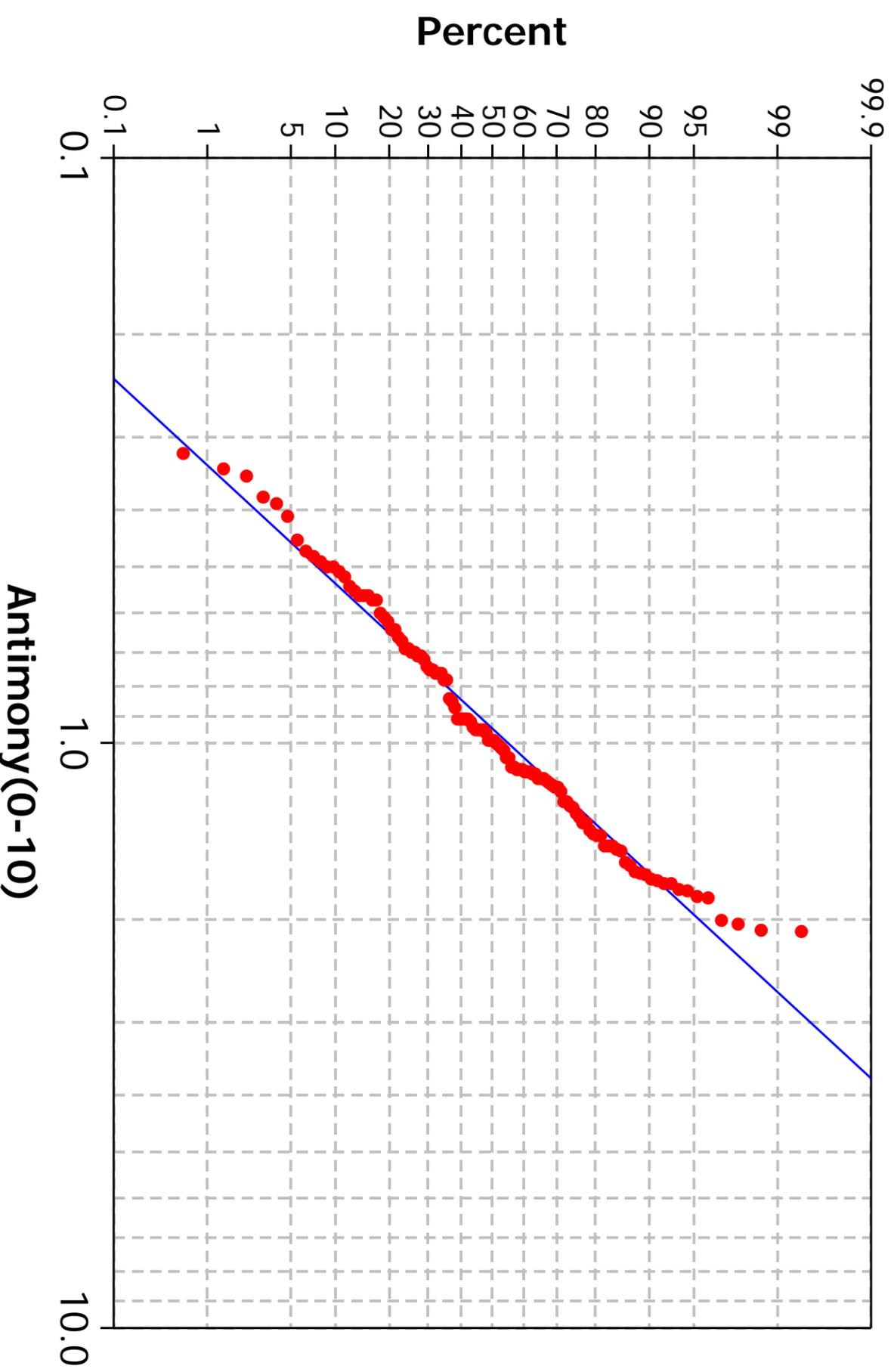


Loc	-0.5764
Scale	0.4390
N	19
AD	0.229
P-Value	0.779

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24402 PANAMMA AVE

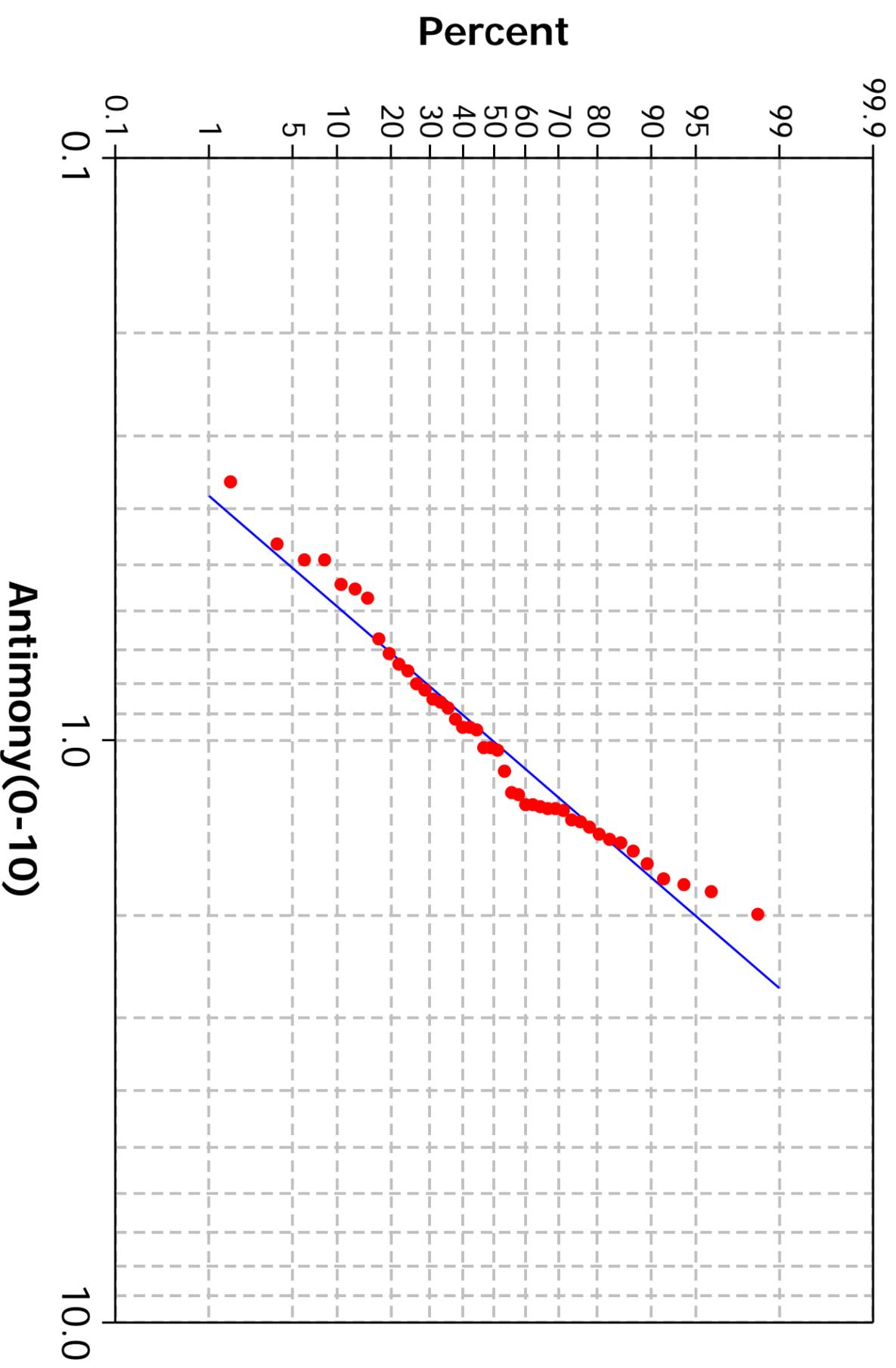


Loc	-0.05666
Scale	0.4454
N	120
AD	0.658
P-Value	0.084

# Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24403 NEPTUNE AVE

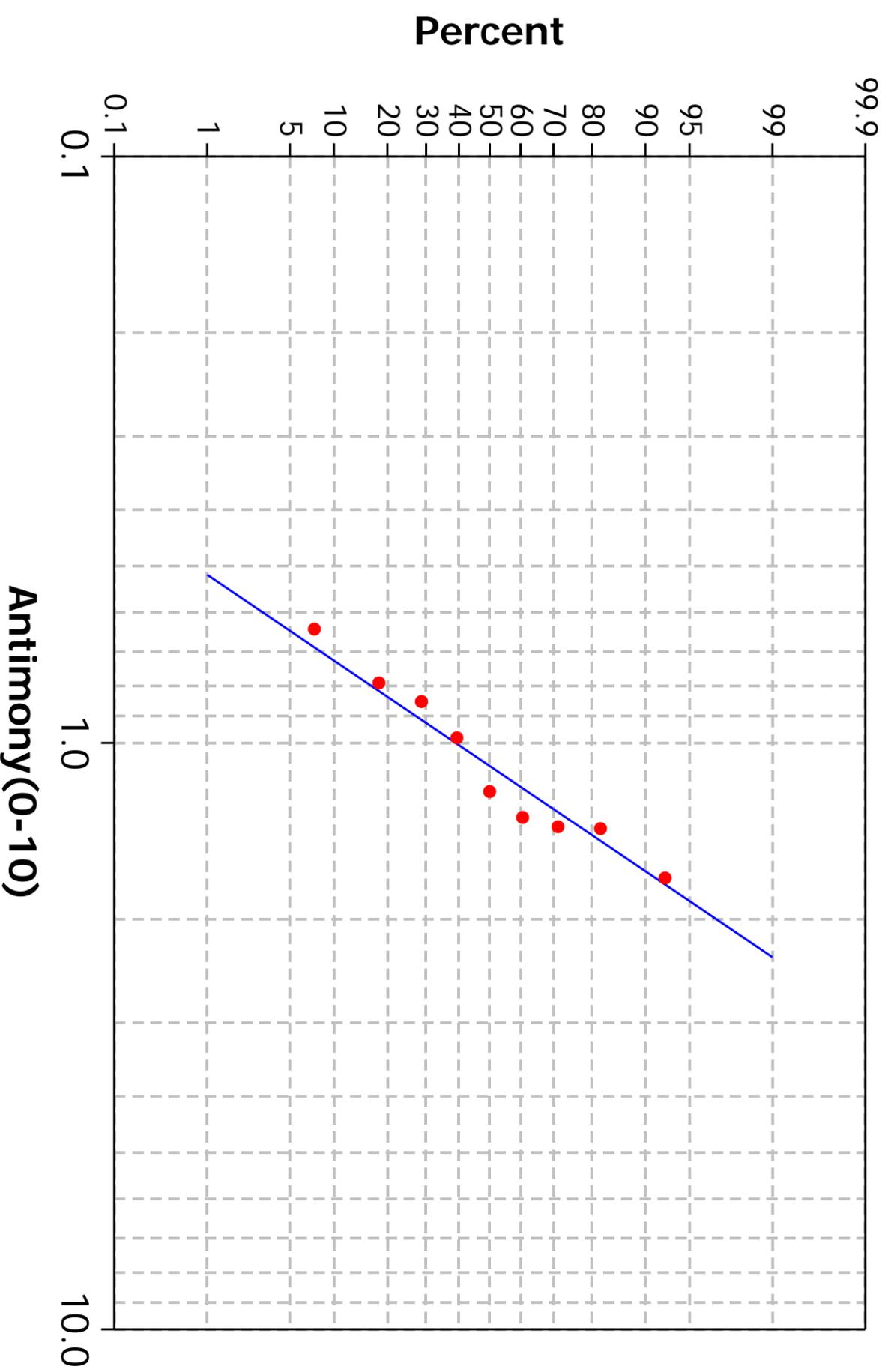


Loc	0.006941
Scale	0.4183
N	44
AD	0.649
P-Value	0.084

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24406 NEPTUNE AVE

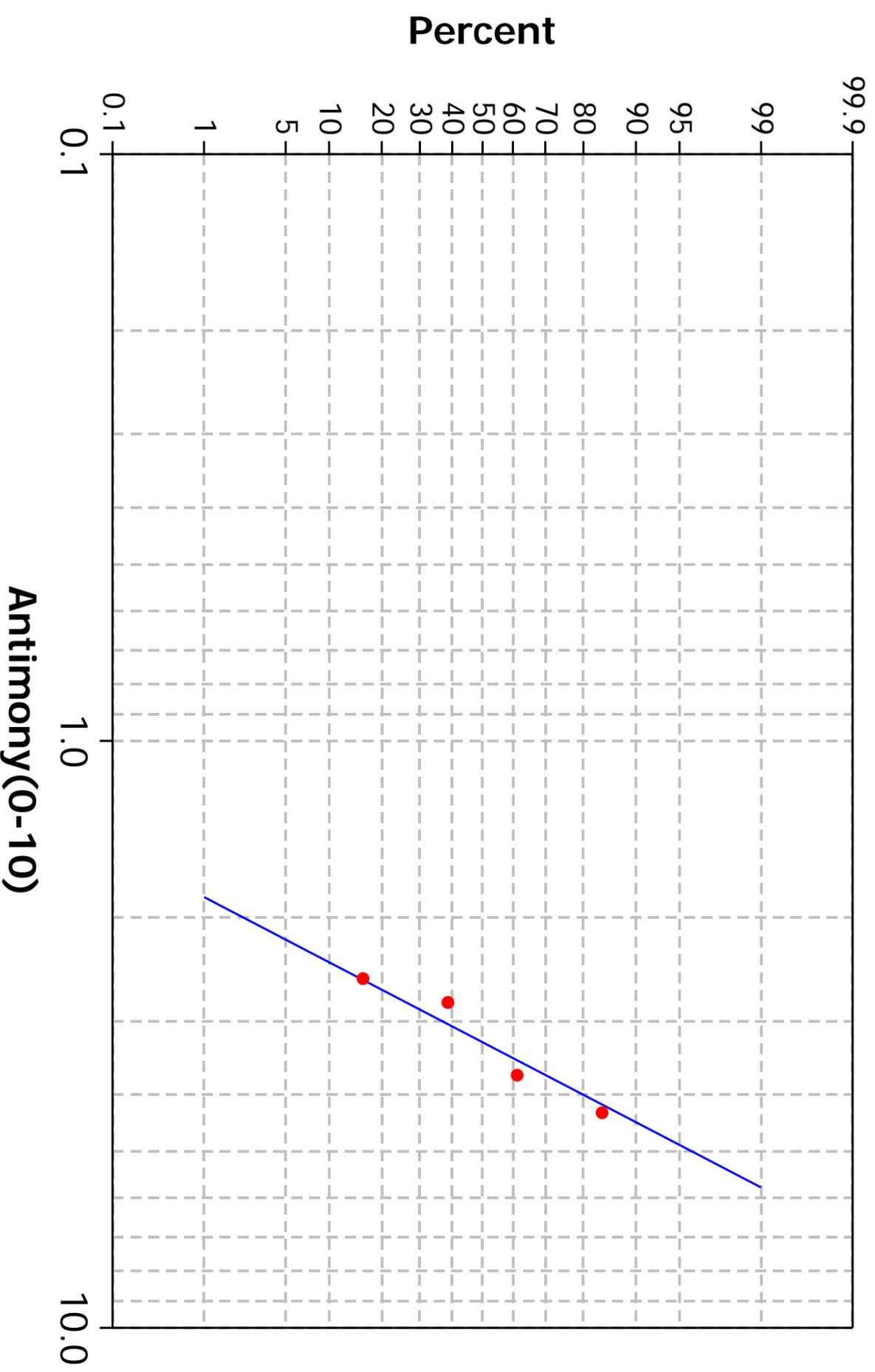


Loc	0.09055
Scale	0.3227
N	9
AD	0.287
P-Value	0.535

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24406 PANAMMA AVE

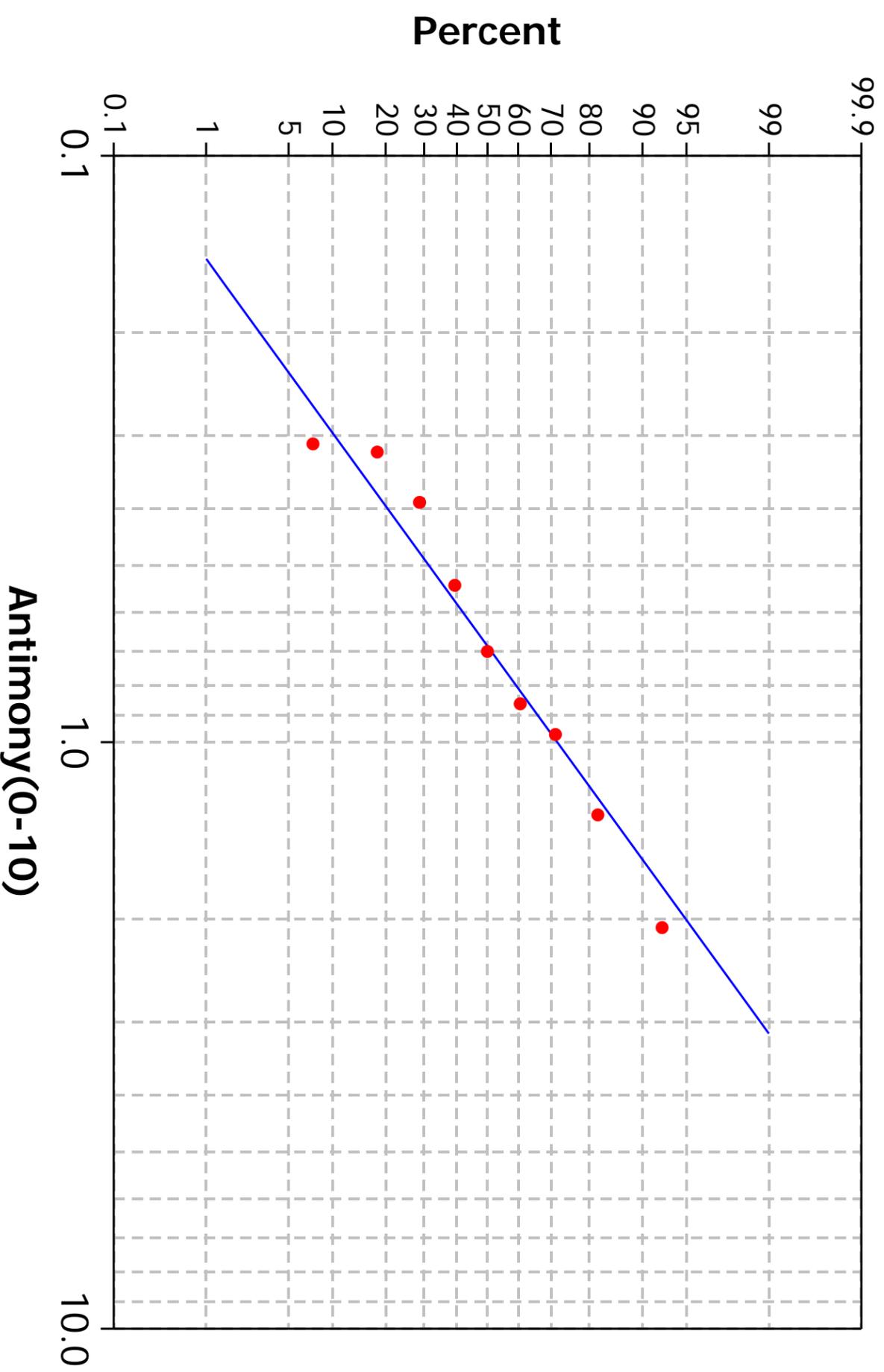


Loc	1.182
Scale	0.2449
N	4
AD	0.248
P-Value	0.516

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24409 NEPTUNE AVE

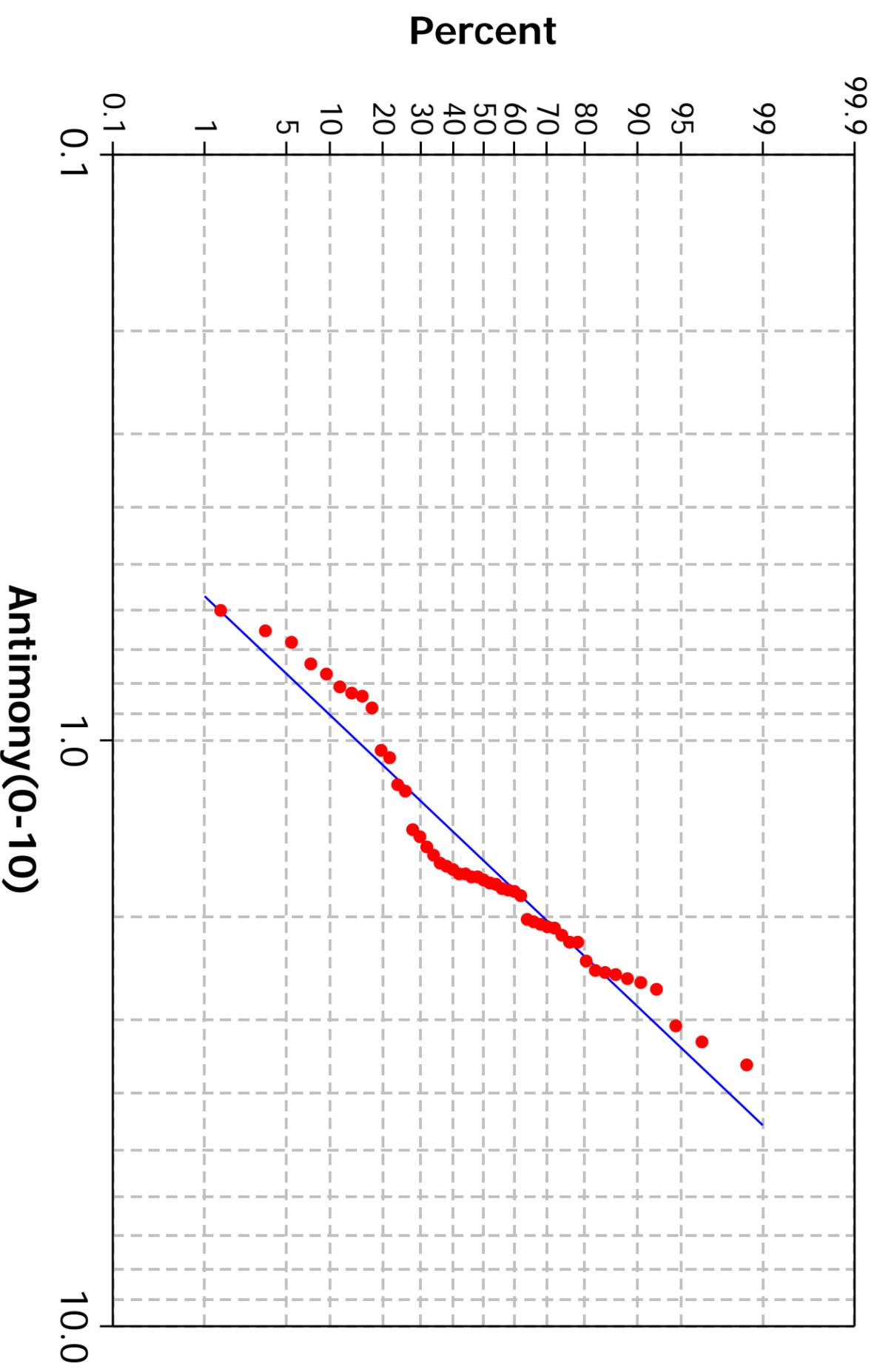


Loc	-0.3771
Scale	0.6537
N	9
AD	0.193
P-Value	0.851

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24411 MARBELLA AVE

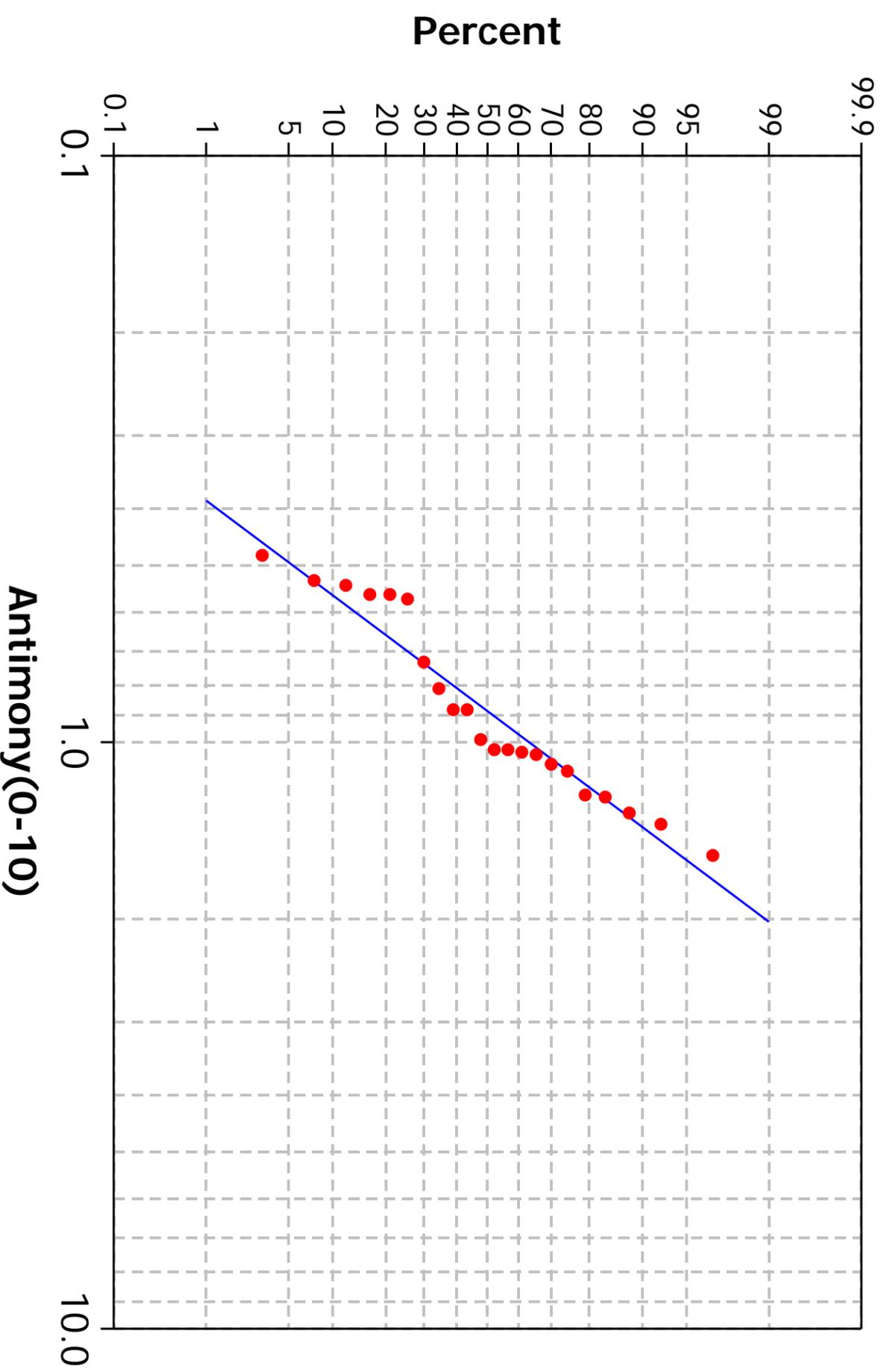


Loc	0.4725
Scale	0.4469
N	49
AD	1.231
P-Value	<0.005

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24413 RAVENNA AVE

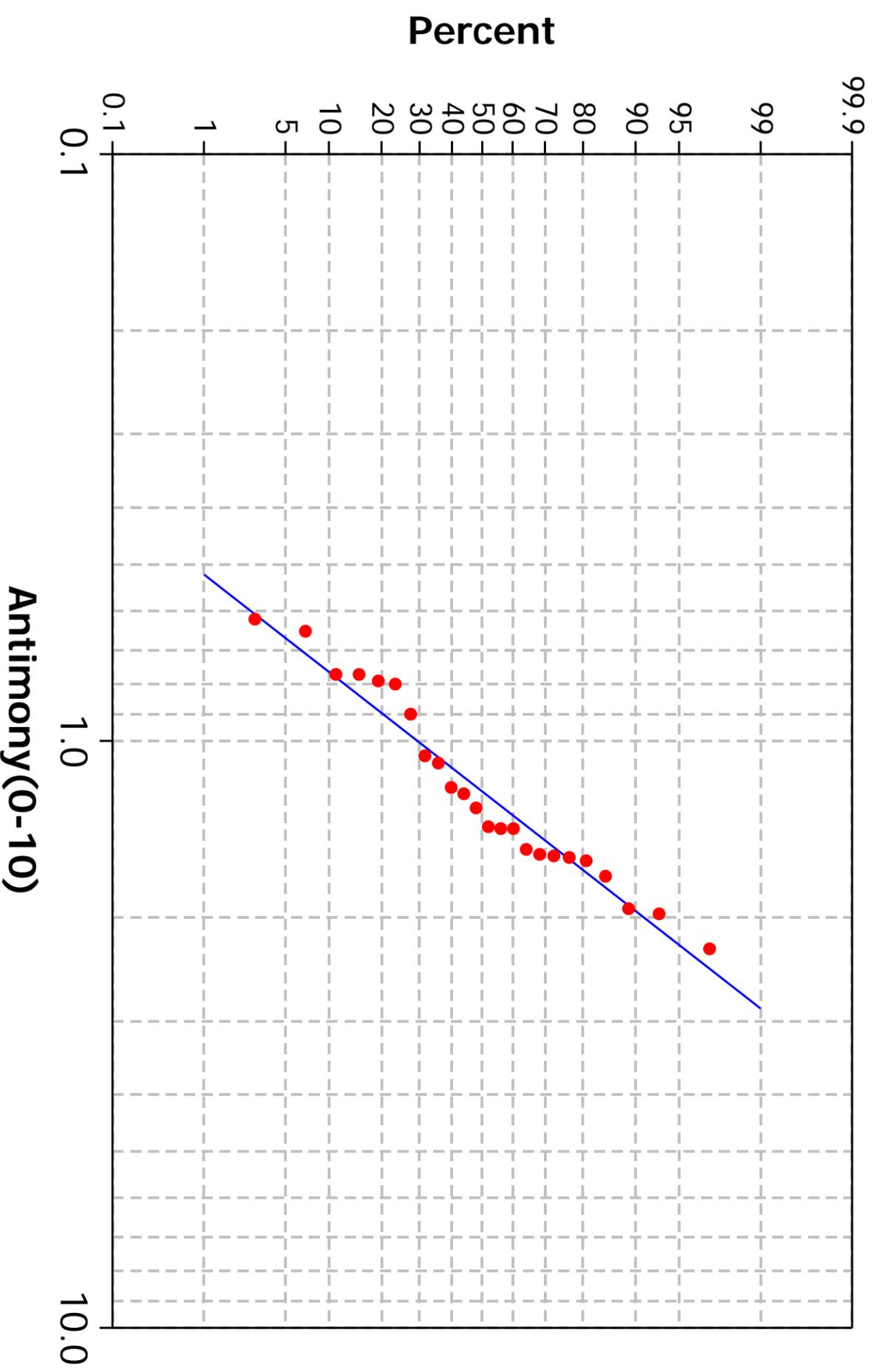


Loc	-0.1220
Scale	0.3554
N	22
AD	0.724
P-Value	0.050

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24416 PANAMMA AVE

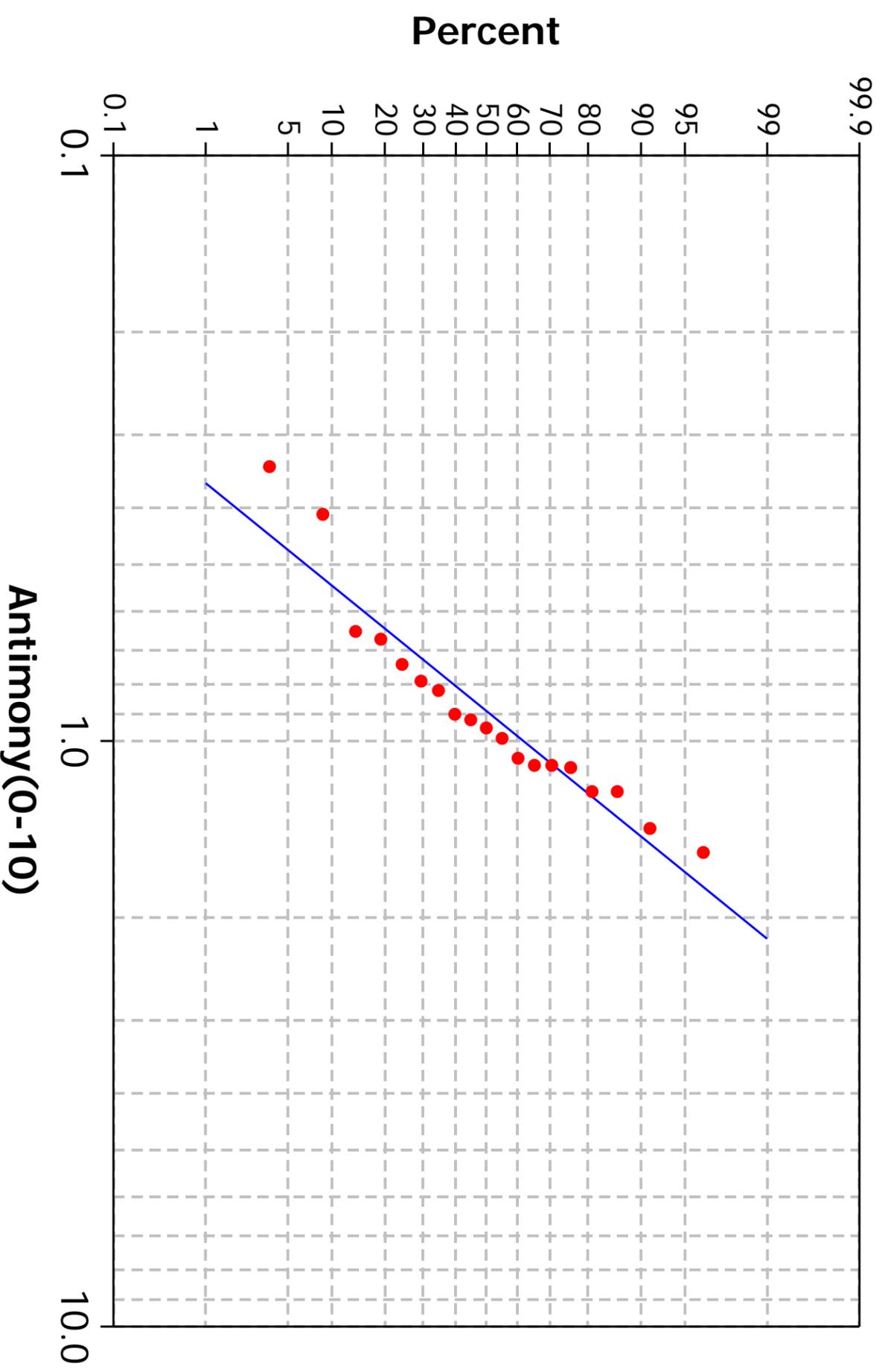


Loc	0.1981
Scale	0.3660
N	24
AD	0.536
P-Value	0.153

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24419 RAVENNA AVE

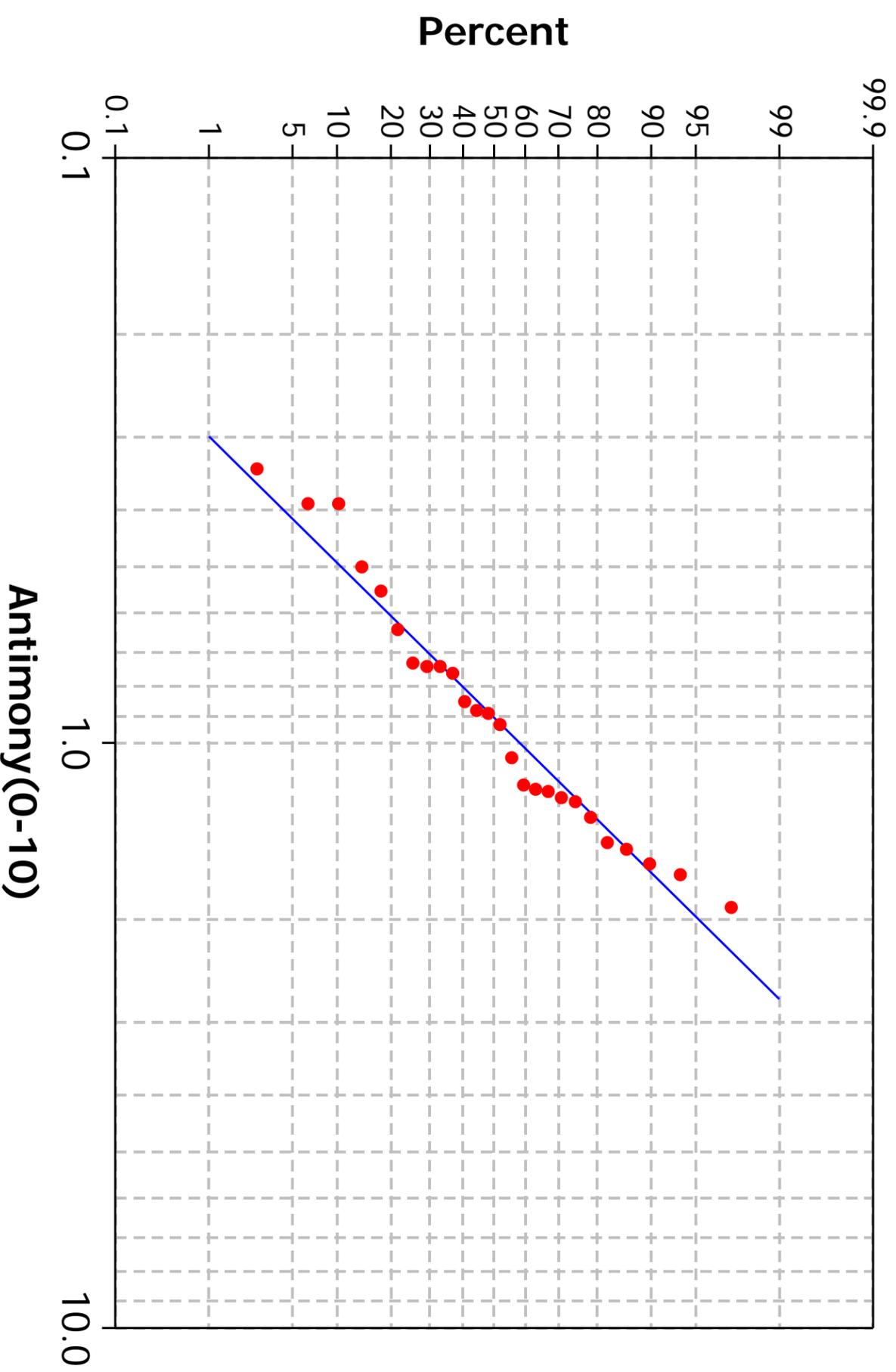


Loc	-0.1181
Scale	0.3851
N	19
AD	0.587
P-Value	0.111

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24422 NEPTUNE AVE

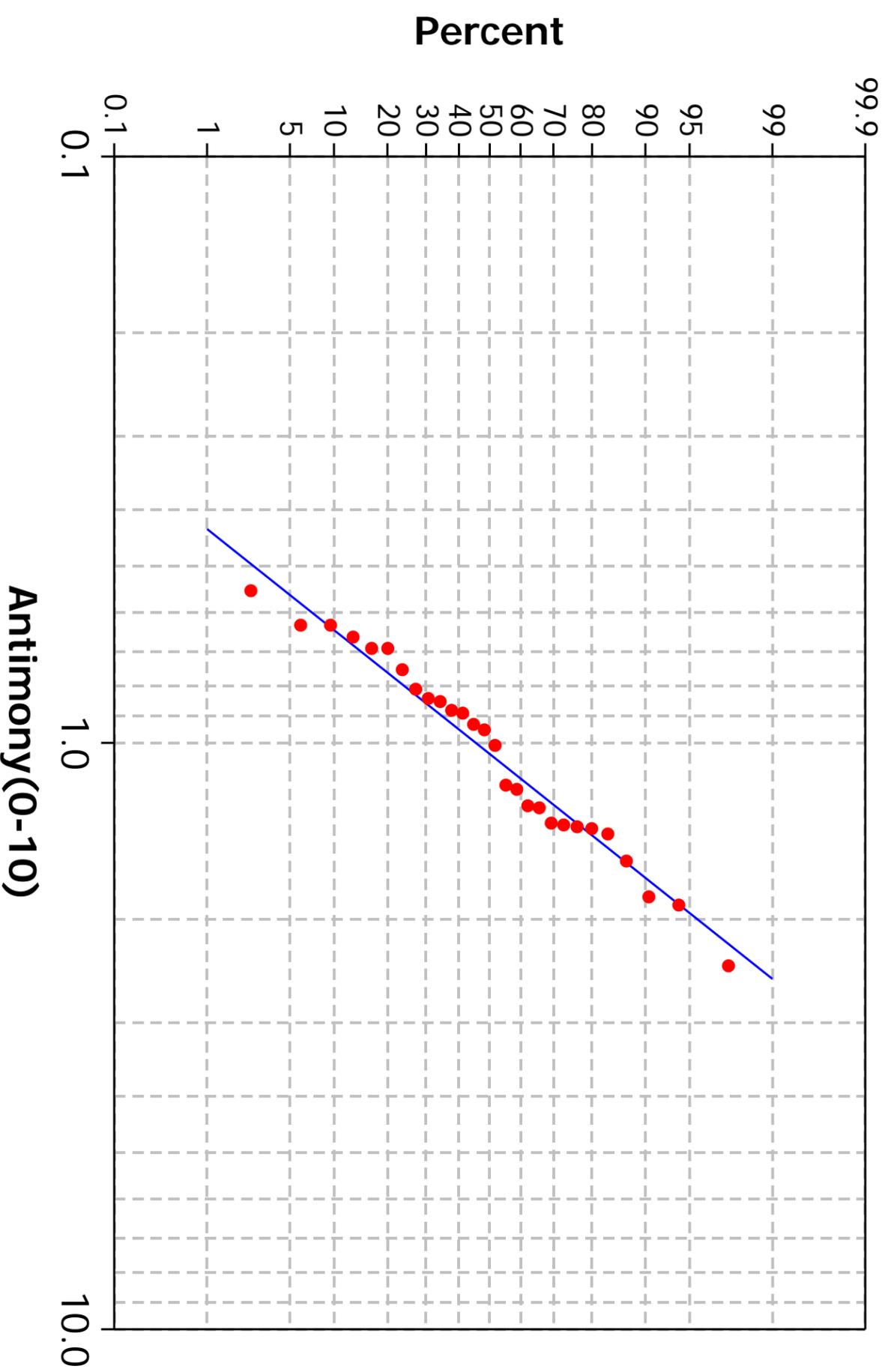


Loc	-0.09929
Scale	0.4760
N	26
AD	0.380
P-Value	0.378

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24426 RAVENNA AVE

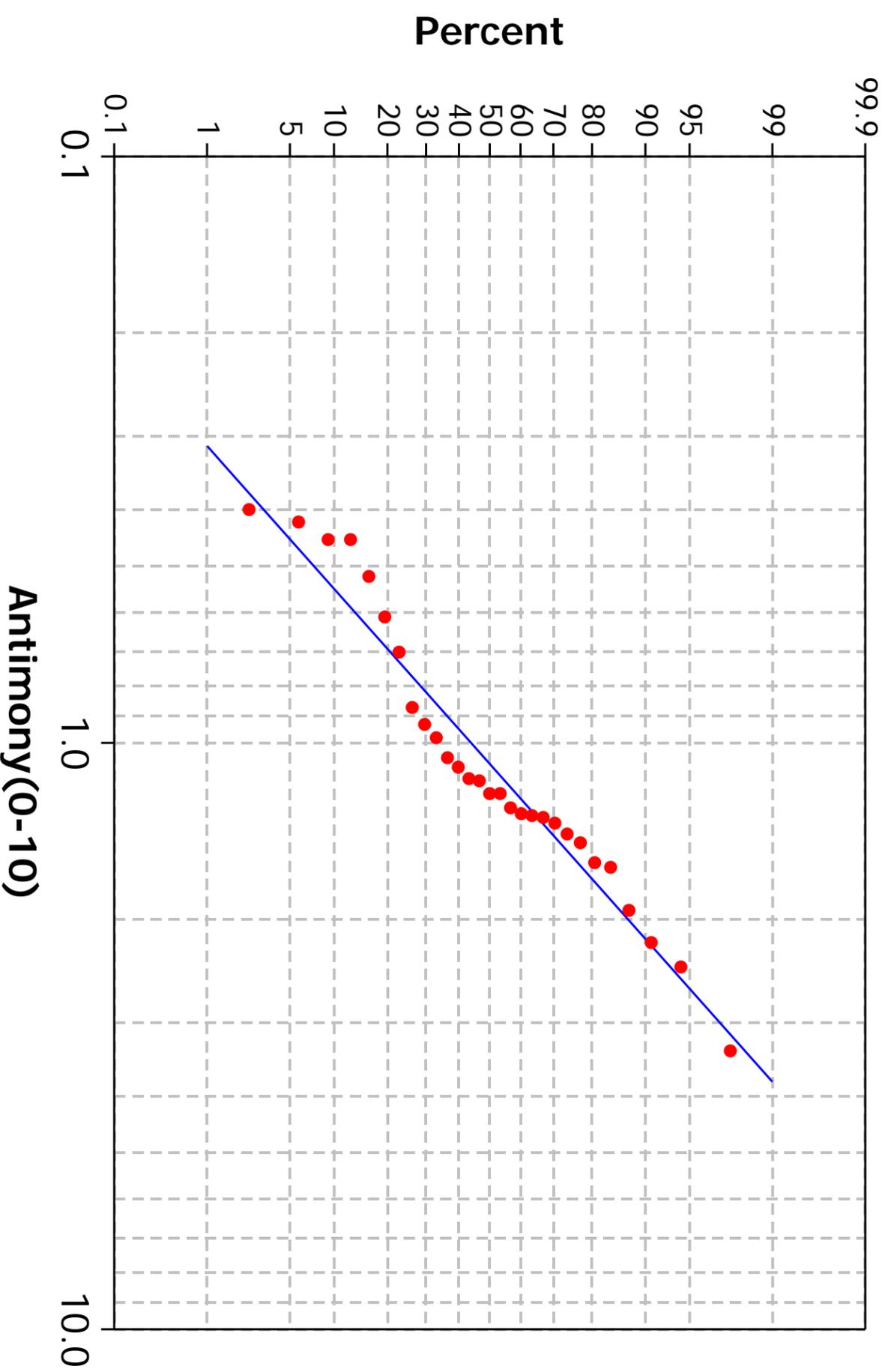


Loc	0.04345
Scale	0.3797
N	28
AD	0.351
P-Value	0.446

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24502 PANAMMA AVE

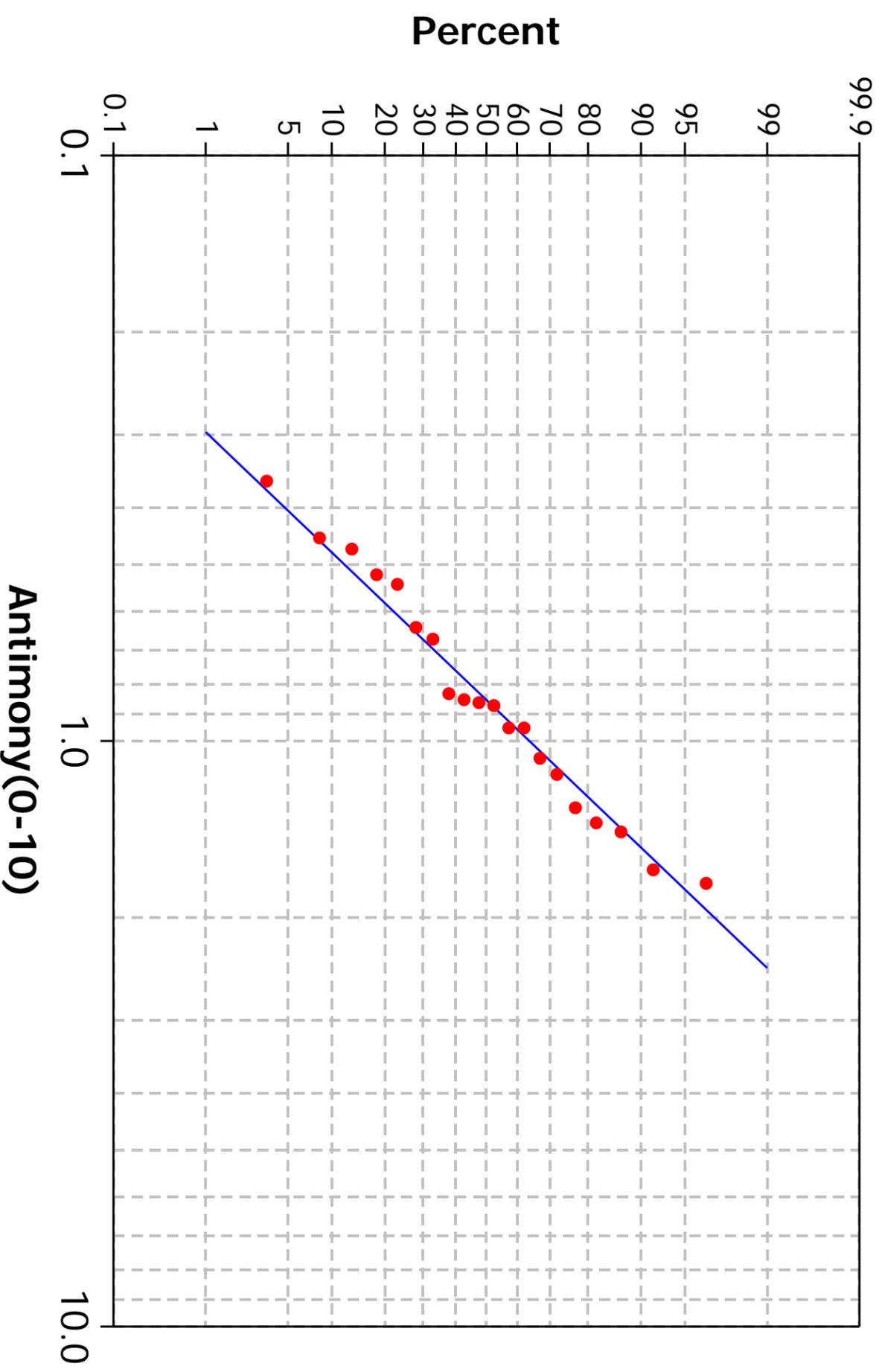


Loc	0.08224
Scale	0.5365
N	29
AD	0.660
P-Value	0.076

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24503 NEPTUNE AVE

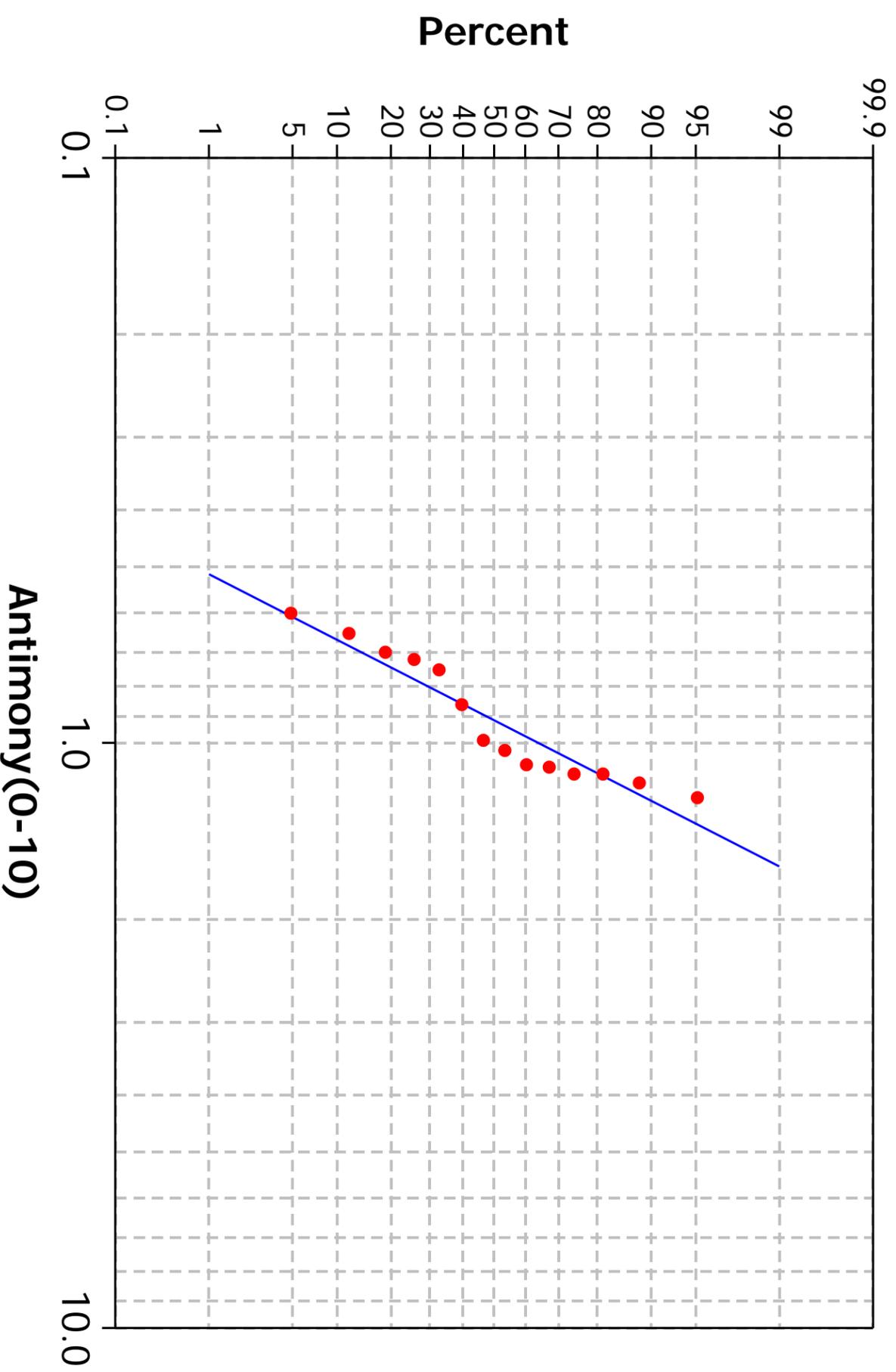


Loc	-0.1613
Scale	0.4530
N	20
AD	0.225
P-Value	0.794

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24512 RAVENNA AVE

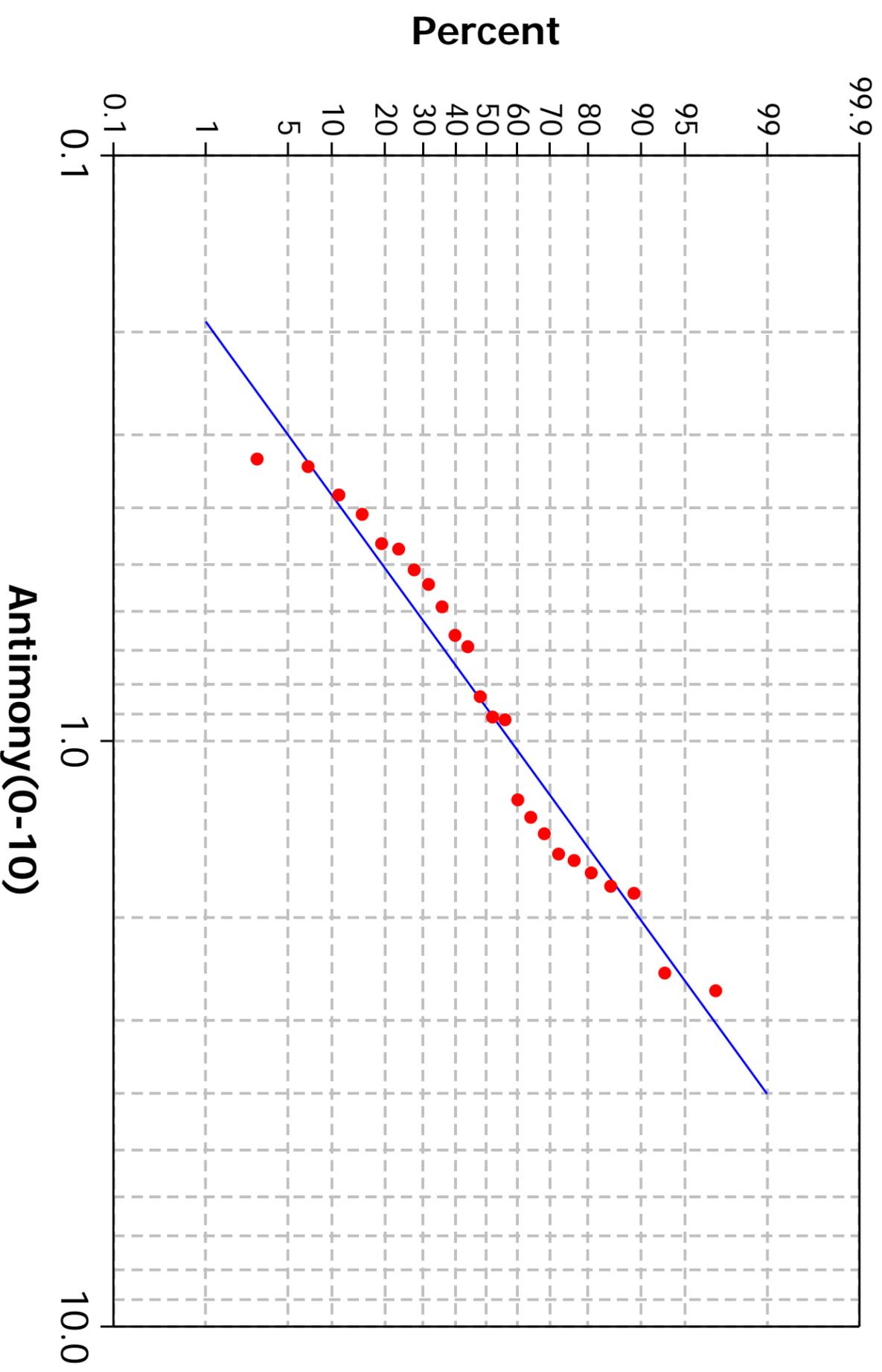


Loc	-0.08912
Scale	0.2472
N	14
AD	0.670
P-Value	0.062

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24513 RAVENNA AVE

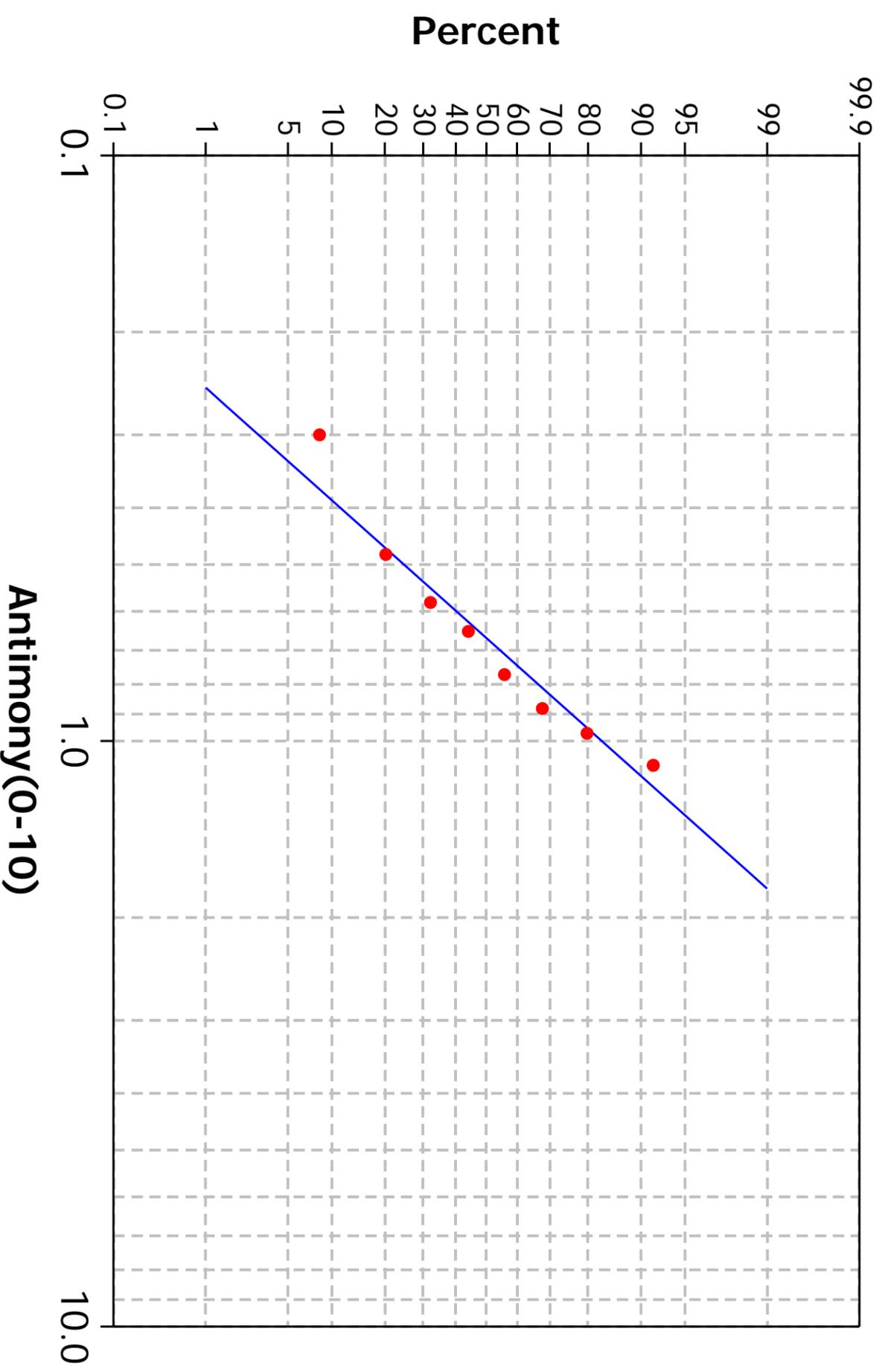


Loc	-0.1309
Scale	0.6528
N	24
AD	0.494
P-Value	0.196

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24517 MARBELLA AVE

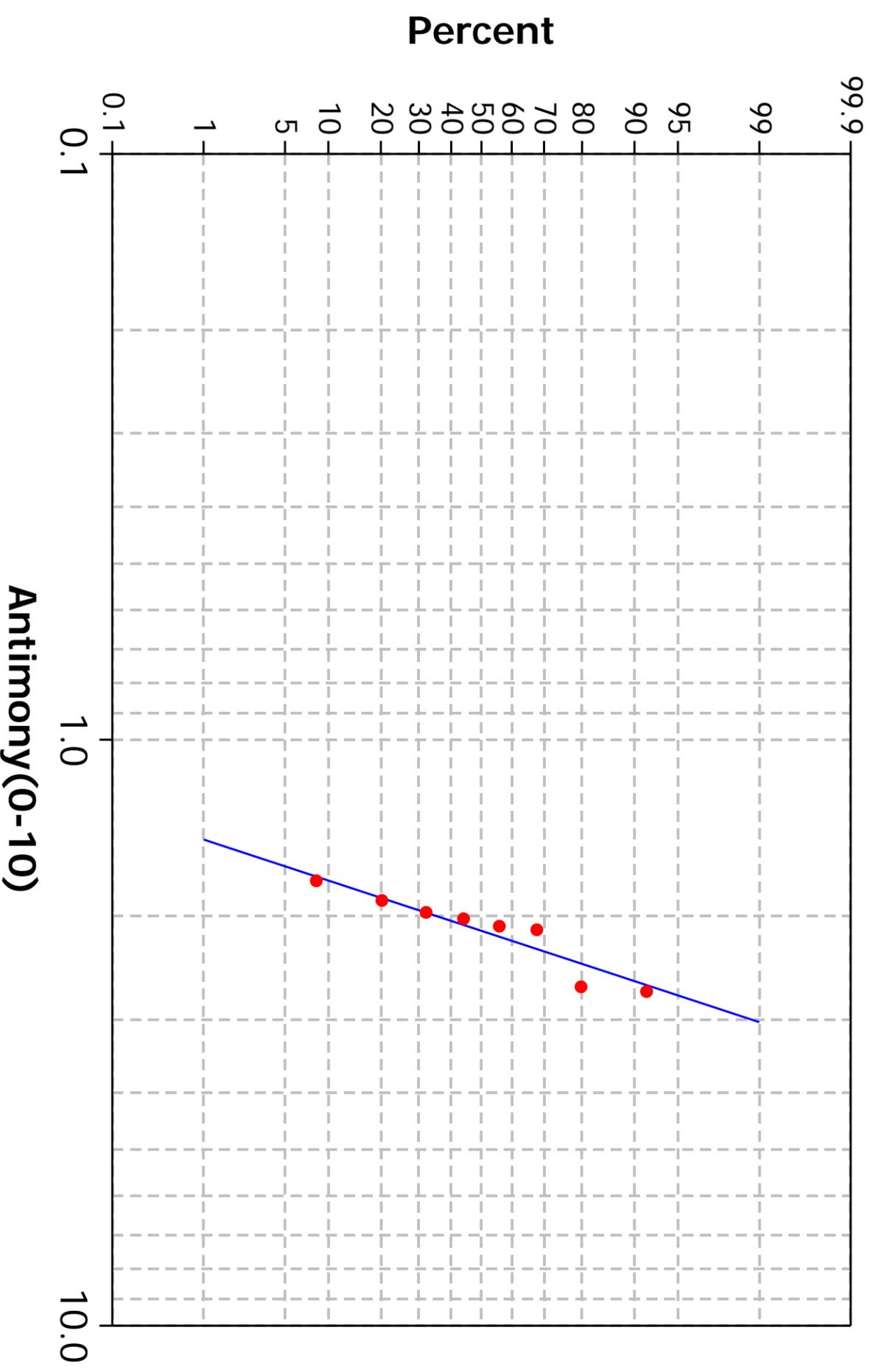


Loc	-0.4047
Scale	0.4234
N	8
AD	0.219
P-Value	0.755

## Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24518 PANAMMA AVE

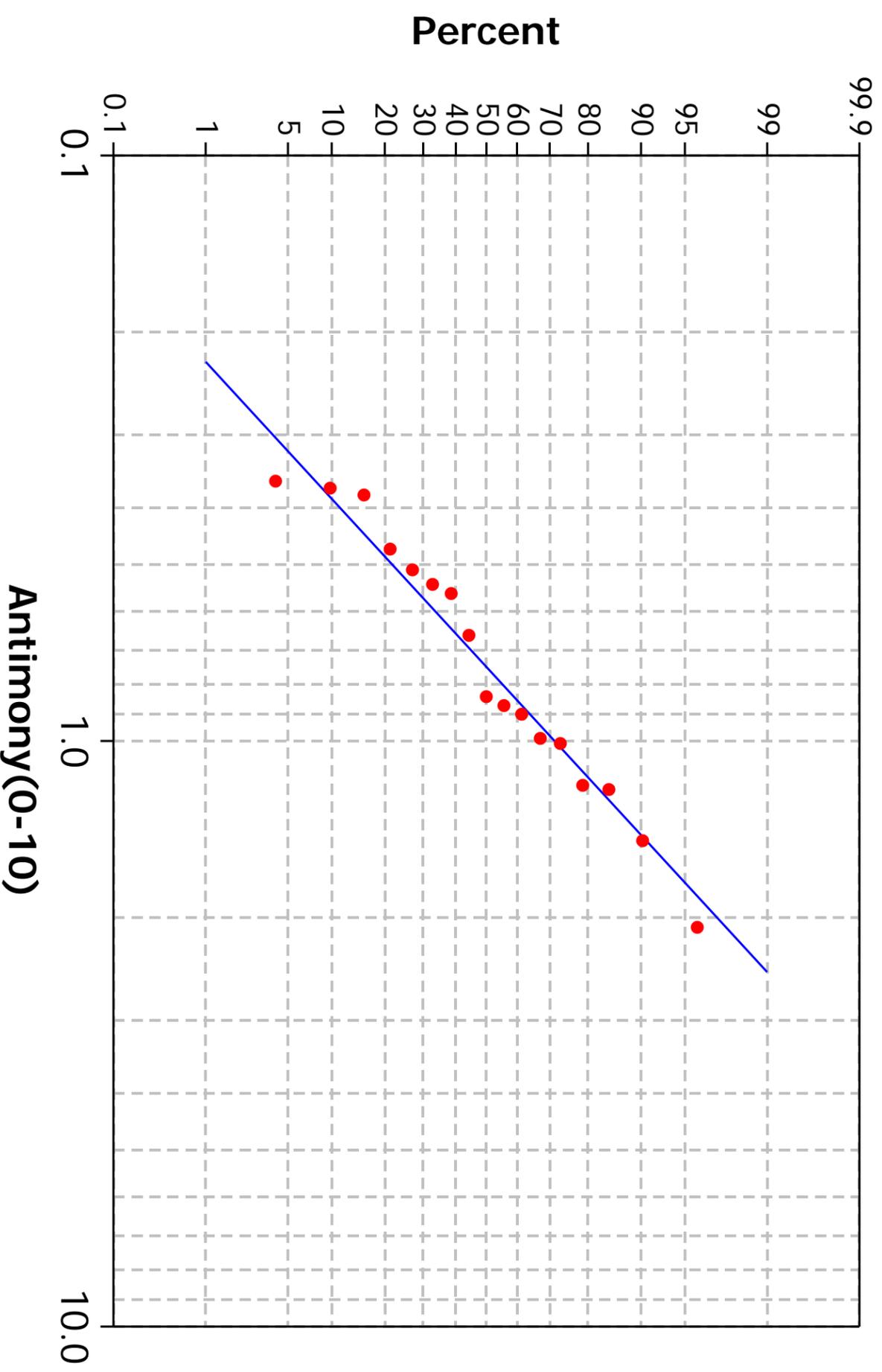


Loc	0.7507
Scale	0.1542
N	8
AD	0.466
P-Value	0.180

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24518 RAVENNA AVE

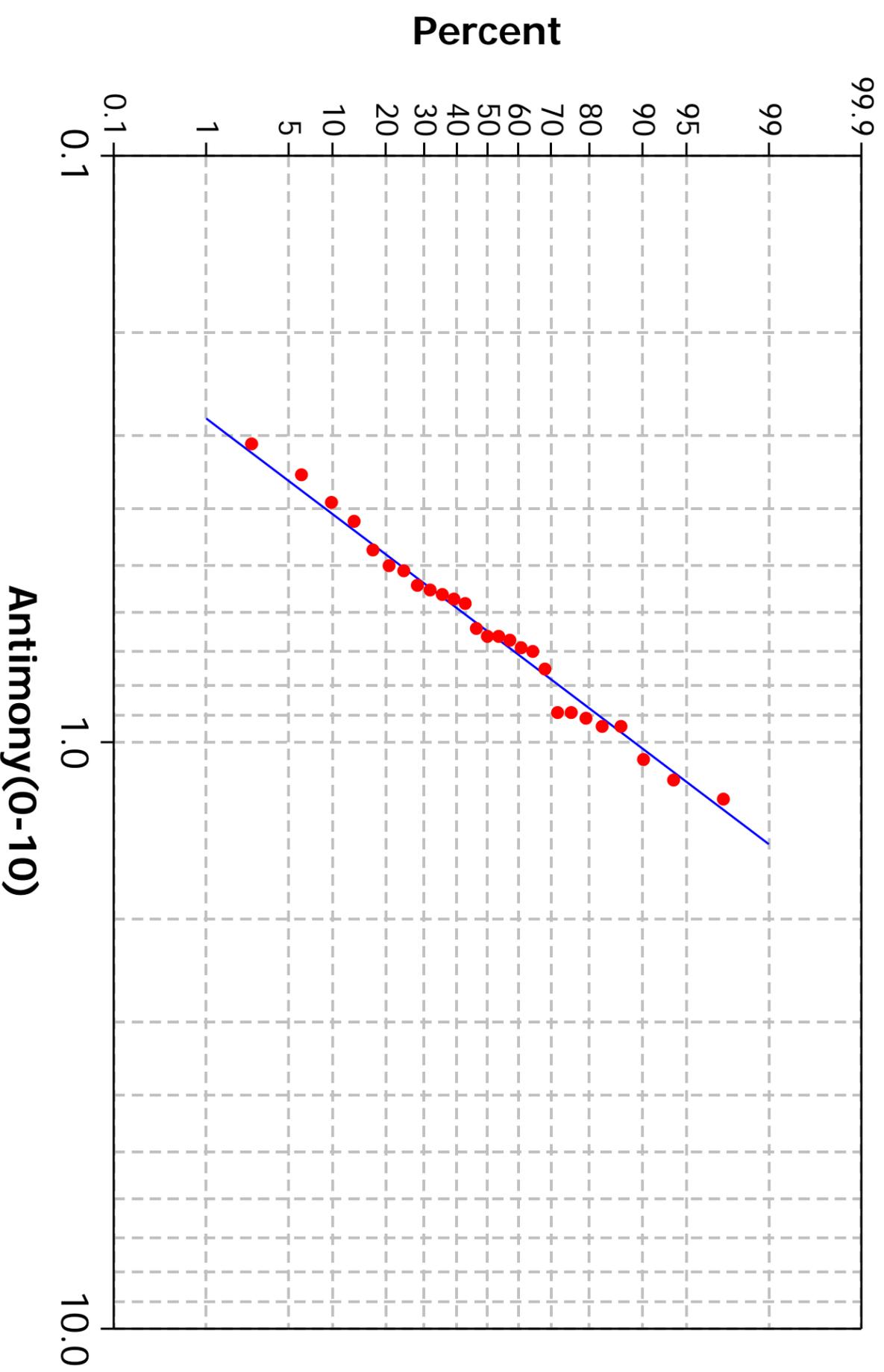


Loc	-0.2914
Scale	0.5157
N	17
AD	0.259
P-Value	0.669

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24523 MARBELLA AVE

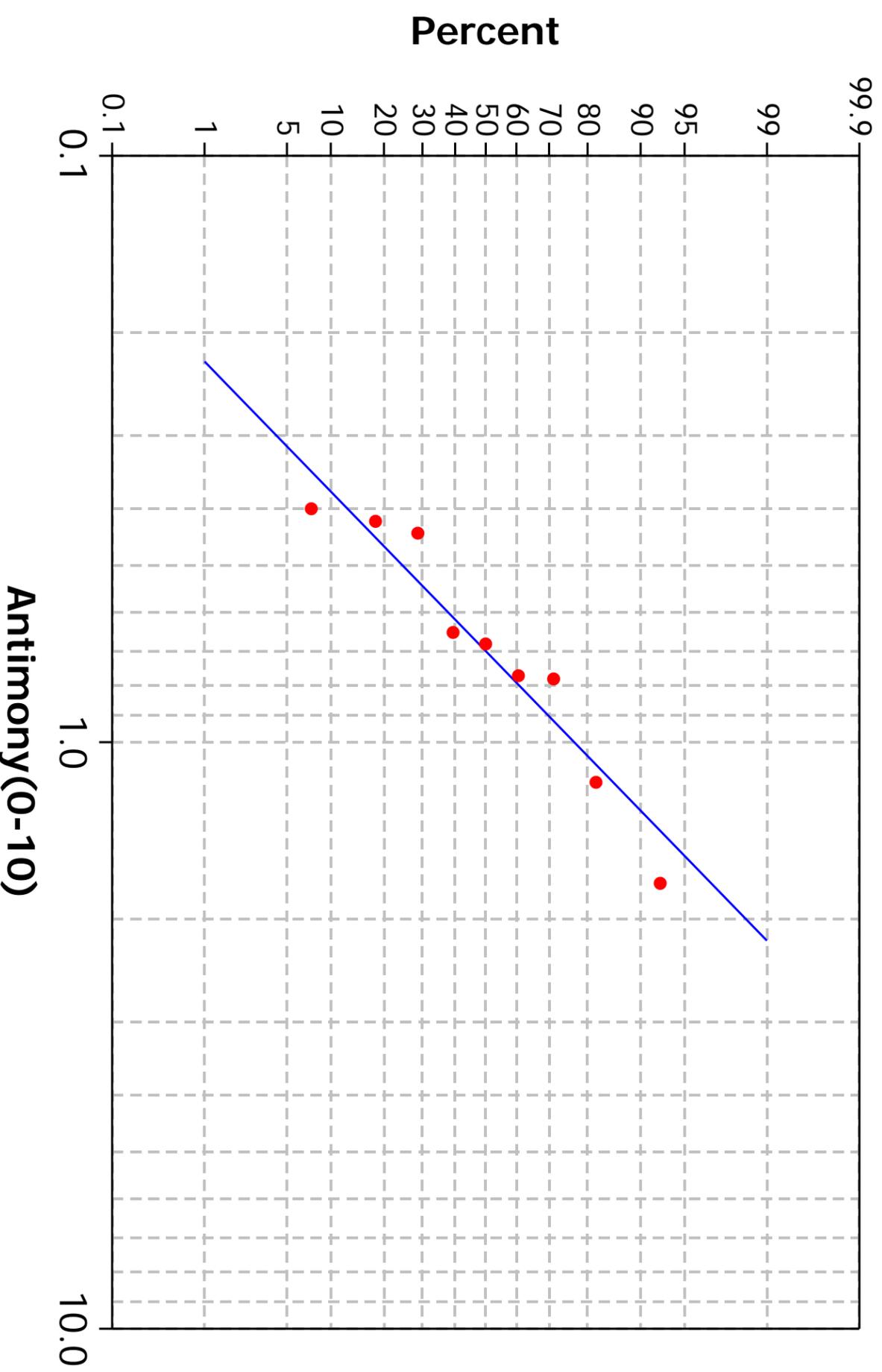


Loc	-0.4355
Scale	0.3593
N	27
AD	0.193
P-Value	0.885

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24523 RAVENNA AVE

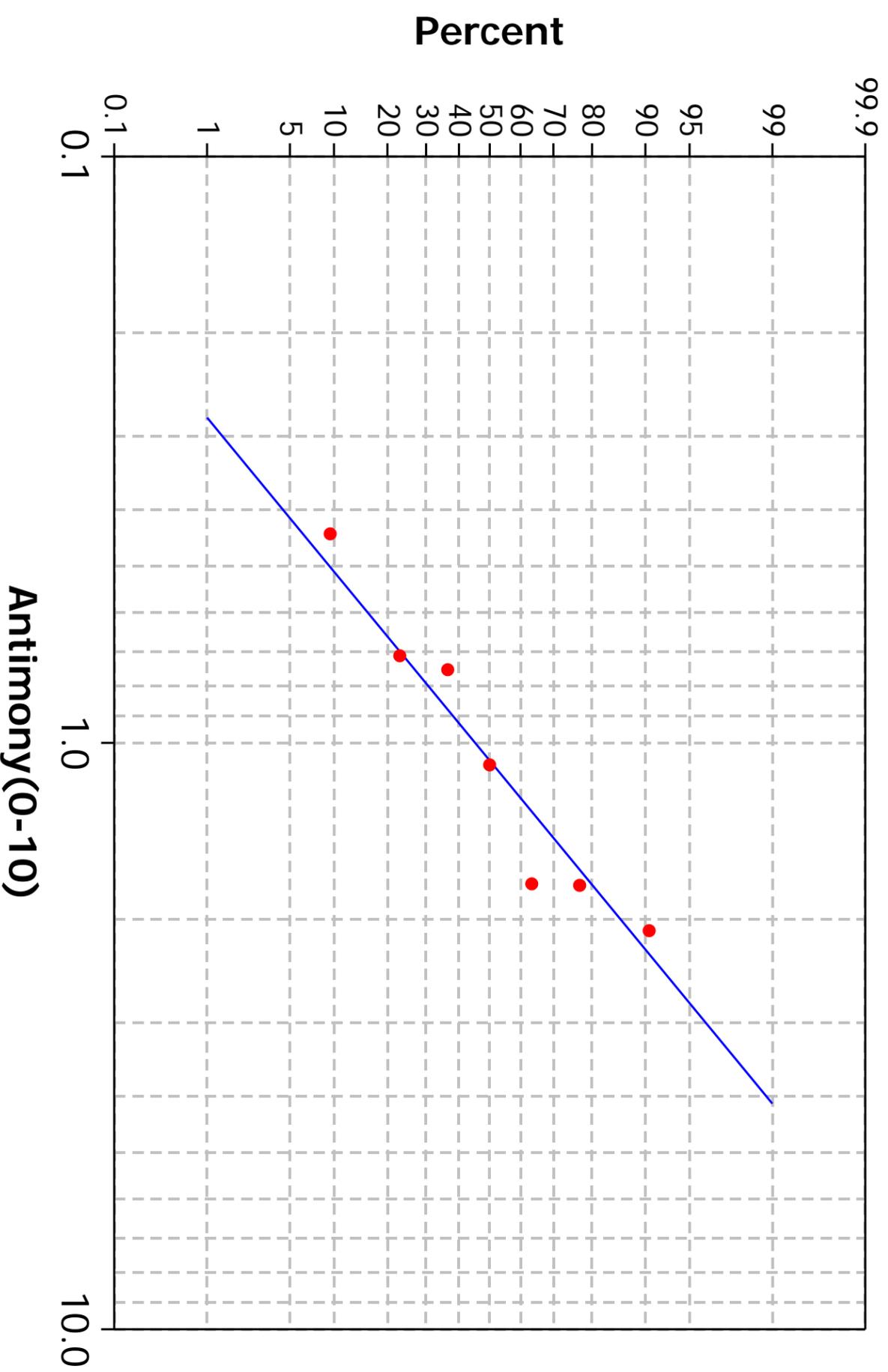


Loc	-0.3578
Scale	0.4886
N	9
AD	0.326
P-Value	0.444

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24532 RAVENNA AVE

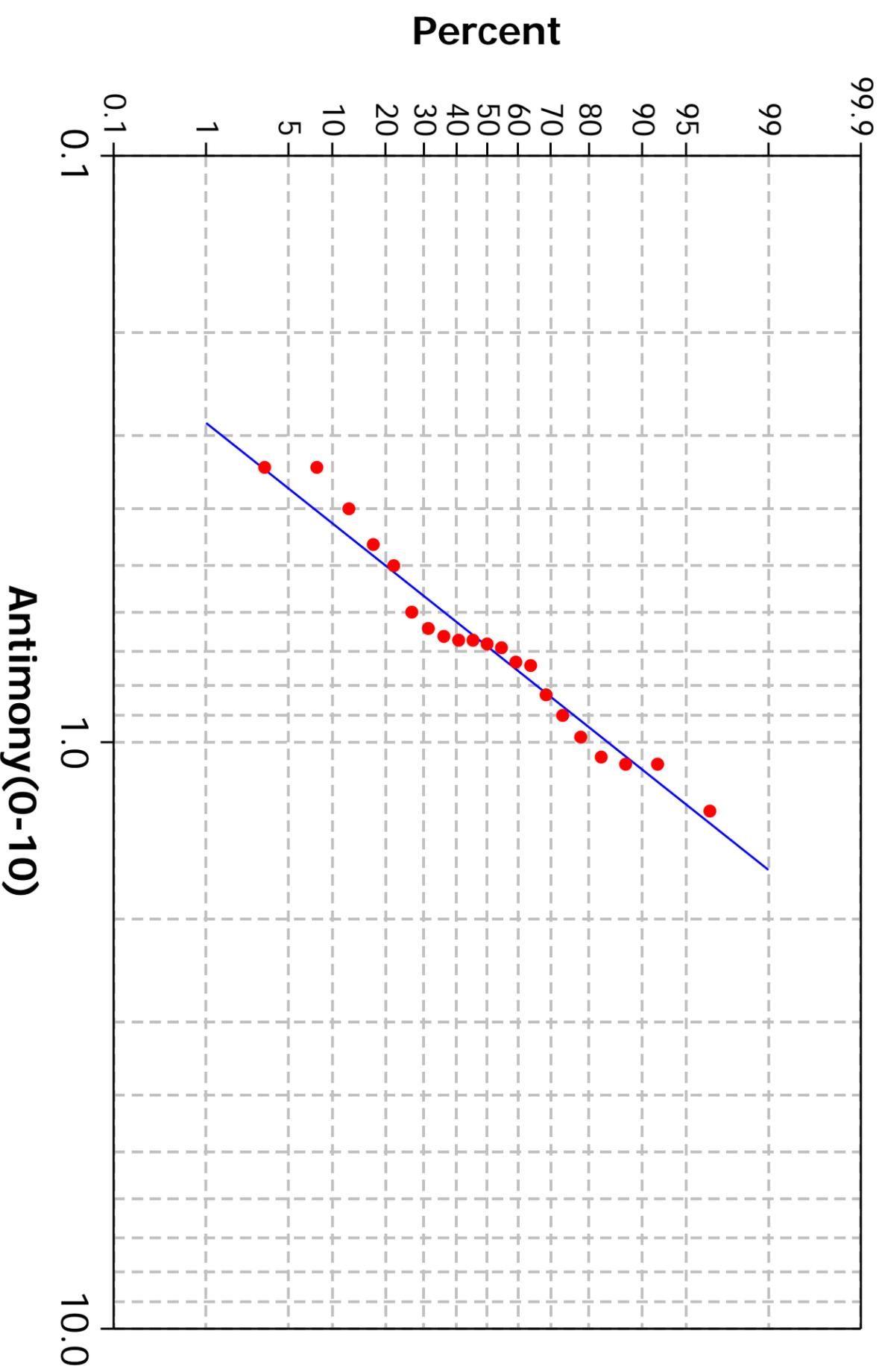


Loc	0.06938
Scale	0.5790
N	7
AD	0.305
P-Value	0.468

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24602 MARBELLA AVE

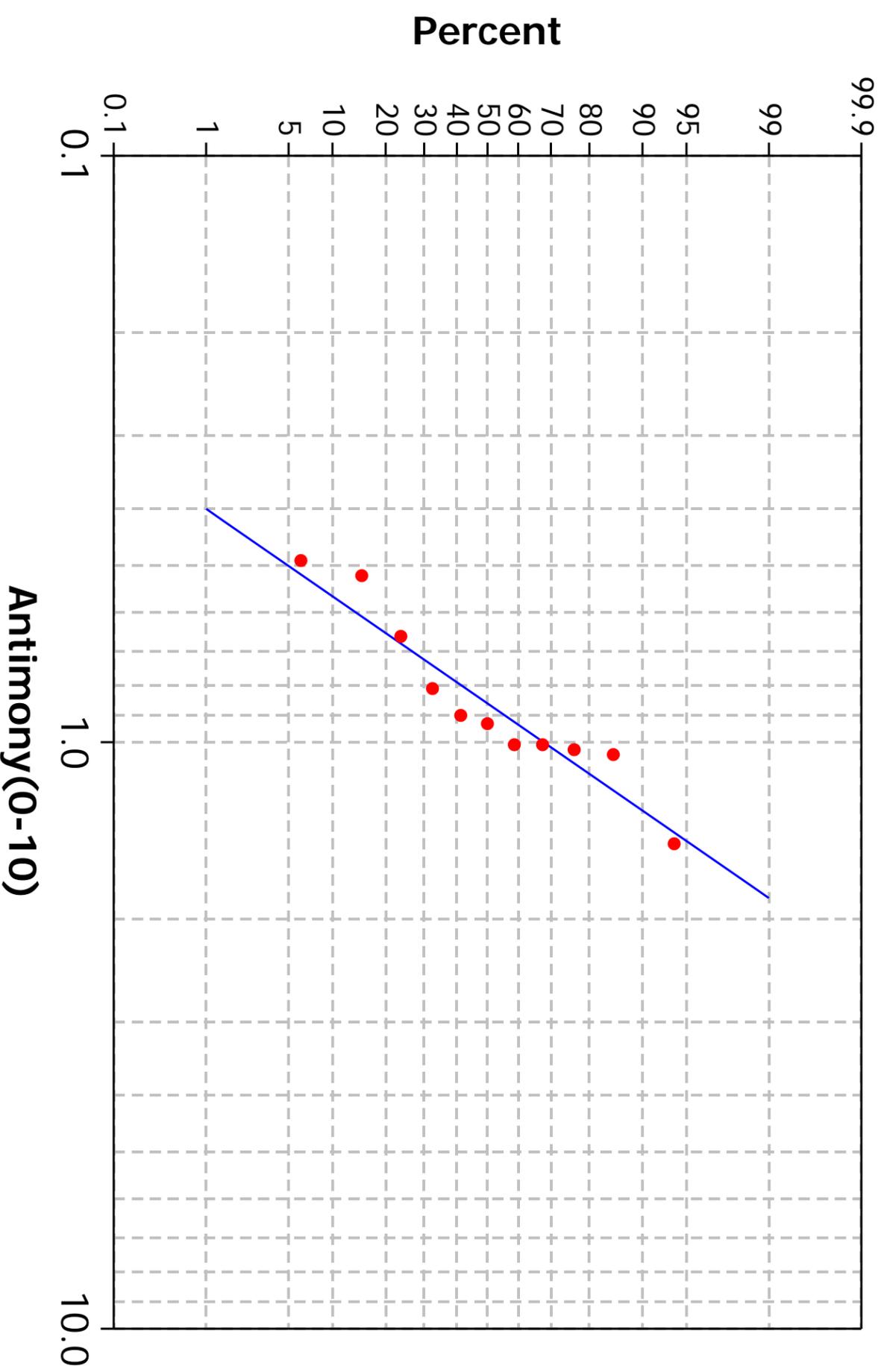


Loc	-0.3762
Scale	0.3772
N	21
AD	0.365
P-Value	0.405

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24602 PANAMMA AVE

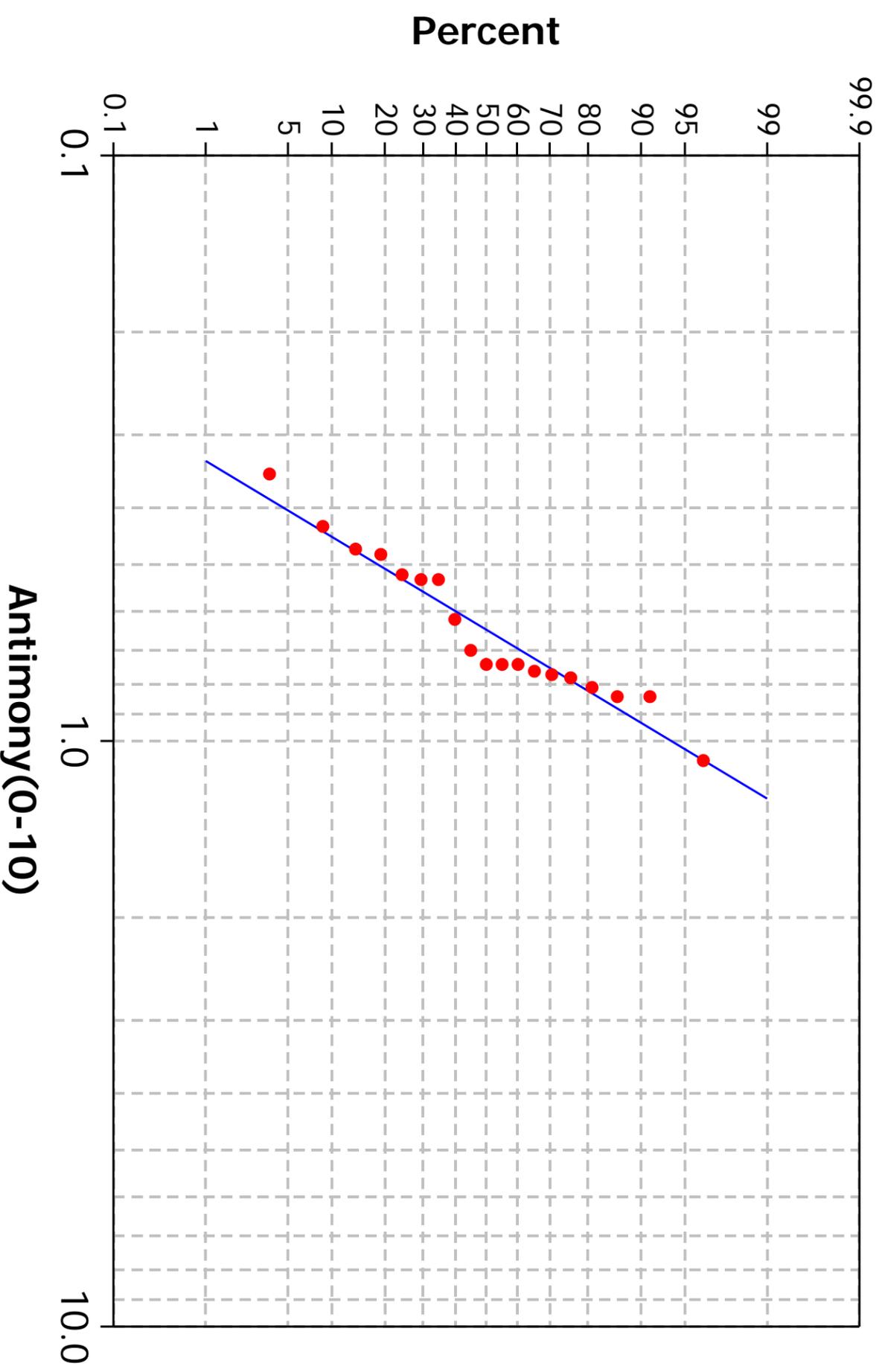


Loc	-0.1522
Scale	0.3283
N	11
AD	0.487
P-Value	0.177

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24603 NEPTUNE AVE

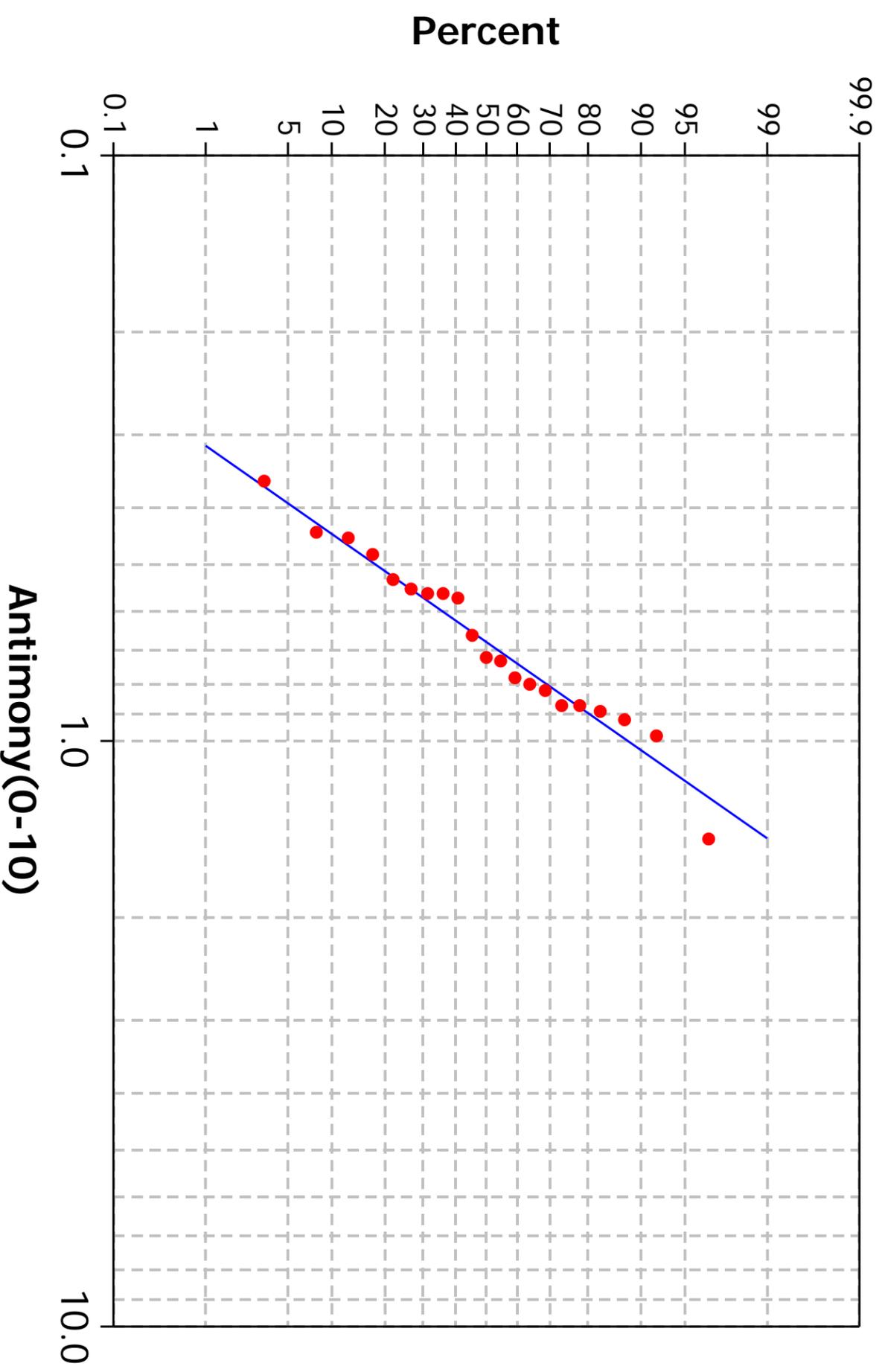


Loc	-0.4374
Scale	0.2853
N	19
AD	0.612
P-Value	0.095

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24606 MARBELLA AVE

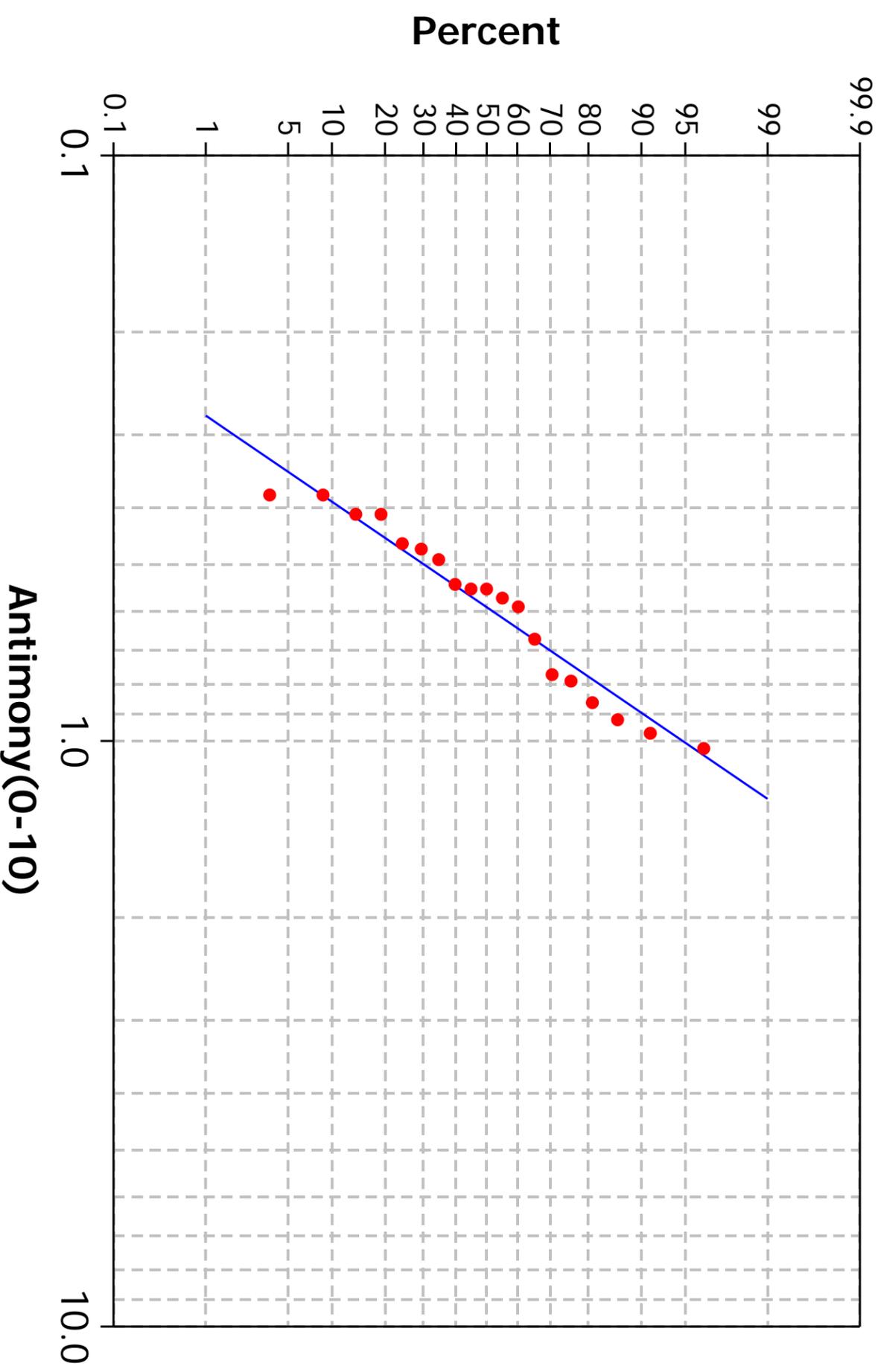


Loc	-0.3891
Scale	0.3318
N	21
AD	0.295
P-Value	0.562

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24608 NEPTUNE AVE

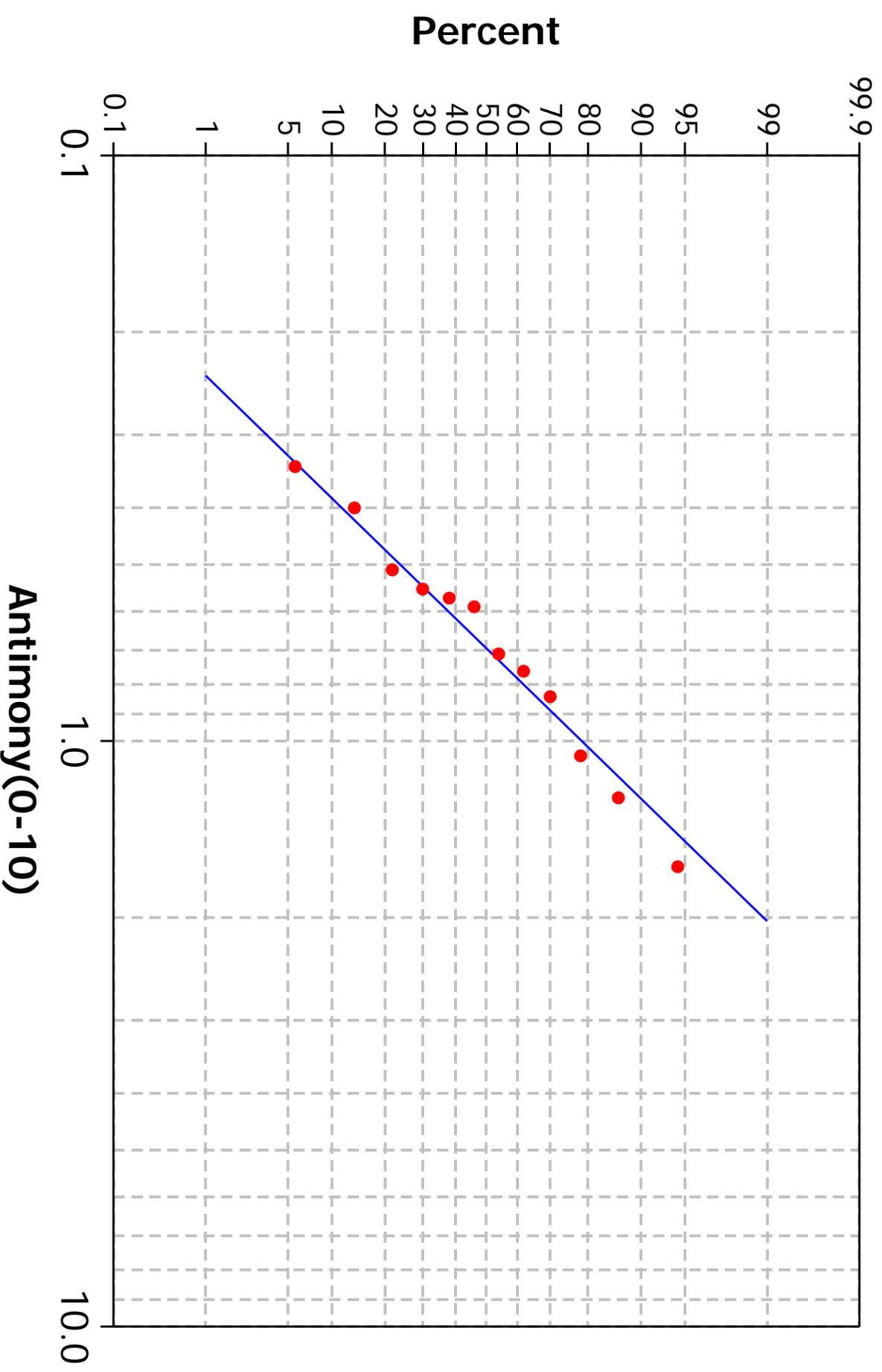


Loc	-0.5262
Scale	0.3239
N	19
AD	0.405
P-Value	0.319

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24608 RAVENNA AVE

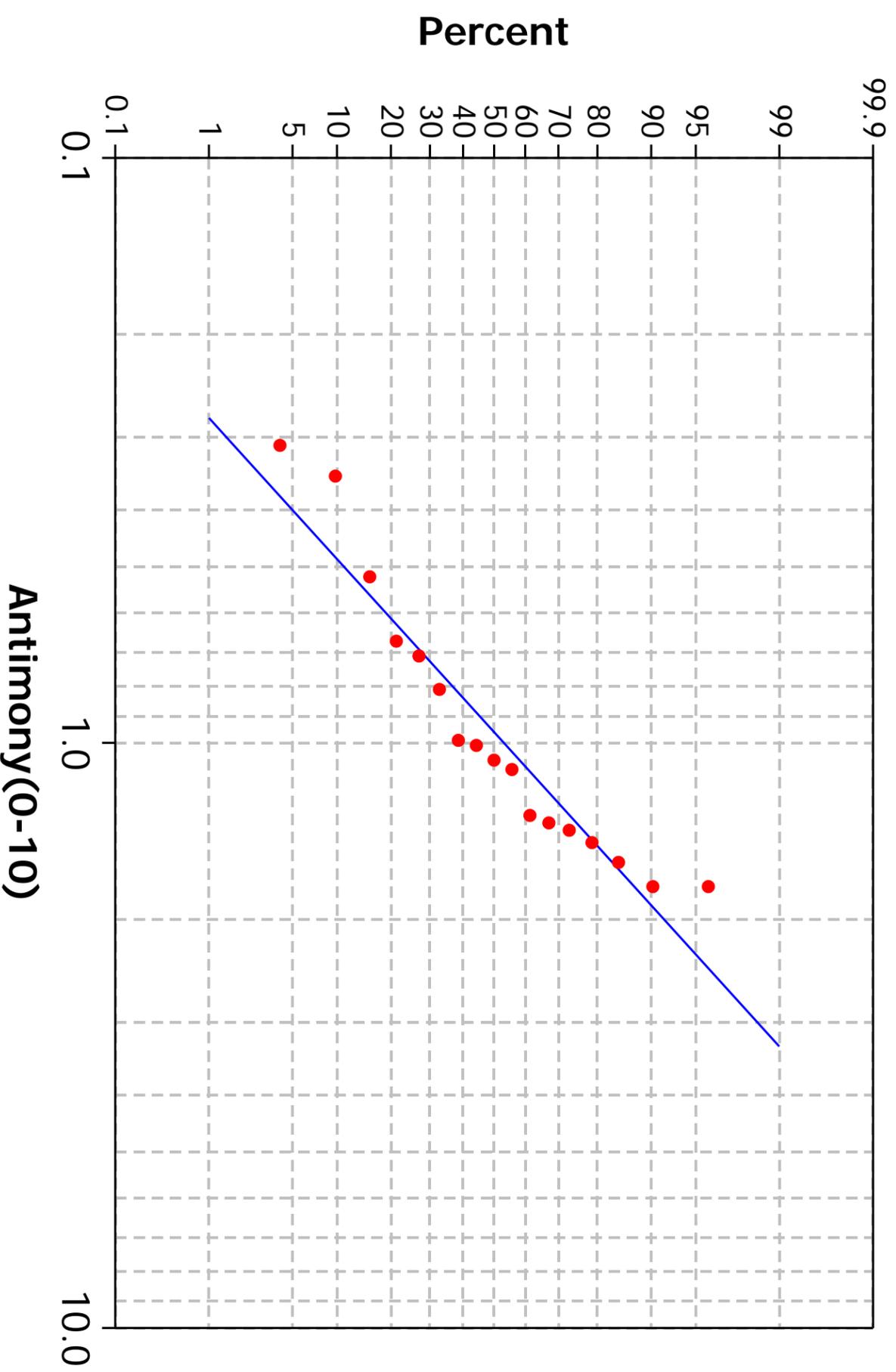


Loc	-0.3643
Scale	0.4610
N	12
AD	0.169
P-Value	0.912

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24609 NEPTUNE AVE

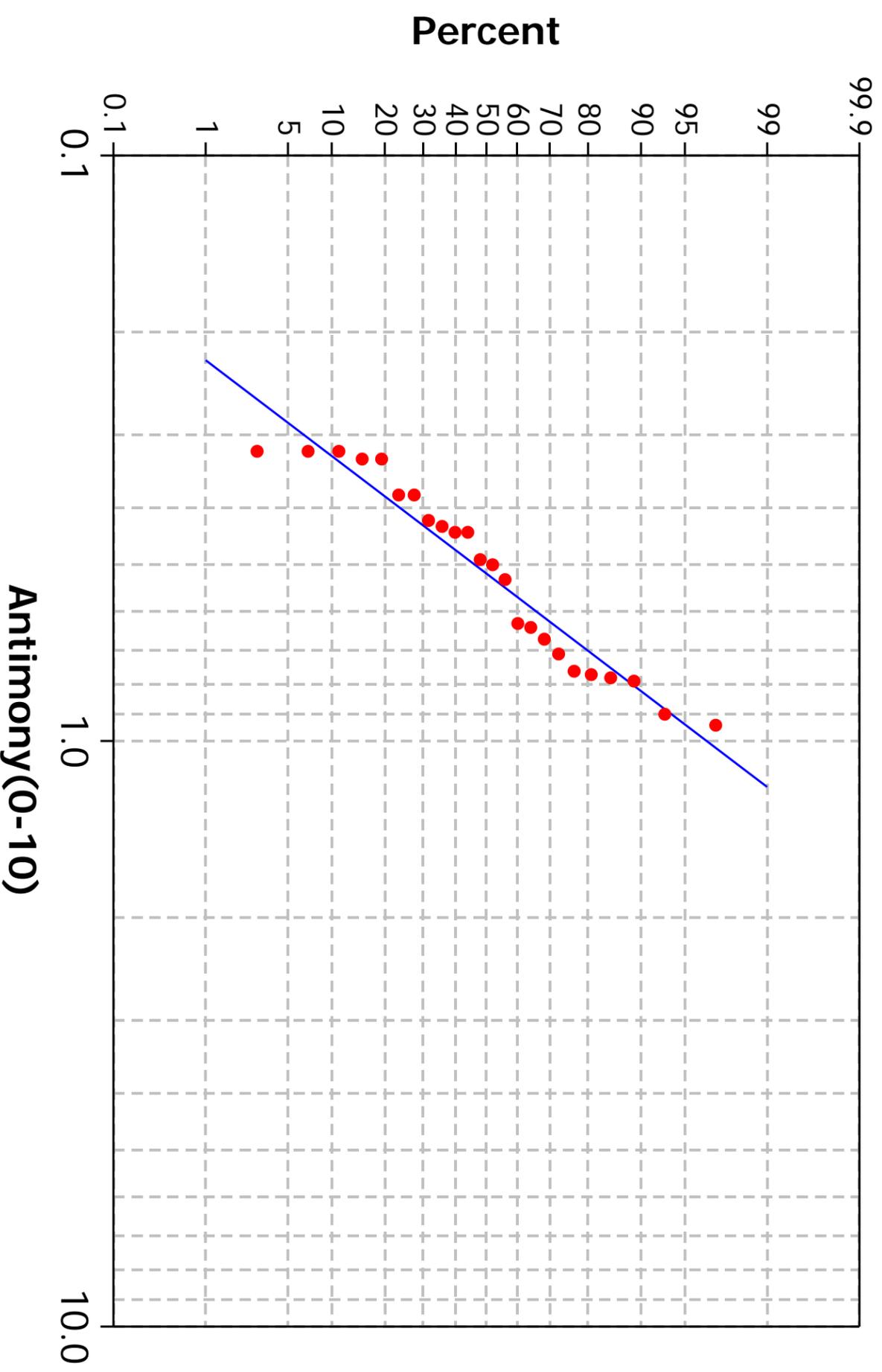


Loc	-0.04238
Scale	0.5316
N	17
AD	0.555
P-Value	0.129

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24609 RAVENNA AVE

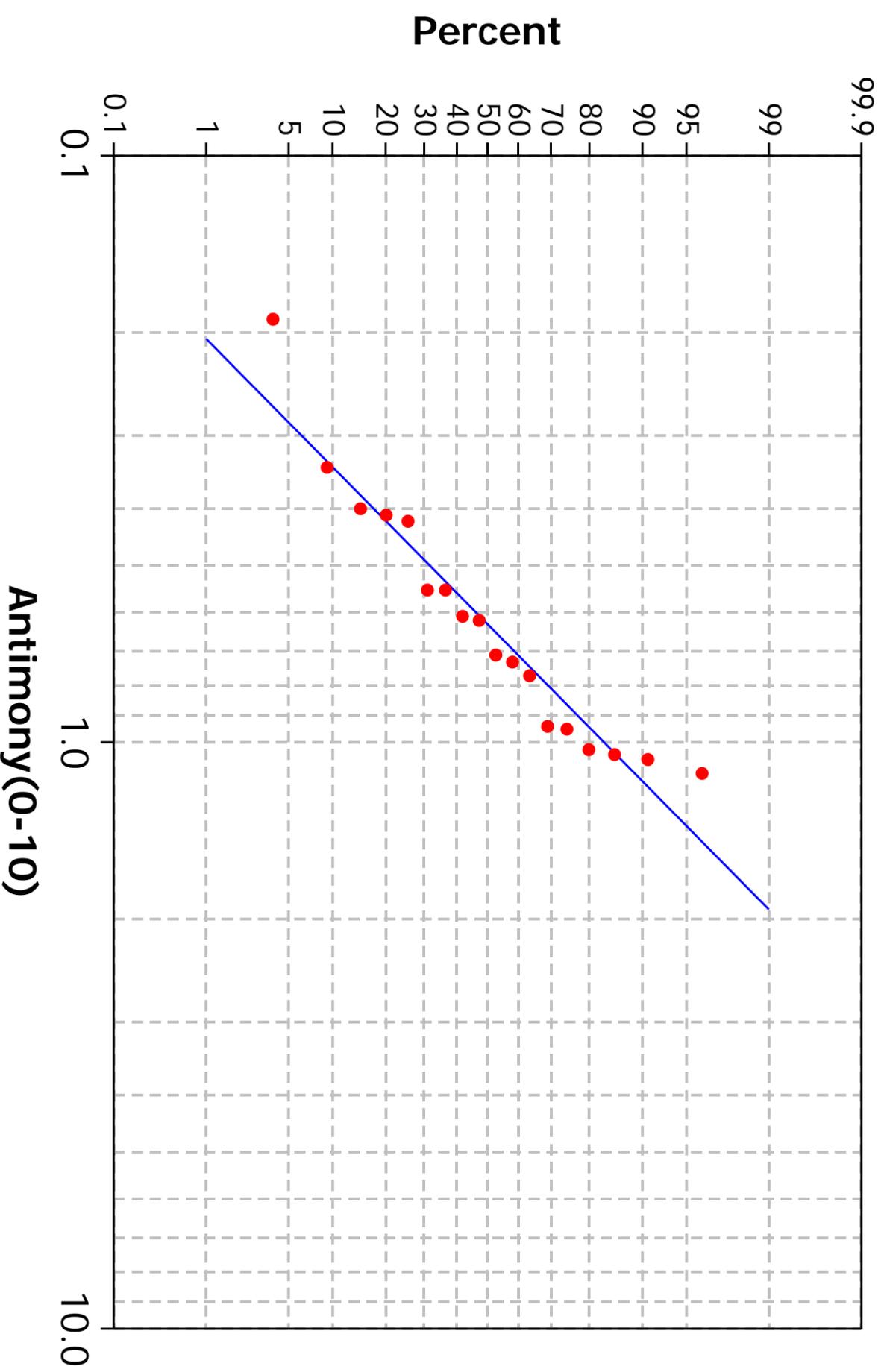


Loc	-0.6585
Scale	0.3606
N	24
AD	0.611
P-Value	0.100

### Probability Plot of Antimony(0-10)

Lognormal

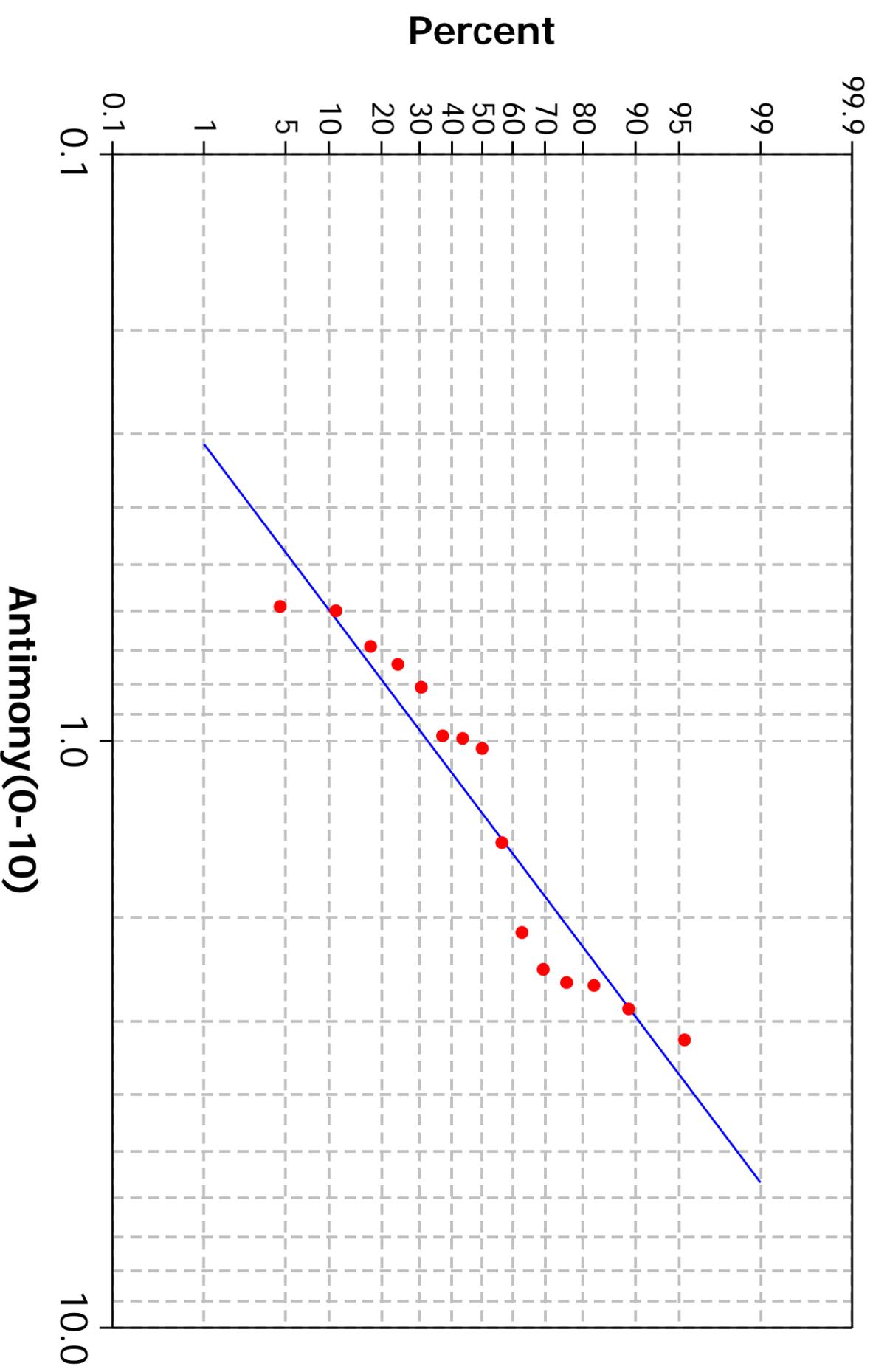
GIS\_ID = 24612 NEPTUNE AVE



### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24627 MARBELLA AVE

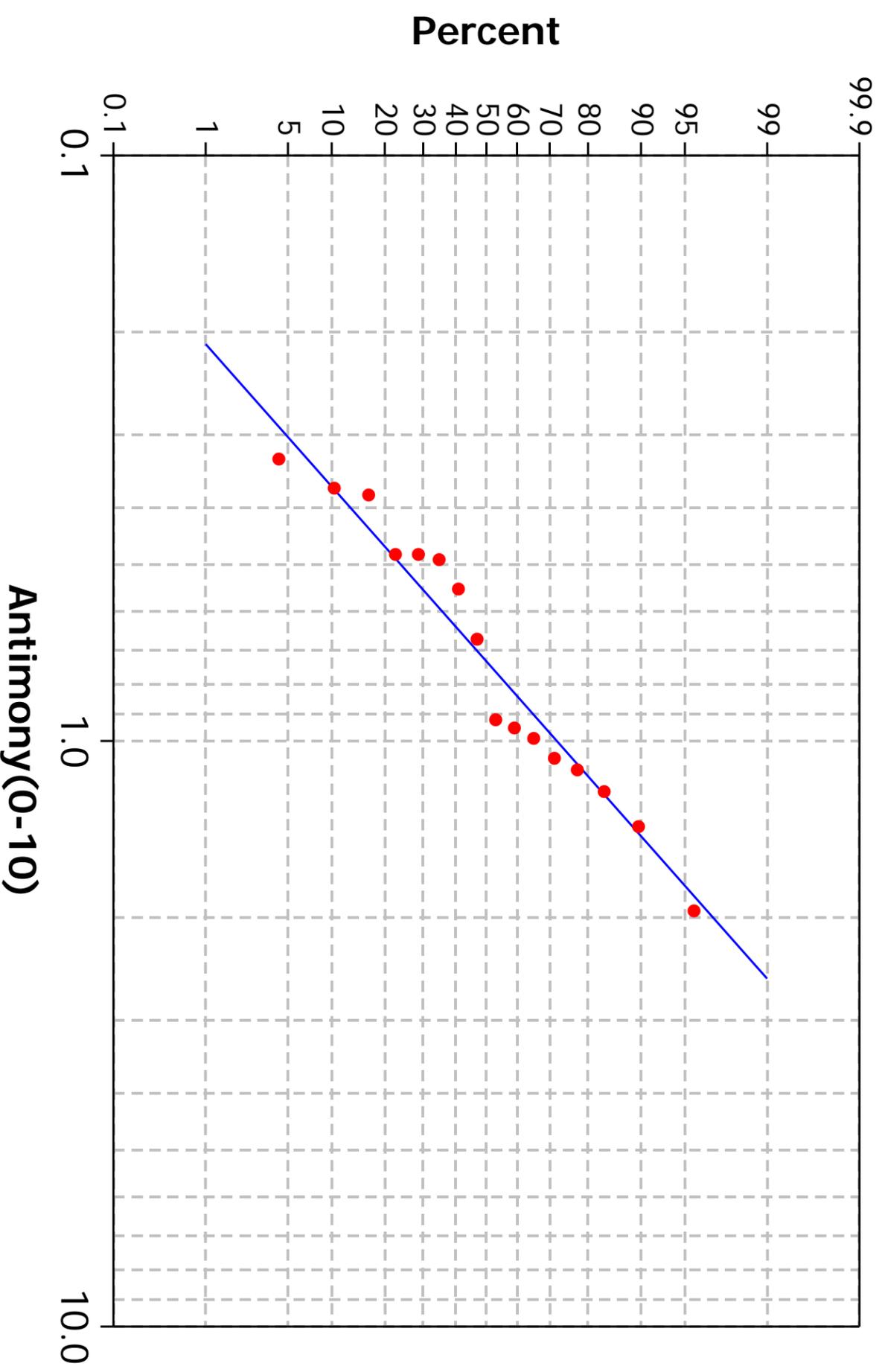


Loc	0.2836
Scale	0.6228
N	15
AD	0.673
P-Value	0.063

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24629 NEPTUNE AVE

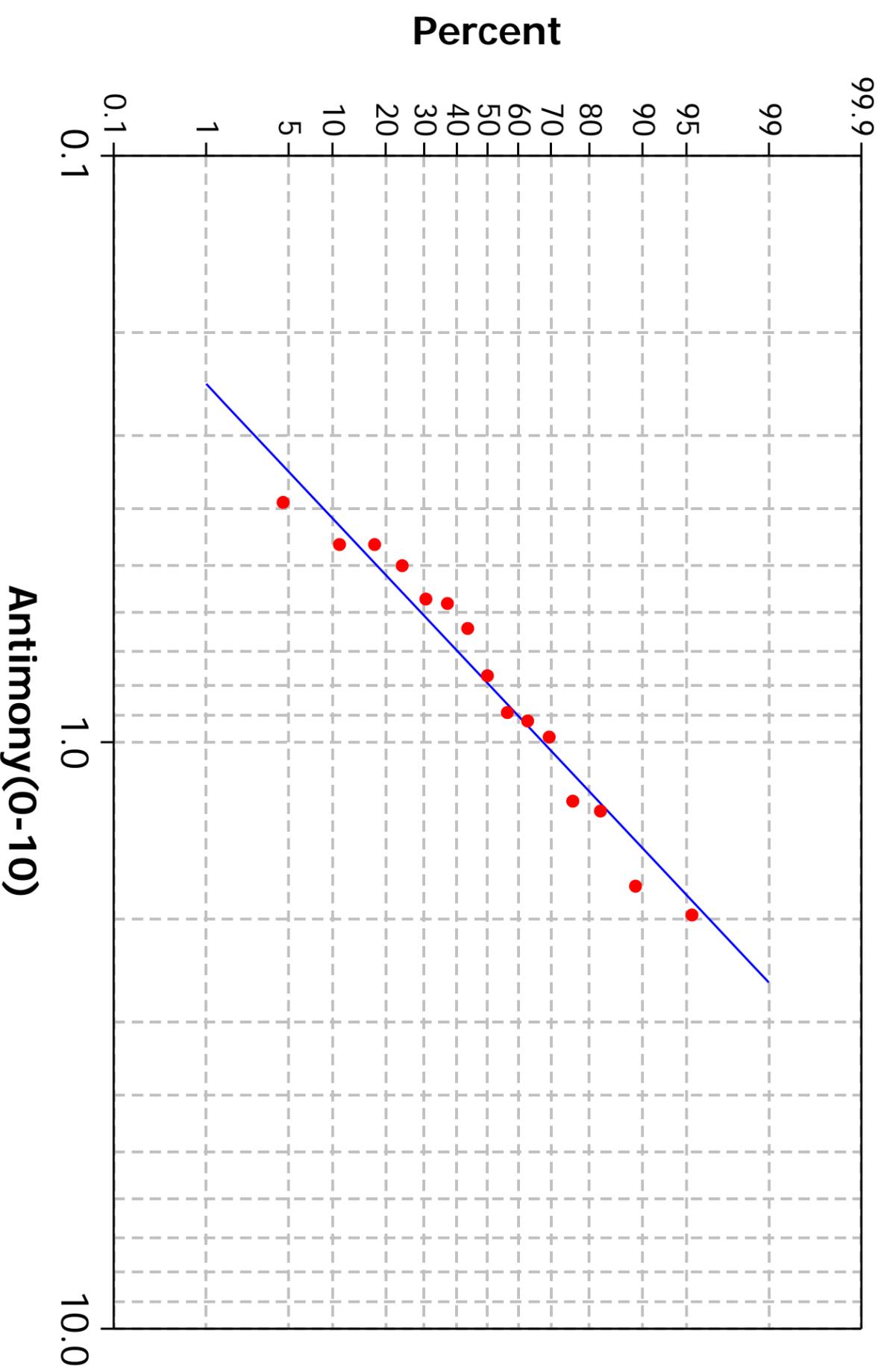


Loc	-0.3132
Scale	0.5363
N	16
AD	0.397
P-Value	0.327

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24632 NEPTUNE AVE

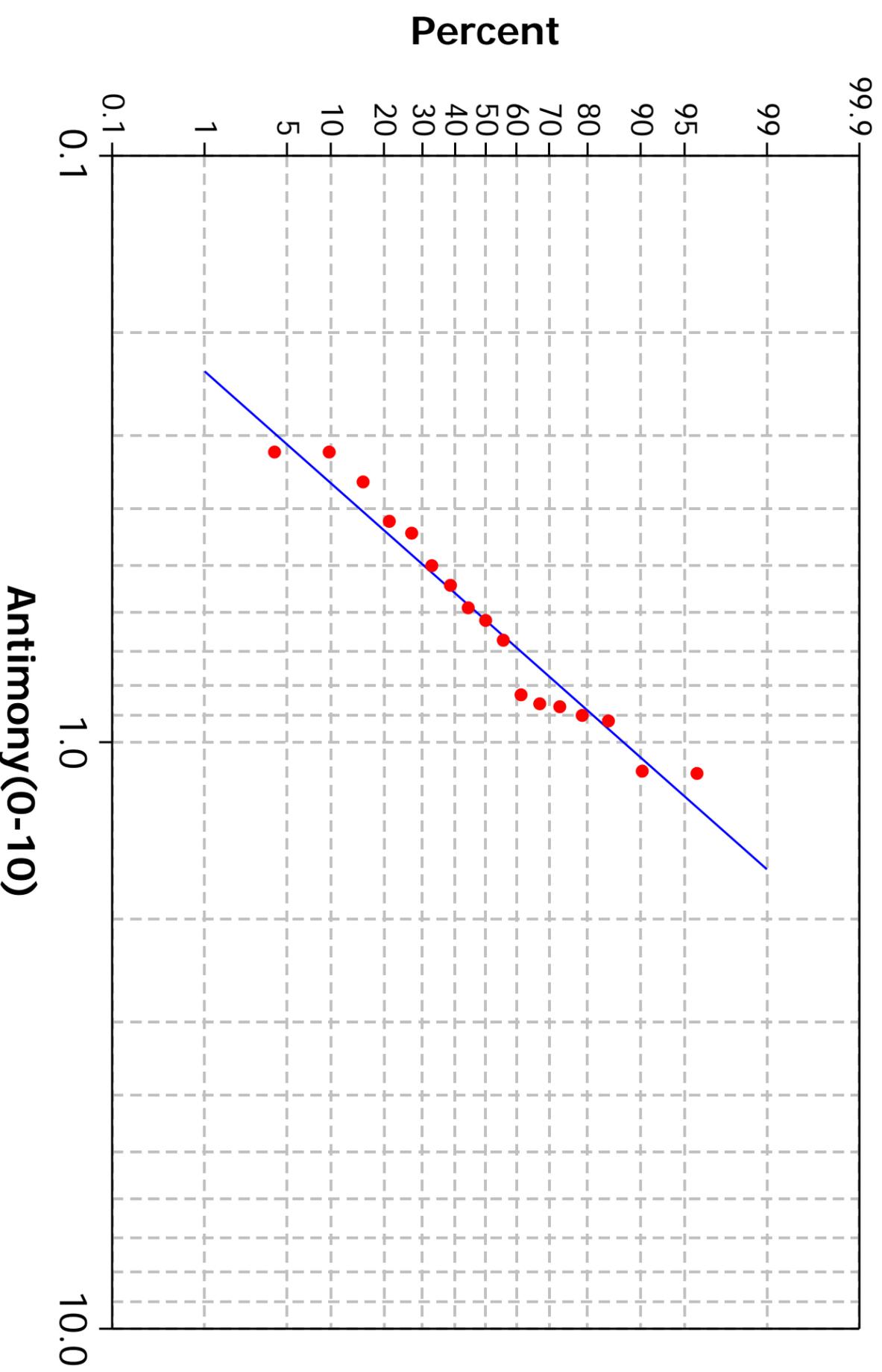


Loc	-0.2319
Scale	0.5052
N	15
AD	0.287
P-Value	0.571

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24706 MARBELLA AVE

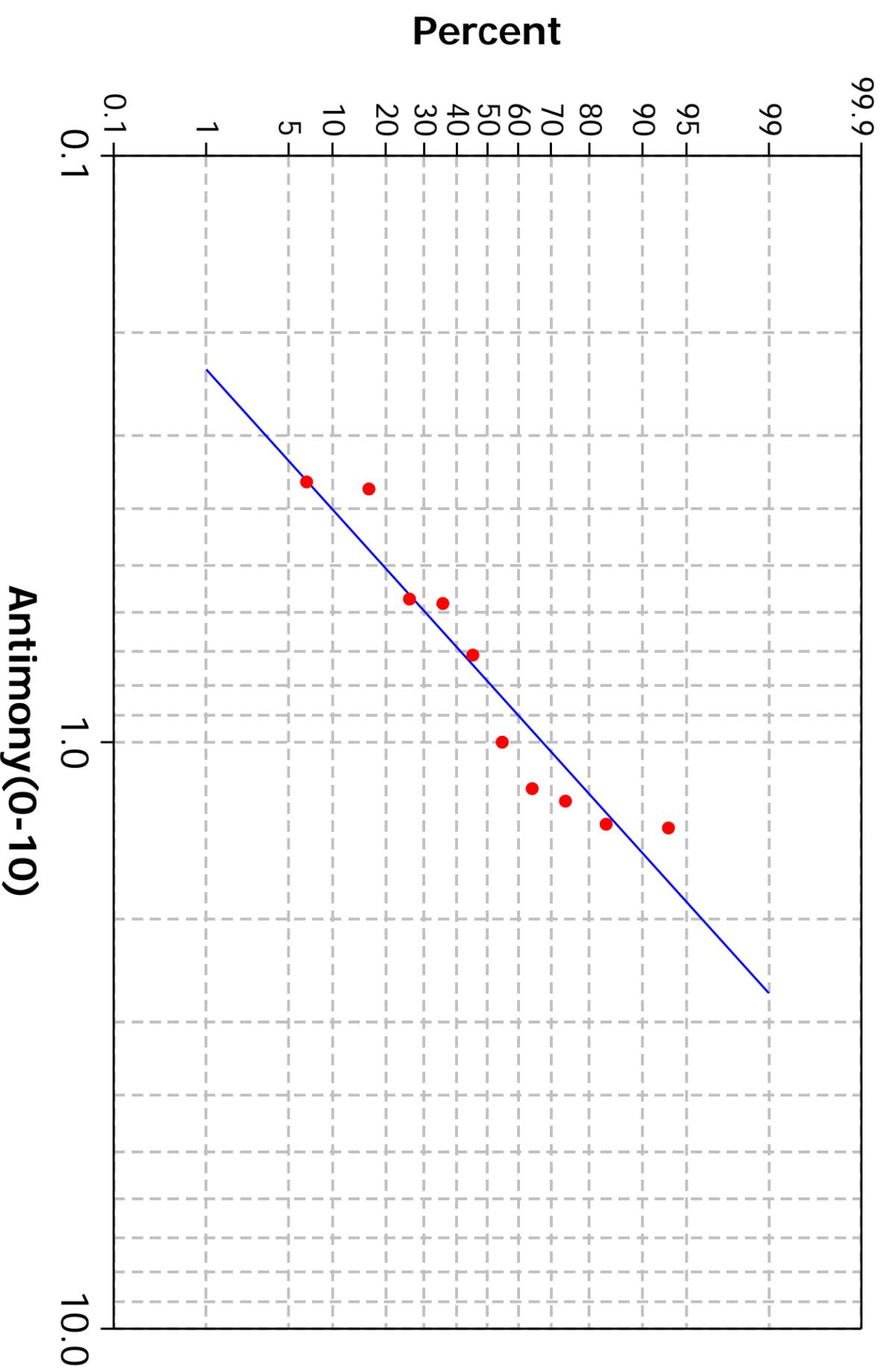


Loc	-0.4785
Scale	0.4202
N	17
AD	0.355
P-Value	0.419

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24715 NEPTUNE AVE

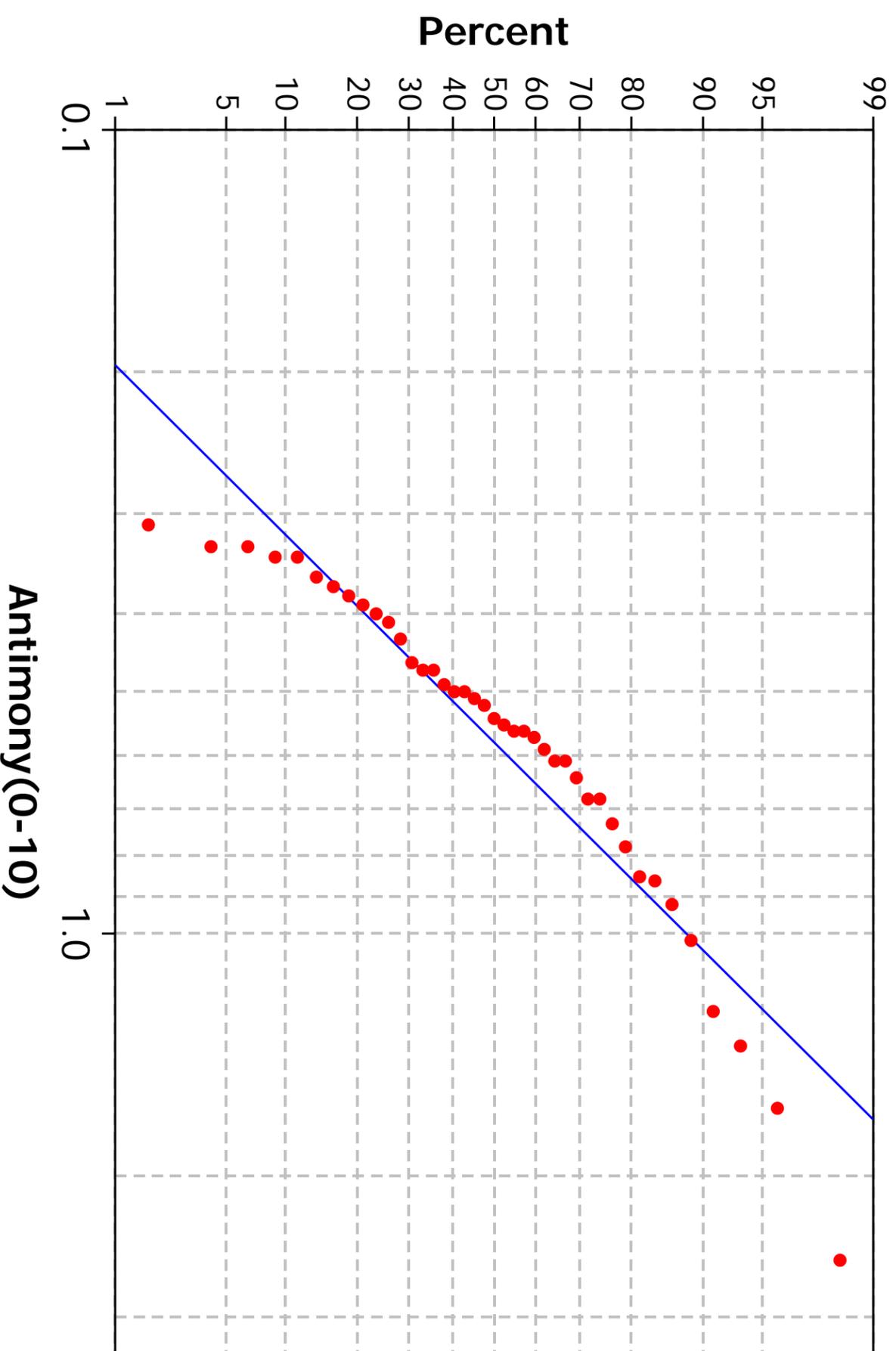


Loc	-0.2393
Scale	0.5263
N	10
AD	0.450
P-Value	0.216

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24718 NEPTUNE AVE

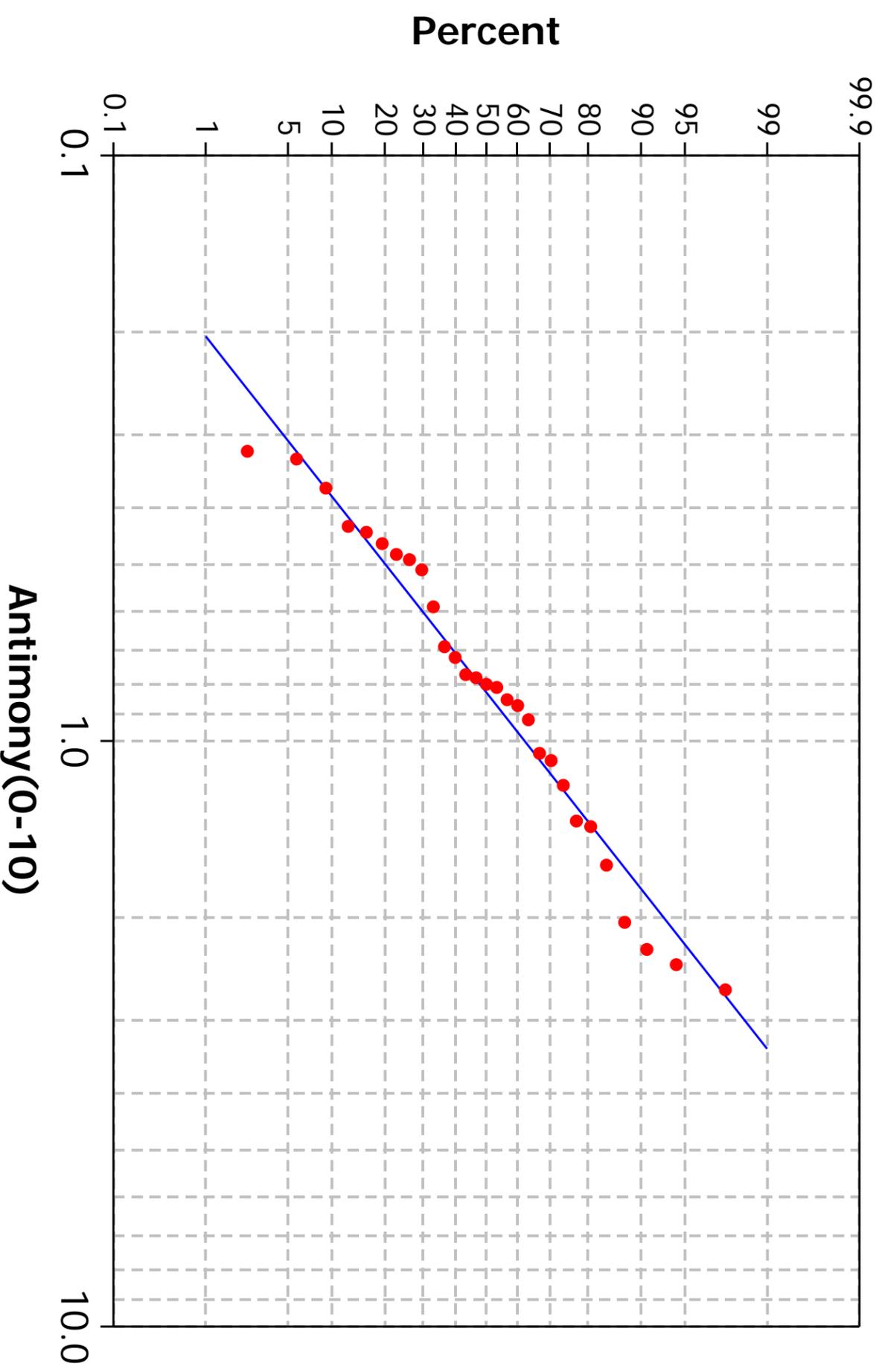


Loc	-0.5479
Scale	0.4645
N	41
AD	0.945
P-Value	0.015

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24726 MARBELLA AVE

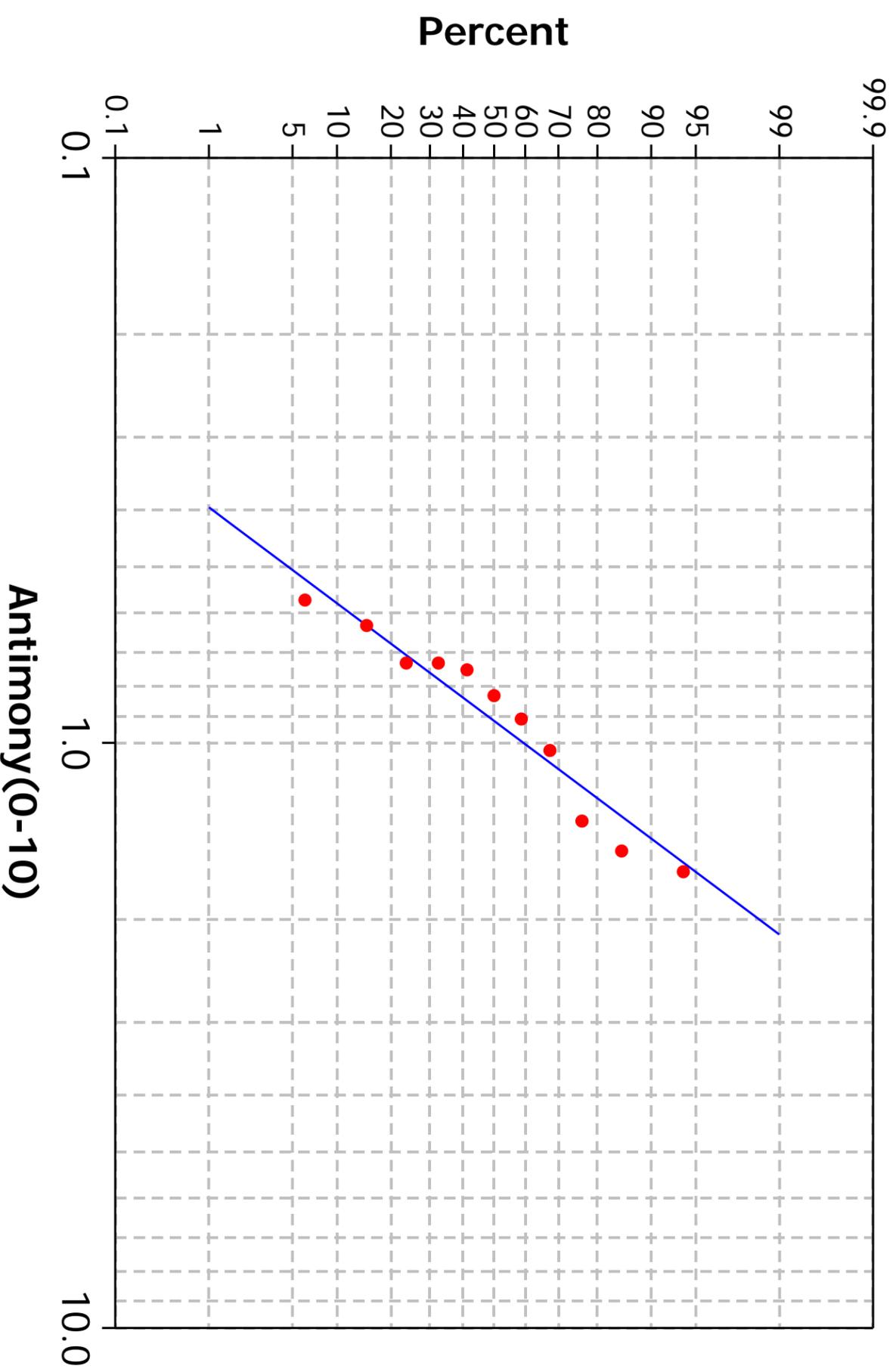


Loc	-0.1907
Scale	0.6022
N	29
AD	0.320
P-Value	0.515

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24735 NEPTUNE AVE

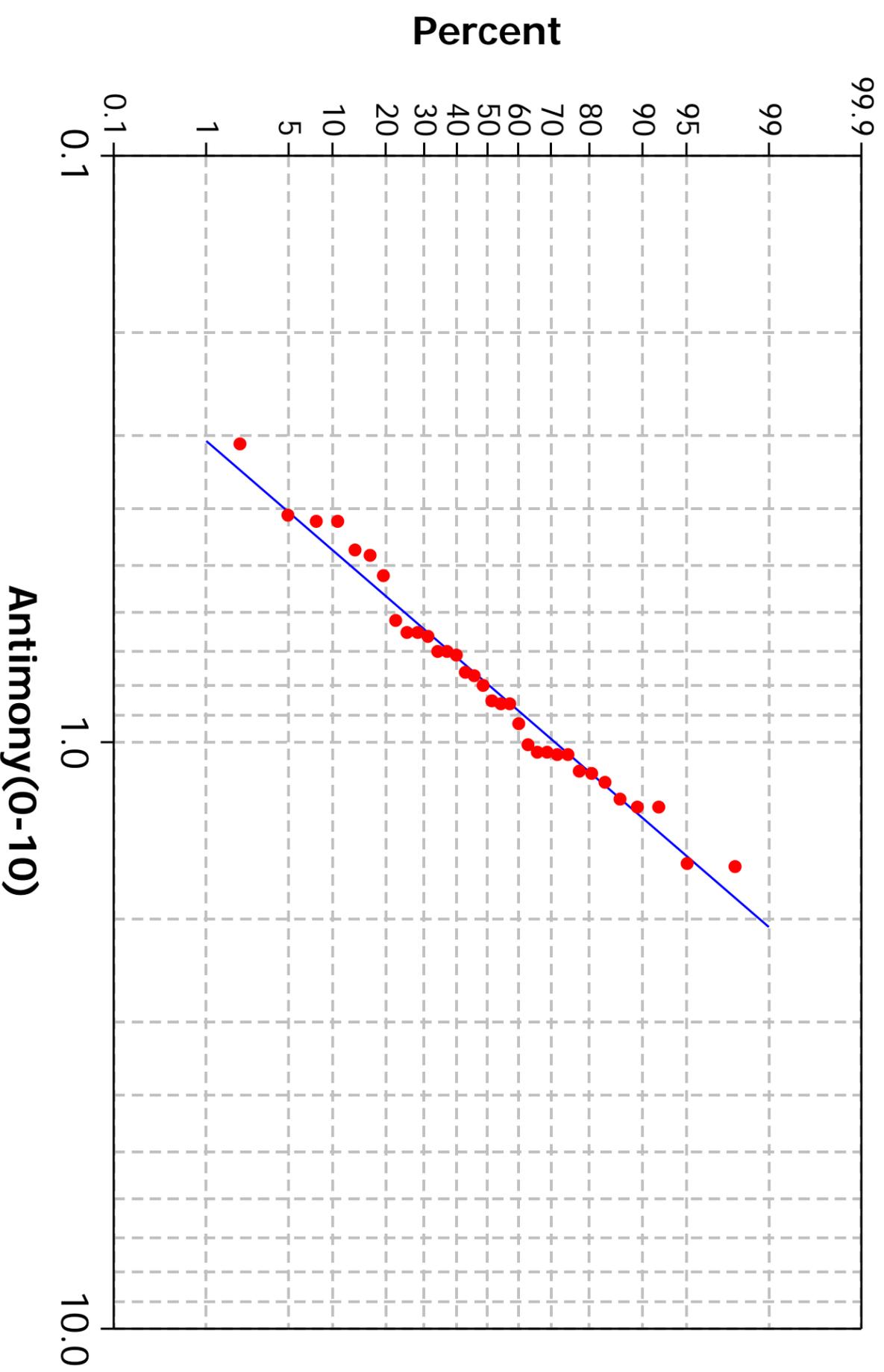


Loc	-0.08662
Scale	0.3612
N	11
AD	0.393
P-Value	0.313

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24749 RAVENNA AVE

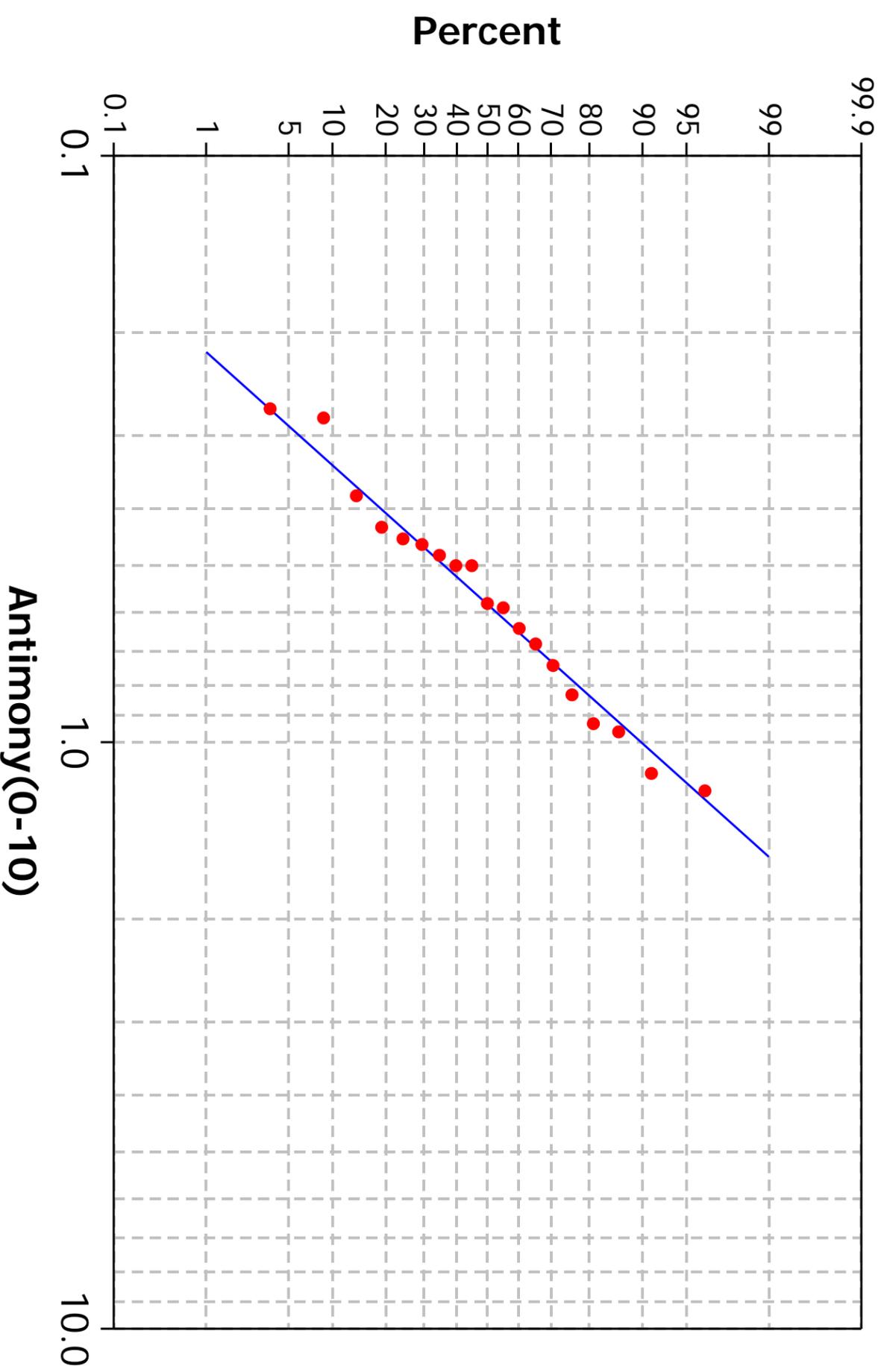


Loc	-0.2286
Scale	0.4102
N	34
AD	0.322
P-Value	0.515

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 24812 PANAMMA AVE

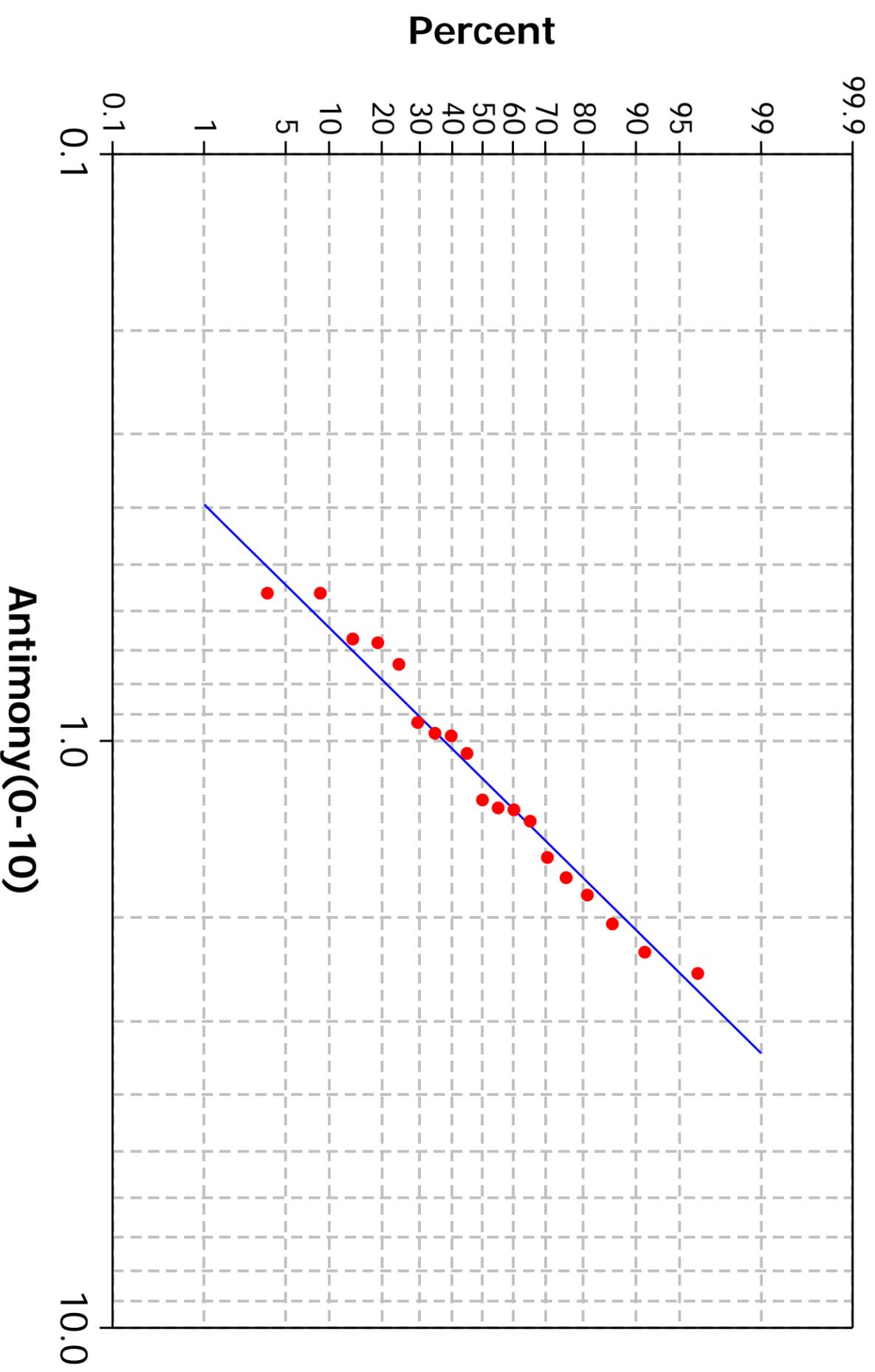


Loc	-0.5411
Scale	0.4260
N	19
AD	0.191
P-Value	0.885

### Probability Plot of Antimony(0-10)

Lognormal

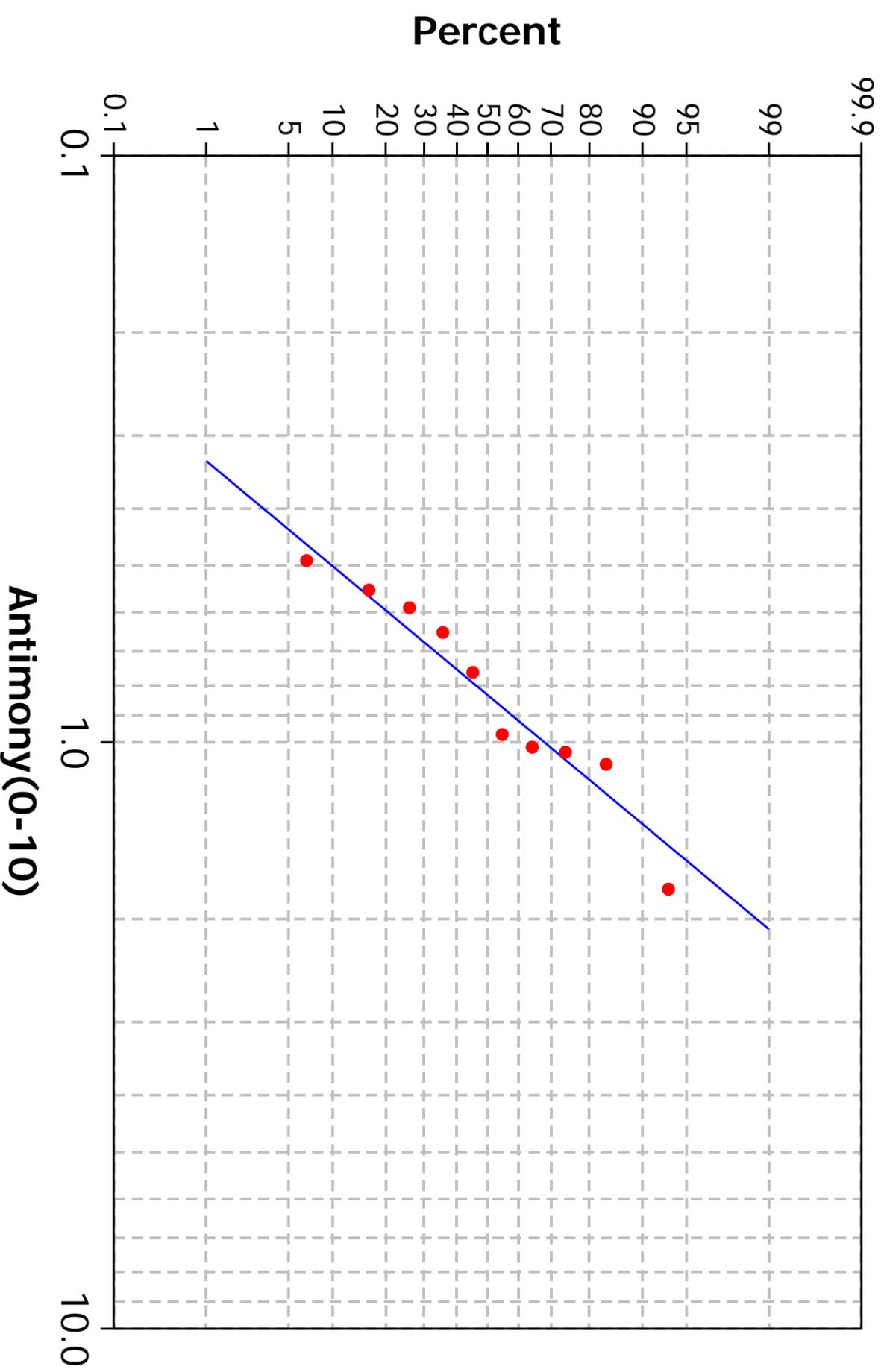
GIS\_ID = 24815 NEPTUNE AVE



### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 321 244TH ST

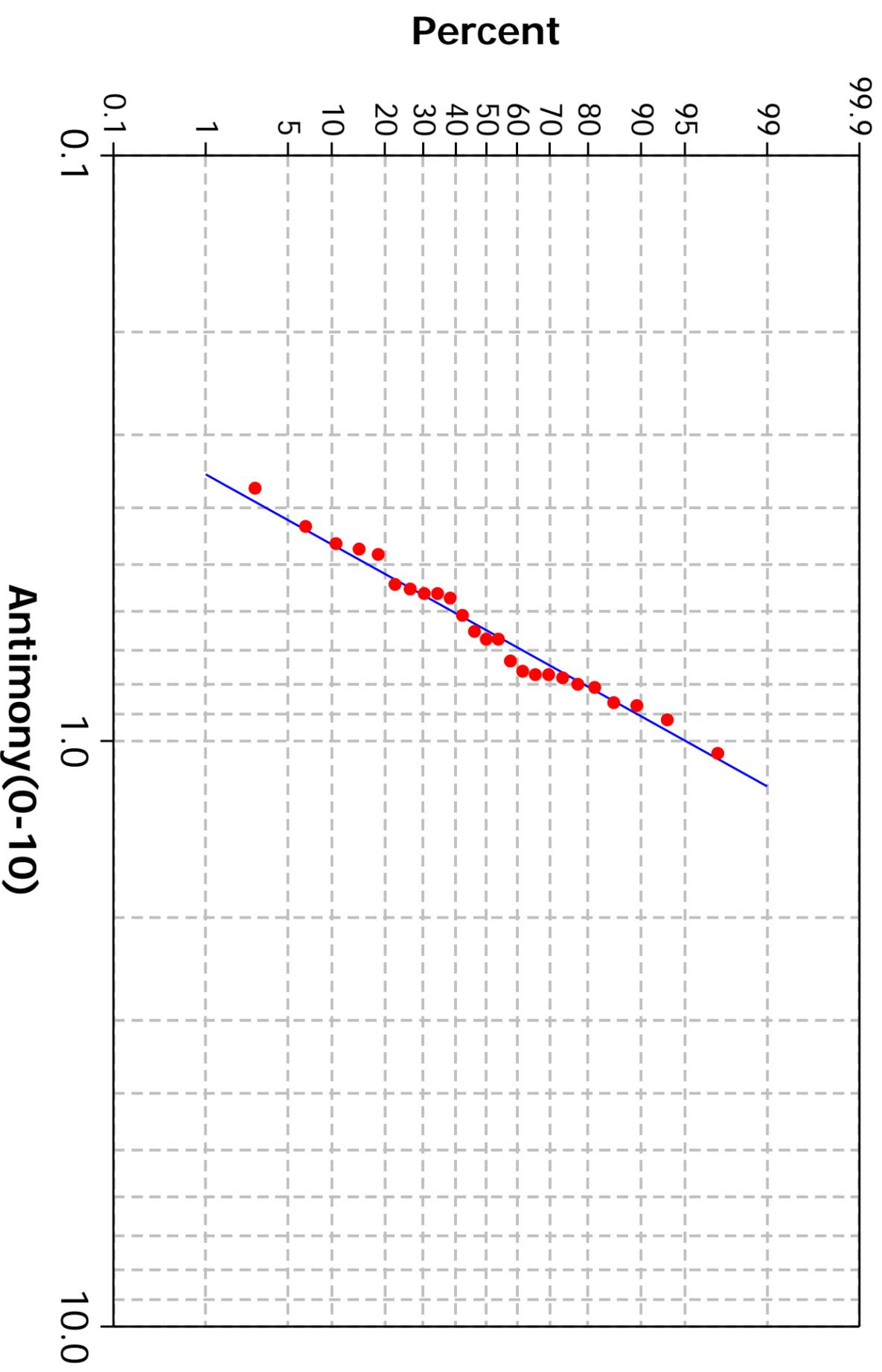


Loc	-0.1853
Scale	0.3951
N	10
AD	0.292
P-Value	0.531

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 344 249TH ST

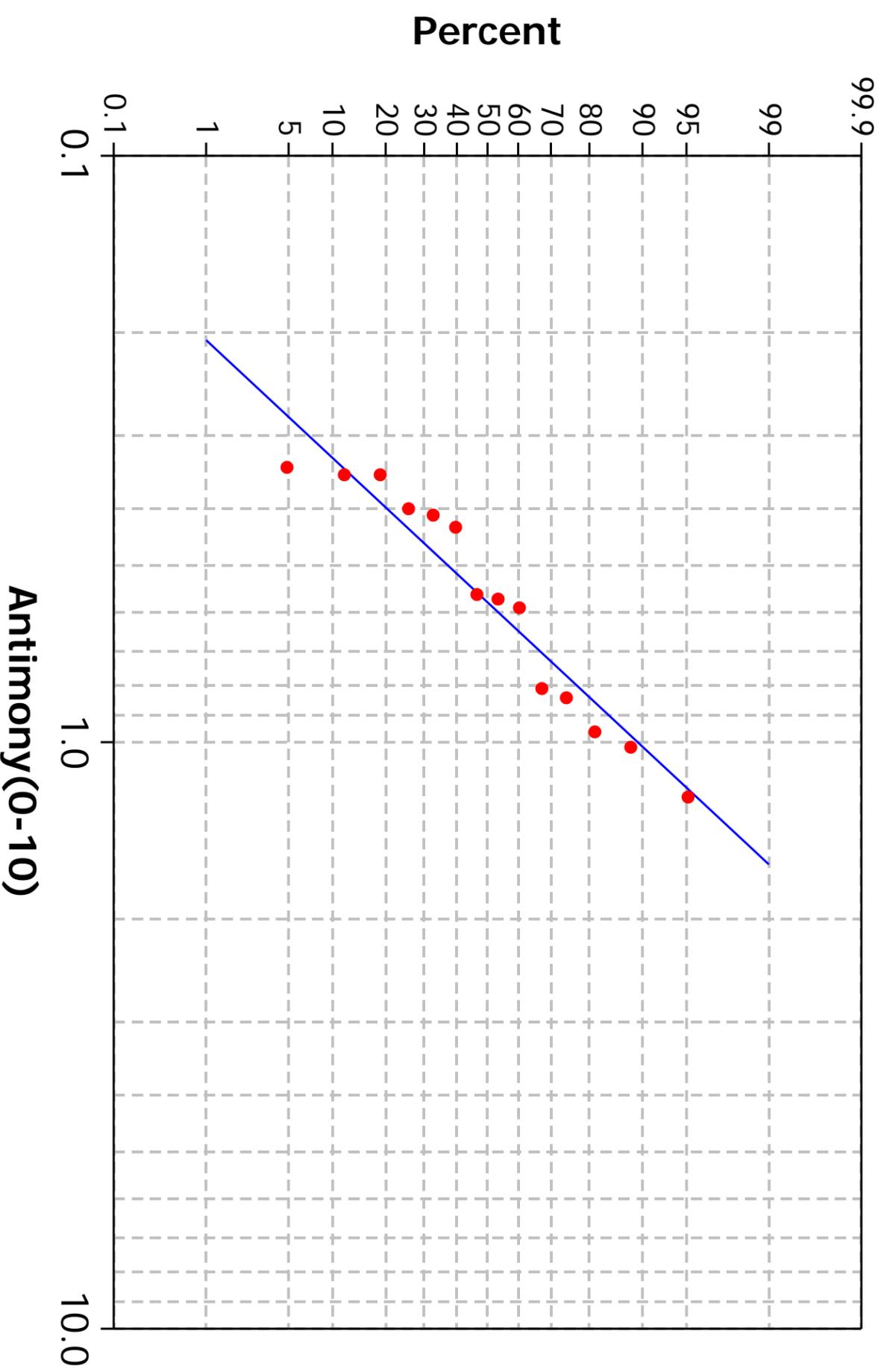


Loc	-0.4354
Scale	0.2636
N	25
AD	0.297
P-Value	0.563

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 357 244TH ST

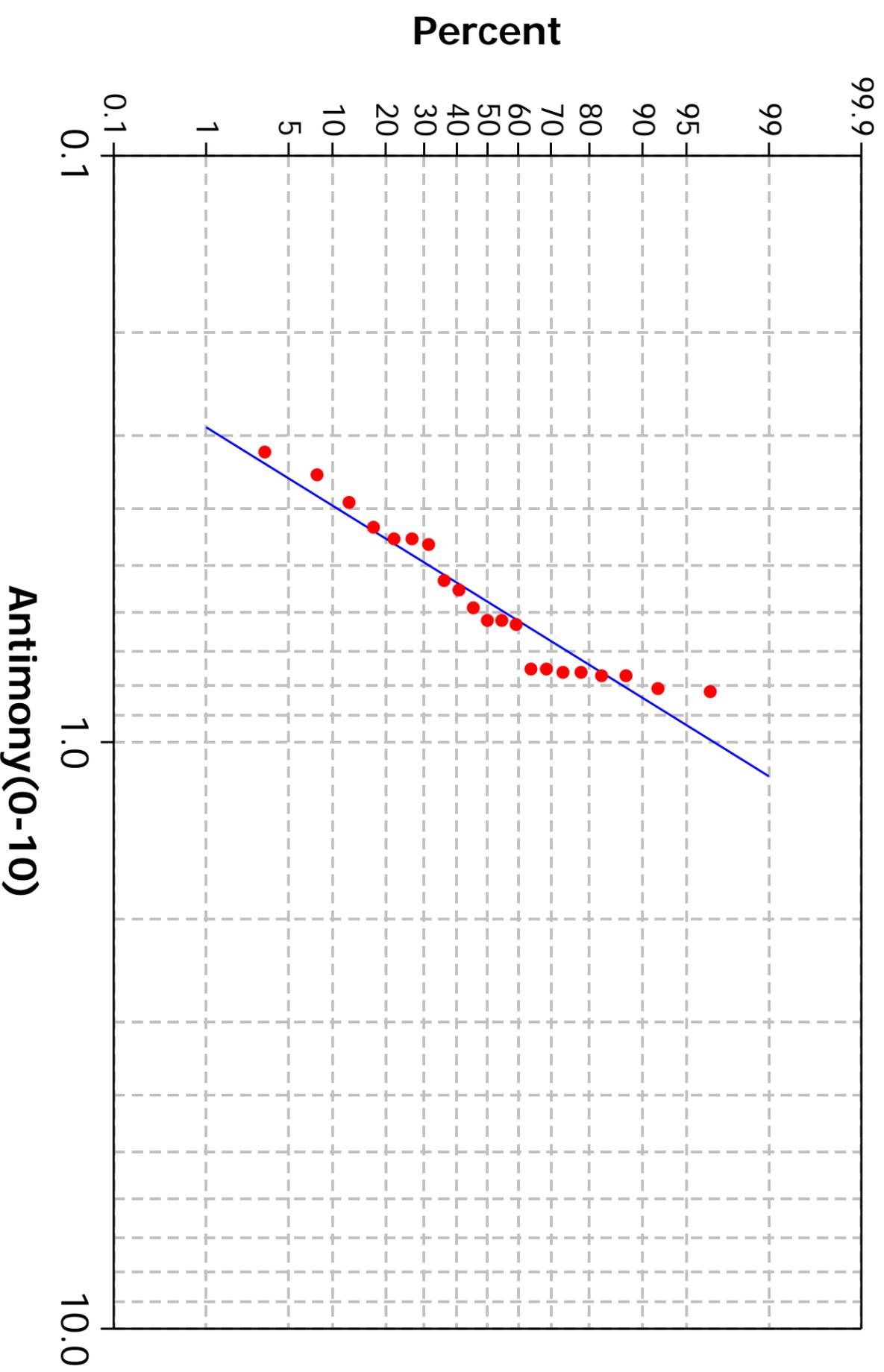


Loc	-0.5493
Scale	0.4423
N	14
AD	0.462
P-Value	0.218

### Probability Plot of Antimony(0-10)

Lognormal

GIS\_ID = 378 249TH ST



Loc	-0.5516
Scale	0.2945
N	21
AD	0.689
P-Value	0.061

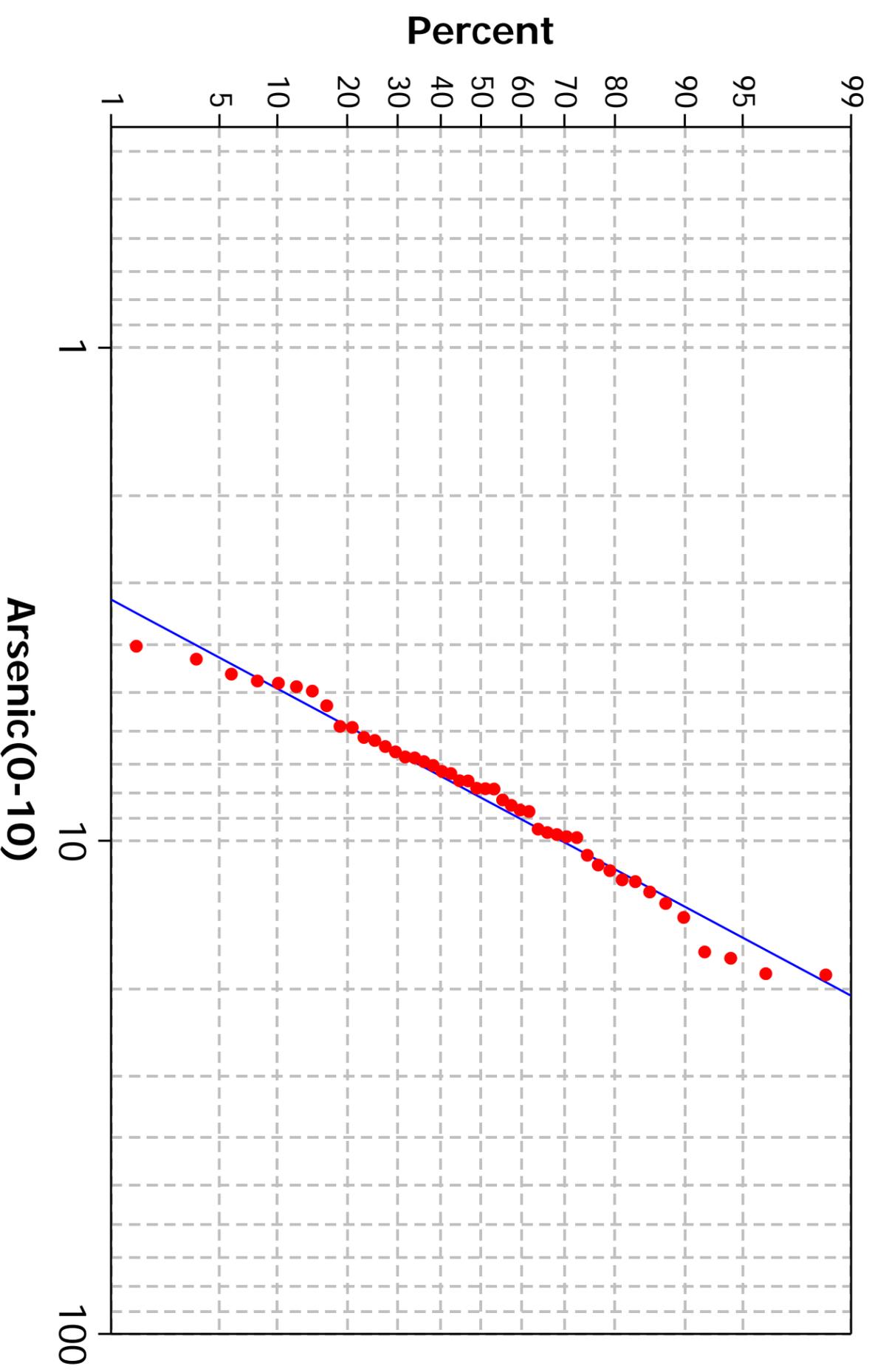
**APPENDIX 7.2**

**Probability Plots of Arsenic**

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 24403 NEPTUNE AVE

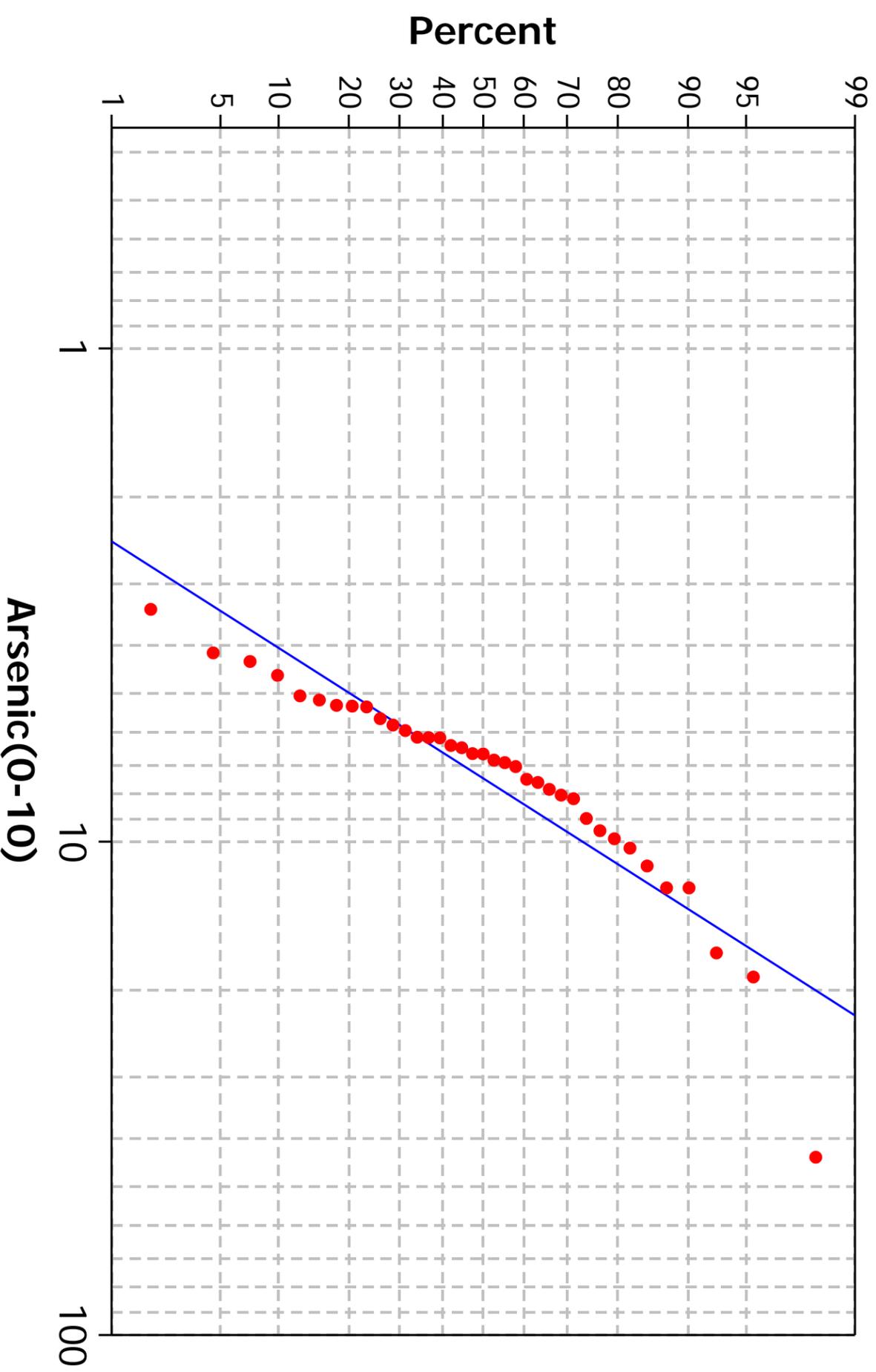


Loc	2.101
Scale	0.3975
N	46
AD	0.281
P-Value	0.627

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 24411 PANAMA AVE

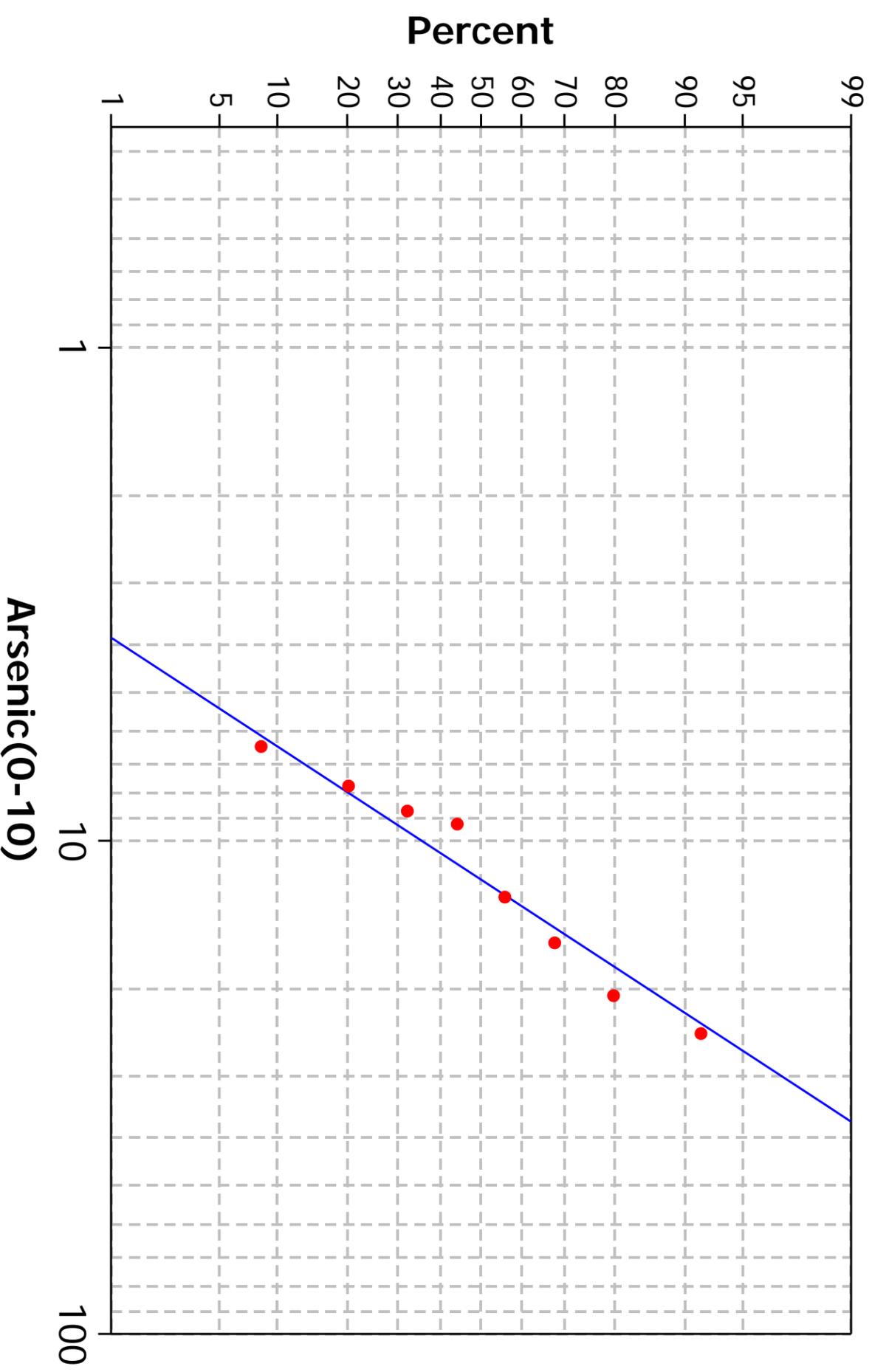


Loc	2.007
Scale	0.4755
N	37
AD	1.158
P-Value	<0.005

### Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 24417 MARBELLA AVE

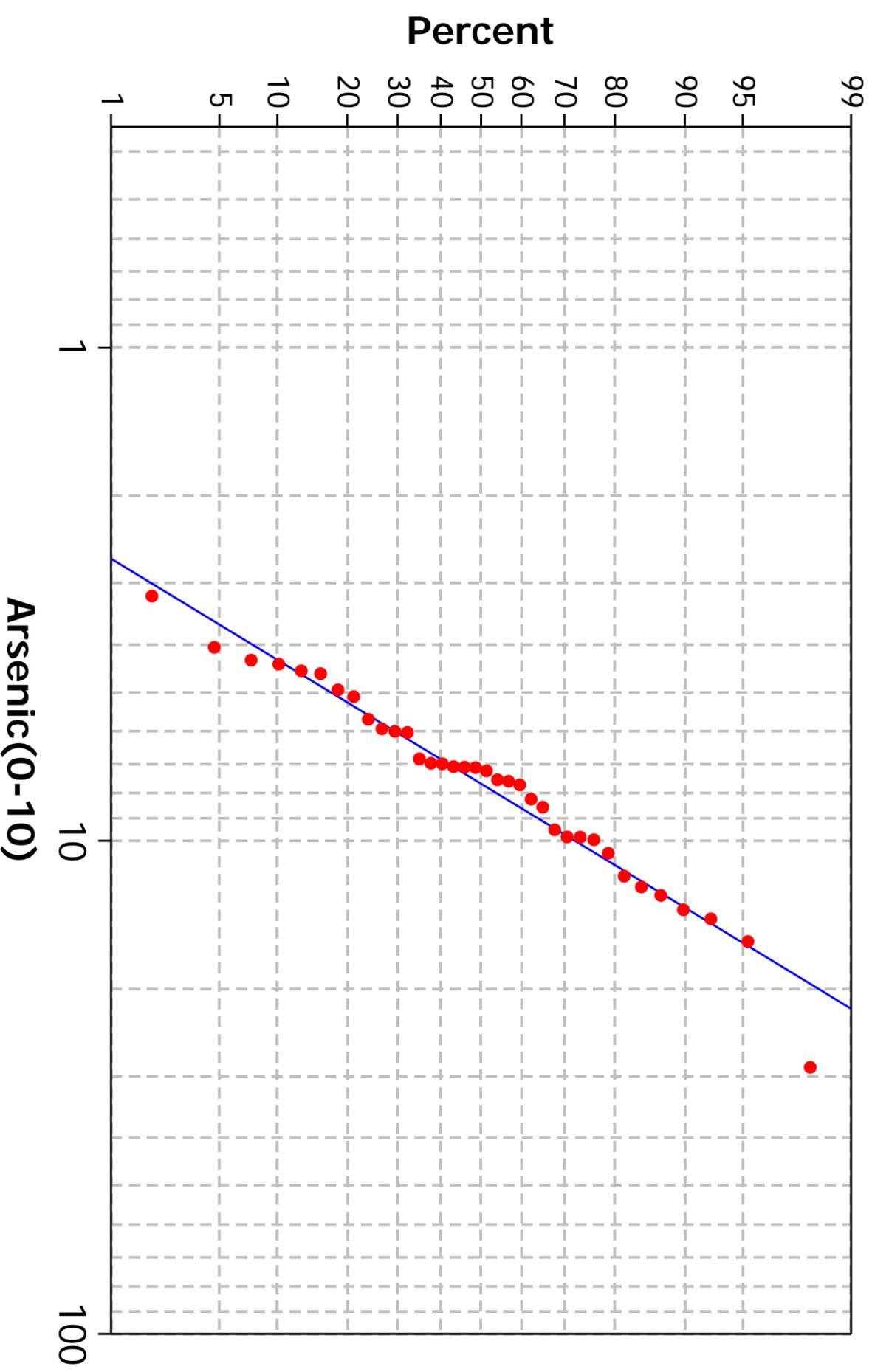


Loc	2.484
Scale	0.4856
N	8
AD	0.247
P-Value	0.647

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 24506 MARBELLA AVE

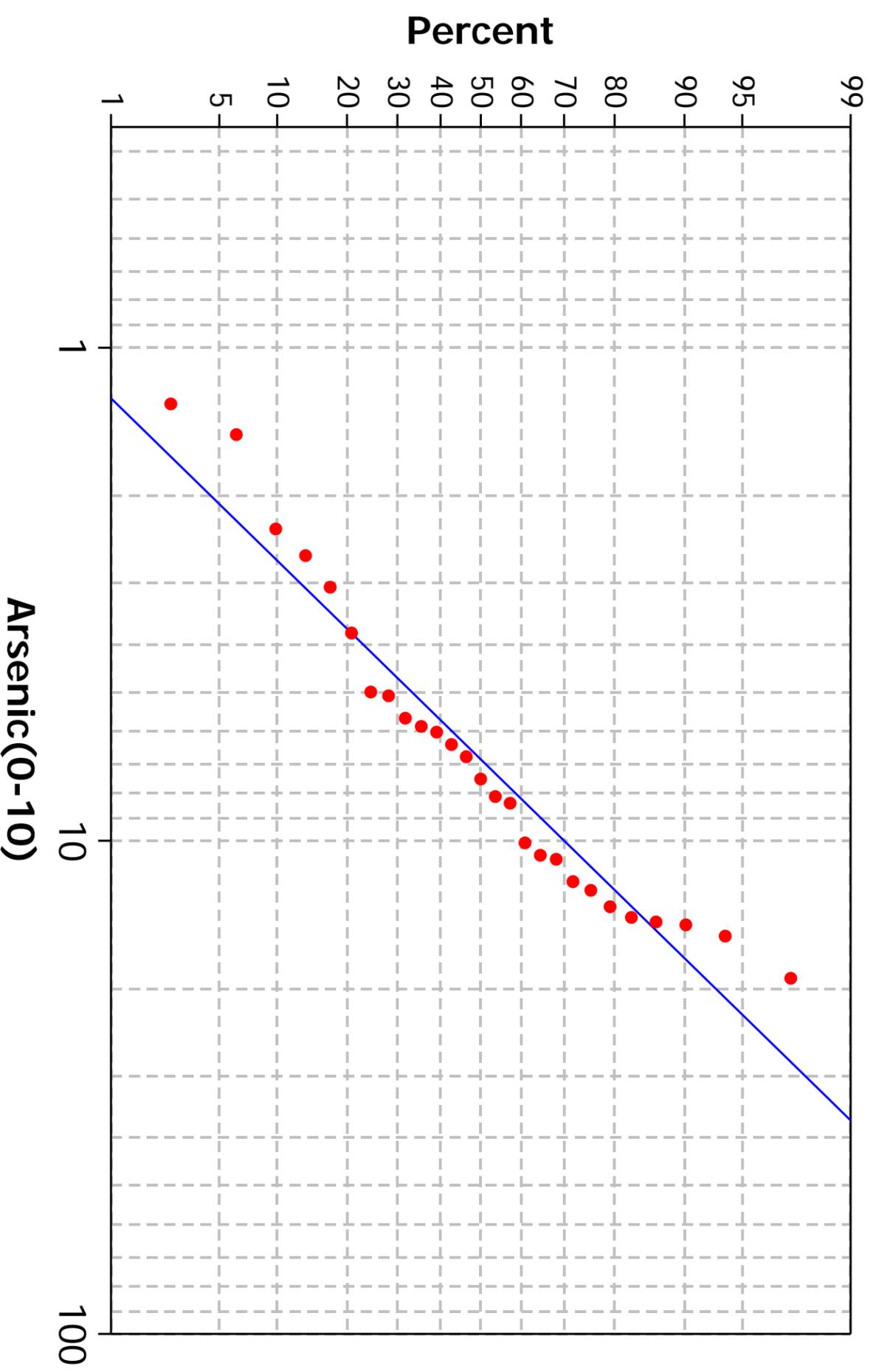


Loc	2.036
Scale	0.4517
N	36
AD	0.300
P-Value	0.565

### Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 24522 MARBELLA AVE

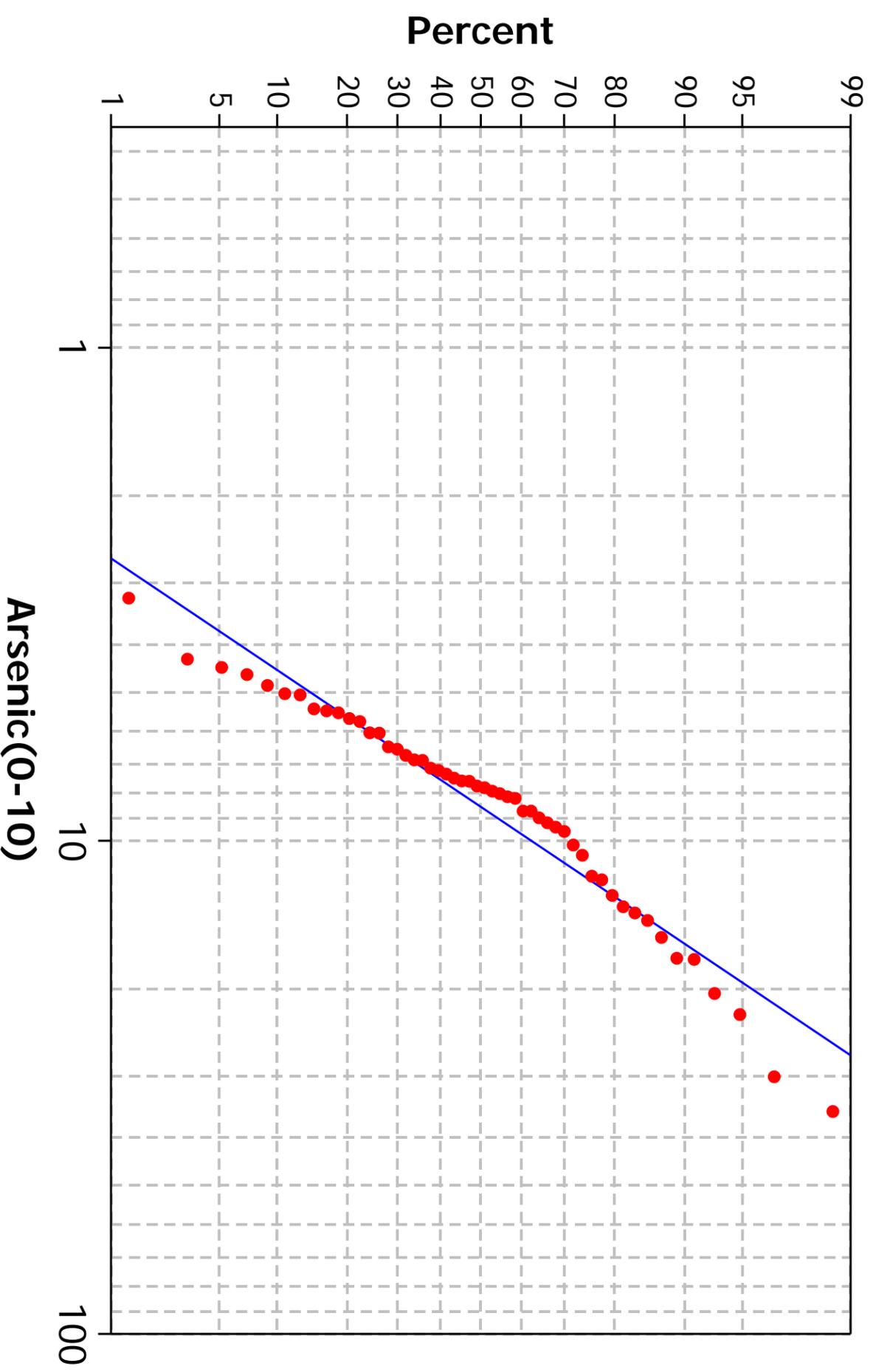


Loc	1.922
Scale	0.7246
N	27
AD	0.552
P-Value	0.140

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 24613 MARBELLA AVE

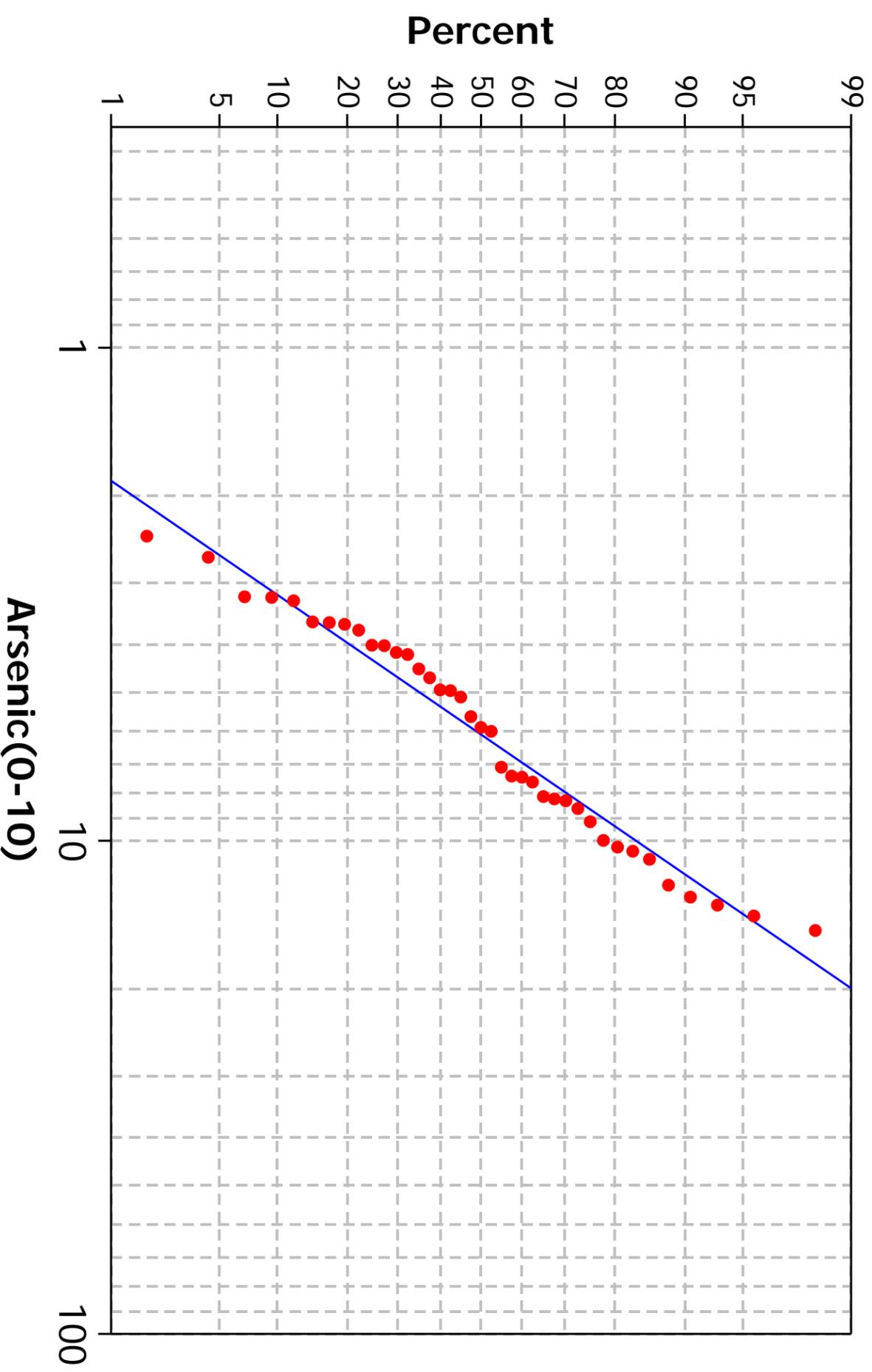


Loc	2.144
Scale	0.4987
N	52
AD	0.876
P-Value	0.023

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 24613 NEPTUNE AVE

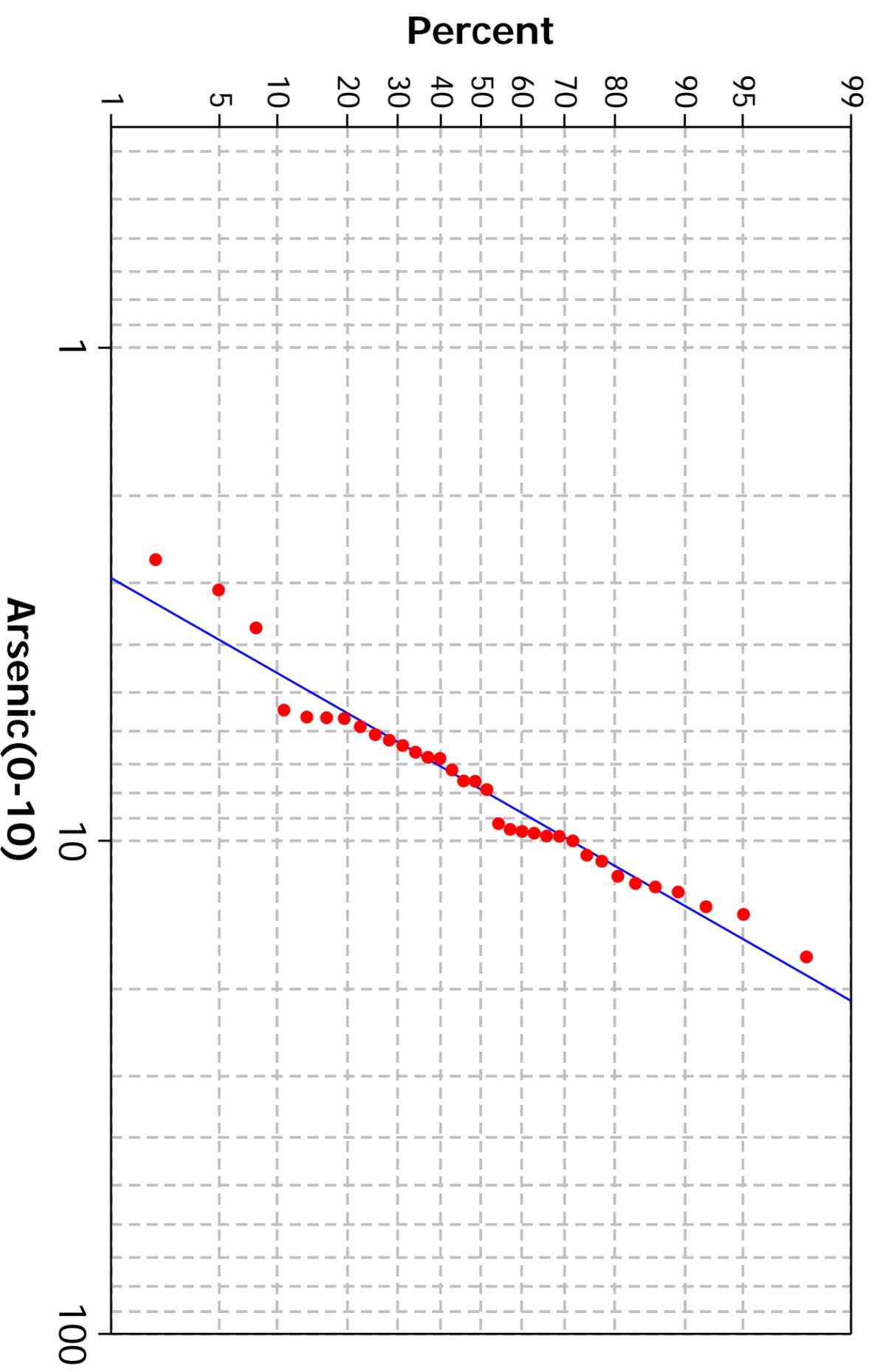


Loc	1.806
Scale	0.5092
N	39
AD	0.500
P-Value	0.196

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 24617 MARBELLA AVE

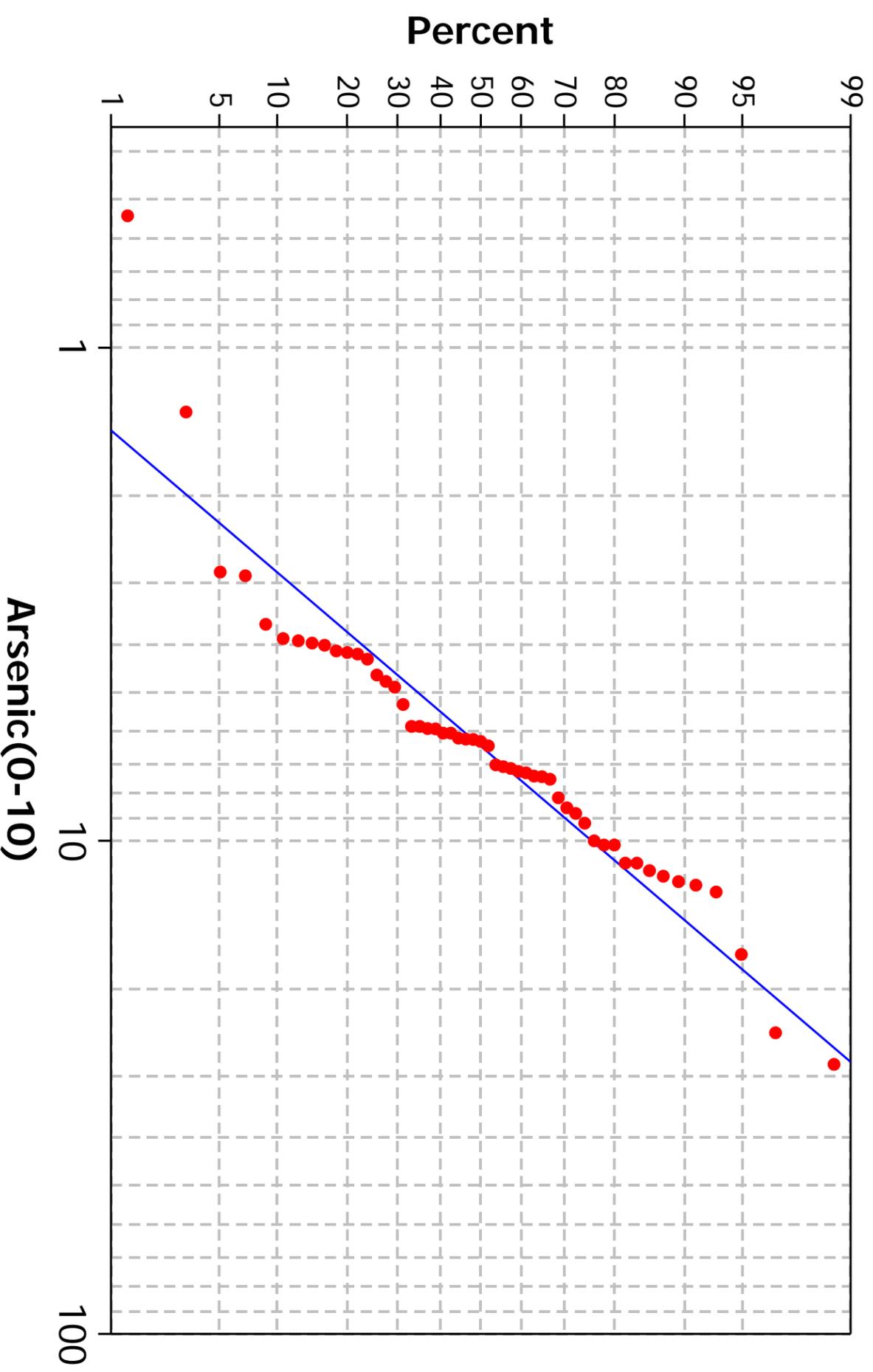


Loc	2.063
Scale	0.4242
N	34
AD	0.433
P-Value	0.287

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 24622 MARBELLA AVE

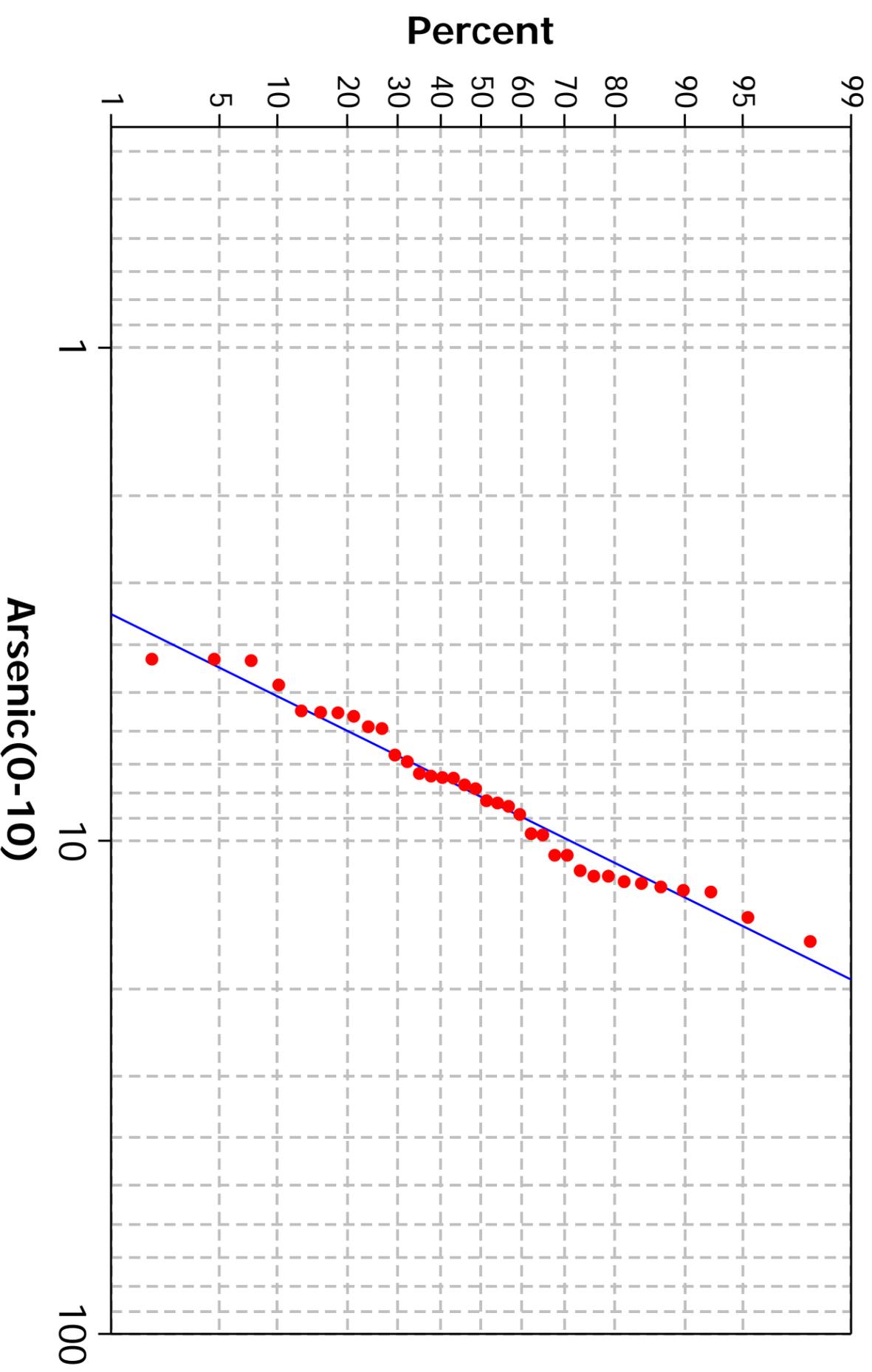


Loc	1.860
Scale	0.6336
N	53
AD	0.997
P-Value	0.012

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 24623 NEPTUNE AVE

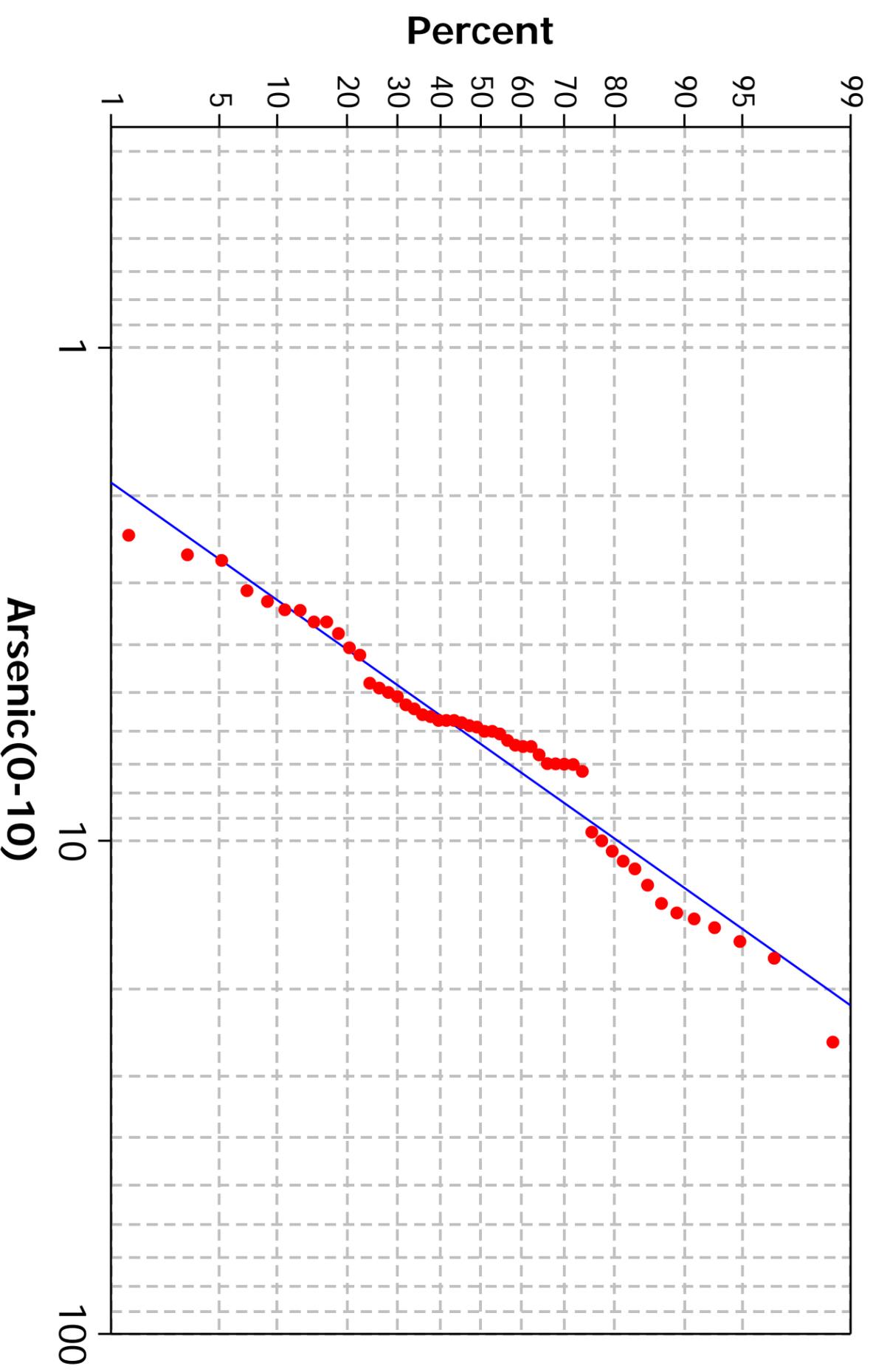


Loc	2.097
Scale	0.3667
N	36
AD	0.432
P-Value	0.288

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 24628 MARBELLA AVE

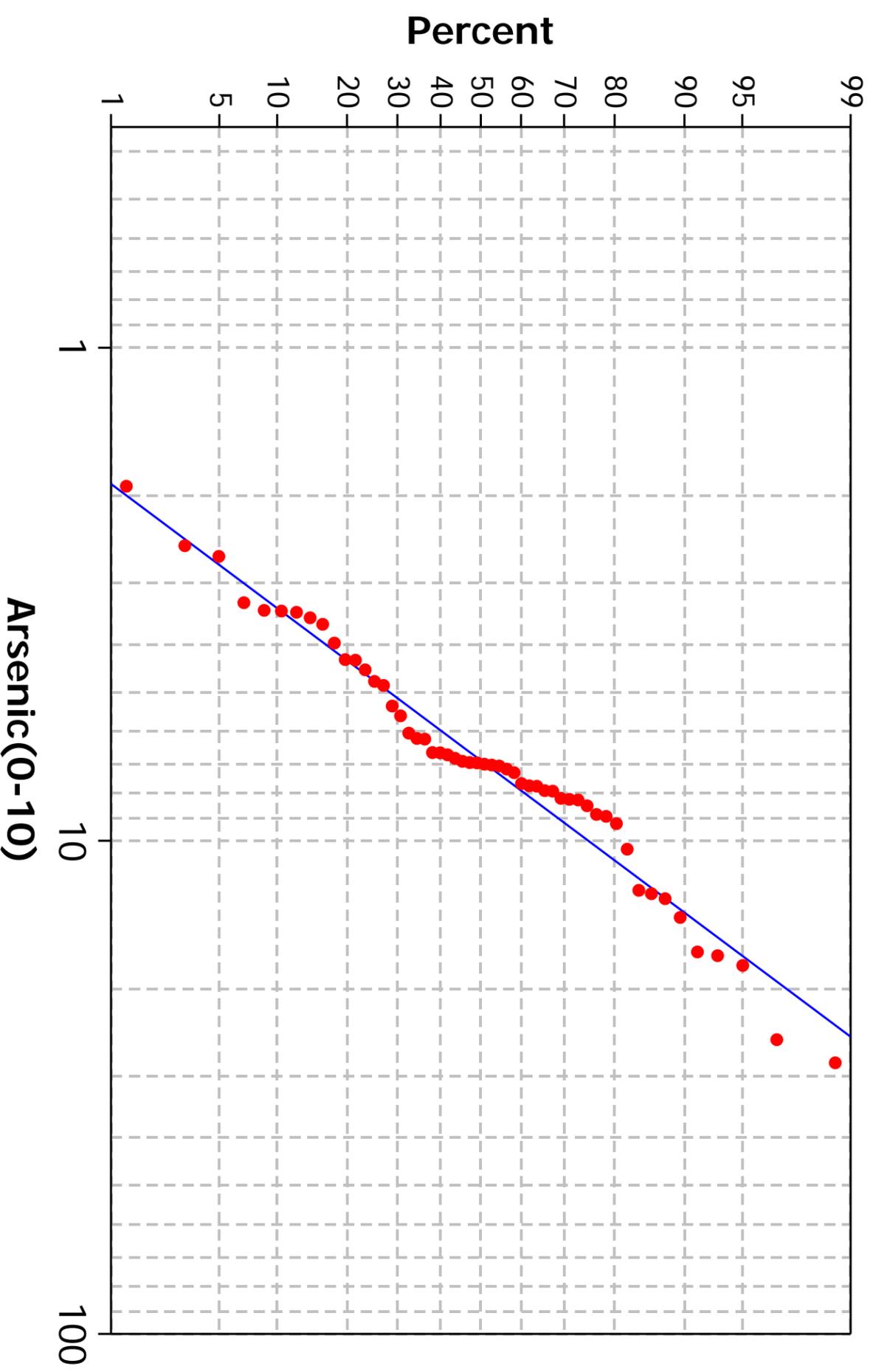


Loc	1.850
Scale	0.5246
N	52
AD	0.879
P-Value	0.023

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 305 244TH ST

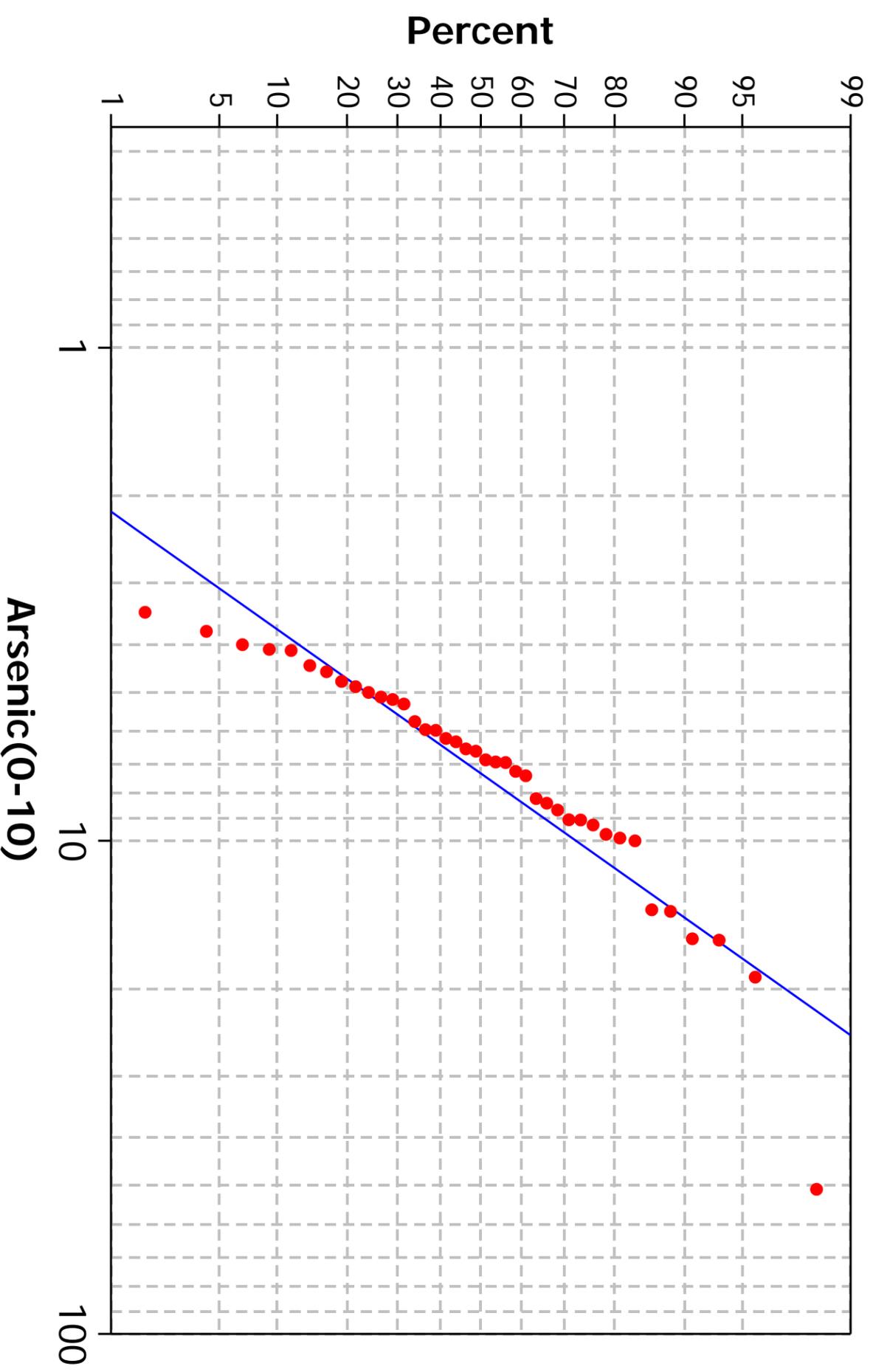


Loc	1.927
Scale	0.5545
N	54
AD	0.695
P-Value	0.066

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 321 244TH ST

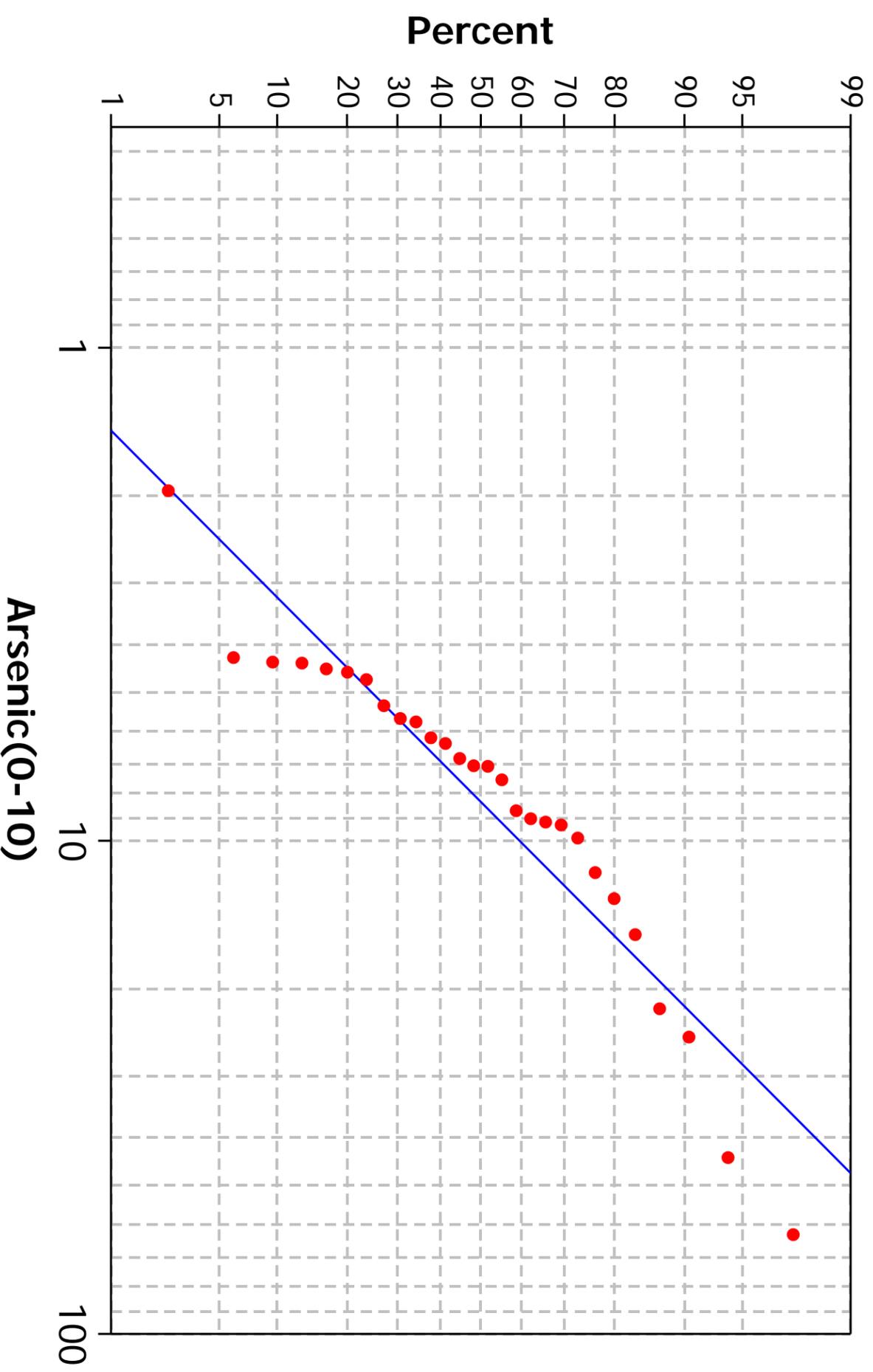


Loc	1.988
Scale	0.5253
N	40
AD	0.854
P-Value	0.026

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 331 244TH ST

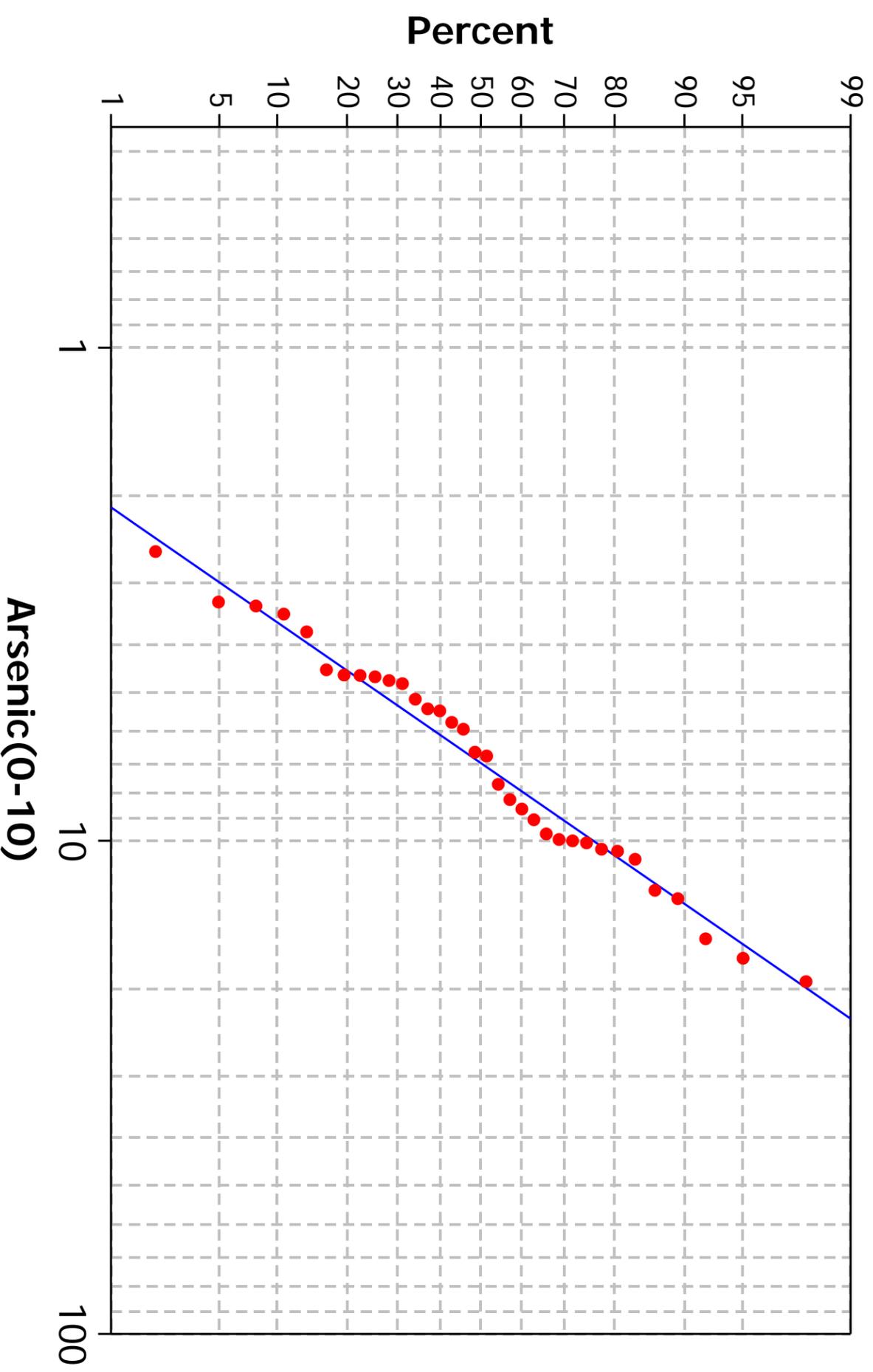


Loc	2.120
Scale	0.7451
N	28
AD	0.924
P-Value	0.016

# Probability Plot of Arsenic(0-10)

Lognormal

GIS\_ID = 337 244TH ST



Loc	1.939
Scale	0.5130
N	34
AD	0.364
P-Value	0.419

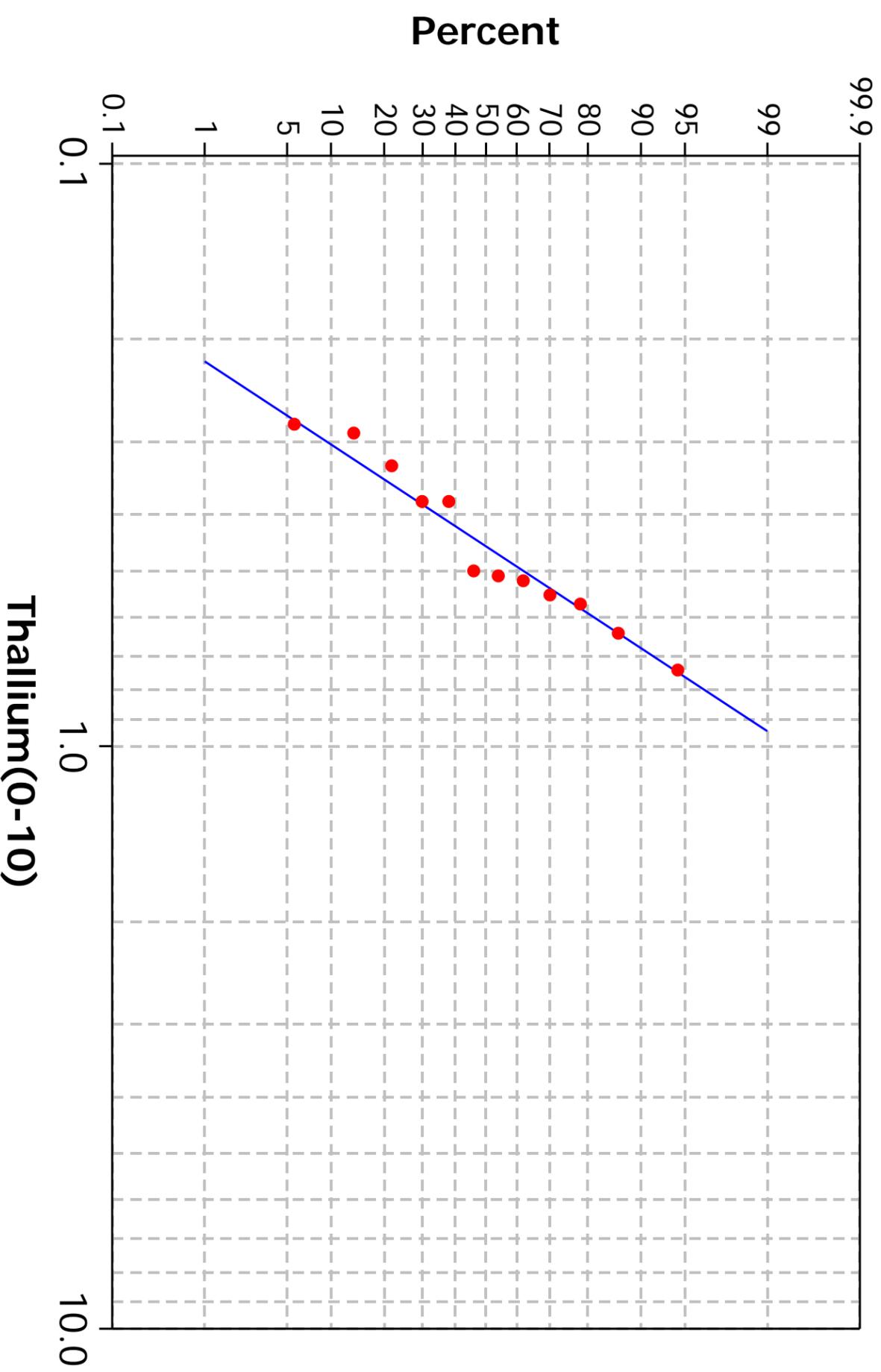
## **APPENDIX 7.3**

### **Probability Plots of Thallium**

# Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24402 PANAMMA AVE

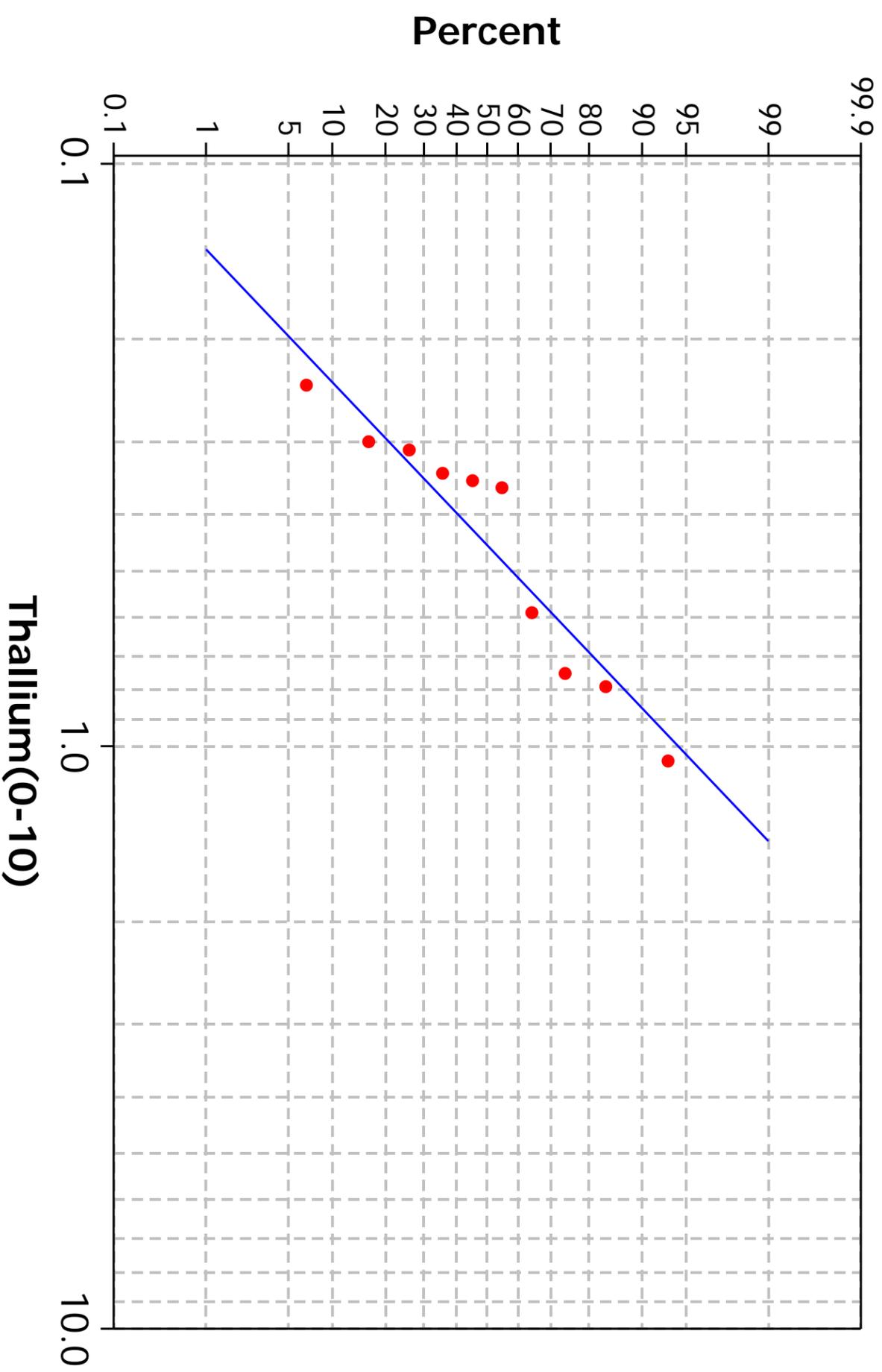


Loc	-0.7902
Scale	0.3142
N	12
AD	0.334
P-Value	0.448

## Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24411 PANAMMA AVE

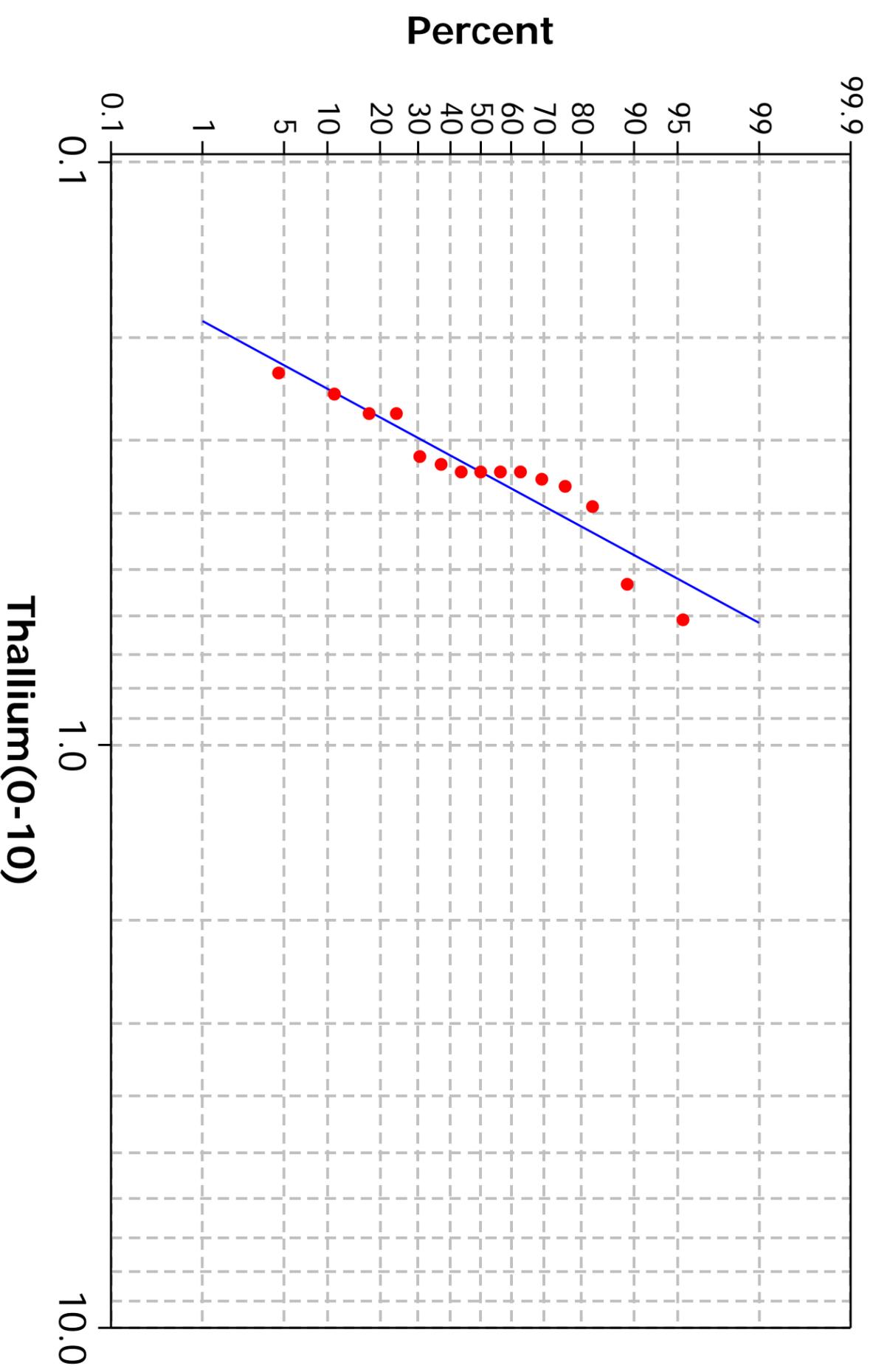


Loc	-0.7945
Scale	0.5028
N	10
AD	0.536
P-Value	0.125

# Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24506 MARBELLA AVE

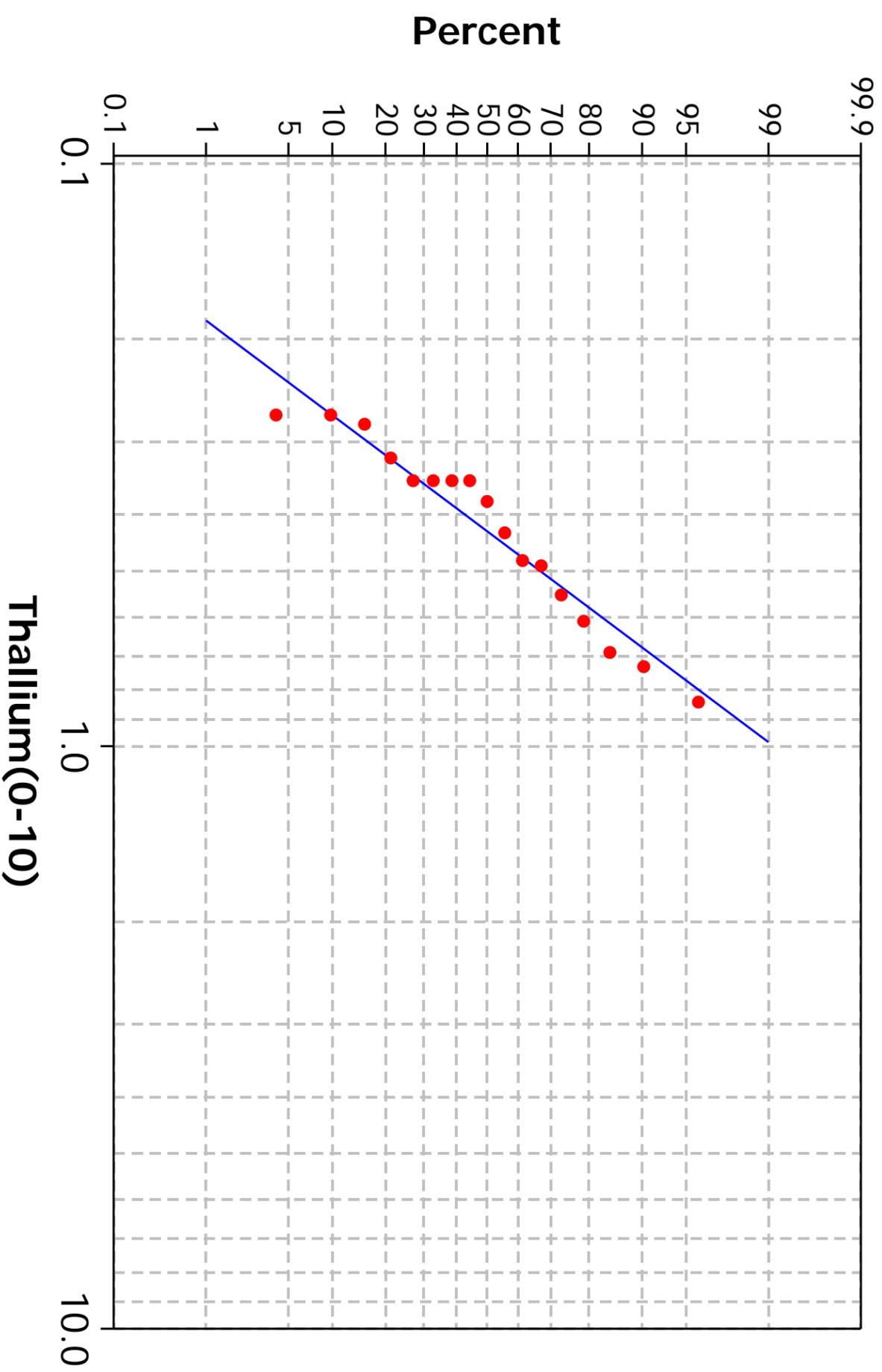


Loc	-1.079
Scale	0.2563
N	15
AD	0.704
P-Value	0.052

### Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24529 NEPTUNE AVE

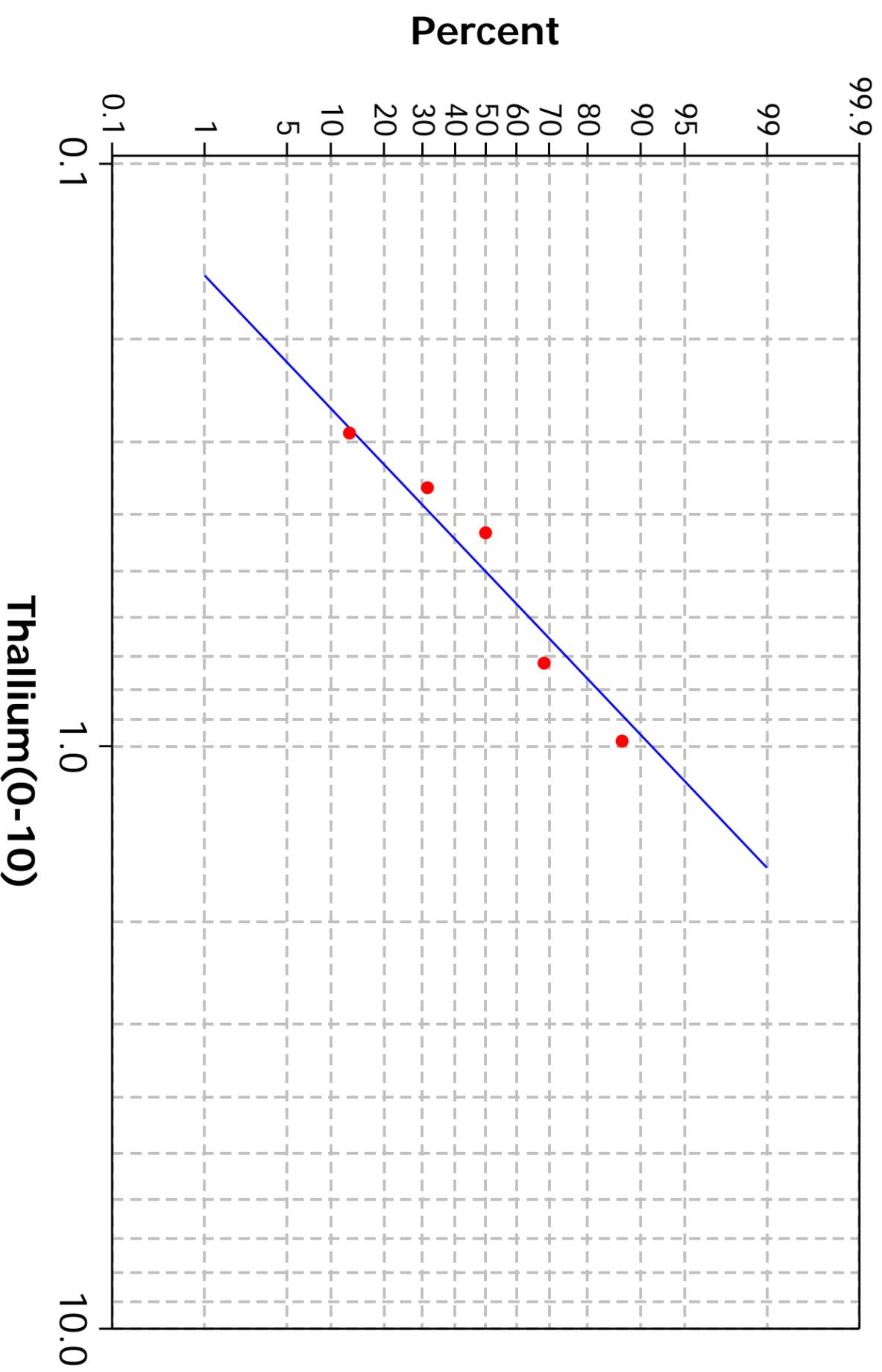


Loc	-0.8495
Scale	0.3582
N	17
AD	0.429
P-Value	0.275

### Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24603 MARBELLA AVE

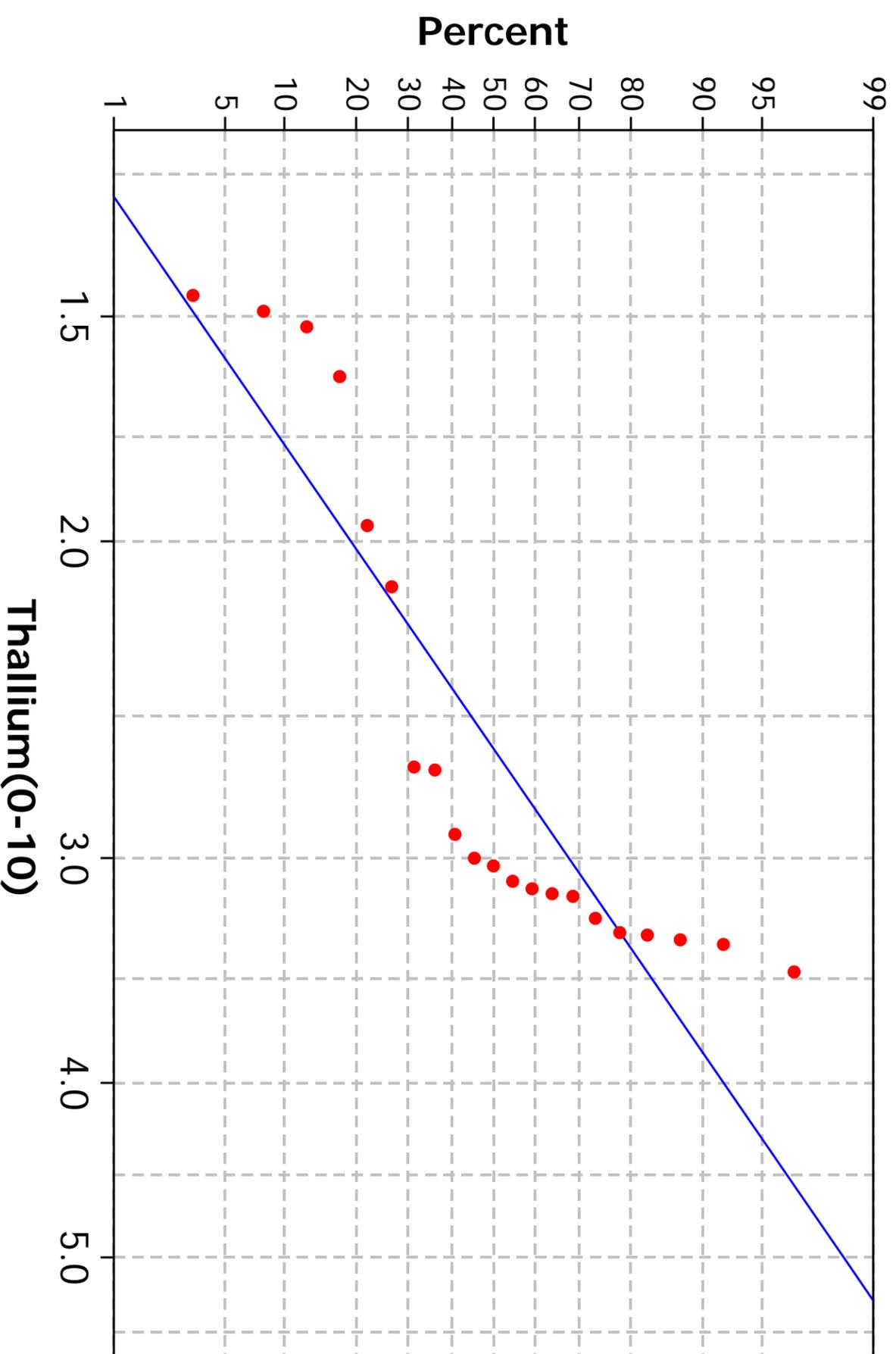


Loc	-0.6904
Scale	0.5033
N	5
AD	0.235
P-Value	0.607

## Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24603 RAVENNA AVE

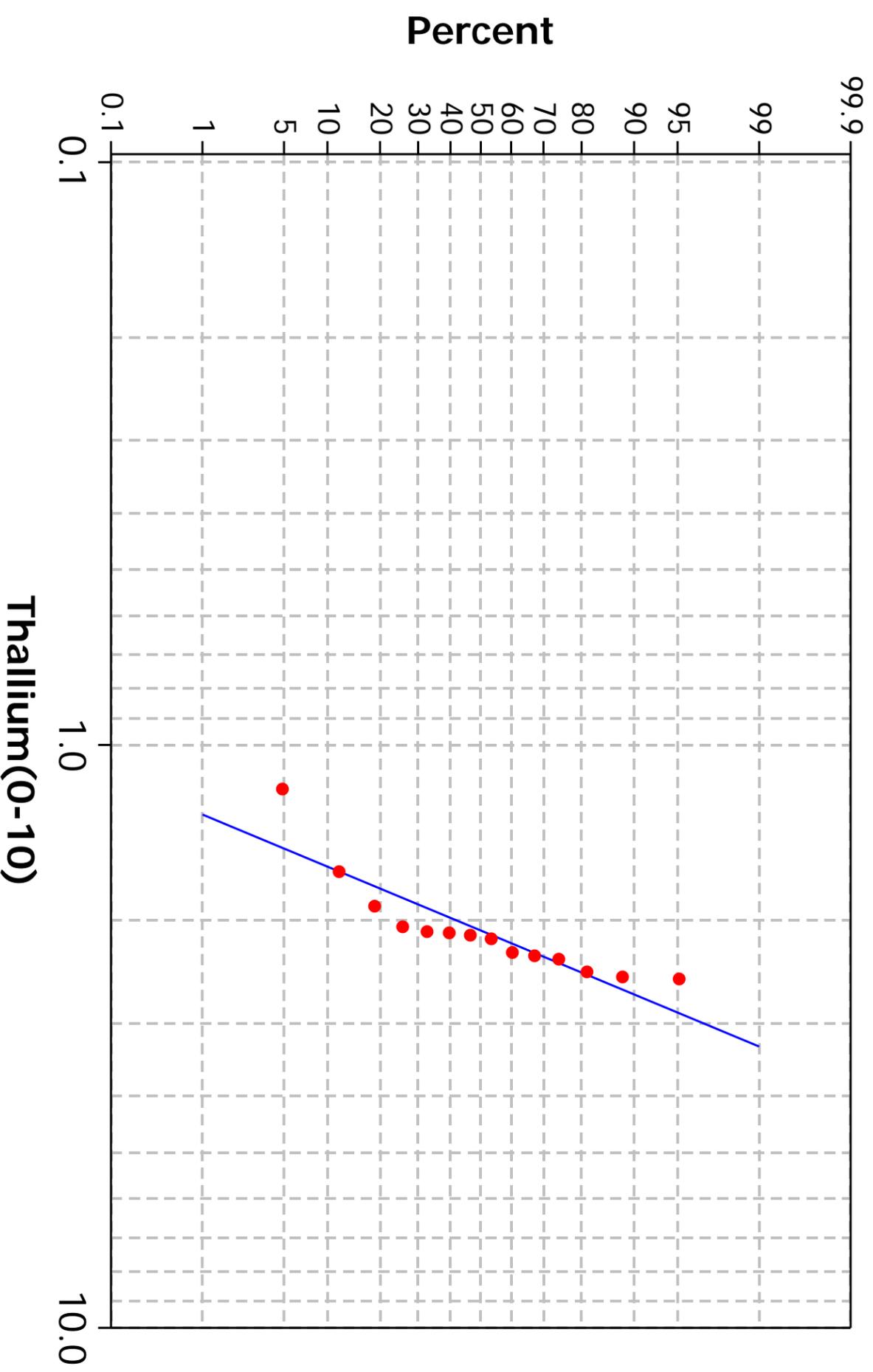


Loc	0.9584
Scale	0.3035
N	21
AD	1.970
P-Value	<0.005

# Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24608 PANAMMA AVE

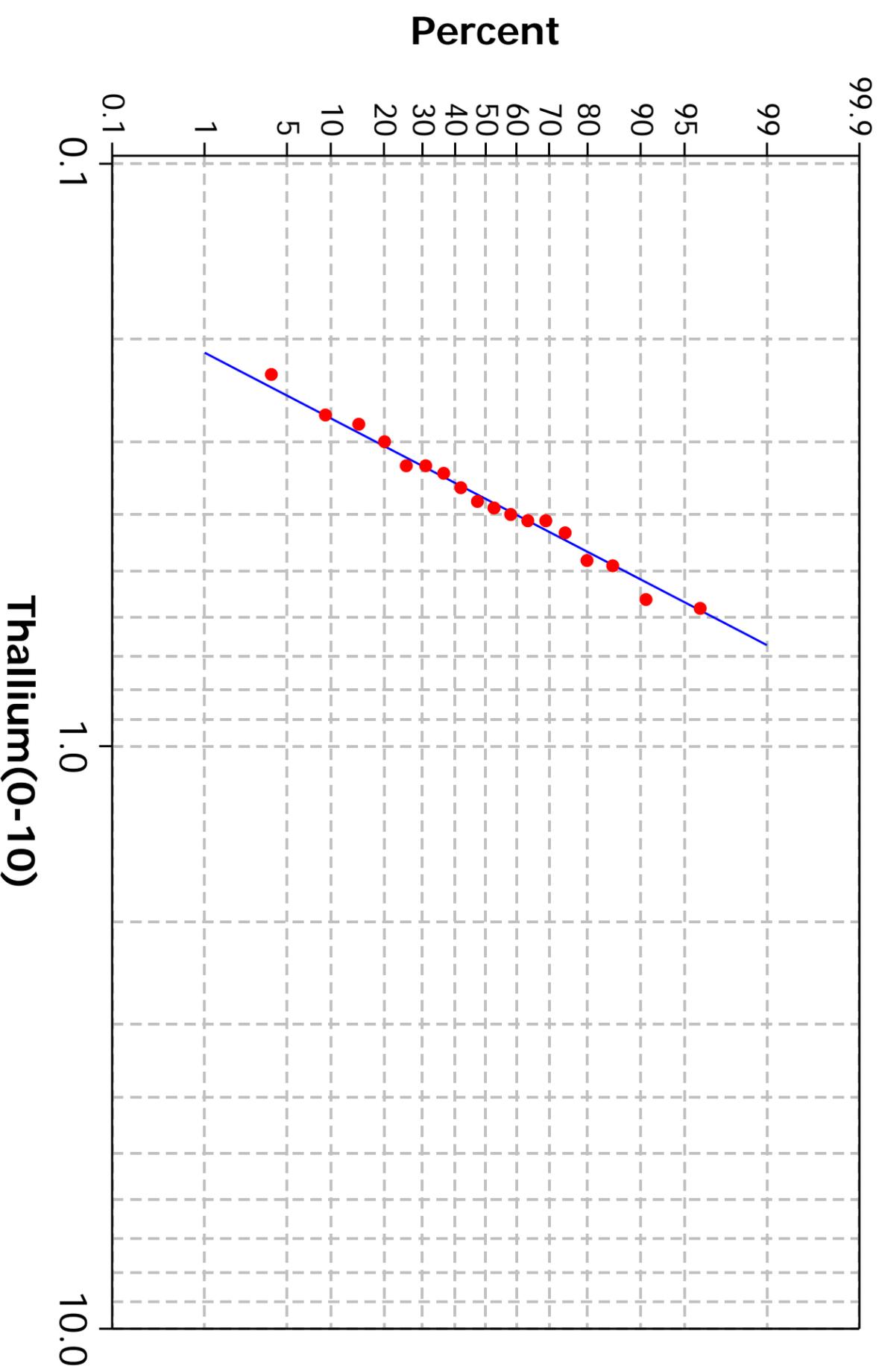


Loc	0.7329
Scale	0.1970
N	14
AD	0.954
P-Value	0.011

### Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24612 NEPTUNE AVE

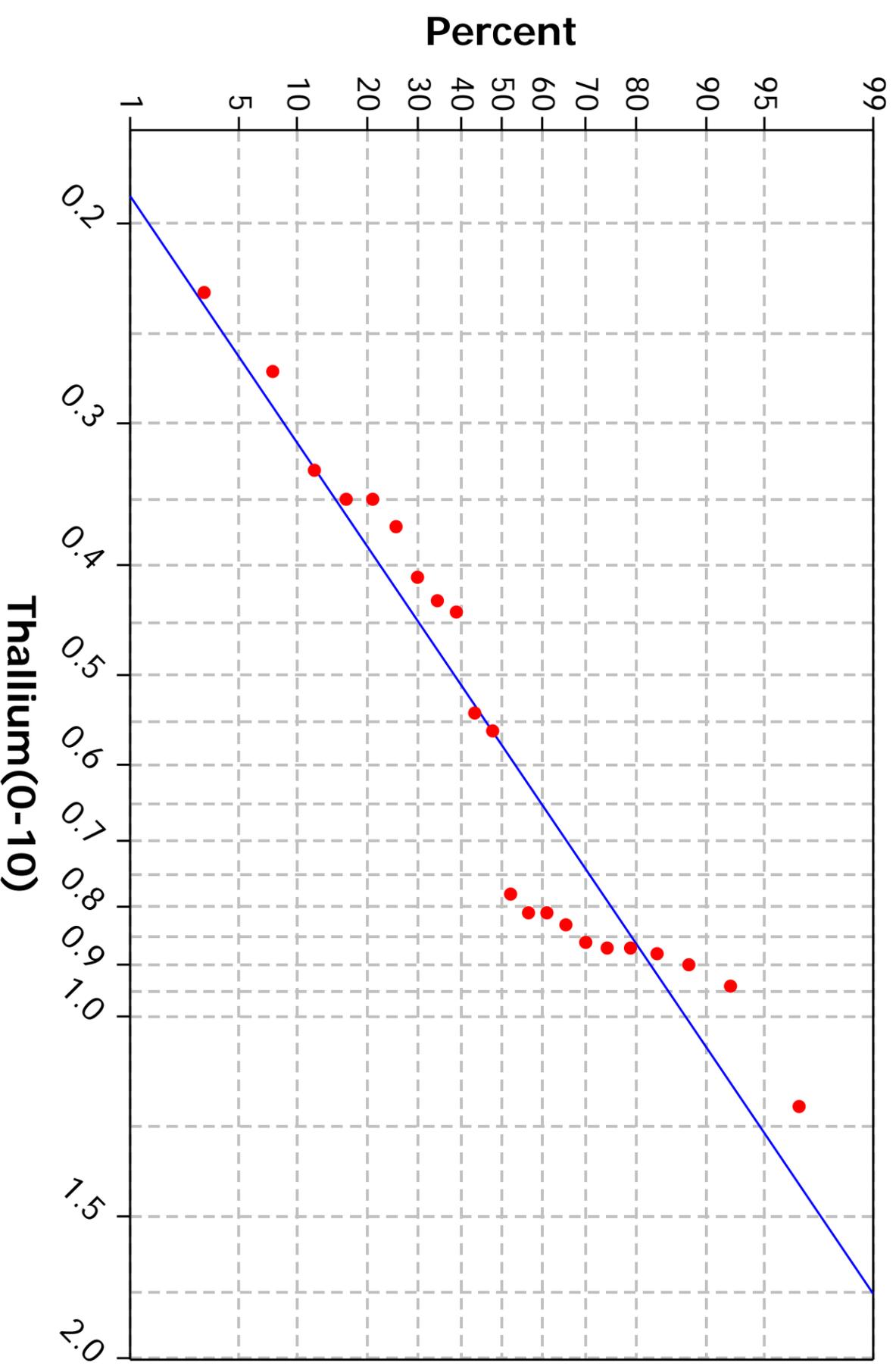


Loc	-0.9777
Scale	0.2485
N	18
AD	0.133
P-Value	0.975

## Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24617 MARBELLA AVE

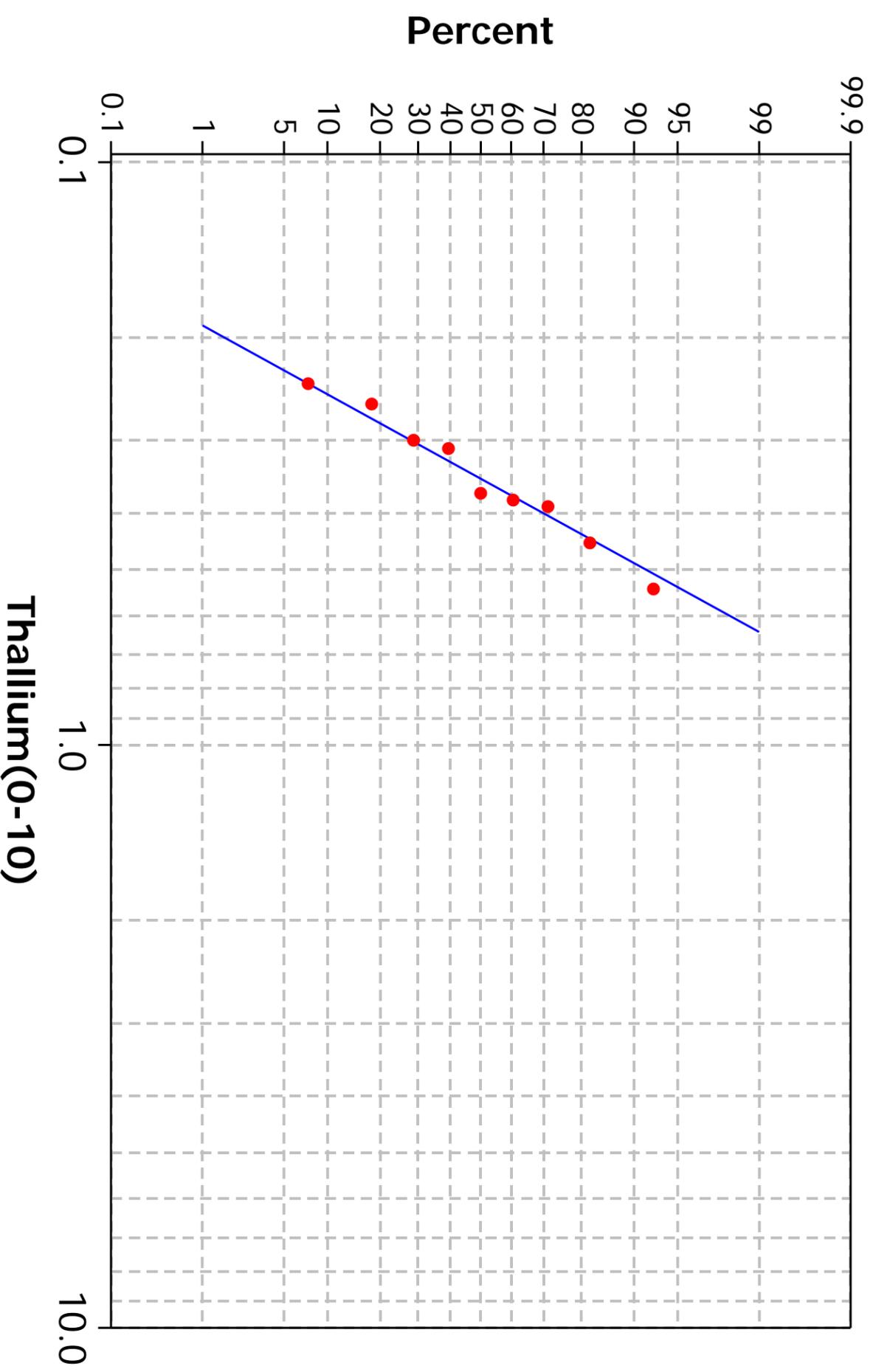


Loc	-0.5515
Scale	0.4788
N	22
AD	0.966
P-Value	0.012

### Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24707 MARBELLA AVE

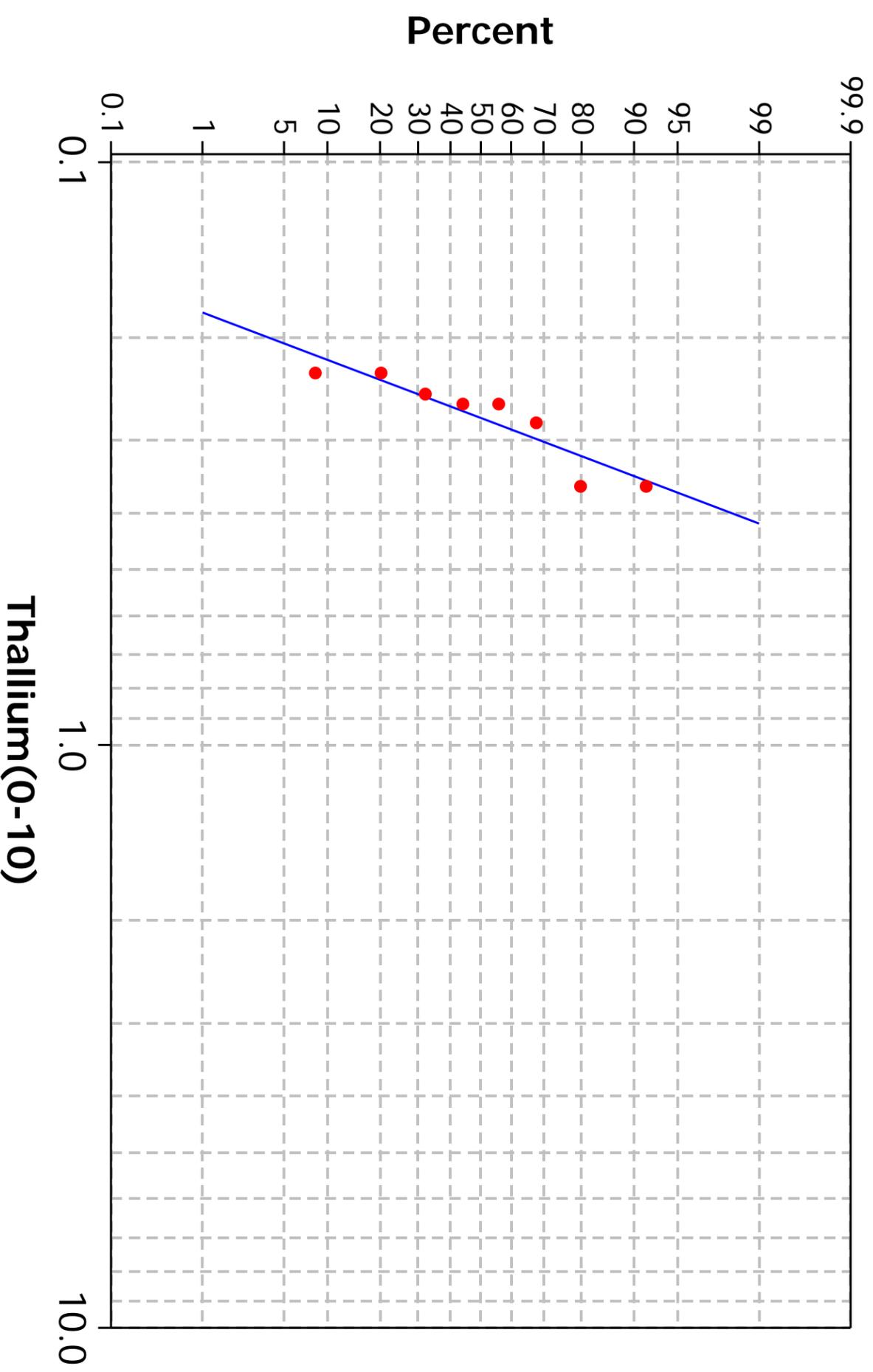


Loc	-1.052
Scale	0.2603
N	9
AD	0.170
P-Value	0.902

### Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24713 PANAMMA AVE

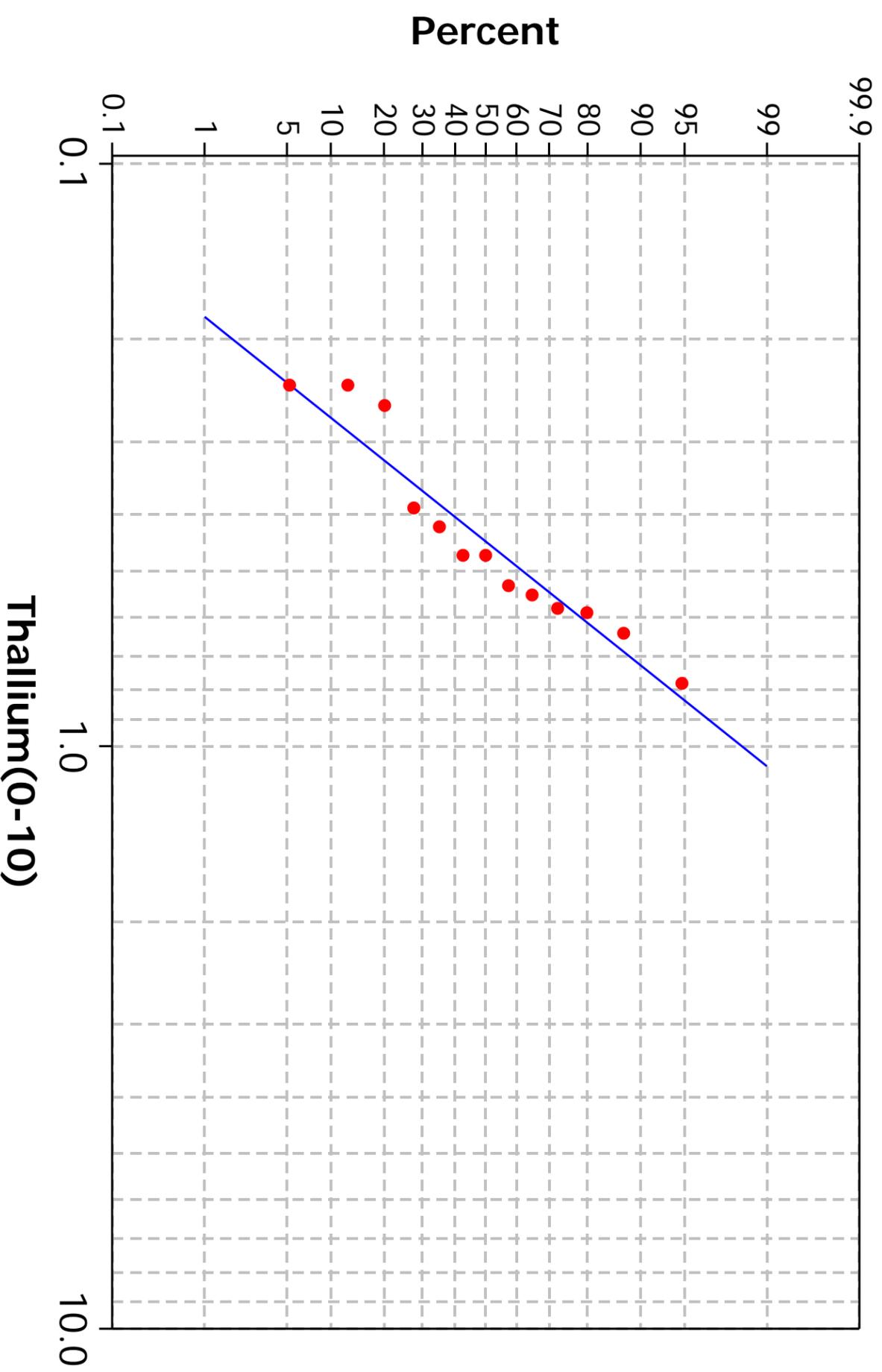


Loc	-1.292
Scale	0.1791
N	8
AD	0.592
P-Value	0.081

# Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24716 MARBELLA AVE

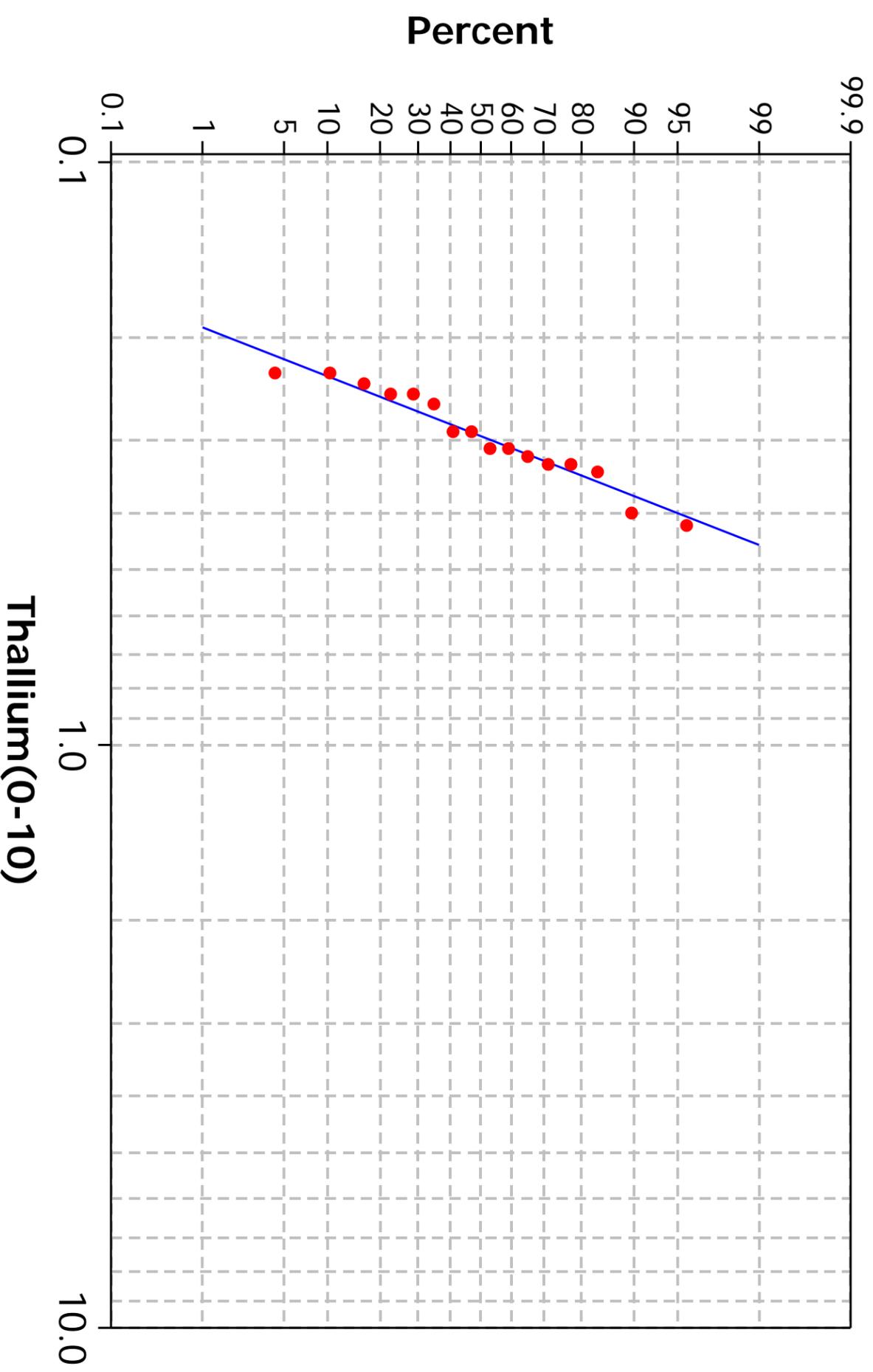


Loc	-0.8093
Scale	0.3819
N	13
AD	0.529
P-Value	0.143

# Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24722 MARBELLA AVE

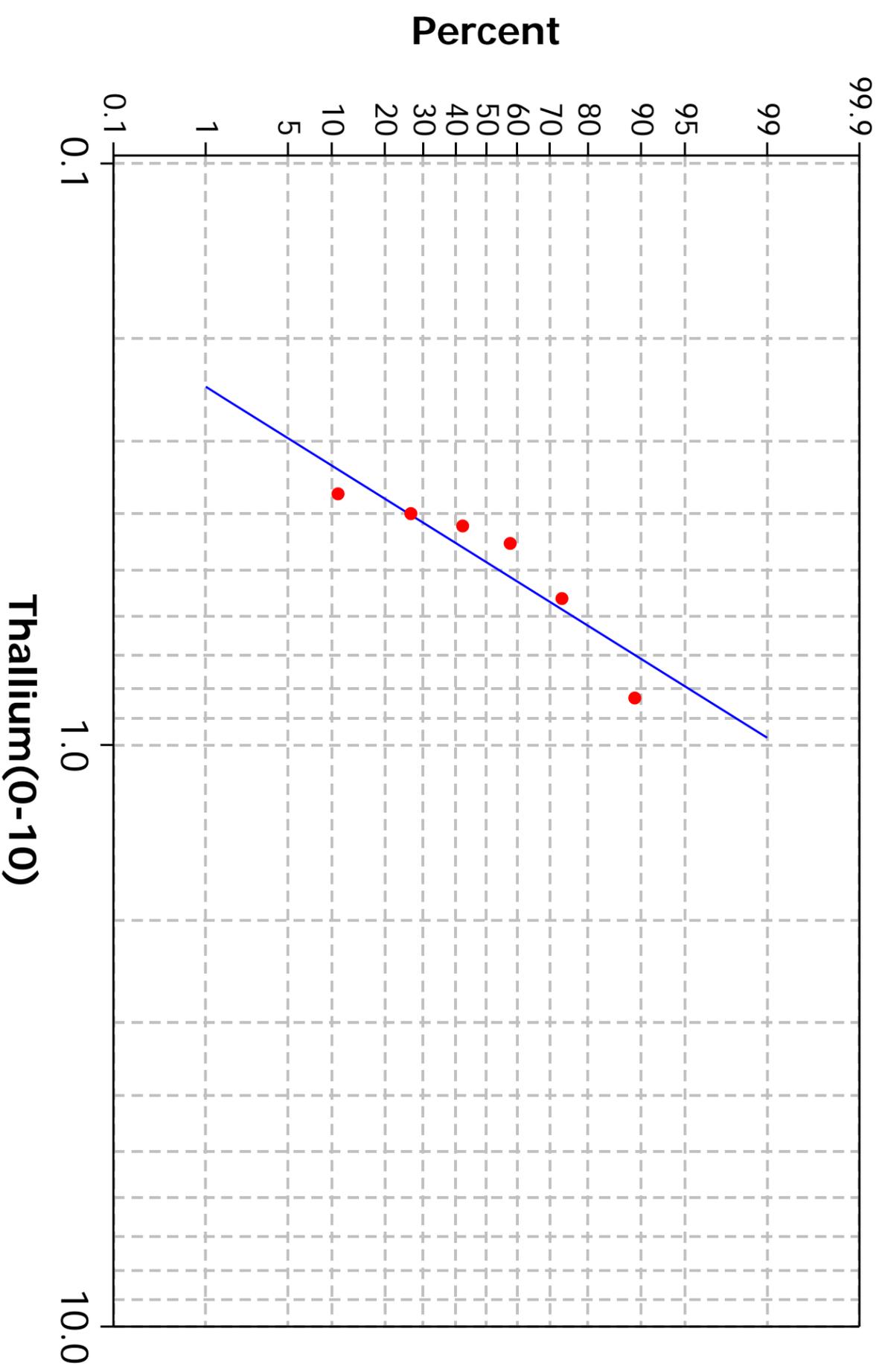


Loc	-1.220
Scale	0.1848
N	16
AD	0.334
P-Value	0.467

### Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24733 MARBELLA AVE

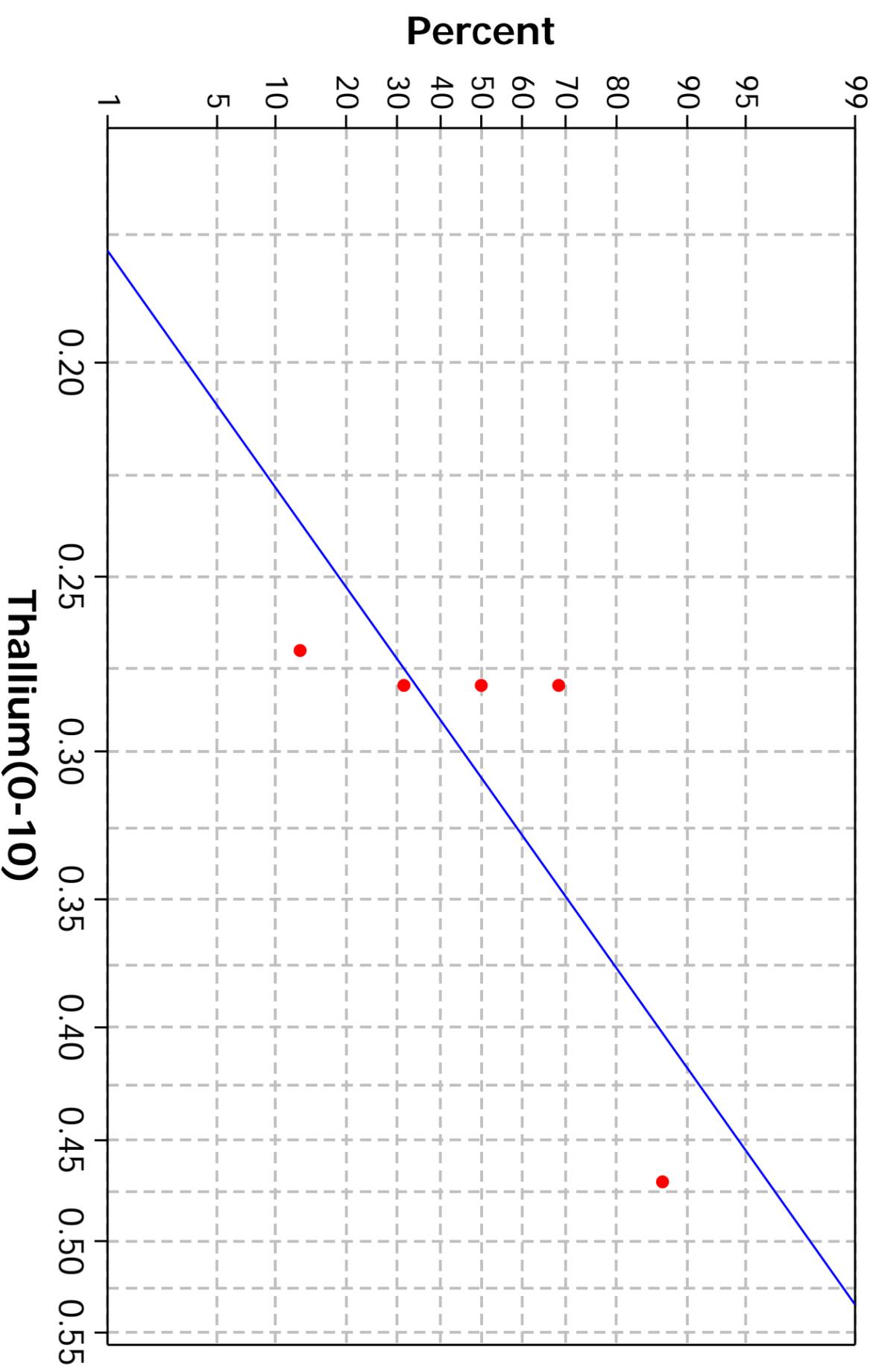


Loc	-0.7238
Scale	0.2987
N	6
AD	0.441
P-Value	0.182

# Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 24733 RAVENNA AVE

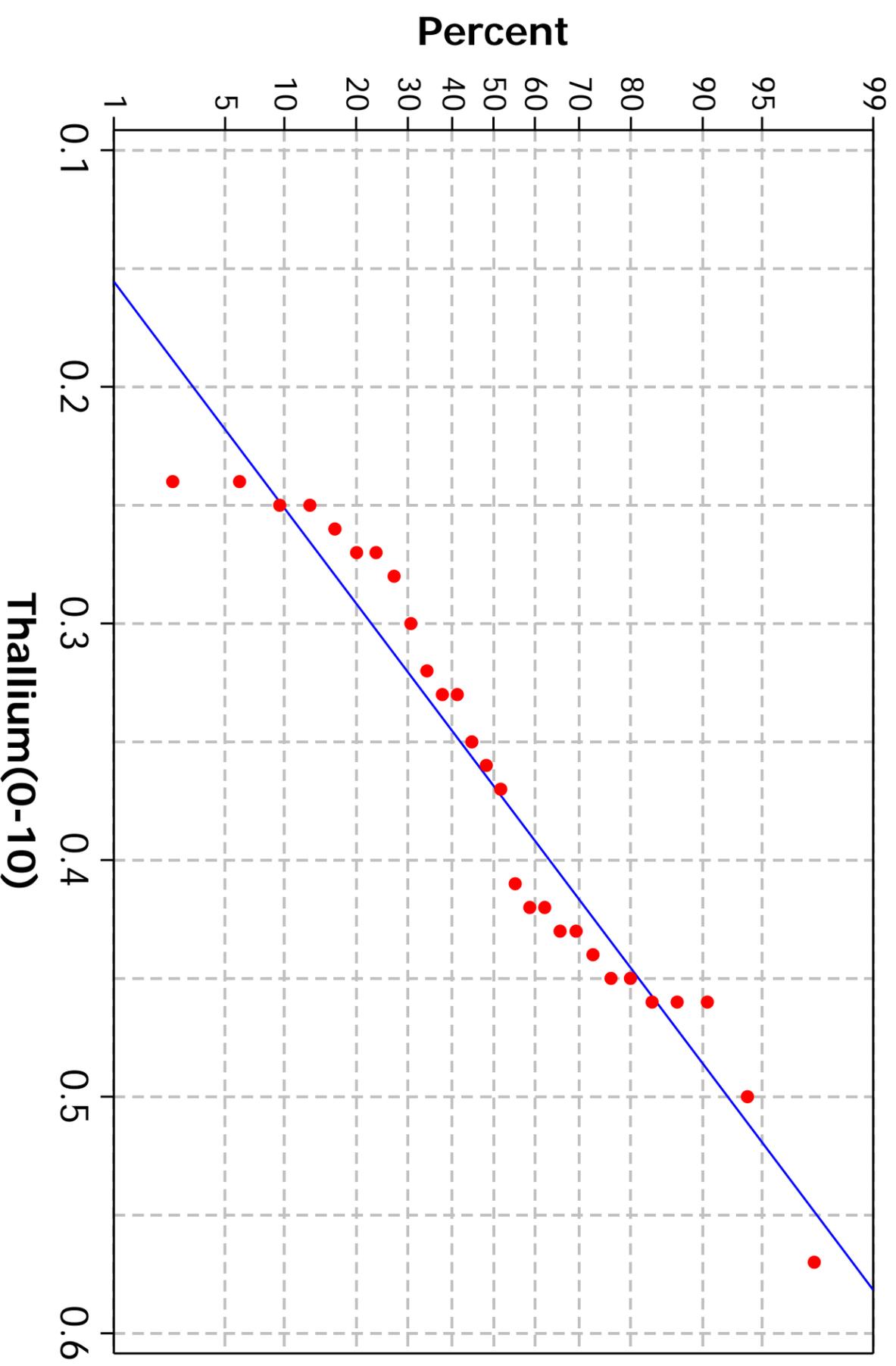


Loc	-1.177
Scale	0.2362
N	5
AD	1.061
P-Value	<0.005

## Probability Plot of Thallium(0-10)

Normal

GIS\_ID = 24735 NEPTUNE AVE

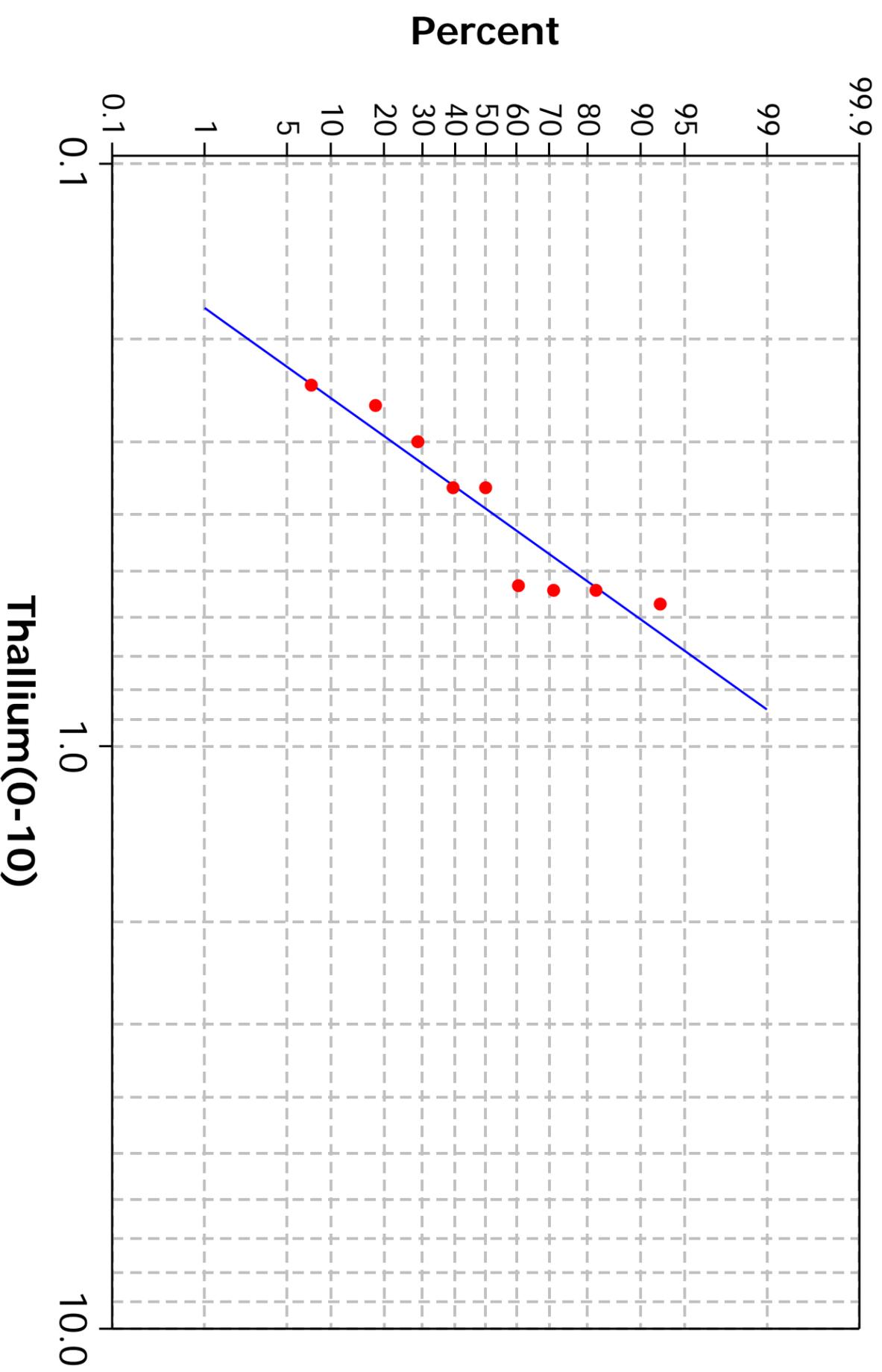


Mean	0.3686
StDev	0.09160
N	28
AD	0.674
P-Value	0.070

### Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 341 244TH ST

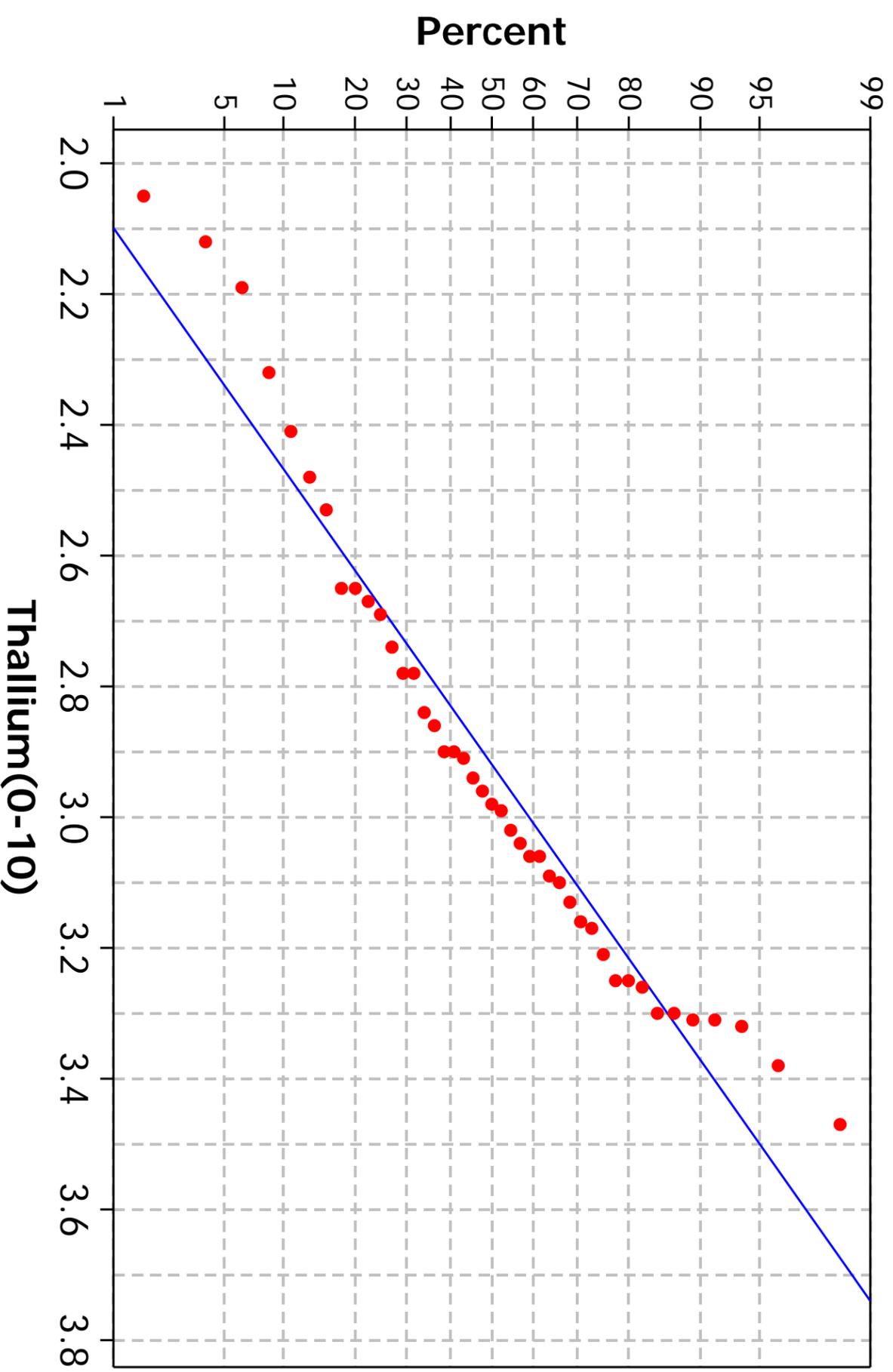


Loc	-0.9390
Scale	0.3412
N	9
AD	0.528
P-Value	0.127

## Probability Plot of Thallium(0-10)

Normal

GIS\_ID = 345 249TH ST

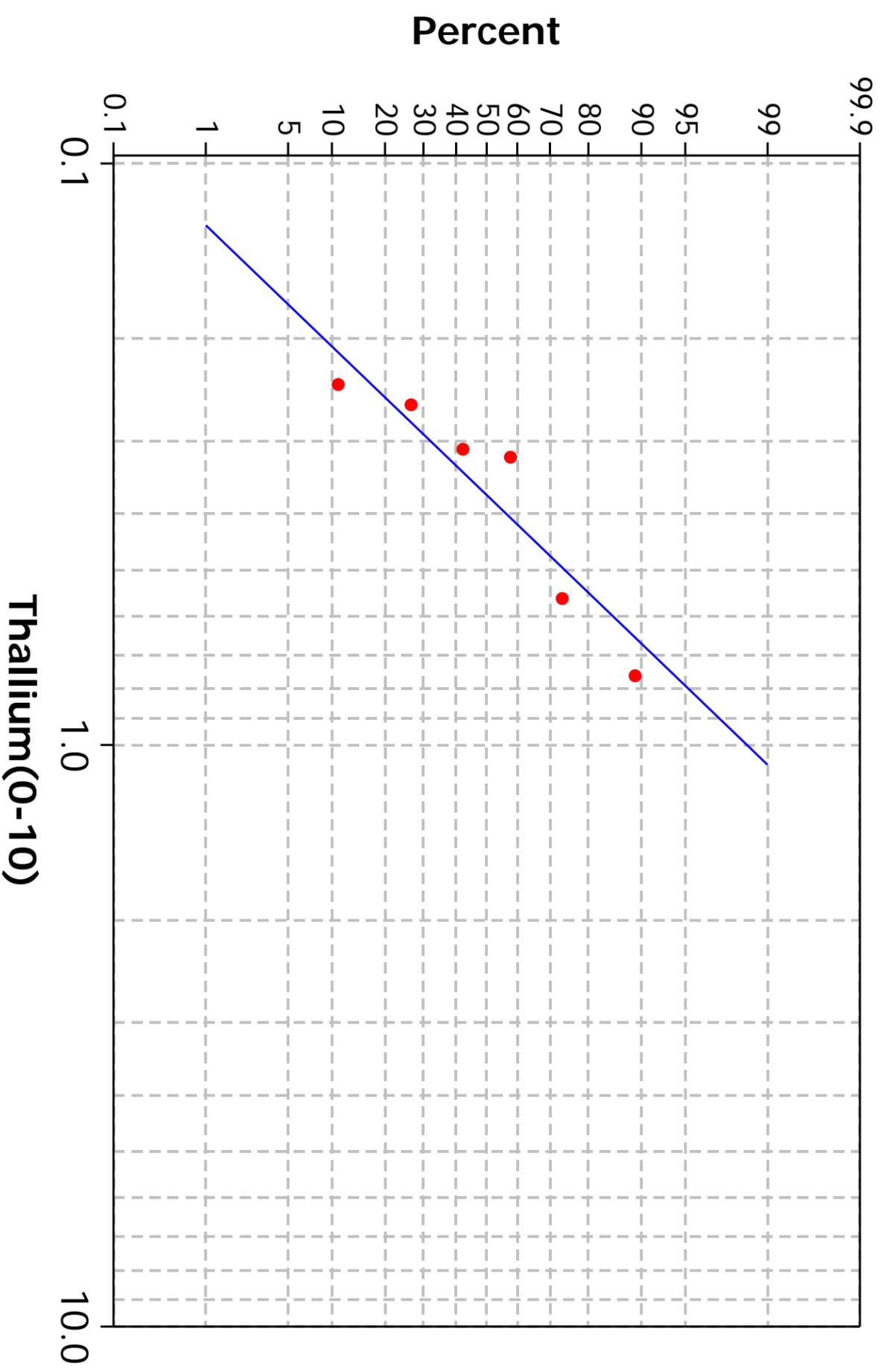


Mean	2.919
StDev	0.3527
N	43
AD	0.714
P-Value	0.058

### Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 361 244TH ST

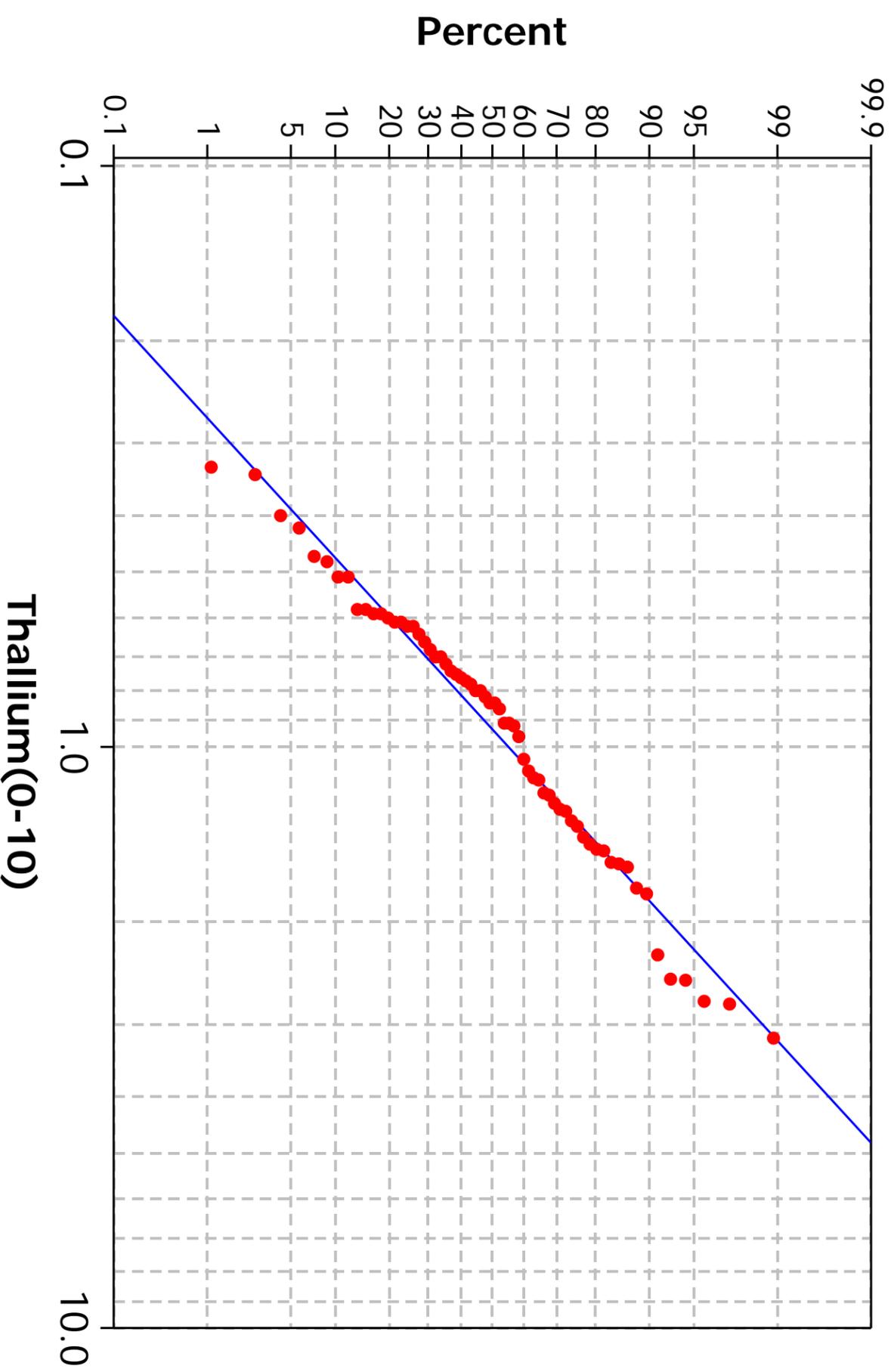


Loc	-0.9898
Scale	0.4591
N	6
AD	0.421
P-Value	0.209

# Probability Plot of Thallium(0-10)

Lognormal

GIS\_ID = 412 249TH ST



Loc	-0.06993
Scale	0.5302
N	64
AD	0.525
P-Value	0.175

**APPENDIX :**

\*\*\*\*\*Dceni tqwpf 'F cwugv

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**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Park	BS-01-5	METALS	Arsenic	2.58
Banning Park	BS-01-5	METALS	Molybdenum	0.114
Banning Park	BS-01-5	METALS	Nickel	6.25
Banning Park	BS-01-5	METALS	Silver	0.27
Banning Park	BS-01-5	METALS	Vanadium	14.9
Banning Park	BS-01-5	METALS	Zinc	36.1
Banning Park	BS-01-5	METALS	Lead	16.4
Banning Park	BS-01-5	METALS	Copper	11.6
Banning Park	BS-01-5	METALS	Cobalt	4.19
Banning Park	BS-01-5	METALS	Chromium	13.2
Banning Park	BS-01-5	SVOC	BaP TEQ	0.0043
Banning Park	BS-01-5	METALS	Cadmium	0.834
Banning Park	BS-01-5	METALS	Mercury	0.0736
Banning Park	BS-01-5	METALS	Barium	71.8
Banning Park	BS-01-5	METALS	Thallium	<0.232
Banning Park	BS-01-5	METALS	Antimony	<0.306
Banning Park	BS-01-5	METALS	Selenium	<0.351
Banning Park	BS-01-5	METALS	Beryllium	0.198
Banning Park	BS-01-2	METALS	Antimony	<0.306
Banning Park	BS-01-2	METALS	Selenium	<0.351
Banning Park	BS-01-2	METALS	Silver	<0.117
Banning Park	BS-01-2	METALS	Thallium	<0.232
Banning Park	BS-01-2	METALS	Lead	5.21
Banning Park	BS-01-2	METALS	Copper	5.93
Banning Park	BS-01-2	METALS	Cobalt	4.52
Banning Park	BS-01-2	METALS	Chromium	8.35
Banning Park	BS-01-2	METALS	Beryllium	0.21
Banning Park	BS-01-2	METALS	Barium	67.1
Banning Park	BS-01-2	METALS	Cadmium	<0.0883
Banning Park	BS-01-2	SVOC	BaP TEQ	0.0011
Banning Park	BS-01-2	METALS	Arsenic	1.39
Banning Park	BS-01-2	METALS	Molybdenum	0.186
Banning Park	BS-01-2	METALS	Zinc	15.5
Banning Park	BS-01-2	METALS	Nickel	5.03
Banning Park	BS-01-2	METALS	Mercury	0.021
Banning Park	BS-01-2	METALS	Vanadium	14.5
Banning Park	BS-01-5	METALS	Silver	<0.117
Banning Park	BS-01-5	METALS	Mercury	0.0187
Banning Park	BS-01-5	METALS	Zinc	14.4
Banning Park	BS-01-5	METALS	Cadmium	<0.0883
Banning Park	BS-01-5	METALS	Selenium	<0.351
Banning Park	BS-01-5	METALS	Lead	2.85
Banning Park	BS-01-5	METALS	Thallium	<0.232
Banning Park	BS-01-5	METALS	Nickel	4.76
Banning Park	BS-01-5	METALS	Molybdenum	<0.0777
Banning Park	BS-01-5	SVOC	BaP TEQ	<0.00106
Banning Park	BS-01-5	METALS	Barium	46.7
Banning Park	BS-01-5	METALS	Antimony	<0.306
Banning Park	BS-01-5	METALS	Arsenic	1.39
Banning Park	BS-01-5	METALS	Vanadium	14.6
Banning Park	BS-01-5	METALS	Beryllium	0.225
Banning Park	BS-01-5	METALS	Chromium	8.15
Banning Park	BS-01-5	METALS	Cobalt	4.26
Banning Park	BS-01-5	METALS	Copper	3.68
Banning Park	BS-02-5	METALS	Vanadium	16.5
Banning Park	BS-02-5	METALS	Selenium	<0.351
Banning Park	BS-02-5	METALS	Cadmium	0.74

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Park	BS-02-.5	METALS	Nickel	7.53
Banning Park	BS-02-.5	METALS	Molybdenum	0.151
Banning Park	BS-02-.5	METALS	Mercury	0.0797
Banning Park	BS-02-.5	METALS	Zinc	47.3
Banning Park	BS-02-.5	METALS	Lead	20
Banning Park	BS-02-.5	METALS	Copper	12.9
Banning Park	BS-02-.5	METALS	Cobalt	4.4
Banning Park	BS-02-.5	METALS	Silver	0.181
Banning Park	BS-02-.5	METALS	Antimony	<0.306
Banning Park	BS-02-.5	METALS	Arsenic	2.25
Banning Park	BS-02-.5	METALS	Barium	74.2
Banning Park	BS-02-.5	METALS	Beryllium	0.206
Banning Park	BS-02-.5	SVOC	BaP TEQ	0.0048
Banning Park	BS-02-.5	METALS	Thallium	<0.232
Banning Park	BS-02-.5	METALS	Chromium	12.6
Banning Park	BS-02-2	METALS	Lead	9.59
Banning Park	BS-02-2	METALS	Cobalt	4.3
Banning Park	BS-02-2	METALS	Copper	6.24
Banning Park	BS-02-2	METALS	Cadmium	0.147
Banning Park	BS-02-2	METALS	Beryllium	0.197
Banning Park	BS-02-2	METALS	Barium	61
Banning Park	BS-02-2	METALS	Antimony	<0.306
Banning Park	BS-02-2	METALS	Mercury	0.0294
Banning Park	BS-02-2	METALS	Selenium	<0.351
Banning Park	BS-02-2	METALS	Silver	<0.117
Banning Park	BS-02-2	METALS	Thallium	<0.232
Banning Park	BS-02-2	METALS	Arsenic	1.56
Banning Park	BS-02-2	METALS	Nickel	4.87
Banning Park	BS-02-2	METALS	Vanadium	14
Banning Park	BS-02-2	METALS	Zinc	18.9
Banning Park	BS-02-2	METALS	Chromium	8.78
Banning Park	BS-02-2	METALS	Molybdenum	0.138
Banning Park	BS-02-2	SVOC	BaP TEQ	0.0029
Banning Park	BS-02-5	METALS	Cadmium	<0.0883
Banning Park	BS-02-5	METALS	Lead	5.01
Banning Park	BS-02-5	METALS	Copper	5.03
Banning Park	BS-02-5	METALS	Cobalt	4.62
Banning Park	BS-02-5	METALS	Chromium	9.6
Banning Park	BS-02-5	METALS	Barium	59.5
Banning Park	BS-02-5	METALS	Thallium	<0.232
Banning Park	BS-02-5	METALS	Silver	<0.117
Banning Park	BS-02-5	METALS	Mercury	0.0279
Banning Park	BS-02-5	METALS	Molybdenum	<0.0777
Banning Park	BS-02-5	METALS	Beryllium	0.233
Banning Park	BS-02-5	METALS	Antimony	<0.306
Banning Park	BS-02-5	METALS	Selenium	<0.351
Banning Park	BS-02-5	METALS	Vanadium	15.7
Banning Park	BS-02-5	METALS	Zinc	17.9
Banning Park	BS-02-5	SVOC	BaP TEQ	<0.00106
Banning Park	BS-02-5	METALS	Arsenic	1.6
Banning Park	BS-02-5	METALS	Nickel	5.48
Banning Park	BS-03-.5	METALS	Antimony	<0.306
Banning Park	BS-03-.5	SVOC	BaP TEQ	0.0053
Banning Park	BS-03-.5	METALS	Zinc	86.3
Banning Park	BS-03-.5	METALS	Lead	31
Banning Park	BS-03-.5	METALS	Copper	25.1
Banning Park	BS-03-.5	METALS	Cobalt	4.49

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Park	BS-03-5	METALS	Cadmium	3.81
Banning Park	BS-03-5	METALS	Selenium	<0.351
Banning Park	BS-03-5	METALS	Barium	81.4
Banning Park	BS-03-5	METALS	Vanadium	17.6
Banning Park	BS-03-5	METALS	Silver	1.29
Banning Park	BS-03-5	METALS	Nickel	10.2
Banning Park	BS-03-5	METALS	Molybdenum	0.24
Banning Park	BS-03-5	METALS	Mercury	0.143
Banning Park	BS-03-5	METALS	Beryllium	0.192
Banning Park	BS-03-5	METALS	Thallium	<0.232
Banning Park	BS-03-5	METALS	Chromium	28.2
Banning Park	BS-03-5	METALS	Arsenic	2.62
Banning Park	BS-03-2	METALS	Cobalt	4.85
Banning Park	BS-03-2	METALS	Chromium	14.1
Banning Park	BS-03-2	METALS	Cadmium	0.712
Banning Park	BS-03-2	SVOC	BaP TEQ	0.0019
Banning Park	BS-03-2	METALS	Beryllium	0.23
Banning Park	BS-03-2	METALS	Barium	82.7
Banning Park	BS-03-2	METALS	Zinc	34.3
Banning Park	BS-03-2	METALS	Copper	10.8
Banning Park	BS-03-2	METALS	Arsenic	1.59
Banning Park	BS-03-2	METALS	Antimony	<0.306
Banning Park	BS-03-2	METALS	Lead	11.7
Banning Park	BS-03-2	METALS	Thallium	<0.232
Banning Park	BS-03-2	METALS	Selenium	<0.351
Banning Park	BS-03-2	METALS	Vanadium	16.6
Banning Park	BS-03-2	METALS	Silver	0.181
Banning Park	BS-03-2	METALS	Nickel	6.55
Banning Park	BS-03-2	METALS	Molybdenum	0.123
Banning Park	BS-03-2	METALS	Mercury	0.0571
Banning Park	BS-03-5	SVOC	BaP TEQ	<0.00106
Banning Park	BS-03-5	METALS	Zinc	17.6
Banning Park	BS-03-5	METALS	Copper	4.62
Banning Park	BS-03-5	METALS	Cobalt	5.05
Banning Park	BS-03-5	METALS	Nickel	5.74
Banning Park	BS-03-5	METALS	Molybdenum	0.0978
Banning Park	BS-03-5	METALS	Arsenic	1.54
Banning Park	BS-03-5	METALS	Lead	3.16
Banning Park	BS-03-5	METALS	Vanadium	16.6
Banning Park	BS-03-5	METALS	Silver	<0.117
Banning Park	BS-03-5	METALS	Selenium	<0.351
Banning Park	BS-03-5	METALS	Cadmium	<0.0883
Banning Park	BS-03-5	METALS	Antimony	<0.306
Banning Park	BS-03-5	METALS	Barium	64.4
Banning Park	BS-03-5	METALS	Chromium	9.71
Banning Park	BS-03-5	METALS	Beryllium	0.274
Banning Park	BS-03-5	METALS	Thallium	<0.232
Banning Park	BS-03-5	METALS	Mercury	0.0286
Banning Park	BS-04-5	METALS	Beryllium	0.215
Banning Park	BS-04-5	METALS	Zinc	42.4
Banning Park	BS-04-5	METALS	Vanadium	17.4
Banning Park	BS-04-5	METALS	Nickel	6.54
Banning Park	BS-04-5	METALS	Mercury	0.0259
Banning Park	BS-04-5	METALS	Lead	11.1
Banning Park	BS-04-5	METALS	Copper	10.1
Banning Park	BS-04-5	METALS	Cobalt	4.92
Banning Park	BS-04-5	METALS	Cadmium	0.345

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Park	BS-04-5	METALS	Barium	78.7
Banning Park	BS-04-5	METALS	Arsenic	1.66
Banning Park	BS-04-5	METALS	Silver	<0.117
Banning Park	BS-04-5	METALS	Chromium	13.2
Banning Park	BS-04-5	METALS	Antimony	<0.306
Banning Park	BS-04-5	SVOC	BaP TEQ	0.0029
Banning Park	BS-04-5	METALS	Molybdenum	<0.0777
Banning Park	BS-04-5	METALS	Selenium	<0.351
Banning Park	BS-04-5	METALS	Thallium	<0.232
Banning Park	BS-04-2	METALS	Arsenic	1.32
Banning Park	BS-04-2	METALS	Vanadium	15.2
Banning Park	BS-04-2	METALS	Nickel	5.38
Banning Park	BS-04-2	METALS	Mercury	0.0182
Banning Park	BS-04-2	METALS	Lead	3.3
Banning Park	BS-04-2	METALS	Cobalt	4.63
Banning Park	BS-04-2	METALS	Antimony	<0.306
Banning Park	BS-04-2	METALS	Barium	71.2
Banning Park	BS-04-2	METALS	Cadmium	<0.0883
Banning Park	BS-04-2	METALS	Zinc	17.8
Banning Park	BS-04-2	METALS	Thallium	<0.232
Banning Park	BS-04-2	METALS	Copper	5.86
Banning Park	BS-04-2	METALS	Silver	<0.117
Banning Park	BS-04-2	METALS	Selenium	<0.351
Banning Park	BS-04-2	METALS	Molybdenum	<0.0777
Banning Park	BS-04-2	METALS	Beryllium	0.221
Banning Park	BS-04-2	SVOC	BaP TEQ	0.0011
Banning Park	BS-04-2	METALS	Chromium	8.89
Banning Park	BS-04-5	METALS	Molybdenum	<0.0777
Banning Park	BS-04-5	METALS	Selenium	<0.351
Banning Park	BS-04-5	METALS	Copper	3.97
Banning Park	BS-04-5	METALS	Silver	<0.117
Banning Park	BS-04-5	METALS	Antimony	<0.306
Banning Park	BS-04-5	SVOC	BaP TEQ	<0.00106
Banning Park	BS-04-5	METALS	Cadmium	<0.0883
Banning Park	BS-04-5	METALS	Thallium	<0.232
Banning Park	BS-04-5	METALS	Lead	3.47
Banning Park	BS-04-5	METALS	Vanadium	18.2
Banning Park	BS-04-5	METALS	Nickel	5.18
Banning Park	BS-04-5	METALS	Mercury	0.0175
Banning Park	BS-04-5	METALS	Cobalt	5.13
Banning Park	BS-04-5	METALS	Chromium	9.56
Banning Park	BS-04-5	METALS	Beryllium	0.27
Banning Park	BS-04-5	METALS	Zinc	16.1
Banning Park	BS-04-5	METALS	Barium	52.6
Banning Park	BS-04-5	METALS	Arsenic	1.81
Banning Park	BS-05-5	METALS	Chromium	8.42
Banning Park	BS-05-5	SVOC	BaP TEQ	0.0017
Banning Park	BS-05-5	METALS	Copper	6.29
Banning Park	BS-05-5	METALS	Lead	7.09
Banning Park	BS-05-5	METALS	Mercury	0.0281
Banning Park	BS-05-5	METALS	Molybdenum	<0.0777
Banning Park	BS-05-5	METALS	Vanadium	14.3
Banning Park	BS-05-5	METALS	Cobalt	4.44
Banning Park	BS-05-5	METALS	Selenium	<0.351
Banning Park	BS-05-5	METALS	Silver	<0.117
Banning Park	BS-05-5	METALS	Thallium	<0.232
Banning Park	BS-05-5	METALS	Zinc	18.5

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Park	BS-05-.5	METALS	Beryllium	0.195
Banning Park	BS-05-.5	METALS	Barium	60.2
Banning Park	BS-05-.5	METALS	Nickel	5.24
Banning Park	BS-05-.5	METALS	Antimony	<0.306
Banning Park	BS-05-.5	METALS	Arsenic	11.9
Banning Park	BS-05-.5	METALS	Cadmium	0.116
Banning Park	BS-05-05	METALS	Selenium	<0.351
Banning Park	BS-05-05	METALS	Zinc	18.2
Banning Park	BS-05-05	METALS	Thallium	<0.232
Banning Park	BS-05-05	METALS	Antimony	<0.306
Banning Park	BS-05-05	METALS	Molybdenum	<0.0777
Banning Park	BS-05-05	METALS	Silver	<0.117
Banning Park	BS-05-05	METALS	Arsenic	2.16
Banning Park	BS-05-05	METALS	Cadmium	<0.0883
Banning Park	BS-05-05	METALS	Barium	55
Banning Park	BS-05-05	METALS	Beryllium	0.287
Banning Park	BS-05-05	SVOC	BaP TEQ	<0.00106
Banning Park	BS-05-05	METALS	Vanadium	19.2
Banning Park	BS-05-05	METALS	Chromium	9.55
Banning Park	BS-05-05	METALS	Cobalt	5.57
Banning Park	BS-05-05	METALS	Copper	4.67
Banning Park	BS-05-05	METALS	Lead	4.99
Banning Park	BS-05-05	METALS	Mercury	0.0222
Banning Park	BS-05-05	METALS	Nickel	5.85
Banning Park	BS-05-2	METALS	Thallium	<0.232
Banning Park	BS-05-2	METALS	Antimony	<0.306
Banning Park	BS-05-2	METALS	Cadmium	<0.0883
Banning Park	BS-05-2	METALS	Molybdenum	<0.0777
Banning Park	BS-05-2	SVOC	BaP TEQ	0.0011
Banning Park	BS-05-2	METALS	Selenium	<0.351
Banning Park	BS-05-2	METALS	Silver	<0.117
Banning Park	BS-05-2	METALS	Lead	5.83
Banning Park	BS-05-2	METALS	Arsenic	2.85
Banning Park	BS-05-2	METALS	Zinc	17.7
Banning Park	BS-05-2	METALS	Vanadium	15.4
Banning Park	BS-05-2	METALS	Nickel	5.45
Banning Park	BS-05-2	METALS	Mercury	0.0187
Banning Park	BS-05-2	METALS	Cobalt	4.75
Banning Park	BS-05-2	METALS	Copper	6.35
Banning Park	BS-05-2	METALS	Chromium	9.22
Banning Park	BS-05-2	METALS	Beryllium	0.214
Banning Park	BS-05-2	METALS	Barium	68.9
Banning Park	BS-06-.5	METALS	Barium	267
Banning Park	BS-06-.5	METALS	Arsenic	3.79
Banning Park	BS-06-.5	METALS	Cadmium	1.14
Banning Park	BS-06-.5	METALS	Lead	68.1
Banning Park	BS-06-.5	METALS	Chromium	19.2
Banning Park	BS-06-.5	METALS	Cobalt	5.53
Banning Park	BS-06-.5	METALS	Copper	59
Banning Park	BS-06-.5	METALS	Mercury	0.324
Banning Park	BS-06-.5	METALS	Nickel	20.8
Banning Park	BS-06-.5	METALS	Silver	1.22
Banning Park	BS-06-.5	METALS	Vanadium	22.8
Banning Park	BS-06-.5	METALS	Zinc	55.1
Banning Park	BS-06-.5	SVOC	BaP TEQ	0.0183
Banning Park	BS-06-.5	METALS	Beryllium	0.299
Banning Park	BS-06-.5	METALS	Selenium	<0.351

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Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Park	BS-06-.5	METALS	Thallium	<0.232
Banning Park	BS-06-.5	METALS	Molybdenum	0.136
Banning Park	BS-06-.5	METALS	Antimony	0.741
Banning Park	BS-06-2	METALS	Chromium	9.33
Banning Park	BS-06-2	SVOC	BaP TEQ	0.0012
Banning Park	BS-06-2	METALS	Zinc	16.8
Banning Park	BS-06-2	METALS	Vanadium	15.4
Banning Park	BS-06-2	METALS	Nickel	5.48
Banning Park	BS-06-2	METALS	Mercury	0.0349
Banning Park	BS-06-2	METALS	Lead	4.34
Banning Park	BS-06-2	METALS	Cobalt	4.53
Banning Park	BS-06-2	METALS	Cadmium	0.161
Banning Park	BS-06-2	METALS	Beryllium	0.212
Banning Park	BS-06-2	METALS	Barium	74.1
Banning Park	BS-06-2	METALS	Antimony	<0.306
Banning Park	BS-06-2	METALS	Arsenic	2.08
Banning Park	BS-06-2	METALS	Copper	8.58
Banning Park	BS-06-2	METALS	Thallium	<0.232
Banning Park	BS-06-2	METALS	Silver	<0.117
Banning Park	BS-06-2	METALS	Selenium	<0.351
Banning Park	BS-06-2	METALS	Molybdenum	<0.0777
Banning Park	BS-06-5	METALS	Lead	2.71
Banning Park	BS-06-5	METALS	Mercury	0.0306
Banning Park	BS-06-5	METALS	Nickel	4.88
Banning Park	BS-06-5	METALS	Vanadium	14.9
Banning Park	BS-06-5	METALS	Copper	3.41
Banning Park	BS-06-5	METALS	Zinc	14.5
Banning Park	BS-06-5	METALS	Arsenic	1.58
Banning Park	BS-06-5	SVOC	BaP TEQ	<0.00106
Banning Park	BS-06-5	METALS	Cadmium	<0.0883
Banning Park	BS-06-5	METALS	Cobalt	4.24
Banning Park	BS-06-5	METALS	Chromium	7.93
Banning Park	BS-06-5	METALS	Barium	40.8
Banning Park	BS-06-5	METALS	Thallium	<0.232
Banning Park	BS-06-5	METALS	Silver	<0.117
Banning Park	BS-06-5	METALS	Selenium	<0.351
Banning Park	BS-06-5	METALS	Molybdenum	<0.0777
Banning Park	BS-06-5	METALS	Antimony	<0.306
Banning Park	BS-06-5	METALS	Beryllium	0.232
Banning Park	BS-07-.5	METALS	Cobalt	5.17
Banning Park	BS-07-.5	METALS	Silver	<0.117
Banning Park	BS-07-.5	METALS	Vanadium	18
Banning Park	BS-07-.5	METALS	Zinc	42.6
Banning Park	BS-07-.5	METALS	Molybdenum	0.179
Banning Park	BS-07-.5	METALS	Mercury	0.0494
Banning Park	BS-07-.5	METALS	Nickel	7.35
Banning Park	BS-07-.5	METALS	Thallium	<0.232
Banning Park	BS-07-.5	METALS	Selenium	<0.351
Banning Park	BS-07-.5	METALS	Antimony	<0.306
Banning Park	BS-07-.5	SVOC	BaP TEQ	0.0091
Banning Park	BS-07-.5	METALS	Barium	80.5
Banning Park	BS-07-.5	METALS	Lead	24.7
Banning Park	BS-07-.5	METALS	Copper	12.2
Banning Park	BS-07-.5	METALS	Arsenic	3.36
Banning Park	BS-07-.5	METALS	Chromium	13
Banning Park	BS-07-.5	METALS	Cadmium	0.552
Banning Park	BS-07-.5	METALS	Beryllium	0.244

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Park	BS-07-2	METALS	Barium	73
Banning Park	BS-07-2	METALS	Cadmium	0.185
Banning Park	BS-07-2	METALS	Chromium	9.59
Banning Park	BS-07-2	METALS	Cobalt	4.76
Banning Park	BS-07-2	METALS	Copper	7.48
Banning Park	BS-07-2	METALS	Nickel	5.75
Banning Park	BS-07-2	METALS	Mercury	0.0227
Banning Park	BS-07-2	METALS	Vanadium	15.8
Banning Park	BS-07-2	METALS	Molybdenum	0.128
Banning Park	BS-07-2	METALS	Arsenic	1.71
Banning Park	BS-07-2	METALS	Zinc	21.8
Banning Park	BS-07-2	METALS	Lead	7.69
Banning Park	BS-07-2	METALS	Beryllium	0.221
Banning Park	BS-07-2	METALS	Silver	<0.117
Banning Park	BS-07-2	METALS	Thallium	<0.232
Banning Park	BS-07-2	METALS	Antimony	<0.306
Banning Park	BS-07-2	METALS	Selenium	<0.351
Banning Park	BS-07-2	SVOC	BaP TEQ	0.0016
Banning Park	BS-07-5	METALS	Arsenic	1.16
Banning Park	BS-07-5	METALS	Barium	46.3
Banning Park	BS-07-5	METALS	Chromium	7.92
Banning Park	BS-07-5	METALS	Lead	2.77
Banning Park	BS-07-5	METALS	Beryllium	0.21
Banning Park	BS-07-5	METALS	Mercury	0.0235
Banning Park	BS-07-5	METALS	Nickel	4.68
Banning Park	BS-07-5	METALS	Vanadium	14.1
Banning Park	BS-07-5	METALS	Zinc	13.3
Banning Park	BS-07-5	METALS	Copper	3.49
Banning Park	BS-07-5	METALS	Antimony	<0.306
Banning Park	BS-07-5	METALS	Thallium	<0.232
Banning Park	BS-07-5	METALS	Silver	<0.117
Banning Park	BS-07-5	METALS	Selenium	<0.351
Banning Park	BS-07-5	METALS	Molybdenum	<0.0777
Banning Park	BS-07-5	METALS	Cadmium	<0.0883
Banning Park	BS-07-5	SVOC	BaP TEQ	<0.00106
Banning Park	BS-07-5	METALS	Cobalt	4.19
Banning Park	BS-08-.5	METALS	Vanadium	16
Banning Park	BS-08-.5	METALS	Nickel	7.1
Banning Park	BS-08-.5	METALS	Mercury	0.0402
Banning Park	BS-08-.5	METALS	Lead	7.19
Banning Park	BS-08-.5	METALS	Copper	14.8
Banning Park	BS-08-.5	METALS	Cobalt	4.73
Banning Park	BS-08-.5	METALS	Chromium	12.6
Banning Park	BS-08-.5	METALS	Cadmium	0.61
Banning Park	BS-08-.5	METALS	Beryllium	0.223
Banning Park	BS-08-.5	METALS	Arsenic	1.96
Banning Park	BS-08-.5	METALS	Silver	0.132
Banning Park	BS-08-.5	METALS	Zinc	23.5
Banning Park	BS-08-.5	METALS	Antimony	<0.306
Banning Park	BS-08-.5	METALS	Selenium	<0.351
Banning Park	BS-08-.5	METALS	Thallium	<0.232
Banning Park	BS-08-.5	METALS	Barium	72.8
Banning Park	BS-08-.5	SVOC	BaP TEQ	0.0017
Banning Park	BS-08-.5	METALS	Molybdenum	0.154
Banning Park	BS-08-2	METALS	Silver	0.286
Banning Park	BS-08-2	METALS	Thallium	<0.232
Banning Park	BS-08-2	METALS	Mercury	0.0418

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Park	BS-08-2	METALS	Zinc	30.6
Banning Park	BS-08-2	METALS	Selenium	<0.351
Banning Park	BS-08-2	SVOC	BaP TEQ	0.0027
Banning Park	BS-08-2	METALS	Antimony	<0.306
Banning Park	BS-08-2	METALS	Nickel	6.86
Banning Park	BS-08-2	METALS	Cobalt	5.01
Banning Park	BS-08-2	METALS	Arsenic	1.6
Banning Park	BS-08-2	METALS	Lead	10.9
Banning Park	BS-08-2	METALS	Barium	81.7
Banning Park	BS-08-2	METALS	Beryllium	0.237
Banning Park	BS-08-2	METALS	Cadmium	1.03
Banning Park	BS-08-2	METALS	Chromium	16.1
Banning Park	BS-08-2	METALS	Molybdenum	0.398
Banning Park	BS-08-2	METALS	Vanadium	16.9
Banning Park	BS-08-2	METALS	Copper	12.5
Banning Park	BS-08-5	METALS	Antimony	<0.306
Banning Park	BS-08-5	METALS	Cadmium	<0.0883
Banning Park	BS-08-5	METALS	Molybdenum	<0.0777
Banning Park	BS-08-5	METALS	Selenium	<0.351
Banning Park	BS-08-5	METALS	Thallium	<0.232
Banning Park	BS-08-5	METALS	Cobalt	3.66
Banning Park	BS-08-5	METALS	Silver	<0.117
Banning Park	BS-08-5	METALS	Copper	2.69
Banning Park	BS-08-5	METALS	Arsenic	1.11
Banning Park	BS-08-5	METALS	Barium	38.3
Banning Park	BS-08-5	METALS	Beryllium	0.182
Banning Park	BS-08-5	METALS	Lead	2.3
Banning Park	BS-08-5	METALS	Chromium	6.76
Banning Park	BS-08-5	SVOC	BaP TEQ	<0.00106
Banning Park	BS-08-5	METALS	Mercury	0.0244
Banning Park	BS-08-5	METALS	Nickel	3.68
Banning Park	BS-08-5	METALS	Vanadium	12.6
Banning Park	BS-08-5	METALS	Zinc	11.5
Banning Park	BS-09-5	METALS	Thallium	<0.232
Banning Park	BS-09-5	METALS	Antimony	<0.306
Banning Park	BS-09-5	METALS	Selenium	<0.351
Banning Park	BS-09-5	SVOC	BaP TEQ	0.0058
Banning Park	BS-09-5	METALS	Cadmium	1.8
Banning Park	BS-09-5	METALS	Lead	54
Banning Park	BS-09-5	METALS	Arsenic	4.64
Banning Park	BS-09-5	METALS	Barium	87.2
Banning Park	BS-09-5	METALS	Beryllium	0.205
Banning Park	BS-09-5	METALS	Cobalt	4.7
Banning Park	BS-09-5	METALS	Copper	24.5
Banning Park	BS-09-5	METALS	Mercury	0.085
Banning Park	BS-09-5	METALS	Molybdenum	0.107
Banning Park	BS-09-5	METALS	Nickel	7.82
Banning Park	BS-09-5	METALS	Silver	0.924
Banning Park	BS-09-5	METALS	Vanadium	16.2
Banning Park	BS-09-5	METALS	Zinc	57.9
Banning Park	BS-09-5	METALS	Chromium	19.3
Banning Park	BS-09-2	METALS	Antimony	<0.306
Banning Park	BS-09-2	METALS	Chromium	10.1
Banning Park	BS-09-2	SVOC	BaP TEQ	0.0013
Banning Park	BS-09-2	METALS	Selenium	<0.351
Banning Park	BS-09-2	METALS	Molybdenum	<0.0777
Banning Park	BS-09-2	METALS	Silver	<0.117

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Park	BS-09-2	METALS	Thallium	<0.232
Banning Park	BS-09-2	METALS	Nickel	5.95
Banning Park	BS-09-2	METALS	Arsenic	1.99
Banning Park	BS-09-2	METALS	Barium	75.9
Banning Park	BS-09-2	METALS	Beryllium	0.233
Banning Park	BS-09-2	METALS	Cadmium	0.105
Banning Park	BS-09-2	METALS	Cobalt	5.06
Banning Park	BS-09-2	METALS	Copper	8.18
Banning Park	BS-09-2	METALS	Mercury	0.0234
Banning Park	BS-09-2	METALS	Vanadium	16.5
Banning Park	BS-09-2	METALS	Zinc	19
Banning Park	BS-09-2	METALS	Lead	5.58
Banning Park	BS-09-5	METALS	Mercury	0.0189
Banning Park	BS-09-5	METALS	Selenium	<0.351
Banning Park	BS-09-5	METALS	Molybdenum	<0.0777
Banning Park	BS-09-5	METALS	Cadmium	<0.0883
Banning Park	BS-09-5	METALS	Antimony	<0.306
Banning Park	BS-09-5	METALS	Thallium	<0.232
Banning Park	BS-09-5	METALS	Silver	<0.117
Banning Park	BS-09-5	METALS	Nickel	5.42
Banning Park	BS-09-5	METALS	Barium	52.6
Banning Park	BS-09-5	METALS	Lead	3.16
Banning Park	BS-09-5	METALS	Copper	4.16
Banning Park	BS-09-5	METALS	Cobalt	6.53
Banning Park	BS-09-5	SVOC	BaP TEQ	<0.00106
Banning Park	BS-09-5	METALS	Zinc	16.7
Banning Park	BS-09-5	METALS	Chromium	9.17
Banning Park	BS-09-5	METALS	Beryllium	0.262
Banning Park	BS-09-5	METALS	Arsenic	1.64
Banning Park	BS-09-5	METALS	Vanadium	18.2
Banning Park	BS-10-5	SVOC	BaP TEQ	0.0160
Banning Park	BS-10-5	METALS	Antimony	<0.306
Banning Park	BS-10-5	METALS	Cobalt	4.53
Banning Park	BS-10-5	METALS	Zinc	85.5
Banning Park	BS-10-5	METALS	Vanadium	16.5
Banning Park	BS-10-5	METALS	Silver	0.751
Banning Park	BS-10-5	METALS	Nickel	9.24
Banning Park	BS-10-5	METALS	Cadmium	1.63
Banning Park	BS-10-5	METALS	Mercury	0.107
Banning Park	BS-10-5	METALS	Lead	55.7
Banning Park	BS-10-5	METALS	Copper	26
Banning Park	BS-10-5	METALS	Selenium	<0.351
Banning Park	BS-10-5	METALS	Chromium	16.9
Banning Park	BS-10-5	METALS	Arsenic	2.59
Banning Park	BS-10-5	METALS	Barium	95.6
Banning Park	BS-10-5	METALS	Thallium	<0.232
Banning Park	BS-10-5	METALS	Beryllium	0.191
Banning Park	BS-10-5	METALS	Molybdenum	0.156
Banning Park	BS-10-2	METALS	Mercury	0.0184
Banning Park	BS-10-2	METALS	Beryllium	0.229
Banning Park	BS-10-2	METALS	Zinc	19
Banning Park	BS-10-2	METALS	Thallium	<0.232
Banning Park	BS-10-2	METALS	Barium	74.8
Banning Park	BS-10-2	METALS	Antimony	<0.306
Banning Park	BS-10-2	METALS	Cadmium	<0.0883
Banning Park	BS-10-2	METALS	Molybdenum	<0.0777
Banning Park	BS-10-2	METALS	Selenium	<0.351

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Park	BS-10-2	METALS	Vanadium	16.3
Banning Park	BS-10-2	METALS	Silver	<0.117
Banning Park	BS-10-2	METALS	Nickel	5.73
Banning Park	BS-10-2	SVOC	BaP TEQ	0.0013
Banning Park	BS-10-2	METALS	Arsenic	1.48
Banning Park	BS-10-2	METALS	Chromium	9.44
Banning Park	BS-10-2	METALS	Cobalt	5.16
Banning Park	BS-10-2	METALS	Copper	6.79
Banning Park	BS-10-2	METALS	Lead	4.45
Banning Park	BS-10-5A	METALS	Vanadium	17.5
Banning Park	BS-10-5A	SVOC	BaP TEQ	0.0026
Banning Park	BS-10-5A	METALS	Silver	<0.117
Banning Park	BS-10-5A	METALS	Antimony	<0.306
Banning Park	BS-10-5A	METALS	Zinc	24.2
Banning Park	BS-10-5A	METALS	Nickel	5.98
Banning Park	BS-10-5A	METALS	Selenium	<0.351
Banning Park	BS-10-5A	METALS	Thallium	<0.232
Banning Park	BS-10-5A	METALS	Arsenic	1.6
Banning Park	BS-10-5A	METALS	Barium	58.9
Banning Park	BS-10-5A	METALS	Beryllium	0.24
Banning Park	BS-10-5A	METALS	Mercury	0.0244
Banning Park	BS-10-5A	METALS	Chromium	10.4
Banning Park	BS-10-5A	METALS	Cobalt	5.02
Banning Park	BS-10-5A	METALS	Copper	6.31
Banning Park	BS-10-5A	METALS	Molybdenum	0.122
Banning Park	BS-10-5A	METALS	Lead	7.73
Banning Park	BS-10-5A	METALS	Cadmium	0.159
Banning Elementary School	SB-1-0.5	METALS	Antimony	<0.5
Banning Elementary School	SB-1-0.5	METALS	Cobalt	5.6
Banning Elementary School	SB-1-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-1-0.5	METALS	Lead	21.6
Banning Elementary School	SB-1-0.5	METALS	Thallium	<0.3
Banning Elementary School	SB-1-0.5	METALS	Nickel	9.2
Banning Elementary School	SB-1-0.5	METALS	Vanadium	33.9
Banning Elementary School	SB-1-0.5	METALS	Zinc	92.5
Banning Elementary School	SB-1-0.5	METALS	Copper	25.6
Banning Elementary School	SB-1-0.5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-1-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-1-0.5	METALS	Barium	575
Banning Elementary School	SB-1-0.5	METALS	Beryllium	0.4
Banning Elementary School	SB-1-0.5	METALS	Cadmium	0.2
Banning Elementary School	SB-1-0.5	METALS	Chromium	11.2
Banning Elementary School	SB-1-0.5	METALS	Arsenic	3.6
Banning Elementary School	SB-1-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-10-0.5	METALS	Cobalt	3.3
Banning Elementary School	SB-10-0.5	METALS	Cadmium	<0.1
Banning Elementary School	SB-10-0.5	METALS	Arsenic	1.6
Banning Elementary School	SB-10-0.5	METALS	Barium	38.4
Banning Elementary School	SB-10-0.5	METALS	Beryllium	0.2
Banning Elementary School	SB-10-0.5	METALS	Chromium	7.6
Banning Elementary School	SB-10-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-10-0.5	METALS	Copper	9.9
Banning Elementary School	SB-10-0.5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-10-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-10-0.5	METALS	Nickel	<2.5
Banning Elementary School	SB-10-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-10-0.5	METALS	Antimony	<0.5

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-10-0.5	METALS	Zinc	25.7
Banning Elementary School	SB-10-0.5	METALS	Vanadium	13.6
Banning Elementary School	SB-10-0.5	METALS	Lead	3.3
Banning Elementary School	SB-10-0.5	METALS	Thallium	<0.3
Banning Elementary School	SB-10-1	METALS	Silver	<2.5
Banning Elementary School	SB-10-1	METALS	Antimony	<0.5
Banning Elementary School	SB-10-1	METALS	Beryllium	<0.1
Banning Elementary School	SB-10-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-10-1	METALS	Mercury	<0.1
Banning Elementary School	SB-10-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-10-1	METALS	Selenium	<0.5
Banning Elementary School	SB-10-1	METALS	Thallium	<0.3
Banning Elementary School	SB-10-1	METALS	Zinc	13.6
Banning Elementary School	SB-10-1	METALS	Vanadium	10.5
Banning Elementary School	SB-10-1	METALS	Lead	3.2
Banning Elementary School	SB-10-1	METALS	Copper	4.3
Banning Elementary School	SB-10-1	METALS	Cobalt	2.5
Banning Elementary School	SB-10-1	METALS	Chromium	5.3
Banning Elementary School	SB-10-1	METALS	Barium	22
Banning Elementary School	SB-10-1	METALS	Arsenic	2
Banning Elementary School	SB-10-1	METALS	Nickel	<2.5
Banning Elementary School	SB-10-5	METALS	Antimony	<0.5
Banning Elementary School	SB-10-5	METALS	Zinc	47.5
Banning Elementary School	SB-10-5	METALS	Mercury	<0.1
Banning Elementary School	SB-10-5	METALS	Thallium	<0.3
Banning Elementary School	SB-10-5	METALS	Arsenic	1.7
Banning Elementary School	SB-10-5	METALS	Silver	<2.5
Banning Elementary School	SB-10-5	METALS	Selenium	<0.5
Banning Elementary School	SB-10-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-10-5	METALS	Lead	<2.5
Banning Elementary School	SB-10-5	METALS	Vanadium	30.6
Banning Elementary School	SB-10-5	METALS	Nickel	6.8
Banning Elementary School	SB-10-5	METALS	Copper	19
Banning Elementary School	SB-10-5	METALS	Cobalt	9.1
Banning Elementary School	SB-10-5	METALS	Chromium	17.6
Banning Elementary School	SB-10-5	METALS	Cadmium	0.4
Banning Elementary School	SB-10-5	METALS	Beryllium	0.4
Banning Elementary School	SB-10-5	METALS	Barium	59.5
Banning Elementary School	SB-1-1	METALS	Lead	9.4
Banning Elementary School	SB-1-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-1-1	METALS	Antimony	<0.5
Banning Elementary School	SB-1-1	METALS	Mercury	<0.1
Banning Elementary School	SB-1-1	METALS	Arsenic	2.2
Banning Elementary School	SB-1-1	METALS	Selenium	<0.5
Banning Elementary School	SB-1-1	METALS	Silver	<2.5
Banning Elementary School	SB-1-1	METALS	Thallium	<0.3
Banning Elementary School	SB-1-1	METALS	Zinc	38.3
Banning Elementary School	SB-1-1	METALS	Nickel	8
Banning Elementary School	SB-1-1	METALS	Copper	12.4
Banning Elementary School	SB-1-1	METALS	Cobalt	3.7
Banning Elementary School	SB-1-1	METALS	Chromium	12.1
Banning Elementary School	SB-1-1	METALS	Cadmium	0.2
Banning Elementary School	SB-1-1	METALS	Barium	39
Banning Elementary School	SB-1-1	METALS	Vanadium	24.6
Banning Elementary School	SB-1-1	METALS	Beryllium	0.3
Banning Elementary School	SB-11-0.5	METALS	Vanadium	12.7
Banning Elementary School	SB-11-0.5	METALS	Thallium	<0.3

**Appendix 8  
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Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-11-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-11-0.5	METALS	Nickel	<2.5
Banning Elementary School	SB-11-0.5	METALS	Beryllium	<0.1
Banning Elementary School	SB-11-0.5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-11-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-11-0.5	METALS	Cadmium	<0.1
Banning Elementary School	SB-11-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-11-0.5	METALS	Zinc	24.6
Banning Elementary School	SB-11-0.5	METALS	Lead	6
Banning Elementary School	SB-11-0.5	METALS	Copper	19.1
Banning Elementary School	SB-11-0.5	METALS	Cobalt	4.5
Banning Elementary School	SB-11-0.5	METALS	Chromium	9.4
Banning Elementary School	SB-11-0.5	METALS	Barium	36.2
Banning Elementary School	SB-11-0.5	METALS	Arsenic	1.6
Banning Elementary School	SB-11-0.5	METALS	Antimony	<0.5
Banning Elementary School	SB-11-1	METALS	Nickel	<2.5
Banning Elementary School	SB-11-1	METALS	Antimony	<0.5
Banning Elementary School	SB-11-1	METALS	Beryllium	<0.1
Banning Elementary School	SB-11-1	METALS	Mercury	<0.1
Banning Elementary School	SB-11-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-11-1	METALS	Silver	<2.5
Banning Elementary School	SB-11-1	METALS	Thallium	<0.3
Banning Elementary School	SB-11-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-11-1	METALS	Lead	4.7
Banning Elementary School	SB-11-1	METALS	Arsenic	0.9
Banning Elementary School	SB-11-1	METALS	Barium	25.9
Banning Elementary School	SB-11-1	METALS	Chromium	10.5
Banning Elementary School	SB-11-1	METALS	Selenium	<0.5
Banning Elementary School	SB-11-1	METALS	Copper	7.2
Banning Elementary School	SB-11-1	METALS	Vanadium	6.2
Banning Elementary School	SB-11-1	METALS	Zinc	11.2
Banning Elementary School	SB-11-1	METALS	Cobalt	2.9
Banning Elementary School	SB-11-5	METALS	Antimony	<0.5
Banning Elementary School	SB-11-5	METALS	Mercury	<0.1
Banning Elementary School	SB-11-5	METALS	Vanadium	36.1
Banning Elementary School	SB-11-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-11-5	METALS	Selenium	<0.5
Banning Elementary School	SB-11-5	METALS	Nickel	5.1
Banning Elementary School	SB-11-5	METALS	Silver	<2.5
Banning Elementary School	SB-11-5	METALS	Thallium	<0.3
Banning Elementary School	SB-11-5	METALS	Zinc	51.2
Banning Elementary School	SB-11-5	METALS	Barium	86.7
Banning Elementary School	SB-11-5	METALS	Beryllium	<0.1
Banning Elementary School	SB-11-5	METALS	Lead	9.3
Banning Elementary School	SB-11-5	METALS	Copper	26
Banning Elementary School	SB-11-5	METALS	Cobalt	9.2
Banning Elementary School	SB-11-5	METALS	Chromium	21.6
Banning Elementary School	SB-11-5	METALS	Arsenic	9
Banning Elementary School	SB-11-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-12-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-12-0.5	METALS	Antimony	<0.5
Banning Elementary School	SB-12-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-12-0.5	METALS	Vanadium	26.9
Banning Elementary School	SB-12-0.5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-12-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-12-0.5	METALS	Chromium	10.7
Banning Elementary School	SB-12-0.5	METALS	Cadmium	<0.1

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-12-0.5	METALS	Lead	16.5
Banning Elementary School	SB-12-0.5	METALS	Cobalt	5.4
Banning Elementary School	SB-12-0.5	METALS	Beryllium	0.3
Banning Elementary School	SB-12-0.5	METALS	Barium	47.2
Banning Elementary School	SB-12-0.5	METALS	Arsenic	1.3
Banning Elementary School	SB-12-0.5	METALS	Zinc	54
Banning Elementary School	SB-12-0.5	METALS	Nickel	3.4
Banning Elementary School	SB-12-0.5	METALS	Thallium	<0.3
Banning Elementary School	SB-12-0.5	METALS	Copper	18.7
Banning Elementary School	SB-12-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-12-1	METALS	Thallium	<0.3
Banning Elementary School	SB-12-1	METALS	Silver	<2.5
Banning Elementary School	SB-12-1	METALS	Selenium	<0.5
Banning Elementary School	SB-12-1	METALS	Nickel	<2.5
Banning Elementary School	SB-12-1	METALS	Mercury	<0.1
Banning Elementary School	SB-12-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-12-1	METALS	Barium	51
Banning Elementary School	SB-12-1	METALS	Zinc	34.9
Banning Elementary School	SB-12-1	METALS	Vanadium	21.5
Banning Elementary School	SB-12-1	METALS	Lead	5.7
Banning Elementary School	SB-12-1	METALS	Copper	14.1
Banning Elementary School	SB-12-1	METALS	Beryllium	0.3
Banning Elementary School	SB-12-1	METALS	Cobalt	6.2
Banning Elementary School	SB-12-1	METALS	Arsenic	1.1
Banning Elementary School	SB-12-1	METALS	Antimony	<0.5
Banning Elementary School	SB-12-1	METALS	Chromium	11.2
Banning Elementary School	SB-12-5	METALS	Lead	4.1
Banning Elementary School	SB-12-5	METALS	Chromium	6.1
Banning Elementary School	SB-12-5	METALS	Beryllium	0.2
Banning Elementary School	SB-12-5	METALS	Barium	27.1
Banning Elementary School	SB-12-5	METALS	Arsenic	1.3
Banning Elementary School	SB-12-5	METALS	Nickel	<2.5
Banning Elementary School	SB-12-5	METALS	Selenium	<0.5
Banning Elementary School	SB-12-5	METALS	Silver	<2.5
Banning Elementary School	SB-12-5	METALS	Copper	7.3
Banning Elementary School	SB-12-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-12-5	METALS	Vanadium	12.5
Banning Elementary School	SB-12-5	METALS	Cobalt	3.5
Banning Elementary School	SB-12-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-12-5	METALS	Zinc	20.1
Banning Elementary School	SB-12-5	METALS	Mercury	<0.1
Banning Elementary School	SB-12-5	METALS	Antimony	<0.5
Banning Elementary School	SB-12-5	METALS	Thallium	<0.3
Banning Elementary School	SB-13-0	METALS	Cobalt	6.1
Banning Elementary School	SB-13-0	METALS	Cadmium	0.5
Banning Elementary School	SB-13-0	METALS	Nickel	14.1
Banning Elementary School	SB-13-0	METALS	Chromium	14.8
Banning Elementary School	SB-13-0	METALS	Vanadium	28.1
Banning Elementary School	SB-13-0	METALS	Zinc	102
Banning Elementary School	SB-13-0	METALS	Lead	30.8
Banning Elementary School	SB-13-0	METALS	Selenium	<0.5
Banning Elementary School	SB-13-0	METALS	Beryllium	0.3
Banning Elementary School	SB-13-0	METALS	Copper	21.5
Banning Elementary School	SB-13-0	METALS	Mercury	<0.1
Banning Elementary School	SB-13-0	METALS	Molybdenum	<2.5
Banning Elementary School	SB-13-0	METALS	Silver	<2.5
Banning Elementary School	SB-13-0	METALS	Thallium	<0.3

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-13-0	METALS	Arsenic	2.9
Banning Elementary School	SB-13-0	METALS	Antimony	<0.5
Banning Elementary School	SB-13-0	METALS	Barium	108
Banning Elementary School	SB-13-1	METALS	Antimony	<0.5
Banning Elementary School	SB-13-1	METALS	Thallium	<0.3
Banning Elementary School	SB-13-1	METALS	Nickel	27.2
Banning Elementary School	SB-13-1	METALS	Selenium	<0.5
Banning Elementary School	SB-13-1	METALS	Mercury	<0.1
Banning Elementary School	SB-13-1	METALS	Vanadium	47.1
Banning Elementary School	SB-13-1	METALS	Silver	<2.5
Banning Elementary School	SB-13-1	METALS	Arsenic	1.6
Banning Elementary School	SB-13-1	METALS	Copper	44.1
Banning Elementary School	SB-13-1	METALS	Cobalt	15.7
Banning Elementary School	SB-13-1	METALS	Chromium	36.5
Banning Elementary School	SB-13-1	METALS	Cadmium	0.6
Banning Elementary School	SB-13-1	METALS	Beryllium	0.8
Banning Elementary School	SB-13-1	METALS	Barium	116
Banning Elementary School	SB-13-1	METALS	Zinc	75.5
Banning Elementary School	SB-13-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-13-1	METALS	Lead	12.9
Banning Elementary School	SB-13-5	METALS	Zinc	65.5
Banning Elementary School	SB-13-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-13-5	METALS	Vanadium	44
Banning Elementary School	SB-13-5	METALS	Silver	<2.5
Banning Elementary School	SB-13-5	METALS	Mercury	<0.1
Banning Elementary School	SB-13-5	METALS	Selenium	<0.5
Banning Elementary School	SB-13-5	METALS	Nickel	25.3
Banning Elementary School	SB-13-5	METALS	Lead	13.2
Banning Elementary School	SB-13-5	METALS	Copper	37.8
Banning Elementary School	SB-13-5	METALS	Chromium	29.3
Banning Elementary School	SB-13-5	METALS	Antimony	<0.5
Banning Elementary School	SB-13-5	METALS	Thallium	<0.3
Banning Elementary School	SB-13-5	METALS	Cobalt	13.5
Banning Elementary School	SB-13-5	METALS	Arsenic	1.2
Banning Elementary School	SB-13-5	METALS	Barium	110
Banning Elementary School	SB-13-5	METALS	Beryllium	0.7
Banning Elementary School	SB-13-5	METALS	Cadmium	0.4
Banning Elementary School	SB-14-0	METALS	Mercury	<0.1
Banning Elementary School	SB-14-0	METALS	Thallium	<0.3
Banning Elementary School	SB-14-0	METALS	Silver	<2.5
Banning Elementary School	SB-14-0	METALS	Selenium	<0.5
Banning Elementary School	SB-14-0	METALS	Zinc	108
Banning Elementary School	SB-14-0	METALS	Beryllium	0.2
Banning Elementary School	SB-14-0	METALS	Arsenic	2
Banning Elementary School	SB-14-0	METALS	Barium	78.5
Banning Elementary School	SB-14-0	METALS	Molybdenum	<2.5
Banning Elementary School	SB-14-0	METALS	Antimony	<0.5
Banning Elementary School	SB-14-0	METALS	Lead	47.8
Banning Elementary School	SB-14-0	METALS	Vanadium	20.8
Banning Elementary School	SB-14-0	METALS	Nickel	18.2
Banning Elementary School	SB-14-0	METALS	Copper	25.6
Banning Elementary School	SB-14-0	METALS	Cobalt	6.3
Banning Elementary School	SB-14-0	METALS	Chromium	10.9
Banning Elementary School	SB-14-0	METALS	Cadmium	0.6
Banning Elementary School	SB-14-1	METALS	Nickel	8.9
Banning Elementary School	SB-14-1	METALS	Mercury	<0.1
Banning Elementary School	SB-14-1	METALS	Molybdenum	<2.5

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-14-1	METALS	Selenium	<0.5
Banning Elementary School	SB-14-1	METALS	Silver	<2.5
Banning Elementary School	SB-14-1	METALS	Thallium	<0.3
Banning Elementary School	SB-14-1	METALS	Cadmium	0.3
Banning Elementary School	SB-14-1	METALS	Antimony	<0.5
Banning Elementary School	SB-14-1	METALS	Barium	47
Banning Elementary School	SB-14-1	METALS	Zinc	31.7
Banning Elementary School	SB-14-1	METALS	Vanadium	20.4
Banning Elementary School	SB-14-1	METALS	Lead	5.7
Banning Elementary School	SB-14-1	METALS	Copper	17.1
Banning Elementary School	SB-14-1	METALS	Cobalt	5.4
Banning Elementary School	SB-14-1	METALS	Chromium	10.8
Banning Elementary School	SB-14-1	METALS	Beryllium	0.3
Banning Elementary School	SB-14-1	METALS	Arsenic	2
Banning Elementary School	SB-14-5	METALS	Vanadium	28.8
Banning Elementary School	SB-14-5	METALS	Cadmium	0.4
Banning Elementary School	SB-14-5	METALS	Antimony	<0.5
Banning Elementary School	SB-14-5	METALS	Mercury	<0.1
Banning Elementary School	SB-14-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-14-5	METALS	Selenium	<0.5
Banning Elementary School	SB-14-5	METALS	Silver	<2.5
Banning Elementary School	SB-14-5	METALS	Barium	75
Banning Elementary School	SB-14-5	METALS	Zinc	47.9
Banning Elementary School	SB-14-5	METALS	Arsenic	2.7
Banning Elementary School	SB-14-5	METALS	Nickel	12.9
Banning Elementary School	SB-14-5	METALS	Lead	6.4
Banning Elementary School	SB-14-5	METALS	Copper	18.4
Banning Elementary School	SB-14-5	METALS	Cobalt	8.8
Banning Elementary School	SB-14-5	METALS	Chromium	14.3
Banning Elementary School	SB-14-5	METALS	Thallium	<0.3
Banning Elementary School	SB-14-5	METALS	Beryllium	0.4
Banning Elementary School	SB-1-5	METALS	Lead	5.9
Banning Elementary School	SB-1-5	METALS	Mercury	<0.1
Banning Elementary School	SB-1-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-1-5	METALS	Selenium	<0.5
Banning Elementary School	SB-1-5	METALS	Silver	<2.5
Banning Elementary School	SB-1-5	METALS	Zinc	46.4
Banning Elementary School	SB-1-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-1-5	METALS	Nickel	13.4
Banning Elementary School	SB-1-5	METALS	Antimony	<0.5
Banning Elementary School	SB-1-5	METALS	Copper	18.6
Banning Elementary School	SB-1-5	METALS	Cobalt	7.6
Banning Elementary School	SB-1-5	METALS	Chromium	17.1
Banning Elementary School	SB-1-5	METALS	Beryllium	0.4
Banning Elementary School	SB-1-5	METALS	Barium	58.5
Banning Elementary School	SB-1-5	METALS	Arsenic	3.7
Banning Elementary School	SB-1-5	METALS	Vanadium	29.1
Banning Elementary School	SB-1-5	METALS	Thallium	<0.3
Banning Elementary School	SB-15-0	METALS	Arsenic	1.8
Banning Elementary School	SB-15-0	METALS	Zinc	93.5
Banning Elementary School	SB-15-0	METALS	Antimony	<0.5
Banning Elementary School	SB-15-0	METALS	Beryllium	0.2
Banning Elementary School	SB-15-0	METALS	Nickel	9.2
Banning Elementary School	SB-15-0	METALS	Vanadium	20.3
Banning Elementary School	SB-15-0	METALS	Cadmium	0.4
Banning Elementary School	SB-15-0	METALS	Chromium	10.7
Banning Elementary School	SB-15-0	METALS	Cobalt	5.1

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-15-0	METALS	Mercury	<0.1
Banning Elementary School	SB-15-0	METALS	Lead	52.5
Banning Elementary School	SB-15-0	METALS	Thallium	<0.3
Banning Elementary School	SB-15-0	METALS	Silver	<2.5
Banning Elementary School	SB-15-0	METALS	Selenium	<0.5
Banning Elementary School	SB-15-0	METALS	Molybdenum	<2.5
Banning Elementary School	SB-15-0	METALS	Copper	26.8
Banning Elementary School	SB-15-0	METALS	Barium	78
Banning Elementary School	SB-15-1	METALS	Zinc	30.6
Banning Elementary School	SB-15-1	METALS	Thallium	<0.3
Banning Elementary School	SB-15-1	METALS	Silver	<2.5
Banning Elementary School	SB-15-1	METALS	Selenium	<0.5
Banning Elementary School	SB-15-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-15-1	METALS	Mercury	<0.1
Banning Elementary School	SB-15-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-15-1	METALS	Cobalt	5.2
Banning Elementary School	SB-15-1	METALS	Chromium	9.7
Banning Elementary School	SB-15-1	METALS	Barium	37.2
Banning Elementary School	SB-15-1	METALS	Arsenic	1.7
Banning Elementary School	SB-15-1	METALS	Antimony	<0.5
Banning Elementary School	SB-15-1	METALS	Vanadium	20
Banning Elementary School	SB-15-1	METALS	Lead	5.1
Banning Elementary School	SB-15-1	METALS	Copper	19.1
Banning Elementary School	SB-15-1	METALS	Beryllium	0.2
Banning Elementary School	SB-15-1	METALS	Nickel	7.6
Banning Elementary School	SB-15-5	METALS	Vanadium	23.8
Banning Elementary School	SB-15-5	METALS	Barium	57.5
Banning Elementary School	SB-15-5	METALS	Beryllium	0.6
Banning Elementary School	SB-15-5	METALS	Cadmium	0.4
Banning Elementary School	SB-15-5	METALS	Chromium	12.2
Banning Elementary School	SB-15-5	METALS	Cobalt	7.7
Banning Elementary School	SB-15-5	METALS	Copper	15.3
Banning Elementary School	SB-15-5	METALS	Arsenic	2.6
Banning Elementary School	SB-15-5	METALS	Nickel	10.9
Banning Elementary School	SB-15-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-15-5	METALS	Zinc	41.6
Banning Elementary School	SB-15-5	METALS	Antimony	<0.5
Banning Elementary School	SB-15-5	METALS	Mercury	<0.1
Banning Elementary School	SB-15-5	METALS	Selenium	<0.5
Banning Elementary School	SB-15-5	METALS	Silver	<2.5
Banning Elementary School	SB-15-5	METALS	Thallium	<0.3
Banning Elementary School	SB-15-5	METALS	Lead	4.4
Banning Elementary School	SB-16-0	METALS	Cadmium	0.3
Banning Elementary School	SB-16-0	METALS	Nickel	11.3
Banning Elementary School	SB-16-0	METALS	Lead	43.6
Banning Elementary School	SB-16-0	METALS	Copper	23.1
Banning Elementary School	SB-16-0	METALS	Cobalt	5
Banning Elementary School	SB-16-0	METALS	Chromium	11.7
Banning Elementary School	SB-16-0	METALS	Vanadium	22.6
Banning Elementary School	SB-16-0	METALS	Beryllium	0.2
Banning Elementary School	SB-16-0	METALS	Arsenic	2.1
Banning Elementary School	SB-16-0	METALS	Thallium	<0.3
Banning Elementary School	SB-16-0	METALS	Silver	<2.5
Banning Elementary School	SB-16-0	METALS	Selenium	<0.5
Banning Elementary School	SB-16-0	METALS	Molybdenum	<2.5
Banning Elementary School	SB-16-0	METALS	Mercury	<0.1
Banning Elementary School	SB-16-0	METALS	Antimony	<0.5

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-16-0	METALS	Barium	54
Banning Elementary School	SB-16-0	METALS	Zinc	79.5
Banning Elementary School	SB-16-1	METALS	Beryllium	0.2
Banning Elementary School	SB-16-1	METALS	Zinc	30.9
Banning Elementary School	SB-16-1	METALS	Vanadium	18.4
Banning Elementary School	SB-16-1	METALS	Nickel	7.8
Banning Elementary School	SB-16-1	METALS	Lead	4.4
Banning Elementary School	SB-16-1	METALS	Copper	13.3
Banning Elementary School	SB-16-1	METALS	Arsenic	2.3
Banning Elementary School	SB-16-1	METALS	Cobalt	4.7
Banning Elementary School	SB-16-1	METALS	Thallium	<0.3
Banning Elementary School	SB-16-1	METALS	Barium	39.6
Banning Elementary School	SB-16-1	METALS	Silver	<2.5
Banning Elementary School	SB-16-1	METALS	Chromium	8.05
Banning Elementary School	SB-16-1	METALS	Antimony	<0.5
Banning Elementary School	SB-16-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-16-1	METALS	Mercury	<0.1
Banning Elementary School	SB-16-1	METALS	Selenium	<0.5
Banning Elementary School	SB-16-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-16-5	METALS	Antimony	<0.5
Banning Elementary School	SB-16-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-16-5	METALS	Cobalt	3.8
Banning Elementary School	SB-16-5	METALS	Selenium	<0.5
Banning Elementary School	SB-16-5	METALS	Chromium	6.5
Banning Elementary School	SB-16-5	METALS	Thallium	<0.3
Banning Elementary School	SB-16-5	METALS	Lead	2.8
Banning Elementary School	SB-16-5	METALS	Mercury	<0.1
Banning Elementary School	SB-16-5	METALS	Vanadium	13.5
Banning Elementary School	SB-16-5	METALS	Silver	<2.5
Banning Elementary School	SB-16-5	METALS	Beryllium	<0.1
Banning Elementary School	SB-16-5	METALS	Barium	32.8
Banning Elementary School	SB-16-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-16-5	METALS	Arsenic	2.6
Banning Elementary School	SB-16-5	METALS	Zinc	24.4
Banning Elementary School	SB-16-5	METALS	Nickel	5.9
Banning Elementary School	SB-16-5	METALS	Copper	12.1
Banning Elementary School	SB-17-0	METALS	Antimony	<0.5
Banning Elementary School	SB-17-0	METALS	Lead	6.1
Banning Elementary School	SB-17-0	METALS	Copper	29.6
Banning Elementary School	SB-17-0	METALS	Arsenic	0.9
Banning Elementary School	SB-17-0	METALS	Barium	28.5
Banning Elementary School	SB-17-0	METALS	Beryllium	0.2
Banning Elementary School	SB-17-0	METALS	Cadmium	0.4
Banning Elementary School	SB-17-0	METALS	Chromium	11.7
Banning Elementary School	SB-17-0	METALS	Vanadium	14.3
Banning Elementary School	SB-17-0	METALS	Cobalt	3.8
Banning Elementary School	SB-17-0	METALS	Mercury	<0.1
Banning Elementary School	SB-17-0	METALS	Nickel	6.4
Banning Elementary School	SB-17-0	METALS	Zinc	36.5
Banning Elementary School	SB-17-0	METALS	Thallium	<0.3
Banning Elementary School	SB-17-0	METALS	Silver	<2.5
Banning Elementary School	SB-17-0	METALS	Selenium	<0.5
Banning Elementary School	SB-17-0	METALS	Molybdenum	<2.5
Banning Elementary School	SB-17-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-17-1	METALS	Antimony	<0.5
Banning Elementary School	SB-17-1	METALS	Beryllium	<0.1
Banning Elementary School	SB-17-1	METALS	Mercury	<0.1

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-17-1	METALS	Selenium	<0.5
Banning Elementary School	SB-17-1	METALS	Nickel	3.3
Banning Elementary School	SB-17-1	METALS	Silver	<2.5
Banning Elementary School	SB-17-1	METALS	Thallium	<0.3
Banning Elementary School	SB-17-1	METALS	Cobalt	<2.5
Banning Elementary School	SB-17-1	METALS	Copper	18.2
Banning Elementary School	SB-17-1	METALS	Zinc	17.1
Banning Elementary School	SB-17-1	METALS	Arsenic	0.9
Banning Elementary School	SB-17-1	METALS	Barium	17.7
Banning Elementary School	SB-17-1	METALS	Chromium	8.5
Banning Elementary School	SB-17-1	METALS	Vanadium	7.2
Banning Elementary School	SB-17-1	METALS	Lead	4.3
Banning Elementary School	SB-17-1	METALS	Cadmium	0.2
Banning Elementary School	SB-17-5	METALS	Mercury	<0.1
Banning Elementary School	SB-17-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-17-5	METALS	Selenium	<0.5
Banning Elementary School	SB-17-5	METALS	Antimony	<0.5
Banning Elementary School	SB-17-5	METALS	Silver	<2.5
Banning Elementary School	SB-17-5	METALS	Thallium	<0.3
Banning Elementary School	SB-17-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-17-5	METALS	Arsenic	<0.3
Banning Elementary School	SB-17-5	METALS	Lead	2.9
Banning Elementary School	SB-17-5	METALS	Zinc	14.2
Banning Elementary School	SB-17-5	METALS	Nickel	3.8
Banning Elementary School	SB-17-5	METALS	Barium	43.2
Banning Elementary School	SB-17-5	METALS	Beryllium	0.2
Banning Elementary School	SB-17-5	METALS	Chromium	6.4
Banning Elementary School	SB-17-5	METALS	Vanadium	11.1
Banning Elementary School	SB-17-5	METALS	Cobalt	3.2
Banning Elementary School	SB-17-5	METALS	Copper	6.7
Banning Elementary School	SB-18-0	METALS	Antimony	<0.5
Banning Elementary School	SB-18-0	METALS	Mercury	<0.1
Banning Elementary School	SB-18-0	METALS	Molybdenum	<2.5
Banning Elementary School	SB-18-0	METALS	Selenium	<0.5
Banning Elementary School	SB-18-0	METALS	Silver	<2.5
Banning Elementary School	SB-18-0	METALS	Thallium	<0.3
Banning Elementary School	SB-18-0	METALS	Cadmium	0.6
Banning Elementary School	SB-18-0	METALS	Zinc	119
Banning Elementary School	SB-18-0	METALS	Vanadium	25.2
Banning Elementary School	SB-18-0	METALS	Nickel	12.3
Banning Elementary School	SB-18-0	METALS	Lead	57
Banning Elementary School	SB-18-0	METALS	Copper	36.5
Banning Elementary School	SB-18-0	METALS	Cobalt	6.3
Banning Elementary School	SB-18-0	METALS	Arsenic	1
Banning Elementary School	SB-18-0	METALS	Beryllium	0.3
Banning Elementary School	SB-18-0	METALS	Barium	79.5
Banning Elementary School	SB-18-0	METALS	Chromium	10.9
Banning Elementary School	SB-18-1	METALS	Cadmium	0.3
Banning Elementary School	SB-18-1	METALS	Selenium	<0.5
Banning Elementary School	SB-18-1	METALS	Antimony	<0.5
Banning Elementary School	SB-18-1	METALS	Mercury	<0.1
Banning Elementary School	SB-18-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-18-1	METALS	Thallium	<0.3
Banning Elementary School	SB-18-1	METALS	Silver	<2.5
Banning Elementary School	SB-18-1	METALS	Arsenic	0.9
Banning Elementary School	SB-18-1	METALS	Zinc	30.7
Banning Elementary School	SB-18-1	METALS	Chromium	7

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-18-1	METALS	Cobalt	3.3
Banning Elementary School	SB-18-1	METALS	Copper	9.9
Banning Elementary School	SB-18-1	METALS	Lead	8.5
Banning Elementary School	SB-18-1	METALS	Nickel	5.6
Banning Elementary School	SB-18-1	METALS	Vanadium	11.8
Banning Elementary School	SB-18-1	METALS	Beryllium	0.2
Banning Elementary School	SB-18-1	METALS	Barium	26.5
Banning Elementary School	SB-18-5	METALS	Arsenic	0.4
Banning Elementary School	SB-18-5	METALS	Zinc	15.2
Banning Elementary School	SB-18-5	METALS	Vanadium	12.1
Banning Elementary School	SB-18-5	METALS	Nickel	4.3
Banning Elementary School	SB-18-5	METALS	Lead	4.2
Banning Elementary School	SB-18-5	METALS	Copper	9.5
Banning Elementary School	SB-18-5	METALS	Cobalt	3.4
Banning Elementary School	SB-18-5	METALS	Beryllium	0.2
Banning Elementary School	SB-18-5	METALS	Chromium	6.7
Banning Elementary School	SB-18-5	METALS	Silver	<2.5
Banning Elementary School	SB-18-5	METALS	Antimony	<0.5
Banning Elementary School	SB-18-5	METALS	Barium	53.5
Banning Elementary School	SB-18-5	METALS	Thallium	<0.3
Banning Elementary School	SB-18-5	METALS	Selenium	<0.5
Banning Elementary School	SB-18-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-18-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-18-5	METALS	Mercury	<0.1
Banning Elementary School	SB-19-0	METALS	Arsenic	<0.3
Banning Elementary School	SB-19-0	METALS	Barium	32.1
Banning Elementary School	SB-19-0	METALS	Beryllium	0.2
Banning Elementary School	SB-19-0	METALS	Chromium	8
Banning Elementary School	SB-19-0	METALS	Thallium	<0.3
Banning Elementary School	SB-19-0	METALS	Silver	<2.5
Banning Elementary School	SB-19-0	METALS	Selenium	<0.5
Banning Elementary School	SB-19-0	METALS	Molybdenum	<2.5
Banning Elementary School	SB-19-0	METALS	Antimony	<0.5
Banning Elementary School	SB-19-0	METALS	Cadmium	<0.1
Banning Elementary School	SB-19-0	METALS	Copper	7.7
Banning Elementary School	SB-19-0	METALS	Mercury	<0.1
Banning Elementary School	SB-19-0	METALS	Cobalt	4.1
Banning Elementary School	SB-19-0	METALS	Zinc	20
Banning Elementary School	SB-19-0	METALS	Vanadium	15.9
Banning Elementary School	SB-19-0	METALS	Nickel	6.1
Banning Elementary School	SB-19-0	METALS	Lead	9.3
Banning Elementary School	SB-19-1	METALS	Arsenic	0.4
Banning Elementary School	SB-19-1	METALS	Thallium	<0.3
Banning Elementary School	SB-19-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-19-1	METALS	Barium	33
Banning Elementary School	SB-19-1	METALS	Chromium	5.4
Banning Elementary School	SB-19-1	METALS	Cobalt	2.9
Banning Elementary School	SB-19-1	METALS	Copper	4.4
Banning Elementary School	SB-19-1	METALS	Selenium	<0.5
Banning Elementary School	SB-19-1	METALS	Lead	3.6
Banning Elementary School	SB-19-1	METALS	Silver	<2.5
Banning Elementary School	SB-19-1	METALS	Mercury	<0.1
Banning Elementary School	SB-19-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-19-1	METALS	Antimony	<0.5
Banning Elementary School	SB-19-1	METALS	Nickel	4.1
Banning Elementary School	SB-19-1	METALS	Zinc	13.2
Banning Elementary School	SB-19-1	METALS	Vanadium	9.5

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-19-1	METALS	Beryllium	<0.1
Banning Elementary School	SB-19-5	METALS	Thallium	<0.3
Banning Elementary School	SB-19-5	METALS	Arsenic	0.8
Banning Elementary School	SB-19-5	METALS	Silver	<2.5
Banning Elementary School	SB-19-5	METALS	Barium	51
Banning Elementary School	SB-19-5	METALS	Cobalt	3.6
Banning Elementary School	SB-19-5	METALS	Beryllium	0.2
Banning Elementary School	SB-19-5	METALS	Zinc	12.3
Banning Elementary School	SB-19-5	METALS	Vanadium	12.2
Banning Elementary School	SB-19-5	METALS	Antimony	<0.5
Banning Elementary School	SB-19-5	METALS	Nickel	4.5
Banning Elementary School	SB-19-5	METALS	Copper	5.2
Banning Elementary School	SB-19-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-19-5	METALS	Mercury	<0.1
Banning Elementary School	SB-19-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-19-5	METALS	Chromium	6.8
Banning Elementary School	SB-19-5	METALS	Selenium	<0.5
Banning Elementary School	SB-19-5	METALS	Lead	2.8
Banning Elementary School	SB-2-0.5	METALS	Vanadium	40.3
Banning Elementary School	SB-2-0.5	METALS	Zinc	291
Banning Elementary School	SB-2-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-2-0.5	METALS	Thallium	<0.3
Banning Elementary School	SB-2-0.5	METALS	Arsenic	3.1
Banning Elementary School	SB-2-0.5	METALS	Antimony	<0.5
Banning Elementary School	SB-2-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-2-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-2-0.5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-2-0.5	METALS	Barium	155
Banning Elementary School	SB-2-0.5	METALS	Beryllium	0.5
Banning Elementary School	SB-2-0.5	METALS	Cadmium	0.3
Banning Elementary School	SB-2-0.5	METALS	Cobalt	7.4
Banning Elementary School	SB-2-0.5	METALS	Copper	25.4
Banning Elementary School	SB-2-0.5	METALS	Lead	43.3
Banning Elementary School	SB-2-0.5	METALS	Nickel	15.9
Banning Elementary School	SB-2-0.5	METALS	Chromium	21.2
Banning Elementary School	SB-20-0	METALS	Beryllium	0.3
Banning Elementary School	SB-20-0	METALS	Lead	11.9
Banning Elementary School	SB-20-0	METALS	Zinc	107
Banning Elementary School	SB-20-0	METALS	Vanadium	25
Banning Elementary School	SB-20-0	METALS	Nickel	17.8
Banning Elementary School	SB-20-0	METALS	Mercury	<0.1
Banning Elementary School	SB-20-0	METALS	Copper	22.7
Banning Elementary School	SB-20-0	METALS	Antimony	<0.5
Banning Elementary School	SB-20-0	METALS	Molybdenum	<2.5
Banning Elementary School	SB-20-0	METALS	Selenium	<0.5
Banning Elementary School	SB-20-0	METALS	Silver	<2.5
Banning Elementary School	SB-20-0	METALS	Thallium	<0.3
Banning Elementary School	SB-20-0	METALS	Cadmium	0.7
Banning Elementary School	SB-20-0	METALS	Barium	428
Banning Elementary School	SB-20-0	METALS	Arsenic	1.3
Banning Elementary School	SB-20-0	METALS	Cobalt	5.4
Banning Elementary School	SB-20-0	METALS	Chromium	21
Banning Elementary School	SB-20-1	METALS	Nickel	4
Banning Elementary School	SB-20-1	METALS	Vanadium	9.3
Banning Elementary School	SB-20-1	METALS	Antimony	<0.5
Banning Elementary School	SB-20-1	METALS	Beryllium	<0.1
Banning Elementary School	SB-20-1	METALS	Cadmium	<0.1

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-20-1	METALS	Lead	<2.5
Banning Elementary School	SB-20-1	METALS	Mercury	<0.1
Banning Elementary School	SB-20-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-20-1	METALS	Selenium	<0.5
Banning Elementary School	SB-20-1	METALS	Silver	<2.5
Banning Elementary School	SB-20-1	METALS	Barium	24
Banning Elementary School	SB-20-1	METALS	Chromium	5.5
Banning Elementary School	SB-20-1	METALS	Zinc	21.4
Banning Elementary School	SB-20-1	METALS	Copper	9.5
Banning Elementary School	SB-20-1	METALS	Thallium	<0.3
Banning Elementary School	SB-20-1	METALS	Arsenic	1.1
Banning Elementary School	SB-20-1	METALS	Cobalt	2.7
Banning Elementary School	SB-20-5	METALS	Arsenic	0.5
Banning Elementary School	SB-20-5	METALS	Barium	41.9
Banning Elementary School	SB-20-5	METALS	Chromium	5.6
Banning Elementary School	SB-20-5	METALS	Cobalt	2.9
Banning Elementary School	SB-20-5	METALS	Copper	7.7
Banning Elementary School	SB-20-5	METALS	Lead	7.1
Banning Elementary School	SB-20-5	METALS	Nickel	3.4
Banning Elementary School	SB-20-5	METALS	Vanadium	9.8
Banning Elementary School	SB-20-5	METALS	Zinc	14.8
Banning Elementary School	SB-20-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-20-5	METALS	Mercury	<0.1
Banning Elementary School	SB-20-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-20-5	METALS	Selenium	<0.5
Banning Elementary School	SB-20-5	METALS	Silver	<2.5
Banning Elementary School	SB-20-5	METALS	Thallium	<0.3
Banning Elementary School	SB-20-5	METALS	Beryllium	<0.1
Banning Elementary School	SB-20-5	METALS	Antimony	<0.5
Banning Elementary School	SB-2-1	METALS	Cobalt	7.3
Banning Elementary School	SB-2-1	METALS	Beryllium	0.4
Banning Elementary School	SB-2-1	METALS	Lead	6.1
Banning Elementary School	SB-2-1	METALS	Zinc	114
Banning Elementary School	SB-2-1	METALS	Copper	14.8
Banning Elementary School	SB-2-1	METALS	Barium	72
Banning Elementary School	SB-2-1	METALS	Chromium	16.5
Banning Elementary School	SB-2-1	METALS	Thallium	<0.3
Banning Elementary School	SB-2-1	METALS	Cadmium	0.2
Banning Elementary School	SB-2-1	METALS	Arsenic	2.7
Banning Elementary School	SB-2-1	METALS	Vanadium	29.5
Banning Elementary School	SB-2-1	METALS	Nickel	13.1
Banning Elementary School	SB-2-1	METALS	Silver	<2.5
Banning Elementary School	SB-2-1	METALS	Selenium	<0.5
Banning Elementary School	SB-2-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-2-1	METALS	Mercury	<0.1
Banning Elementary School	SB-2-1	METALS	Antimony	<0.5
Banning Elementary School	SB-21-0	METALS	Nickel	6.3
Banning Elementary School	SB-21-0	METALS	Zinc	23
Banning Elementary School	SB-21-0	METALS	Arsenic	0.9
Banning Elementary School	SB-21-0	METALS	Vanadium	16.3
Banning Elementary School	SB-21-0	METALS	Lead	4.4
Banning Elementary School	SB-21-0	METALS	Copper	7
Banning Elementary School	SB-21-0	METALS	Cobalt	4.7
Banning Elementary School	SB-21-0	METALS	Chromium	7.9
Banning Elementary School	SB-21-0	METALS	Barium	37.2
Banning Elementary School	SB-21-0	METALS	Thallium	<0.3
Banning Elementary School	SB-21-0	METALS	Silver	<2.5

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-21-0	METALS	Selenium	<0.5
Banning Elementary School	SB-21-0	METALS	Molybdenum	<2.5
Banning Elementary School	SB-21-0	METALS	Mercury	<0.1
Banning Elementary School	SB-21-0	METALS	Cadmium	<0.1
Banning Elementary School	SB-21-0	METALS	Antimony	<0.5
Banning Elementary School	SB-21-0	METALS	Beryllium	0.2
Banning Elementary School	SB-21-1	METALS	Barium	21.6
Banning Elementary School	SB-21-1	METALS	Arsenic	1
Banning Elementary School	SB-21-1	METALS	Chromium	4.4
Banning Elementary School	SB-21-1	METALS	Copper	3.5
Banning Elementary School	SB-21-1	METALS	Nickel	3
Banning Elementary School	SB-21-1	METALS	Vanadium	8.5
Banning Elementary School	SB-21-1	METALS	Zinc	9.7
Banning Elementary School	SB-21-1	METALS	Silver	<2.5
Banning Elementary School	SB-21-1	METALS	Selenium	<0.5
Banning Elementary School	SB-21-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-21-1	METALS	Mercury	<0.1
Banning Elementary School	SB-21-1	METALS	Lead	<2.5
Banning Elementary School	SB-21-1	METALS	Cobalt	<2.5
Banning Elementary School	SB-21-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-21-1	METALS	Beryllium	<0.1
Banning Elementary School	SB-21-1	METALS	Antimony	<0.5
Banning Elementary School	SB-21-1	METALS	Thallium	<0.3
Banning Elementary School	SB-21-5	METALS	Arsenic	0.5
Banning Elementary School	SB-21-5	METALS	Barium	36.7
Banning Elementary School	SB-21-5	METALS	Beryllium	0.2
Banning Elementary School	SB-21-5	METALS	Chromium	6.3
Banning Elementary School	SB-21-5	METALS	Copper	6
Banning Elementary School	SB-21-5	METALS	Lead	6.9
Banning Elementary School	SB-21-5	METALS	Nickel	3.9
Banning Elementary School	SB-21-5	METALS	Zinc	15.2
Banning Elementary School	SB-21-5	METALS	Cobalt	2.6
Banning Elementary School	SB-21-5	METALS	Antimony	<0.5
Banning Elementary School	SB-21-5	METALS	Thallium	<0.3
Banning Elementary School	SB-21-5	METALS	Silver	<2.5
Banning Elementary School	SB-21-5	METALS	Selenium	<0.5
Banning Elementary School	SB-21-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-21-5	METALS	Mercury	<0.1
Banning Elementary School	SB-21-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-21-5	METALS	Vanadium	10.5
Banning Elementary School	SB-2-5	METALS	Chromium	5
Banning Elementary School	SB-2-5	METALS	Barium	19.9
Banning Elementary School	SB-2-5	METALS	Copper	4.1
Banning Elementary School	SB-2-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-2-5	METALS	Lead	2.6
Banning Elementary School	SB-2-5	METALS	Nickel	4.1
Banning Elementary School	SB-2-5	METALS	Vanadium	10.6
Banning Elementary School	SB-2-5	METALS	Zinc	12.9
Banning Elementary School	SB-2-5	METALS	Antimony	<0.5
Banning Elementary School	SB-2-5	METALS	Beryllium	<0.1
Banning Elementary School	SB-2-5	METALS	Arsenic	2
Banning Elementary School	SB-2-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-2-5	METALS	Selenium	<0.5
Banning Elementary School	SB-2-5	METALS	Silver	<2.5
Banning Elementary School	SB-2-5	METALS	Thallium	<0.3
Banning Elementary School	SB-2-5	METALS	Cobalt	2.5
Banning Elementary School	SB-2-5	METALS	Mercury	<0.1

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-3-0.5	METALS	Cobalt	6.7
Banning Elementary School	SB-3-0.5	METALS	Zinc	129
Banning Elementary School	SB-3-0.5	METALS	Vanadium	21
Banning Elementary School	SB-3-0.5	METALS	Nickel	5.6
Banning Elementary School	SB-3-0.5	METALS	Lead	24.3
Banning Elementary School	SB-3-0.5	METALS	Copper	16.6
Banning Elementary School	SB-3-0.5	METALS	Chromium	7.2
Banning Elementary School	SB-3-0.5	METALS	Barium	203
Banning Elementary School	SB-3-0.5	METALS	Arsenic	3.2
Banning Elementary School	SB-3-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-3-0.5	METALS	Cadmium	<0.1
Banning Elementary School	SB-3-0.5	METALS	Beryllium	<0.1
Banning Elementary School	SB-3-0.5	METALS	Antimony	<0.5
Banning Elementary School	SB-3-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-3-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-3-0.5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-3-0.5	METALS	Thallium	<0.3
Banning Elementary School	SB-3-1	METALS	Copper	18.2
Banning Elementary School	SB-3-1	METALS	Silver	<2.5
Banning Elementary School	SB-3-1	METALS	Chromium	11.7
Banning Elementary School	SB-3-1	METALS	Barium	54.4
Banning Elementary School	SB-3-1	METALS	Arsenic	1.6
Banning Elementary School	SB-3-1	METALS	Lead	9.1
Banning Elementary School	SB-3-1	METALS	Selenium	<0.5
Banning Elementary School	SB-3-1	METALS	Vanadium	19.7
Banning Elementary School	SB-3-1	METALS	Cobalt	6.9
Banning Elementary School	SB-3-1	METALS	Thallium	<0.3
Banning Elementary School	SB-3-1	METALS	Antimony	<0.5
Banning Elementary School	SB-3-1	METALS	Zinc	42.5
Banning Elementary School	SB-3-1	METALS	Nickel	5.5
Banning Elementary School	SB-3-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-3-1	METALS	Mercury	<0.1
Banning Elementary School	SB-3-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-3-1	METALS	Beryllium	<0.1
Banning Elementary School	SB-3-5	METALS	Thallium	<0.3
Banning Elementary School	SB-3-5	METALS	Mercury	<0.1
Banning Elementary School	SB-3-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-3-5	METALS	Selenium	<0.5
Banning Elementary School	SB-3-5	METALS	Silver	<2.5
Banning Elementary School	SB-3-5	METALS	Antimony	<0.5
Banning Elementary School	SB-3-5	METALS	Vanadium	26.1
Banning Elementary School	SB-3-5	METALS	Barium	75.5
Banning Elementary School	SB-3-5	METALS	Arsenic	3
Banning Elementary School	SB-3-5	METALS	Zinc	43.2
Banning Elementary School	SB-3-5	METALS	Nickel	12.3
Banning Elementary School	SB-3-5	METALS	Lead	5.5
Banning Elementary School	SB-3-5	METALS	Copper	14.2
Banning Elementary School	SB-3-5	METALS	Cobalt	7.5
Banning Elementary School	SB-3-5	METALS	Chromium	15.4
Banning Elementary School	SB-3-5	METALS	Cadmium	0.3
Banning Elementary School	SB-3-5	METALS	Beryllium	0.4
Banning Elementary School	SB-4-0.5	METALS	Vanadium	12.7
Banning Elementary School	SB-4-0.5	METALS	Cadmium	<0.1
Banning Elementary School	SB-4-0.5	METALS	Thallium	<0.3
Banning Elementary School	SB-4-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-4-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-4-0.5	METALS	Molybdenum	<2.5

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-4-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-4-0.5	METALS	Zinc	25.3
Banning Elementary School	SB-4-0.5	METALS	Chromium	6.2
Banning Elementary School	SB-4-0.5	METALS	Arsenic	1.7
Banning Elementary School	SB-4-0.5	METALS	Beryllium	<0.1
Banning Elementary School	SB-4-0.5	METALS	Barium	99.2
Banning Elementary School	SB-4-0.5	METALS	Cobalt	6.1
Banning Elementary School	SB-4-0.5	METALS	Copper	16.6
Banning Elementary School	SB-4-0.5	METALS	Lead	3.8
Banning Elementary School	SB-4-0.5	METALS	Nickel	5.4
Banning Elementary School	SB-4-0.5	METALS	Antimony	<0.5
Banning Elementary School	SB-4-1	METALS	Zinc	20.2
Banning Elementary School	SB-4-1	METALS	Barium	47.8
Banning Elementary School	SB-4-1	METALS	Beryllium	<0.1
Banning Elementary School	SB-4-1	METALS	Nickel	5.5
Banning Elementary School	SB-4-1	METALS	Copper	11.4
Banning Elementary School	SB-4-1	METALS	Cobalt	5.7
Banning Elementary School	SB-4-1	METALS	Arsenic	1.4
Banning Elementary School	SB-4-1	METALS	Chromium	5.5
Banning Elementary School	SB-4-1	METALS	Vanadium	11.6
Banning Elementary School	SB-4-1	METALS	Thallium	<0.3
Banning Elementary School	SB-4-1	METALS	Silver	<2.5
Banning Elementary School	SB-4-1	METALS	Selenium	<0.5
Banning Elementary School	SB-4-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-4-1	METALS	Mercury	<0.1
Banning Elementary School	SB-4-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-4-1	METALS	Antimony	<0.5
Banning Elementary School	SB-4-1	METALS	Lead	<2.5
Banning Elementary School	SB-4-5	METALS	Barium	53.5
Banning Elementary School	SB-4-5	METALS	Zinc	35.9
Banning Elementary School	SB-4-5	METALS	Vanadium	23.7
Banning Elementary School	SB-4-5	METALS	Nickel	10.7
Banning Elementary School	SB-4-5	METALS	Lead	5.1
Banning Elementary School	SB-4-5	METALS	Copper	14.1
Banning Elementary School	SB-4-5	METALS	Cobalt	6.4
Banning Elementary School	SB-4-5	METALS	Chromium	13.1
Banning Elementary School	SB-4-5	METALS	Beryllium	0.3
Banning Elementary School	SB-4-5	METALS	Silver	<2.5
Banning Elementary School	SB-4-5	METALS	Arsenic	2.4
Banning Elementary School	SB-4-5	METALS	Cadmium	0.3
Banning Elementary School	SB-4-5	METALS	Mercury	<0.1
Banning Elementary School	SB-4-5	METALS	Selenium	<0.5
Banning Elementary School	SB-4-5	METALS	Thallium	<0.3
Banning Elementary School	SB-4-5	METALS	Antimony	<0.5
Banning Elementary School	SB-4-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-5-0.5	METALS	Cadmium	0.5
Banning Elementary School	SB-5-0.5	METALS	Zinc	45.4
Banning Elementary School	SB-5-0.5	METALS	Arsenic	1.8
Banning Elementary School	SB-5-0.5	METALS	Beryllium	0.3
Banning Elementary School	SB-5-0.5	METALS	Chromium	10.6
Banning Elementary School	SB-5-0.5	METALS	Cobalt	5.2
Banning Elementary School	SB-5-0.5	METALS	Copper	13.4
Banning Elementary School	SB-5-0.5	METALS	Lead	13.8
Banning Elementary School	SB-5-0.5	METALS	Nickel	9.6
Banning Elementary School	SB-5-0.5	METALS	Vanadium	22.5
Banning Elementary School	SB-5-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-5-0.5	METALS	Barium	66

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-5-0.5	METALS	Antimony	<0.5
Banning Elementary School	SB-5-0.5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-5-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-5-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-5-0.5	METALS	Thallium	<0.3
Banning Elementary School	SB-5-1	METALS	Silver	<2.5
Banning Elementary School	SB-5-1	METALS	Zinc	26.6
Banning Elementary School	SB-5-1	METALS	Nickel	7.5
Banning Elementary School	SB-5-1	METALS	Lead	4.2
Banning Elementary School	SB-5-1	METALS	Copper	9.5
Banning Elementary School	SB-5-1	METALS	Antimony	<0.5
Banning Elementary School	SB-5-1	METALS	Cobalt	4.8
Banning Elementary School	SB-5-1	METALS	Vanadium	18.5
Banning Elementary School	SB-5-1	METALS	Selenium	<0.5
Banning Elementary School	SB-5-1	METALS	Chromium	9.3
Banning Elementary School	SB-5-1	METALS	Beryllium	0.2
Banning Elementary School	SB-5-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-5-1	METALS	Mercury	<0.1
Banning Elementary School	SB-5-1	METALS	Arsenic	1.7
Banning Elementary School	SB-5-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-5-1	METALS	Barium	41.4
Banning Elementary School	SB-5-1	METALS	Thallium	<0.3
Banning Elementary School	SB-5-5	METALS	Chromium	9.6
Banning Elementary School	SB-5-5	METALS	Arsenic	2.1
Banning Elementary School	SB-5-5	METALS	Lead	4.5
Banning Elementary School	SB-5-5	METALS	Beryllium	0.2
Banning Elementary School	SB-5-5	METALS	Cobalt	4.6
Banning Elementary School	SB-5-5	METALS	Vanadium	18.1
Banning Elementary School	SB-5-5	METALS	Zinc	26.6
Banning Elementary School	SB-5-5	METALS	Copper	9
Banning Elementary School	SB-5-5	METALS	Barium	43.1
Banning Elementary School	SB-5-5	METALS	Thallium	<0.3
Banning Elementary School	SB-5-5	METALS	Antimony	<0.5
Banning Elementary School	SB-5-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-5-5	METALS	Mercury	<0.1
Banning Elementary School	SB-5-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-5-5	METALS	Selenium	<0.5
Banning Elementary School	SB-5-5	METALS	Silver	<2.5
Banning Elementary School	SB-5-5	METALS	Nickel	7.3
Banning Elementary School	SB-6-0.5	METALS	Zinc	77
Banning Elementary School	SB-6-0.5	METALS	Chromium	16.2
Banning Elementary School	SB-6-0.5	METALS	Cadmium	0.3
Banning Elementary School	SB-6-0.5	METALS	Thallium	<0.3
Banning Elementary School	SB-6-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-6-0.5	METALS	Cobalt	7.9
Banning Elementary School	SB-6-0.5	METALS	Barium	83
Banning Elementary School	SB-6-0.5	METALS	Arsenic	1.7
Banning Elementary School	SB-6-0.5	METALS	Copper	27
Banning Elementary School	SB-6-0.5	METALS	Lead	32.1
Banning Elementary School	SB-6-0.5	METALS	Beryllium	0.4
Banning Elementary School	SB-6-0.5	METALS	Vanadium	37.3
Banning Elementary School	SB-6-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-6-0.5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-6-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-6-0.5	METALS	Antimony	<0.5
Banning Elementary School	SB-6-0.5	METALS	Nickel	18.1
Banning Elementary School	SB-6-1	METALS	Copper	14.5

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-6-1	METALS	Barium	42
Banning Elementary School	SB-6-1	METALS	Beryllium	0.3
Banning Elementary School	SB-6-1	METALS	Cobalt	5
Banning Elementary School	SB-6-1	METALS	Vanadium	22.2
Banning Elementary School	SB-6-1	METALS	Lead	3.9
Banning Elementary School	SB-6-1	METALS	Nickel	7.4
Banning Elementary School	SB-6-1	METALS	Zinc	30.3
Banning Elementary School	SB-6-1	METALS	Chromium	10.6
Banning Elementary School	SB-6-1	METALS	Thallium	<0.3
Banning Elementary School	SB-6-1	METALS	Antimony	<0.5
Banning Elementary School	SB-6-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-6-1	METALS	Mercury	<0.1
Banning Elementary School	SB-6-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-6-1	METALS	Selenium	<0.5
Banning Elementary School	SB-6-1	METALS	Silver	<2.5
Banning Elementary School	SB-6-1	METALS	Arsenic	1.2
Banning Elementary School	SB-6-5	METALS	Vanadium	12.1
Banning Elementary School	SB-6-5	METALS	Zinc	17.2
Banning Elementary School	SB-6-5	METALS	Thallium	<0.3
Banning Elementary School	SB-6-5	METALS	Arsenic	1.5
Banning Elementary School	SB-6-5	METALS	Silver	<2.5
Banning Elementary School	SB-6-5	METALS	Mercury	<0.1
Banning Elementary School	SB-6-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-6-5	METALS	Copper	7.2
Banning Elementary School	SB-6-5	METALS	Selenium	<0.5
Banning Elementary School	SB-6-5	METALS	Lead	3.6
Banning Elementary School	SB-6-5	METALS	Cobalt	2.8
Banning Elementary School	SB-6-5	METALS	Chromium	6
Banning Elementary School	SB-6-5	METALS	Beryllium	0.2
Banning Elementary School	SB-6-5	METALS	Barium	22.8
Banning Elementary School	SB-6-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-6-5	METALS	Antimony	<0.5
Banning Elementary School	SB-6-5	METALS	Nickel	4.8
Banning Elementary School	SB-7-0.5	METALS	Copper	35.3
Banning Elementary School	SB-7-0.5	METALS	Thallium	<0.3
Banning Elementary School	SB-7-0.5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-7-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-7-0.5	METALS	Cadmium	<0.1
Banning Elementary School	SB-7-0.5	METALS	Antimony	<0.5
Banning Elementary School	SB-7-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-7-0.5	METALS	Zinc	53.5
Banning Elementary School	SB-7-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-7-0.5	METALS	Arsenic	2.7
Banning Elementary School	SB-7-0.5	METALS	Barium	75.5
Banning Elementary School	SB-7-0.5	METALS	Beryllium	0.7
Banning Elementary School	SB-7-0.5	METALS	Chromium	21.6
Banning Elementary School	SB-7-0.5	METALS	Cobalt	13.1
Banning Elementary School	SB-7-0.5	METALS	Lead	11.3
Banning Elementary School	SB-7-0.5	METALS	Nickel	14.2
Banning Elementary School	SB-7-0.5	METALS	Vanadium	39.6
Banning Elementary School	SB-7-1	METALS	Beryllium	0.3
Banning Elementary School	SB-7-1	METALS	Thallium	<0.3
Banning Elementary School	SB-7-1	METALS	Barium	43.9
Banning Elementary School	SB-7-1	METALS	Zinc	22.8
Banning Elementary School	SB-7-1	METALS	Vanadium	24.5
Banning Elementary School	SB-7-1	METALS	Lead	6.1
Banning Elementary School	SB-7-1	METALS	Copper	15.8

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-7-1	METALS	Cobalt	4.4
Banning Elementary School	SB-7-1	METALS	Chromium	14.4
Banning Elementary School	SB-7-1	METALS	Arsenic	2.8
Banning Elementary School	SB-7-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-7-1	METALS	Mercury	<0.1
Banning Elementary School	SB-7-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-7-1	METALS	Nickel	<2.5
Banning Elementary School	SB-7-1	METALS	Silver	<2.5
Banning Elementary School	SB-7-1	METALS	Antimony	<0.5
Banning Elementary School	SB-7-1	METALS	Selenium	<0.5
Banning Elementary School	SB-7-5	METALS	Barium	50.5
Banning Elementary School	SB-7-5	METALS	Vanadium	13.7
Banning Elementary School	SB-7-5	METALS	Lead	2.9
Banning Elementary School	SB-7-5	METALS	Copper	6.9
Banning Elementary School	SB-7-5	METALS	Arsenic	0.7
Banning Elementary School	SB-7-5	METALS	Zinc	16.9
Banning Elementary School	SB-7-5	METALS	Chromium	6
Banning Elementary School	SB-7-5	METALS	Silver	<2.5
Banning Elementary School	SB-7-5	METALS	Cobalt	3.3
Banning Elementary School	SB-7-5	METALS	Thallium	<0.3
Banning Elementary School	SB-7-5	METALS	Selenium	<0.5
Banning Elementary School	SB-7-5	METALS	Nickel	<2.5
Banning Elementary School	SB-7-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-7-5	METALS	Mercury	<0.1
Banning Elementary School	SB-7-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-7-5	METALS	Beryllium	<0.1
Banning Elementary School	SB-7-5	METALS	Antimony	<0.5
Banning Elementary School	SB-8-0.5	METALS	Zinc	30
Banning Elementary School	SB-8-0.5	METALS	Thallium	<0.3
Banning Elementary School	SB-8-0.5	METALS	Barium	50
Banning Elementary School	SB-8-0.5	METALS	Arsenic	2.6
Banning Elementary School	SB-8-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-8-0.5	METALS	Antimony	<0.5
Banning Elementary School	SB-8-0.5	METALS	Cadmium	<0.1
Banning Elementary School	SB-8-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-8-0.5	METALS	Chromium	10.5
Banning Elementary School	SB-8-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-8-0.5	METALS	Vanadium	20.1
Banning Elementary School	SB-8-0.5	METALS	Beryllium	0.2
Banning Elementary School	SB-8-0.5	METALS	Cobalt	4.3
Banning Elementary School	SB-8-0.5	METALS	Copper	14.8
Banning Elementary School	SB-8-0.5	METALS	Lead	112
Banning Elementary School	SB-8-0.5	METALS	Nickel	6.9
Banning Elementary School	SB-8-0.5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-8-1	METALS	Chromium	11.5
Banning Elementary School	SB-8-1	METALS	Arsenic	1.5
Banning Elementary School	SB-8-1	METALS	Barium	26
Banning Elementary School	SB-8-1	METALS	Beryllium	0.2
Banning Elementary School	SB-8-1	METALS	Copper	12.2
Banning Elementary School	SB-8-1	METALS	Lead	7
Banning Elementary School	SB-8-1	METALS	Nickel	3.3
Banning Elementary School	SB-8-1	METALS	Vanadium	16.7
Banning Elementary School	SB-8-1	METALS	Zinc	16.6
Banning Elementary School	SB-8-1	METALS	Silver	<2.5
Banning Elementary School	SB-8-1	METALS	Selenium	<0.5
Banning Elementary School	SB-8-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-8-1	METALS	Mercury	<0.1

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-8-1	METALS	Cobalt	<2.5
Banning Elementary School	SB-8-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-8-1	METALS	Antimony	<0.5
Banning Elementary School	SB-8-1	METALS	Thallium	<0.3
Banning Elementary School	SB-8-5	METALS	Vanadium	26.8
Banning Elementary School	SB-8-5	METALS	Arsenic	4.4
Banning Elementary School	SB-8-5	METALS	Barium	65.5
Banning Elementary School	SB-8-5	METALS	Beryllium	0.4
Banning Elementary School	SB-8-5	METALS	Cadmium	0.2
Banning Elementary School	SB-8-5	METALS	Cobalt	7.7
Banning Elementary School	SB-8-5	METALS	Nickel	12.6
Banning Elementary School	SB-8-5	METALS	Chromium	16.3
Banning Elementary School	SB-8-5	METALS	Zinc	43
Banning Elementary School	SB-8-5	METALS	Lead	5.4
Banning Elementary School	SB-8-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-8-5	METALS	Copper	14
Banning Elementary School	SB-8-5	METALS	Thallium	<0.3
Banning Elementary School	SB-8-5	METALS	Selenium	<0.5
Banning Elementary School	SB-8-5	METALS	Mercury	<0.1
Banning Elementary School	SB-8-5	METALS	Silver	<2.5
Banning Elementary School	SB-8-5	METALS	Antimony	<0.5
Banning Elementary School	SB-9-0.5	METALS	Copper	6.7
Banning Elementary School	SB-9-0.5	METALS	Silver	<2.5
Banning Elementary School	SB-9-0.5	METALS	Selenium	<0.5
Banning Elementary School	SB-9-0.5	METALS	Nickel	<2.5
Banning Elementary School	SB-9-0.5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-9-0.5	METALS	Mercury	<0.1
Banning Elementary School	SB-9-0.5	METALS	Cobalt	<2.5
Banning Elementary School	SB-9-0.5	METALS	Thallium	<0.3
Banning Elementary School	SB-9-0.5	METALS	Lead	7.3
Banning Elementary School	SB-9-0.5	METALS	Chromium	12.1
Banning Elementary School	SB-9-0.5	METALS	Vanadium	7.3
Banning Elementary School	SB-9-0.5	METALS	Zinc	15.3
Banning Elementary School	SB-9-0.5	METALS	Cadmium	<0.1
Banning Elementary School	SB-9-0.5	METALS	Arsenic	1.5
Banning Elementary School	SB-9-0.5	METALS	Barium	28
Banning Elementary School	SB-9-0.5	METALS	Beryllium	0.2
Banning Elementary School	SB-9-0.5	METALS	Antimony	<0.5
Banning Elementary School	SB-9-1	METALS	Zinc	17.2
Banning Elementary School	SB-9-1	METALS	Antimony	<0.5
Banning Elementary School	SB-9-1	METALS	Arsenic	1.2
Banning Elementary School	SB-9-1	METALS	Barium	25.6
Banning Elementary School	SB-9-1	METALS	Beryllium	0.2
Banning Elementary School	SB-9-1	METALS	Chromium	6.5
Banning Elementary School	SB-9-1	METALS	Cobalt	2.9
Banning Elementary School	SB-9-1	METALS	Copper	6.5
Banning Elementary School	SB-9-1	METALS	Vanadium	12.8
Banning Elementary School	SB-9-1	METALS	Thallium	<0.3
Banning Elementary School	SB-9-1	METALS	Silver	<2.5
Banning Elementary School	SB-9-1	METALS	Selenium	<0.5
Banning Elementary School	SB-9-1	METALS	Nickel	<2.5
Banning Elementary School	SB-9-1	METALS	Molybdenum	<2.5
Banning Elementary School	SB-9-1	METALS	Mercury	<0.1
Banning Elementary School	SB-9-1	METALS	Cadmium	<0.1
Banning Elementary School	SB-9-1	METALS	Lead	3.8
Banning Elementary School	SB-9-5	METALS	Barium	51.5
Banning Elementary School	SB-9-5	METALS	Silver	<2.5

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Banning Elementary School	SB-9-5	METALS	Beryllium	0.2
Banning Elementary School	SB-9-5	METALS	Copper	8.6
Banning Elementary School	SB-9-5	METALS	Cobalt	3.5
Banning Elementary School	SB-9-5	METALS	Lead	4.4
Banning Elementary School	SB-9-5	METALS	Chromium	7.2
Banning Elementary School	SB-9-5	METALS	Thallium	<0.3
Banning Elementary School	SB-9-5	METALS	Selenium	<0.5
Banning Elementary School	SB-9-5	METALS	Nickel	<2.5
Banning Elementary School	SB-9-5	METALS	Molybdenum	<2.5
Banning Elementary School	SB-9-5	METALS	Mercury	<0.1
Banning Elementary School	SB-9-5	METALS	Cadmium	<0.1
Banning Elementary School	SB-9-5	METALS	Arsenic	<0.3
Banning Elementary School	SB-9-5	METALS	Zinc	17.6
Banning Elementary School	SB-9-5	METALS	Antimony	<0.5
Banning Elementary School	SB-9-5	METALS	Vanadium	12.4
Wilmington Recreation Center	SB-WRC-1A	METALS	Lead	7.7
Wilmington Recreation Center	SB-WRC-1A	METALS	Cadmium	1
Wilmington Recreation Center	SB-WRC-1A	METALS	Zinc	91.5
Wilmington Recreation Center	SB-WRC-1A	METALS	Cobalt	3.1
Wilmington Recreation Center	SB-WRC-1A	METALS	Nickel	10.3
Wilmington Recreation Center	SB-WRC-1A	METALS	Copper	32.5
Wilmington Recreation Center	SB-WRC-1A	METALS	Thallium	<0.3
Wilmington Recreation Center	SB-WRC-1A	METALS	Beryllium	0.2
Wilmington Recreation Center	SB-WRC-1A	METALS	Vanadium	14.3
Wilmington Recreation Center	SB-WRC-1A	METALS	Molybdenum	<2.5
Wilmington Recreation Center	SB-WRC-1A	METALS	Barium	51.5
Wilmington Recreation Center	SB-WRC-1A	METALS	Silver	<2.5
Wilmington Recreation Center	SB-WRC-1A	METALS	Chromium	9.1
Wilmington Recreation Center	SB-WRC-1A	METALS	Selenium	<0.5
Wilmington Recreation Center	SB-WRC-1A	METALS	Mercury	<0.1
Wilmington Recreation Center	SB-WRC-1A	METALS	Antimony	<0.5
Wilmington Recreation Center	SB-WRC-1A	METALS	Arsenic	2.1
Wilmington Recreation Center	SB-WRC-1C	METALS	Lead	3.3
Wilmington Recreation Center	SB-WRC-1C	METALS	Nickel	5.6
Wilmington Recreation Center	SB-WRC-1C	METALS	Thallium	<0.3
Wilmington Recreation Center	SB-WRC-1C	METALS	Selenium	<0.5
Wilmington Recreation Center	SB-WRC-1C	METALS	Antimony	<0.5
Wilmington Recreation Center	SB-WRC-1C	METALS	Silver	<2.5
Wilmington Recreation Center	SB-WRC-1C	METALS	Zinc	29.8
Wilmington Recreation Center	SB-WRC-1C	METALS	Molybdenum	<2.5
Wilmington Recreation Center	SB-WRC-1C	METALS	Copper	15.3
Wilmington Recreation Center	SB-WRC-1C	METALS	Cobalt	3.8
Wilmington Recreation Center	SB-WRC-1C	METALS	Chromium	8.6
Wilmington Recreation Center	SB-WRC-1C	METALS	Cadmium	0.2
Wilmington Recreation Center	SB-WRC-1C	METALS	Mercury	<0.1
Wilmington Recreation Center	SB-WRC-1C	METALS	Arsenic	0.3
Wilmington Recreation Center	SB-WRC-1C	METALS	Barium	56
Wilmington Recreation Center	SB-WRC-1C	METALS	Beryllium	0.2
Wilmington Recreation Center	SB-WRC-1C	METALS	Vanadium	14.1
Wilmington Recreation Center	SB-WRC-2A	METALS	Molybdenum	<2.5
Wilmington Recreation Center	SB-WRC-2A	METALS	Antimony	<0.5
Wilmington Recreation Center	SB-WRC-2A	METALS	Mercury	<0.1
Wilmington Recreation Center	SB-WRC-2A	METALS	Chromium	9.1
Wilmington Recreation Center	SB-WRC-2A	METALS	Selenium	<0.5
Wilmington Recreation Center	SB-WRC-2A	METALS	Silver	<2.5
Wilmington Recreation Center	SB-WRC-2A	METALS	Thallium	<0.3
Wilmington Recreation Center	SB-WRC-2A	METALS	Zinc	39.1

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Wilmington Recreation Center	SB-WRC-2A	METALS	Vanadium	15.9
Wilmington Recreation Center	SB-WRC-2A	METALS	Nickel	6.4
Wilmington Recreation Center	SB-WRC-2A	METALS	Lead	3.9
Wilmington Recreation Center	SB-WRC-2A	METALS	Cobalt	3.5
Wilmington Recreation Center	SB-WRC-2A	METALS	Cadmium	0.2
Wilmington Recreation Center	SB-WRC-2A	METALS	Beryllium	0.2
Wilmington Recreation Center	SB-WRC-2A	METALS	Barium	63
Wilmington Recreation Center	SB-WRC-2A	METALS	Arsenic	0.9
Wilmington Recreation Center	SB-WRC-2A	METALS	Copper	10.4
Wilmington Recreation Center	SB-WRC-2C	METALS	Molybdenum	<2.5
Wilmington Recreation Center	SB-WRC-2C	METALS	Cadmium	0.3
Wilmington Recreation Center	SB-WRC-2C	METALS	Antimony	<0.5
Wilmington Recreation Center	SB-WRC-2C	METALS	Mercury	<0.1
Wilmington Recreation Center	SB-WRC-2C	METALS	Zinc	40.4
Wilmington Recreation Center	SB-WRC-2C	METALS	Arsenic	2.1
Wilmington Recreation Center	SB-WRC-2C	METALS	Barium	64.5
Wilmington Recreation Center	SB-WRC-2C	METALS	Beryllium	0.3
Wilmington Recreation Center	SB-WRC-2C	METALS	Chromium	12.4
Wilmington Recreation Center	SB-WRC-2C	METALS	Copper	11.5
Wilmington Recreation Center	SB-WRC-2C	METALS	Lead	3.4
Wilmington Recreation Center	SB-WRC-2C	METALS	Cobalt	5.6
Wilmington Recreation Center	SB-WRC-2C	METALS	Vanadium	20.3
Wilmington Recreation Center	SB-WRC-2C	METALS	Selenium	<0.5
Wilmington Recreation Center	SB-WRC-2C	METALS	Thallium	<0.3
Wilmington Recreation Center	SB-WRC-2C	METALS	Silver	<2.5
Wilmington Recreation Center	SB-WRC-2C	METALS	Nickel	9.1
Wilmington Recreation Center	SB-WRC-3A	METALS	Thallium	<0.3
Wilmington Recreation Center	SB-WRC-3A	METALS	Silver	<2.5
Wilmington Recreation Center	SB-WRC-3A	METALS	Selenium	<0.5
Wilmington Recreation Center	SB-WRC-3A	METALS	Molybdenum	<2.5
Wilmington Recreation Center	SB-WRC-3A	METALS	Mercury	<0.1
Wilmington Recreation Center	SB-WRC-3A	METALS	Antimony	<0.5
Wilmington Recreation Center	SB-WRC-3A	METALS	Vanadium	21.9
Wilmington Recreation Center	SB-WRC-3A	METALS	Copper	19.4
Wilmington Recreation Center	SB-WRC-3A	METALS	Arsenic	1.4
Wilmington Recreation Center	SB-WRC-3A	METALS	Barium	91
Wilmington Recreation Center	SB-WRC-3A	METALS	Beryllium	0.2
Wilmington Recreation Center	SB-WRC-3A	METALS	Cadmium	1
Wilmington Recreation Center	SB-WRC-3A	METALS	Chromium	38.6
Wilmington Recreation Center	SB-WRC-3A	METALS	Cobalt	4
Wilmington Recreation Center	SB-WRC-3A	METALS	Lead	57
Wilmington Recreation Center	SB-WRC-3A	METALS	Nickel	15.5
Wilmington Recreation Center	SB-WRC-3A	METALS	Zinc	525
Wilmington Recreation Center	SB-WRC-3C	METALS	Mercury	<0.1
Wilmington Recreation Center	SB-WRC-3C	METALS	Beryllium	0.2
Wilmington Recreation Center	SB-WRC-3C	METALS	Barium	52
Wilmington Recreation Center	SB-WRC-3C	METALS	Chromium	11.7
Wilmington Recreation Center	SB-WRC-3C	METALS	Cobalt	5.2
Wilmington Recreation Center	SB-WRC-3C	METALS	Copper	15.1
Wilmington Recreation Center	SB-WRC-3C	METALS	Nickel	8.6
Wilmington Recreation Center	SB-WRC-3C	METALS	Vanadium	19.7
Wilmington Recreation Center	SB-WRC-3C	METALS	Antimony	<0.5
Wilmington Recreation Center	SB-WRC-3C	METALS	Cadmium	0.3
Wilmington Recreation Center	SB-WRC-3C	METALS	Lead	<2.5
Wilmington Recreation Center	SB-WRC-3C	METALS	Arsenic	1.8
Wilmington Recreation Center	SB-WRC-3C	METALS	Molybdenum	<2.5
Wilmington Recreation Center	SB-WRC-3C	METALS	Selenium	<0.5

**Appendix 8  
Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Wilmington Recreation Center	SB-WRC-3C	METALS	Silver	<2.5
Wilmington Recreation Center	SB-WRC-3C	METALS	Thallium	<0.3
Wilmington Recreation Center	SB-WRC-3C	METALS	Zinc	42
Wilmington Recreation Center	SB-WRC-4A	METALS	Arsenic	1.3
Wilmington Recreation Center	SB-WRC-4A	METALS	Barium	56
Wilmington Recreation Center	SB-WRC-4A	METALS	Beryllium	0.3
Wilmington Recreation Center	SB-WRC-4A	METALS	Cadmium	0.7
Wilmington Recreation Center	SB-WRC-4A	METALS	Chromium	11
Wilmington Recreation Center	SB-WRC-4A	METALS	Cobalt	4
Wilmington Recreation Center	SB-WRC-4A	METALS	Vanadium	28.8
Wilmington Recreation Center	SB-WRC-4A	METALS	Nickel	16.4
Wilmington Recreation Center	SB-WRC-4A	METALS	Lead	47.7
Wilmington Recreation Center	SB-WRC-4A	METALS	Antimony	<0.5
Wilmington Recreation Center	SB-WRC-4A	METALS	Mercury	<0.1
Wilmington Recreation Center	SB-WRC-4A	METALS	Molybdenum	<2.5
Wilmington Recreation Center	SB-WRC-4A	METALS	Selenium	<0.5
Wilmington Recreation Center	SB-WRC-4A	METALS	Silver	<2.5
Wilmington Recreation Center	SB-WRC-4A	METALS	Thallium	<0.3
Wilmington Recreation Center	SB-WRC-4A	METALS	Zinc	172
Wilmington Recreation Center	SB-WRC-4A	METALS	Copper	20.2
Wilmington Recreation Center	SB-WRC-4C	METALS	Antimony	<0.5
Wilmington Recreation Center	SB-WRC-4C	METALS	Cadmium	0.2
Wilmington Recreation Center	SB-WRC-4C	METALS	Barium	31.9
Wilmington Recreation Center	SB-WRC-4C	METALS	Arsenic	0.9
Wilmington Recreation Center	SB-WRC-4C	METALS	Cobalt	2.5
Wilmington Recreation Center	SB-WRC-4C	METALS	Zinc	39.9
Wilmington Recreation Center	SB-WRC-4C	METALS	Vanadium	10.5
Wilmington Recreation Center	SB-WRC-4C	METALS	Chromium	6.2
Wilmington Recreation Center	SB-WRC-4C	METALS	Copper	6.9
Wilmington Recreation Center	SB-WRC-4C	METALS	Beryllium	<0.1
Wilmington Recreation Center	SB-WRC-4C	METALS	Mercury	<0.1
Wilmington Recreation Center	SB-WRC-4C	METALS	Molybdenum	<2.5
Wilmington Recreation Center	SB-WRC-4C	METALS	Selenium	<0.5
Wilmington Recreation Center	SB-WRC-4C	METALS	Silver	<2.5
Wilmington Recreation Center	SB-WRC-4C	METALS	Thallium	<0.3
Wilmington Recreation Center	SB-WRC-4C	METALS	Nickel	4.1
Wilmington Recreation Center	SB-WRC-4C	METALS	Lead	<2.5
Wilmington Middle School	WMS-01-10	SVOC	BaP TEQ	<0.00106
Wilmington Middle School	WMS-04-5	METALS	Copper	6.63
Wilmington Middle School	WMS-04-5	METALS	Cobalt	5.18
Wilmington Middle School	WMS-04-5	METALS	Chromium	9.04
Wilmington Middle School	WMS-04-5	METALS	Beryllium	0.296
Wilmington Middle School	WMS-04-5	METALS	Barium	92.2
Wilmington Middle School	WMS-04-5	METALS	Arsenic	1.52
Wilmington Middle School	WMS-04-5	SVOC	BaP TEQ	<0.00106
Wilmington Middle School	WMS-04-5	METALS	Silver	<0.117
Wilmington Middle School	WMS-04-5	METALS	Selenium	<0.351
Wilmington Middle School	WMS-04-5	METALS	Lead	3.68
Wilmington Middle School	WMS-04-5	METALS	Molybdenum	<0.0777
Wilmington Middle School	WMS-04-5	METALS	Antimony	<0.306
Wilmington Middle School	WMS-04-5	METALS	Mercury	<0.0039
Wilmington Middle School	WMS-04-5	METALS	Cadmium	<0.0883
Wilmington Middle School	WMS-04-5	METALS	Thallium	<0.232
Wilmington Middle School	WMS-04-5	METALS	Vanadium	15.8
Wilmington Middle School	WMS-04-5	METALS	Zinc	36.9
Wilmington Middle School	WMS-04-5	METALS	Nickel	6.45
Wilmington Middle School	WMS-07-5	METALS	Nickel	6.19

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Wilimington Middle School	WMS-07-5	SVOC	BaP TEQ	<0.00106
Wilimington Middle School	WMS-07-5	METALS	Thallium	<0.232
Wilimington Middle School	WMS-07-5	METALS	Cobalt	6.57
Wilimington Middle School	WMS-07-5	METALS	Vanadium	21.4
Wilimington Middle School	WMS-07-5	METALS	Silver	<0.117
Wilimington Middle School	WMS-07-5	METALS	Copper	5.34
Wilimington Middle School	WMS-07-5	METALS	Selenium	<0.351
Wilimington Middle School	WMS-07-5	METALS	Lead	3.48
Wilimington Middle School	WMS-07-5	METALS	Antimony	<0.306
Wilimington Middle School	WMS-07-5	METALS	Molybdenum	<0.0777
Wilimington Middle School	WMS-07-5	METALS	Chromium	9.37
Wilimington Middle School	WMS-07-5	METALS	Cadmium	<0.0883
Wilimington Middle School	WMS-07-5	METALS	Beryllium	0.319
Wilimington Middle School	WMS-07-5	METALS	Mercury	<0.0039
Wilimington Middle School	WMS-07-5	METALS	Barium	66.3
Wilimington Middle School	WMS-07-5	METALS	Arsenic	2.31
Wilimington Middle School	WMS-07-5	METALS	Zinc	20.1
Wilimington Middle School	WMS-08-10	SVOC	BaP TEQ	<0.00106
Wilimington Middle School	WMS-11-.5	METALS	Lead	57.5
Wilimington Middle School	WMS-11-.5	METALS	Arsenic	5.08
Wilimington Middle School	WMS-11-.5	METALS	Barium	69.4
Wilimington Middle School	WMS-11-.5	METALS	Chromium	17.4
Wilimington Middle School	WMS-11-.5	METALS	Copper	14.7
Wilimington Middle School	WMS-11-.5	METALS	Molybdenum	0.625
Wilimington Middle School	WMS-11-.5	METALS	Nickel	12
Wilimington Middle School	WMS-11-.5	METALS	Vanadium	24.1
Wilimington Middle School	WMS-11-.5	METALS	Zinc	151
Wilimington Middle School	WMS-11-.5	METALS	Cobalt	6.77
Wilimington Middle School	WMS-11-.5	METALS	Beryllium	<0.0894
Wilimington Middle School	WMS-11-.5	METALS	Cadmium	<0.0883
Wilimington Middle School	WMS-11-.5	METALS	Mercury	<0.0039
Wilimington Middle School	WMS-11-.5	METALS	Selenium	<0.351
Wilimington Middle School	WMS-11-.5	METALS	Silver	<0.117
Wilimington Middle School	WMS-11-.5	METALS	Thallium	<0.232
Wilimington Middle School	WMS-11-.5	SVOC	BaP TEQ	0.179338
Wilimington Middle School	WMS-11-.5	METALS	Antimony	<0.306
Wilimington Middle School	WMS-13-5	METALS	Thallium	<0.232
Wilimington Middle School	WMS-13-5	METALS	Molybdenum	<0.0777
Wilimington Middle School	WMS-13-5	METALS	Silver	<0.117
Wilimington Middle School	WMS-13-5	METALS	Antimony	<0.306
Wilimington Middle School	WMS-13-5	METALS	Cadmium	<0.0883
Wilimington Middle School	WMS-13-5	METALS	Mercury	<0.0039
Wilimington Middle School	WMS-13-5	METALS	Selenium	<0.351
Wilimington Middle School	WMS-13-5	METALS	Vanadium	29.1
Wilimington Middle School	WMS-13-5	METALS	Arsenic	3.41
Wilimington Middle School	WMS-13-5	METALS	Beryllium	0.368
Wilimington Middle School	WMS-13-5	METALS	Barium	77.2
Wilimington Middle School	WMS-13-5	METALS	Nickel	7.15
Wilimington Middle School	WMS-13-5	METALS	Lead	4.11
Wilimington Middle School	WMS-13-5	METALS	Copper	7.07
Wilimington Middle School	WMS-13-5	SVOC	BaP TEQ	<0.00106
Wilimington Middle School	WMS-13-5	METALS	Cobalt	6.92
Wilimington Middle School	WMS-13-5	METALS	Chromium	13
Wilimington Middle School	WMS-13-5	METALS	Zinc	25
Wilimington Middle School	WMS-14-10	SVOC	BaP TEQ	<0.00106
Wilimington Middle School	WMS-17-.5	METALS	Silver	<0.117
Wilimington Middle School	WMS-17-.5	METALS	Beryllium	0.475

**Appendix 8**  
**Background Dataset**

Location	Sample ID	Category	Analyte	Result (mg/kg)
Wilmington Middle School	WMS-17-.5	METALS	Thallium	<0.232
Wilmington Middle School	WMS-17-.5	METALS	Antimony	<0.306
Wilmington Middle School	WMS-17-.5	METALS	Molybdenum	<0.0777
Wilmington Middle School	WMS-17-.5	METALS	Mercury	<0.0039
Wilmington Middle School	WMS-17-.5	METALS	Zinc	27.8
Wilmington Middle School	WMS-17-.5	METALS	Cadmium	<0.0883
Wilmington Middle School	WMS-17-.5	METALS	Selenium	0.78
Wilmington Middle School	WMS-17-.5	METALS	Nickel	9.3
Wilmington Middle School	WMS-17-.5	METALS	Lead	6.03
Wilmington Middle School	WMS-17-.5	METALS	Copper	12.3
Wilmington Middle School	WMS-17-.5	METALS	Chromium	14.2
Wilmington Middle School	WMS-17-.5	METALS	Barium	72
Wilmington Middle School	WMS-17-.5	METALS	Arsenic	127
Wilmington Middle School	WMS-17-.5	METALS	Vanadium	24
Wilmington Middle School	WMS-17-.5	SVOC	BaP TEQ	<0.00106
Wilmington Middle School	WMS-17-.5	METALS	Cobalt	6.2

**APPENDIX B**

**ProUCL OUTPUT**

























































































































































































































































































Appendix B  
ProUCL Output

Table B-1  
Summary of Exposure Point Concentrations, Soil - Residential Properties

Table with columns: Property Address, Depth Interval, Constituent of Concern, Units, Number of Detects, Number of Samples, Percent Detected, Minimum Detected, Maximum Detected, Mean of Detected, Standard Deviation of Detected, Minimum Reporting Limit, Maximum Reporting Limit, Final EPC, Basis for EPC, Statistical Distribution (at 5% Significance Level).











Property Address	Depth Interval	Constituent of Concern <sup>1</sup>	Units	Number of Detects <sup>2</sup>	Number of Samples <sup>2</sup>	Percent Detected	Minimum Detected	Maximum Detected	Mean Detected	Standard Deviation of Detected	Minimum Reporting Limit	Maximum Reporting Limit	Final EPC	Basis for EPC	Statistical Distribution (at 5% Significance Level)
24608 neptune ave	1et10ft	indeno (1,2,3-c-d) pyrene	mg/kg	6	37	16	0.0017	0.015	0.00902	0.00532	0.0009	0.87	0.00934	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24608 neptune ave	1et10ft	lead	mg/kg	37	37	100	1.94	76.2	12.97	16.92	--	--	25.1	95% Chebyshev (Mean, Sd) UCL	Data do not follow a Discernable Distribution (0.05)
24608 neptune ave	1et10ft	naphthalene	mg/kg	16	37	43	0.00056	25	4.384	7.036	0.00027	0.028	5.581	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24608 neptune ave	1et10ft	pyrene	mg/kg	17	37	46	0.0008	0.26	0.0534	0.0687	0.0008	0.82	0.0479	95% KM (t) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 neptune ave	1et10ft	toluene	ug/kg	11	37	30	0.14	0.71	0.407	0.224	0.12	14	0.332	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24608 neptune ave	1et10ft	TPHd	mg/kg	24	37	65	11	13000	3092	3992	4.8	4.8	4553	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24608 neptune ave	1et10ft	TPHm	mg/kg	16	37	43	0.059	1100	291.2	370.5	0.049	0.086	330.6	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24608 neptune ave	1et10ft	vanadium	mg/kg	37	37	65	31	13000	2902	3572	7	7	4186	95% KM (Chebyshev) UCL	Data appear Lognormal at 5% Significance Level
24608 neptune ave	1et10ft	xylenes, total	ug/kg	6	37	16	0.3	310	81.88	132.9	0.16	18	58.56	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24608 neptune ave	1et10ft	zinc	mg/kg	37	37	100	14.3	160	45.09	35.56	--	--	70.57	95% Chebyshev (Mean, Sd) UCL	Data do not follow a Discernable Distribution (0.05)
24608 panama ave	1et20ft	2-methylnaphthalene	mg/kg	9	10	90	0.0017	0.057	0.0147	0.0181	0.0006	0.0006	0.0378	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	arsenic	mg/kg	10	10	100	2.11	11.2	4.595	2.642	--	--	6.347	95% Approximate Gamma UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	bap teq	mg/kg	9	10	90	0.00232	0.12	0.0347	0.039	0.00053	0.00053	0.084	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	benzene	ug/kg	5	10	50	0.15	0.35	0.244	0.0862	0.11	0.11	0.257	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	benzo (a) anthracene	mg/kg	9	10	90	0.0023	0.12	0.0348	0.0397	0.0007	0.0007	0.0854	95% KM (Percentile Bootstrap) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	benzo (a) pyrene	mg/kg	9	10	90	0.0018	0.082	0.0239	0.0267	0.0005	0.0005	0.058	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	benzo (b) fluoranthene	mg/kg	8	10	80	0.0021	0.057	0.018	0.0187	0.0004	0.0004	0.0397	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	cadmium	mg/kg	6	10	60	0.14	0.21	0.167	0.025	0.0883	0.0883	0.172	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	chrysene	mg/kg	9	10	90	0.005	0.44	0.117	0.143	0.0012	0.0012	0.299	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	cobalt	mg/kg	10	10	100	4.93	8	5.978	0.86	--	--	6.476	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	copper	mg/kg	10	10	100	5.74	17.9	9.852	3.329	--	--	11.78	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	dibenz (a,h) anthracene	mg/kg	8	10	80	0.0009	0.034	0.0106	0.0106	0.0007	0.0007	0.0229	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	indeno (1,2,3-c,d) pyrene	mg/kg	7	10	70	0.001	0.031	0.0115	0.0117	0.0009	0.0009	0.0148	95% KM (t) UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	lead	mg/kg	10	10	100	2.54	12.8	7.018	3.109	--	--	8.82	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	naphthalene	mg/kg	8	10	80	0.0013	0.027	0.0117	0.0107	0.00026	0.00027	0.0157	95% KM (t) UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	pyrene	mg/kg	9	10	90	0.0048	0.26	0.0663	0.0819	0.0008	0.0008	0.161	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	thallium	mg/kg	6	10	60	2.09	2.33	2.21	0.192	0.232	0.232	2.228	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	toluene	ug/kg	5	10	50	0.14	1.2	0.502	0.432	0.12	0.12	0.572	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	TPHd	mg/kg	7	10	70	16	210	83.71	65.85	4.8	4.8	100.9	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	TPHmo	mg/kg	7	10	70	45	560	241.1	167.9	7	7	295	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	vanadium	mg/kg	10	10	100	15.4	34.2	22.72	5.209	--	--	25.74	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	zinc	mg/kg	10	10	100	17.1	62.3	31.93	12.46	--	--	39.8	95% Approximate Gamma UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	1,2,4-trimethylbenzene	ug/kg	7	17	41	0.17	170	35.08	63.05	0.087	0.099	33.39	95% KM (t) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	1-methylnaphthalene	mg/kg	9	17	53	0.0021	1.6	0.613	0.624	0.0011	0.21	0.569	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	2-methylnaphthalene	mg/kg	14	17	82	0.0017	1.5	0.388	0.56	0.0006	0.12	0.881	95% KM (Chebyshev) UCL	Data Follow Appr. Gamma Distribution at 5% Significance Level
24608 panama ave	1et20ft	anthrany	mg/kg	6	17	35	0.29	1.1	0.46	0.318	0.28	0.306	0.449	95% KM (% Bootstrap) UCL	Data do not follow a Discernable Distribution (0.05)
24608 panama ave	1et20ft	arsenic	mg/kg	17	17	100	2.11	11.2	4.464	2.098	--	--	5.367	95% Approximate Gamma UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	bap teq	mg/kg	16	17	94	0.00199	1.799	0.306	0.538	0.00053	0.00053	0.846	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	benzene	ug/kg	9	17	53	0.14	1.8	0.429	0.526	0.11	20	1.451	95% KM (t) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	benzo (a) anthracene	mg/kg	15	17	88	0.0023	2.5	0.431	0.761	0.0007	0.0007	1.151	95% KM (Chebyshev) UCL	Data Follow Appr. Gamma Distribution at 5% Significance Level
24608 panama ave	1et20ft	benzo (a) pyrene	mg/kg	16	17	94	0.0017	1.2	0.209	0.359	0.0005	0.0005	0.568	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	benzo (b) fluoranthene	mg/kg	14	17	82	0.0021	0.48	0.103	0.138	0.0004	0.0004	0.224	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	cadmium	mg/kg	11	17	65	0.14	0.27	0.179	0.0375	0.0883	0.0883	0.182	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	chrysene	mg/kg	16	17	94	0.0014	6.2	1.047	1.916	0.0012	0.0012	2.969	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	cobalt	mg/kg	17	17	100	4.93	8.31	6.212	0.902	--	--	6.594	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	copper	mg/kg	17	17	100	5.74	26	11.06	4.822	--	--	13.1	95% Approximate Gamma UCL	Data Follow Appr. Gamma Distribution at 5% Significance Level
24608 panama ave	1et20ft	dibenz (a,h) anthracene	mg/kg	12	17	71	0.0009	0.25	0.066	0.0725	0.0007	0.13	0.104	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	indeno (1,2,3-c,d) pyrene	mg/kg	11	17	65	0.001	0.25	0.057	0.078	0.0009	0.17	0.0649	95% KM (BCA) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	lead	mg/kg	17	17	100	2.54	330	33.02	78.22	--	--	115.7	95% Chebyshev (Mean, Sd) UCL	Data do not follow a Discernable Distribution (0.05)
24608 panama ave	1et20ft	naphthalene	mg/kg	15	17	88	0.0013	0.35	0.102	0.126	0.00026	0.00027	0.221	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	pyrene	mg/kg	16	17	94	0.0024	8.1	1.309	2.554	0.0008	0.0008	3.873	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et20ft	thallium	mg/kg	11	17	65	1.19	2.52	2.106	0.381	0.232	0.232	2.226	95% KM (BCA) UCL	Data do not follow a Discernable Distribution (0.05)
24608 panama ave	1et20ft	toluene	ug/kg	8	17	47	0.14	62	8.209	21.74	0.12	0.66	20.35	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24608 panama ave	1et20ft	TPHd	mg/kg	13	17	76	16	38000	3945	10305	4.8	4.8	12773	95% KM (Chebyshev) UCL	Data Follow Appr. Gamma Distribution at 5% Significance Level
24608 panama ave	1et20ft	TPHm	mg/kg	7	17	41	0.14	1	0.39	0.297	0.047	0.057	0.376	95% KM (Percentile Bootstrap) UCL	Data appear Lognormal at 5% Significance Level
24608 panama ave	1et20ft	TPHmo	mg/kg	13	17	76	45	69000	6999	18731	7	7	22981	95% KM (Chebyshev) UCL	Data appear Normal at 5% Significance Level
24608 panama ave	1et20ft	vanadium	mg/kg	17	17	100	15.4	58.8	26.48	9.761	--	--	30.48	95% Approximate Gamma UCL	Data Follow Appr. Gamma Distribution at 5% Significance Level
24608 panama ave	1et20ft	zinc	mg/kg	17	17	100	17.1	62.3	33.22	11.39	--	--	38.31	95% Approximate Gamma UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et10ft	1,2,4-trimethylbenzene	ug/kg	11	22	50	0.17	760	114.3	230	0.087	0.099	120.8	95% KM (t) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et10ft	1,3,5-trimethylbenzene	ug/kg	7	22	32	0.15	210	54.16	78.4	0.074	48	36.39	95% KM (t) UCL	Data appear Gamma Distributed at 5% Significance Level
24608 panama ave	1et10ft	1-methylnaphthalene	mg/kg	13	22	59	0.0021	1.6	0.548	0.618	0.0011	0.21	0.527	95% KM (BCA) UCL	Data appear Gamma Distributed at 5% Significance Level





























































































































































Table with columns: Property Address, Depth Interval, Constituent of Concern, Units, Number of Detects, Number of Samples, Percent Detected, Minimum Detected, Maximum Detected, Mean of Detected, Standard Deviation of Detected, Minimum Reporting Limit, Maximum Reporting Limit, Final EPC, Basis for EPC, Statistical Distribution (at 5% Significance Level). Rows list various chemical constituents like chrysene, cobalt, copper, ethylbenzene, etc., at multiple depths (1e0ft to 1e2ft) for various residential properties.

Appendix B  
PROUCL Output

Summary of Exposure Point Concentrations, Soil - Residential Properties  
Table B-1

Table with columns: Property Address, Depth Interval, Constituent of Concern, Units, Number of Detects, Number of Samples, Percent Detected, Minimum Detected, Maximum Detected, Mean Detected, Standard Deviation of Detected, Minimum Reporting Limit, Maximum Reporting Limit, Final EPC, Basis for EPC, Statistical Distribution (at 5% Significance Level).























































































































Property Address	Depth Interval	Constituent of Concern <sup>1</sup>	Units	Number of Detects <sup>2</sup>	Number of Samples <sup>2</sup>	Percent Detected %	Minimum Detected	Maximum Detected	Mean of Detected	Standard Deviation of Detected	Minimum Reporting Limit	Maximum Reporting Limit	Final EPC	Basis for EPC	Statistical Distribution (at 5% Significance Level)
24803 panama ave	1ft-0ft	arsenic	mg/kg	8	8	100	1.52	3.72	2.471	0.86	--	--	3.047	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	hpb teq	mg/kg	7	8	88	0.00054	0.132	0.0283	0.0464	0.00103	0.00103	0.0935	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24803 panama ave	1ft-0ft	benzene	ug/kg	6	8	75	0.12	1.6	0.438	0.573	0.1	0.12	0.725	95% KM (BCA) UCL	Data appear Lognormal at 5% Significance Level
24803 panama ave	1ft-0ft	benzo (a) anthracene	mg/kg	5	8	63	0.003	0.29	0.0896	0.23	0.007	0.013	0.118	95% KM (BCA) UCL	Data appear Appr. Gamma Distribution at 5% Significance Level
24803 panama ave	1ft-0ft	chrysene	mg/kg	7	8	88	0.0016	0.82	0.151	0.296	0.0024	0.0024	0.588	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24803 panama ave	1ft-0ft	cobalt	mg/kg	8	8	100	4.79	6.79	5.566	0.745	--	--	6.066	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	copper	mg/kg	8	8	100	6.6	10.1	7.786	1.116	--	--	8.534	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	lead	mg/kg	8	8	100	2.87	7.65	4.865	1.719	--	--	6.017	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	naphthalene	mg/kg	6	8	75	0.004	3.9	0.673	1.581	0.00027	0.00028	2.672	95% KM (Chebyshev) UCL	Data appear Lognormal at 5% Significance Level
24803 panama ave	1ft-0ft	pyrene	mg/kg	7	8	88	0.0017	1.3	0.198	0.486	0.016	0.016	0.882	95% KM (Chebyshev) UCL	Data appear Lognormal at 5% Significance Level
24803 panama ave	1ft-0ft	toluene	ug/kg	6	8	75	0.13	0.42	0.237	0.114	0.12	0.13	0.284	95% KM (U) UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	TPHd	mg/kg	5	8	63	48	4500	1506	1986	4.8	4.8	2136	95% KM (U) UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	TPHmo	mg/kg	5	8	63	130	7800	2588	3133	7	7	3550	95% KM (U) UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	vanadium	mg/kg	8	8	100	16.1	25.3	19.61	3.256	--	--	21.79	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	zinc	mg/kg	8	8	100	20.2	37.9	29.29	7.494	--	--	34.31	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	1,2,4-trimethylbenzene	ug/kg	6	14	43	0.14	8800	2050	3591	0.09	0.11	3908	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	1-methylnaphthalene	mg/kg	12	14	86	0.0055	23	4.306	8.405	0.0011	0.021	12.94	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	2-methylnaphthalene	mg/kg	14	14	100	0.0006	35	5.611	12.32	--	--	35	Maximum detected	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	arsenic	mg/kg	14	14	100	1.48	3.72	2.432	0.778	--	--	2.691	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	hpb teq	mg/kg	12	14	86	0.000538	0.849	0.143	0.293	0.00053	0.00103	0.445	95% KM (Chebyshev) UCL	Data appear Lognormal at 5% Significance Level
24803 panama ave	1ft-0ft	benzene	ug/kg	8	14	57	0.12	1100	191.6	396.6	0.1	0.12	478.2	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	benzo (a) anthracene	mg/kg	8	14	57	0.0011	0.75	0.138	0.266	0.0007	0.52	0.179	95% KM (BCA) UCL	Data Follow Appr. Gamma Distribution at 5% Significance Level
24803 panama ave	1ft-0ft	pyrene	mg/kg	13	14	93	0.001	2.4	0.43	0.831	0.016	0.016	1.342	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	toluene	ug/kg	8	14	57	0.13	33	5.803	11.74	0.12	0.13	14.28	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	TPHd	mg/kg	8	14	57	48	7700	2916	3157	4.8	4.8	272.9	95% KM (Chebyshev) UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	TPHmo	mg/kg	5	14	36	0.052	900	332	467.3	0.046	0.054	22.9	95% KM (U) UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	vanadium	mg/kg	8	14	57	130	7800	3630	3209	7	7	3700	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	xylenes, total	ug/kg	14	14	100	15.9	25.5	19.63	3.546	--	--	21.4	95% Approximate Gamma UCL	Data appear Gamma Distributed at 5% Significance Level
24803 panama ave	1ft-0ft	zinc	ug/kg	7	14	50	0.19	3200	714.5	1285	0.16	0.19	1507	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	1,2,4-trimethylbenzene	ug/kg	14	14	100	19.9	37.9	27.35	6.929	--	--	30.93	95% Approximate Gamma UCL	Data appear Gamma Distributed at 5% Significance Level
24803 panama ave	1ft-0ft	1-methylnaphthalene	mg/kg	7	18	39	0.14	8800	2743	3756	0.09	0.11	3894	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	2-methylnaphthalene	mg/kg	14	18	78	0.0055	23	4.17	7.849	0.0011	0.021	10.59	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	arsenic	mg/kg	16	18	89	0.0006	35	5.599	11.64	0.0006	0.0006	16.41	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	hpb teq	mg/kg	18	18	100	1.48	5.03	2.726	1.071	--	--	3.165	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	benzene	ug/kg	14	18	78	0.000538	0.849	0.139	0.273	0.00053	0.00103	0.363	95% KM (Chebyshev) UCL	Data appear Lognormal at 5% Significance Level
24803 panama ave	1ft-0ft	benzo (a) anthracene	mg/kg	9	18	50	0.12	1100	244.7	403.8	0.1	0.12	444.7	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	chrysene	mg/kg	7	18	39	0.0006	0.57	0.172	0.24	0.0007	0.52	0.154	95% KM (U) UCL	Data appear Gamma Distributed at 5% Significance Level
24803 panama ave	1ft-0ft	cobalt	mg/kg	13	18	72	0.0014	1.9	0.353	0.588	0.0005	0.099	0.139	95% KM (U) UCL	Data appear Gamma Distributed at 5% Significance Level
24803 panama ave	1ft-0ft	copper	mg/kg	18	18	100	4.79	10.1	6.121	1.31	--	--	6.655	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24803 panama ave	1ft-0ft	ethylnaphthalene	ug/kg	18	18	100	5.58	10.1	7.564	1.105	--	--	8.017	95% Student's-t UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	lead	ug/kg	18	18	100	2.87	7.65	4.587	1.398	0.12	0.17	2550	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	naphthalene	mg/kg	13	18	72	0.004	12	2.89	4.614	0.00026	0.00028	6.172	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	pyrene	mg/kg	16	18	89	0.001	2.4	0.389	0.76	0.0008	0.016	1.093	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	toluene	ug/kg	8	18	44	0.13	33	5.803	11.74	0.12	0.12	11.27	95% KM (Chebyshev) UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	TPHd	mg/kg	10	18	56	48	7700	2672	2931	4.8	4.8	2568	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	TPHmo	mg/kg	6	18	33	0.052	900	405	446.4	0.046	0.059	271.1	95% KM (U) UCL	Data Follow Appr. Gamma Distribution at 5% Significance Level
24803 panama ave	1ft-0ft	vanadium	mg/kg	10	18	56	130	7800	3251	3032	7	7	3011	95% KM (Percentile Bootstrap) UCL	Data appear Normal at 5% Significance Level
24803 panama ave	1ft-0ft	xylenes, total	ug/kg	8	18	44	0.19	3200	875.2	1273	0.16	0.19	1384	95% Approximate Gamma UCL	Data do not follow a Discernable Distribution (0.05)
24803 panama ave	1ft-0ft	zinc	mg/kg	18	18	100	19.9	37.9	27.51	6.057	--	--	30.17	95% Approximate Gamma UCL	Data appear Gamma Distributed at 5% Significance Level
24803 neptune ave	1ft-0ft	2-methylnaphthalene	mg/kg	6	8	75	0.0011	0.072	0.0159	0.0278	0.0006	0.0006	0.0508	95% KM (Chebyshev) UCL	Data appear Gamma Distributed at 5% Significance Level
24803 neptune ave	1ft-0ft	arsenic	mg/kg	8	8	100	0.707	3.01	1.779	1.061	--	--	3.01	Maximum detected	Data do not follow a Discernable Distribution (0.05)
24803 neptune ave	1ft-0ft	hpb teq	mg/kg	8	8	100	0.000536	0.284	0.0515	0.0922	--	--	0.284	Maximum detected	Data appear Gamma Distributed at 5% Significance Level
24803 neptune ave	1ft-0ft	benzo (a) anthracene	mg/kg	5	8	63	0.0018	0.38	0.108	0.158	0.0007	0.0007	0.161	95% KM (BCA) UCL	Data appear Gamma Distributed at 5% Significance Level































































































































































**APPENDIX C**

**SITE-SPECIFIC CLEANUP GOAL DERIVATION**

**Appendix C, Table C-1  
Derivation of Site-Specific Cleanup Goals, Soil  
Onsite Resident**

CAS Number	Constituent of Concern	Noncancer Effects						Cancer Effects							
		Ingestion		Dermal Contact		Outdoor Inhalation		Ingestion		Dermal Contact		Outdoor Inhalation			
		$I_{oral}^{F}$ (mg/kg-day)	Reference Dose (mg/kg-day)	$I_{dermal}^{F}$ (mg/kg-day)	Reference Dose (mg/kg-day)	$E_{inhal,soil}^{C}$ (mg/m <sup>3</sup> )	Reference Concentration (mg/m <sup>3</sup> )	$I_{oral}^{F}$ (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	$I_{dermal}^{F}$ (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	$E_{inhal,soil}^{C}$ (mg/m <sup>3</sup> )	Inhalation Unit Risk ( $\mu$ g/m <sup>3</sup> ) <sup>-1</sup>	$SSCG_{soil,c}$ (mg/kg)	
	<b>Inorganics</b>														
7440-36-0	Antimony	1.3E-05	4.0E-04	--	6.0E-05	8.3E-12	NA	3.1E+01	1.6E-06	NC	--	NC	3.6E-12	NC	--
7440-38-2	Arsenic	1.3E-05	3.0E-04	1.1E-06	3.0E-04	8.3E-12	1.5E-05	2.2E+01	1.6E-06	9.5E+00	1.5E-07	9.5E+00	3.6E-12	3.3E-03	6.1E-02
7440-43-9	Cadmium	1.3E-05	1.0E-03	3.6E-08	2.5E-05	8.3E-12	2.0E-05	7.0E+01	1.6E-06	NC	4.9E-09	NC	3.6E-12	4.2E-03	6.7E+04
18540-29-9	Chromium VI	1.3E-05	3.0E-03	--	7.5E-05	8.3E-12	1.0E-04	2.3E+02	1.6E-06	5.0E-01	--	NC	3.6E-12	1.5E-01	1.3E+00
7440-48-4	Cobalt	1.3E-05	3.0E-04	--	3.0E-04	8.3E-12	6.0E-06	2.3E+01	1.6E-06	NC	--	NC	3.6E-12	9.0E-03	3.1E+04
7440-50-8	Copper	1.3E-05	4.0E-02	--	4.0E-02	8.3E-12	NA	3.1E+03	1.6E-06	NC	--	NC	3.6E-12	NC	--
7439-92-1	Lead	1.3E-05	NA	--	NA	8.3E-12	NA	--	1.6E-06	NC	--	NC	3.6E-12	NC	--
7440-28-0	Thallium	1.3E-05	1.0E-05	--	1.0E-05	8.3E-12	NA	7.8E-01	1.6E-06	NC	--	NC	3.6E-12	NC	--
7440-62-2	Vanadium	1.3E-05	5.0E-03	--	5.0E-03	8.3E-12	1.0E-04	3.9E+02	1.6E-06	NC	--	NC	3.6E-12	NC	--
7440-66-6	Zinc	1.3E-05	3.0E-01	--	3.0E-01	8.3E-12	NA	2.3E+04	1.6E-06	NC	--	NC	3.6E-12	NC	--
	<b>PAHS</b>														
56-55-3	Benz[ <i>a</i> ]anthracene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	--	1.6E-06	2.9E-01	6.4E-07	2.9E-01	3.6E-12	1.1E-04	1.6E+00
50-32-8	Benz[ <i>a</i> ]pyrene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	--	1.6E-06	2.9E+00	6.4E-07	2.9E+00	3.6E-12	1.1E-03	1.6E+01
205-99-2	Benz[ <i>b</i> ]fluoranthene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	--	1.6E-06	2.9E-01	6.4E-07	2.9E-01	3.6E-12	1.1E-04	1.6E+00
207-08-9	Benz[ <i>k</i> ]fluoranthene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	--	1.6E-06	2.9E-01	6.4E-07	2.9E-01	3.6E-12	1.1E-04	1.6E+00
218-01-9	Chrysene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	--	1.6E-06	2.9E-02	6.4E-07	2.9E-02	3.6E-12	1.1E-05	1.6E+01
53-70-3	Dibenz[ <i>a,h</i> ]anthracene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	--	1.6E-06	4.1E+00	6.4E-07	4.1E+00	3.6E-12	1.2E-03	1.1E-01
193-99-5	Indeno[1,2,3- <i>cd</i> ]pyrene	1.3E-05	NA	4.7E-06	NA	8.3E-12	NA	--	1.6E-06	2.9E-01	6.4E-07	2.9E-01	3.6E-12	1.1E-04	1.6E+00
90-12-0	Methylanthracene, 1-	1.3E-05	7.0E-02	4.7E-06	7.0E-02	1.4E-05	NA	4.0E+03	1.6E-06	2.9E-02	6.4E-07	2.9E-02	5.9E-06	NC	1.6E+01
91-57-6	Methylnaphthalene, 2-	1.3E-05	4.0E-03	4.7E-06	4.0E-03	1.4E-05	NA	2.3E+02	1.6E-06	NC	6.4E-07	NC	6.1E-06	NC	--
91-20-3	Naphthalene	1.3E-05	2.0E-02	4.7E-06	2.0E-02	1.7E-05	3.0E-03	1.5E+02	1.6E-06	NC	6.4E-07	NC	7.4E-06	3.4E-05	4.0E+00
129-00-0	Pyrene	1.3E-05	3.0E-02	4.7E-06	3.0E-02	2.5E-07	1.1E-01	1.7E+03	1.6E-06	NC	6.4E-07	NC	1.1E-07	NC	--
	<b>TPH</b>														
	Aliphatic: C5-C8	1.3E-05	4.0E-02	4.7E-06	4.0E-02	6.8E-04	7.0E-01	7.1E+02	1.6E-06	NC	6.4E-07	NC	2.9E-04	NC	--
	Aliphatic: C9-C18	1.3E-05	1.0E-01	4.7E-06	1.0E-01	1.6E-04	3.0E-01	1.4E+03	1.6E-06	NC	6.4E-07	NC	6.7E-05	NC	--
	Aliphatic: C19-C32	1.3E-05	2.0E+00	4.7E-06	2.0E+00	--	NA	1.1E+05	1.6E-06	NC	6.4E-07	NC	--	NC	--
	Aromatic: C6-C8	1.3E-05	NA	4.7E-06	NA	2.2E-04	NA	--	1.6E-06	NC	6.4E-07	NC	9.6E-05	NC	--
	Aromatic: C9-C16	1.3E-05	3.0E-02	4.7E-06	3.0E-02	5.3E-05	5.0E-02	6.0E+02	1.6E-06	NC	6.4E-07	NC	2.9E-05	NC	--
	Aromatic: C17-C32	1.3E-05	3.0E-02	4.7E-06	3.0E-02	--	NA	1.7E+03	1.6E-06	NC	6.4E-07	NC	--	NC	--

**Appendix C, Table C-1  
Derivation of Site-Specific Cleanup Goals, Soil  
Onsite Resident**

CAS Number	Constituent of Concern	Noncancer Effects										Cancer Effects					
		Ingestion		Dermal Contact		Outdoor Inhalation		SSCG <sub>soilhc</sub> (mg/kg)	Ingestion		Dermal Contact		Outdoor Inhalation		SSCG <sub>soilc</sub> (mg/kg)		
		I <sub>F<sub>oral</sub></sub> (mg/kg-day)	Reference Dose (mg/kg-day)	I <sub>F<sub>dermal</sub></sub> (mg/kg-day)	Reference Dose (mg/kg-day)	E <sub>C<sub>inhal</sub></sub> (mg/m <sup>3</sup> )	Reference Concentration (mg/m <sup>3</sup> )		I <sub>F<sub>oral</sub></sub> (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	I <sub>F<sub>dermal</sub></sub> (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	E <sub>C<sub>inhal</sub></sub> (mg/m <sup>3</sup> )	Inhalation Unit Risk (µg/m <sup>3</sup> ) <sup>-1</sup>			
121-14-2	2,4-Dinitrotoluene	1.3E-05	2.0E-03	3.7E-06	2.0E-03	8.3E-12	7.0E-03	1.2E+02	1.6E-06	3.1E-01	5.0E-07	3.1E-01	3.6E-12	8.9E-05	1.6E+00		
117-81-7	Bis(2-Ethylhexyl) Phthalate	1.3E-05	2.0E-02	3.6E-06	2.0E-02	8.3E-12	7.0E-02	1.2E+03	1.6E-06	1.4E-02	4.9E-07	1.4E-02	3.6E-12	2.4E-06	3.5E+01		
	<b>SVOCs</b>																
	<b>VOCs</b>																
79-34-5	1,1,2,2-Tetrachloroethane	1.3E-05	2.0E-02	--	2.0E-02	6.9E-05	7.0E-02	6.2E+02	1.6E-06	2.7E-01	--	2.7E-01	2.9E-05	5.8E-05	4.7E-01		
96-18-4	1,2,3-Trichloropropane	1.3E-05	4.0E-03	--	4.0E-03	1.3E-04	3.0E-04	2.4E+00	1.6E-06	3.0E+01	--	3.0E+01	5.4E-05	NC	2.1E-02		
95-63-6	1,2,4-Trimethylbenzene	1.3E-05	1.0E-02	--	1.0E-02	7.6E-05	7.0E-03	8.3E+01	1.6E-06	NC	--	NC	3.2E-05	NC	--		
78-87-5	1,2-Dichloropropane	1.3E-05	9.0E-02	--	9.0E-02	2.7E-04	4.0E-03	1.5E+01	1.6E-06	3.6E-02	--	3.6E-02	1.2E-04	1.0E-05	8.3E-01		
108-67-8	1,3,5-Trimethylbenzene	1.3E-05	1.0E-02	--	1.0E-02	7.4E-05	7.0E-03	8.5E+01	1.6E-06	NC	--	NC	3.2E-05	NC	--		
106-46-7	1,4-Dichlorobenzene	1.3E-05	7.0E-02	--	7.0E-02	7.4E-05	8.0E-01	3.6E+03	1.6E-06	5.4E-03	--	5.4E-03	3.2E-05	1.1E-05	2.8E+00		
71-43-2	Benzene	1.3E-05	4.0E-03	--	4.0E-03	3.5E-04	3.0E-02	6.7E+01	1.6E-06	1.0E-01	--	1.0E-01	1.5E-04	2.9E-05	2.2E-01		
75-27-4	Bromodichloromethane	1.3E-05	2.0E-02	--	2.0E-02	1.2E-04	7.0E-02	4.3E+02	1.6E-06	1.3E-01	--	1.3E-01	5.0E-05	3.7E-05	4.9E-01		
74-83-9	Bromomethane	1.3E-05	1.4E-03	--	1.4E-03	5.2E-04	5.0E-03	8.8E+00	1.6E-06	NC	--	NC	2.2E-04	NC	--		
100-41-4	Ethylbenzene	1.3E-05	1.0E-01	--	1.0E-01	1.8E-04	1.0E+00	3.3E+03	1.6E-06	1.1E-02	--	1.1E-02	7.7E-05	2.5E-06	4.8E+00		
75-09-2	Methylene chloride	1.3E-05	6.0E-03	--	6.0E-03	3.9E-04	6.0E-01	3.6E+02	1.6E-06	1.4E-02	--	1.4E-02	1.7E-04	1.0E-06	5.3E+00		
127-18-4	Tetrachloroethene	1.3E-05	6.0E-03	--	6.0E-03	3.8E-04	4.0E-02	8.6E+01	1.6E-06	5.4E-01	--	5.4E-01	1.6E-04	5.9E-06	5.5E-01		
108-88-3	Toluene	1.3E-05	8.0E-02	--	8.0E-02	2.4E-04	5.0E+00	4.8E+03	1.6E-06	NC	--	NC	1.0E-04	NC	--		
79-01-6	Trichloroethene	1.3E-05	5.0E-04	--	5.0E-04	3.0E-04	2.0E-03	5.8E+00	8.3E-06	4.6E-02	--	4.6E-02	4.5E-04	4.1E-06	1.2E+00		
75-01-4	Vinyl chloride	1.3E-05	3.0E-03	--	3.0E-03	9.3E-04	1.0E-01	7.4E+01	1.6E-06	2.7E-01	--	2.7E-01	4.0E-04	7.8E-05	3.2E-02		
1330-20-7	Xylene, total	1.3E-05	2.0E-01	--	2.0E-01	1.7E-04	1.0E-01	5.6E+02	1.6E-06	NC	--	NC	7.4E-05	NC	--		

Notes:  
 "-, --" not applicable  
 SSCG<sub>soilc</sub> = based on cancer effects  
 SSCG<sub>soilhc</sub> = based on noncancer effects

**Appendix C, Table C-2  
Derivation of Site-Specific Cleanup Goals, Soil  
Onsite Resident, Infrequent Exposure to Subsurface Soils**

CAS Number	Constituent of Concern	Noncancer Effects						Cancer Effects							
		Ingestion		Dermal Contact		Outdoor Inhalation		Ingestion		Dermal Contact		Outdoor Inhalation			
		IF <sub>oral</sub> (mg/kg-day)	Reference Dose (mg/kg-day)	IF <sub>dermal</sub> (mg/kg-day)	Reference Dose (mg/kg-day)	EC <sub>inh,soil</sub> (mg/m <sup>3</sup> )	Reference Concentration (mg/m <sup>3</sup> )	SSCG <sub>soil-c</sub> (mg/kg)	IF <sub>oral</sub> (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	IF <sub>dermal</sub> (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	EC <sub>inh,soil</sub> (mg/m <sup>3</sup> )	Inhalation Unit Risk (µg/m <sup>3</sup> ) <sup>-1</sup>	SSCG <sub>soil-c</sub> (mg/kg)
	<b>Inorganics</b>														
7440-36-0	Antimony	1.5E-07	4.0E-04	--	6.0E-05	9.5E-14	NA	2.7E+03	1.8E-08	NC	--	NC	4.1E-14	NC	--
7440-38-2	Arsenic	1.5E-07	3.0E-04	1.2E-08	3.0E-04	9.5E-14	1.5E-05	1.9E+03	1.8E-08	9.5E+00	1.7E-09	9.5E+00	4.1E-14	3.3E-03	5.4E+00
7440-43-9	Cadmium	1.5E-07	1.0E-03	4.1E-10	2.5E-05	9.5E-14	2.0E-05	6.2E+03	1.8E-08	NC	5.6E-11	NC	4.1E-14	4.2E-03	5.8E+06
18540-29-9	Chromium VI	1.5E-07	3.0E-03	--	7.5E-05	9.5E-14	1.0E-04	2.1E+04	1.8E-08	5.0E-01	--	NC	4.1E-14	1.5E-01	1.1E+02
7440-48-4	Cobalt	1.5E-07	3.0E-04	--	3.0E-04	9.5E-14	6.0E-06	2.1E+03	1.8E-08	NC	--	NC	4.1E-14	9.0E-03	2.7E+06
7440-50-8	Copper	1.5E-07	4.0E-02	--	4.0E-02	9.5E-14	NA	2.7E+05	1.8E-08	NC	--	NC	4.1E-14	NC	--
7439-92-1	Lead	1.5E-07	NA	--	NA	9.5E-14	NA	--	1.8E-08	NC	--	NC	4.1E-14	NC	--
7440-28-0	Thallium	1.5E-07	1.0E-05	--	1.0E-05	9.5E-14	NA	6.8E+01	1.8E-08	NC	--	NC	4.1E-14	NC	--
7440-62-2	Vanadium	1.5E-07	5.0E-03	--	5.0E-03	9.5E-14	1.0E-04	3.4E+04	1.8E-08	NC	--	NC	4.1E-14	NC	--
7440-66-6	Zinc	1.5E-07	3.0E-01	--	3.0E-01	9.5E-14	NA	2.1E+06	1.8E-08	NC	--	NC	4.1E-14	NC	--
	<b>PAHS</b>														
56-55-3	Benz[a]anthracene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E-01	7.3E-09	2.9E-01	4.1E-14	1.1E-04	1.4E+02
50-32-8	Benz[a]pyrene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E+00	7.3E-09	2.9E+00	4.1E-14	1.1E-03	1.4E+01
205-99-2	Benz[b]fluoranthene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E-01	7.3E-09	2.9E-01	4.1E-14	1.1E-04	1.4E+02
207-08-9	Benzokjfluoranthene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E-01	7.3E-09	2.9E-01	4.1E-14	1.1E-04	1.4E+02
218-01-9	Chrysene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E-02	7.3E-09	2.9E-02	4.1E-14	1.1E-05	1.4E+03
53-70-3	Dibenz[a,h]anthracene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	4.1E+00	7.3E-09	4.1E+00	4.1E-14	1.2E-03	9.7E+00
193-39-5	Indeno[1,2,3-cd]pyrene	1.5E-07	NA	5.3E-08	NA	9.5E-14	NA	--	1.8E-08	2.9E-01	7.3E-09	2.9E-01	4.1E-14	1.1E-04	1.4E+02
90-12-0	Methylnaphthalene, 1-	1.5E-07	7.0E-02	5.3E-08	7.0E-02	1.6E-07	NA	3.5E+05	1.8E-08	2.9E-02	7.3E-09	2.9E-02	6.7E-08	NC	1.4E+03
91-57-6	Methylnaphthalene, 2-	1.5E-07	4.0E-03	5.3E-08	4.0E-03	1.6E-07	NA	2.0E+04	1.8E-08	NC	7.3E-09	NC	7.0E-08	NC	--
91-20-3	Naphthalene	1.5E-07	2.0E-02	5.3E-08	2.0E-02	2.0E-07	3.0E-03	1.3E+04	1.8E-08	NC	7.3E-09	NC	8.5E-08	3.4E-05	3.5E+02
129-00-0	Pyrene	1.5E-07	3.0E-02	5.3E-08	3.0E-02	2.9E-09	1.1E-01	1.5E+05	1.8E-08	NC	7.3E-09	NC	1.2E-09	NC	--
	<b>TPH</b>														
	Aliphatic C5-C8	1.5E-07	4.0E-02	5.3E-08	4.0E-02	7.8E-06	7.0E-01	6.2E+04	1.8E-08	NC	7.3E-09	NC	3.3E-06	NC	--
	Aliphatic C9-C18	1.5E-07	1.0E-01	5.3E-08	1.0E-01	1.8E-06	3.0E-01	1.3E+05	1.8E-08	NC	7.3E-09	NC	7.6E-07	NC	--
	Aliphatic C19-C32	1.5E-07	2.0E+00	5.3E-08	2.0E+00	--	NA	1.0E+07	1.8E-08	NC	7.3E-09	NC	--	NC	--
	Aromatic C6-C8	1.5E-07	NA	5.3E-08	NA	2.6E-06	NA	--	1.8E-08	NC	7.3E-09	NC	1.1E-06	NC	--
	Aromatic C9-C16	1.5E-07	3.0E-02	5.3E-08	3.0E-02	6.1E-07	5.0E-02	5.3E+04	1.8E-08	NC	7.3E-09	NC	2.6E-07	NC	--
	Aromatic C17-C32	1.5E-07	3.0E-02	5.3E-08	3.0E-02	--	NA	1.5E+05	1.8E-08	NC	7.3E-09	NC	--	NC	--

**Appendix C, Table C-2  
Derivation of Site-Specific Cleanup Goals, Soil  
Onsite Resident, Infrequent Exposure to Subsurface Soils**

CAS Number	Constituent of Concern	Noncancer Effects										Cancer Effects						
		Ingestion		Dermal Contact		Outdoor Inhalation		SSCG <sub>soil,inc</sub> (mg/kg)	Ingestion		Dermal Contact		Outdoor Inhalation		SSCG <sub>soil,c</sub> (mg/kg)			
		I <sub>oral</sub> (mg/kg-day)	Reference Dose (mg/kg-day)	I <sub>dermal</sub> (mg/kg-day)	Reference Dose (mg/kg-day)	E <sub>inh,soil</sub> (mg/m <sup>3</sup> )	Reference Concentration (mg/m <sup>3</sup> )		I <sub>oral</sub> (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	I <sub>dermal</sub> (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	E <sub>inh,soil</sub> (mg/m <sup>3</sup> )	Inhalation Unit Risk (µg/m <sup>3</sup> ) <sup>-1</sup>				
121-14-2	2,4-Dinitrotoluene	1.5E-07	2.0E-03	4.2E-08	2.0E-03	9.5E-14	7.0E-03	1.1E+04	1.8E-08	3.1E-01	5.8E-09	3.1E-01	4.1E-14	8.9E-05	1.4E+02			
117-81-7	Bis(2-Ethylhexyl) Phthalate	1.5E-07	2.0E-02	4.1E-08	2.0E-02	9.5E-14	7.0E-02	1.1E+05	1.8E-08	1.4E-02	5.6E-09	1.4E-02	4.1E-14	2.4E-06	3.0E+03			
	<b>VOCS</b>																	
79-34-5	1,1,2,2-Tetrachloroethane	1.5E-07	2.0E-02	--	2.0E-02	7.8E-07	7.0E-02	5.4E+04	1.8E-08	2.7E-01	--	2.7E-01	3.4E-07	5.8E-05	4.1E+01			
96-18-4	1,2,3-Trichloropropane	1.5E-07	4.0E-03	--	4.0E-03	1.4E-06	3.0E-04	2.1E+02	1.8E-08	3.0E+01	--	3.0E+01	6.1E-07	NC	1.9E+00			
95-63-6	1,2,4-Trimethylbenzene	1.5E-07	1.0E-02	--	1.0E-02	8.7E-07	7.0E-03	7.2E+03	1.8E-08	NC	--	NC	3.7E-07	NC	--			
78-87-5	1,2-Dichloropropane	1.5E-07	9.0E-02	--	9.0E-02	3.1E-06	4.0E-03	1.3E+03	1.8E-08	3.6E-02	--	3.6E-02	1.3E-06	1.0E-05	7.2E+01			
108-67-8	1,3,5-Trimethylbenzene	1.5E-07	1.0E-02	--	1.0E-02	8.4E-07	7.0E-03	7.4E+03	1.8E-08	NC	--	NC	3.6E-07	NC	--			
106-46-7	1,4-Dichlorobenzene	1.5E-07	7.0E-02	--	7.0E-02	8.5E-07	8.0E-01	3.2E+05	1.8E-08	5.4E-03	--	5.4E-03	3.6E-07	1.1E-05	2.4E+02			
71-43-2	Benzene	1.5E-07	4.0E-03	--	4.0E-03	4.0E-06	3.0E-02	5.8E+03	1.8E-08	1.0E-01	--	1.0E-01	1.7E-06	2.9E-05	1.9E+01			
75-27-4	Bromodichloromethane	1.5E-07	2.0E-02	--	2.0E-02	1.3E-06	7.0E-02	3.8E+04	1.8E-08	1.3E-01	--	1.3E-01	5.7E-07	3.7E-05	4.2E+01			
74-83-9	Bromomethane	1.5E-07	1.4E-03	--	1.4E-03	6.0E-06	5.0E-03	7.7E+02	1.8E-08	NC	--	NC	2.6E-06	NC	--			
100-41-4	Ethylbenzene	1.5E-07	1.0E-01	--	1.0E-01	2.0E-06	1.0E+00	2.9E+05	1.8E-08	1.1E-02	--	1.1E-02	8.8E-07	2.5E-06	4.2E+02			
75-09-2	Methylene chloride	1.5E-07	6.0E-03	--	6.0E-03	4.4E-06	6.0E-01	3.2E+04	1.8E-08	1.4E-02	--	1.4E-02	1.9E-06	1.0E-06	4.7E+02			
127-18-4	Tetrachloroethene	1.5E-07	6.0E-03	--	6.0E-03	4.3E-06	4.0E-02	7.5E+03	1.8E-08	5.4E-01	--	5.4E-01	1.9E-06	5.9E-06	4.9E+01			
108-88-3	Toluene	1.5E-07	8.0E-02	--	8.0E-02	2.8E-06	5.0E+00	4.2E+05	1.8E-08	NC	--	NC	1.2E-06	NC	--			
79-01-6	Trichloroethene	1.5E-07	5.0E-04	--	5.0E-04	3.4E-06	2.0E-03	5.0E+02	9.5E-08	4.6E-02	--	4.6E-02	5.1E-06	4.1E-06	1.0E+02			
75-01-4	Vinyl chloride	1.5E-07	3.0E-03	--	3.0E-03	1.1E-05	1.0E-01	6.4E+03	1.8E-08	2.7E-01	--	2.7E-01	4.6E-06	7.8E-05	2.8E+00			
1330-20-7	Xylene, total	1.5E-07	2.0E-01	--	2.0E-01	2.0E-06	1.0E-01	4.9E+04	1.8E-08	NC	--	NC	8.5E-07	NC	--			

Notes:  
 "--" not applicable  
 SSCG<sub>soil,c</sub> = based on cancer effects  
 SSCG<sub>soil,inc</sub> = based on noncancer effects

**Appendix C, Table C-3  
Derivation of Site-Specific Cleanup Goal, Lead in Soil  
Onsite Resident, Infrequent Exposure to Subsurface Soils**

Variable	Description of Variable	Units	GSD <sub>i</sub> and PbB <sub>0</sub> from Analysis of NHANES 1999-2004
PbB <sub>fetal, 0.90</sub>	90 <sup>th</sup> percentile PbB in fetus	ug/dL	1
R <sub>fetal/maternal</sub>	Fetal/maternal PbB ratio	--	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4
GSD <sub>i</sub>	Geometric standard deviation PbB	--	1.8
PbB <sub>0</sub>	Baseline PbB	ug/dL	0.0
IR <sub>s</sub>	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100
AF <sub>s, d</sub>	Absorption fraction (same for soil and dust)	--	0.12
EF <sub>s, d</sub>	Exposure frequency (same for soil and dust)	days/yr	12
AT <sub>s, d</sub>	Averaging time (same for soil and dust)	days/yr	90
<b>Site-Specific Cleanup Goal (SSCG) =</b>			<b>8.2E+02</b>

Calculations of Preliminary Remediation Goals (PRGs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09

**Appendix C, Table C-4  
Derivation of Site-Specific Cleanup Goals, Sub-Slab Soil Vapor  
Onsite Resident**

CAS Number	Constituent of Concern	Noncancer Effects				Cancer Effects			
		Reference Concentration (mg/m <sup>3</sup> )	Indoor Air SSCG <sub>inc</sub> (µg/m <sup>3</sup> )	Sub-Slab Soil Vapor SSCG <sub>inc</sub> (µg/m <sup>3</sup> )	Inhalation Unit Risk (µg/m <sup>3</sup> ) <sup>-1</sup>	Indoor Air SSCG <sub>c</sub> (µg/m <sup>3</sup> )	Sub-Slab Soil Vapor SSCG <sub>c</sub> (µg/m <sup>3</sup> )		
79-34-5	1,1,2,2-Tetrachloroethane	7.0E-02	7.3E+01	3.7E+04	5.8E-05	4.2E-02	2.1E+01		
79-00-5	1,1,2-Trichloroethane	2.0E-04	2.1E-01	1.0E+02	1.6E-05	1.5E-01	7.5E+01		
75-34-3	1,1-Dichloroethane	7.0E-01	7.3E+02	3.7E+05	1.6E-06	1.5E+00	7.6E+02		
120-82-1	1,2,4-Trichlorobenzene	2.0E-03	2.1E+00	1.0E+03	NC	..	-		
95-63-6	1,2,4-Trimethylbenzene	7.0E-03	7.3E+00	3.7E+03	NC	..	-		
107-06-2	1,2-Dichloroethane	7.0E-03	7.3E+00	3.7E+03	2.1E-05	1.2E-01	5.9E+01		
78-87-5	1,2-Dichloropropane	4.0E-03	4.2E+00	2.1E+03	1.0E-05	2.4E-01	1.2E+02		
108-67-8	1,3,5-Trimethylbenzene	7.0E-03	7.3E+00	3.7E+03	NC	..	-		
106-99-0	1,3-Butadiene	2.0E-03	2.1E+00	1.0E+03	1.7E-04	1.4E-02	7.2E+00		
106-46-7	1,4-Dichlorobenzene	8.0E-01	8.3E+02	4.2E+05	1.1E-05	2.2E-01	1.1E+02		
123-91-1	1,4-Dioxane	3.0E+00	3.1E+03	1.6E+06	7.7E-06	3.2E-01	1.6E+02		
540-84-1	2,2,4-Trimethylpentane	1.0E+00	1.0E+03	5.2E+05	NC	..	-		
591-78-6	2-Hexanone	3.0E-02	3.1E+01	1.6E+04	NC	..	-		
622-96-8	4-Ethyltoluene	1.0E-01	1.0E+02	5.2E+04	NC	..	-		
71-43-2	Benzene	3.0E-02	3.1E+01	1.6E+04	2.9E-05	8.4E-02	4.2E+01		
75-27-4	Bromodichloromethane	7.0E-02	7.3E+01	3.7E+04	3.7E-05	6.6E-02	3.3E+01		
74-83-9	Bromomethane	5.0E-03	5.2E+00	2.6E+03	NC	..	-		
75-15-0	Carbon disulfide	7.0E-01	7.3E+02	3.7E+05	NC	..	-		
56-23-5	Carbon tetrachloride	1.0E-01	1.0E+02	5.2E+04	4.2E-05	5.8E-02	2.9E+01		
67-66-3	Chloroform	9.8E-02	1.0E+02	5.1E+04	5.3E-06	4.6E-01	2.3E+02		
110-82-7	Cyclohexane	6.0E+00	6.3E+03	3.1E+06	NC	..	-		
124-48-1	Dibromochloromethane	7.0E-02	7.3E+01	3.7E+04	2.7E-05	9.0E-02	4.5E+01		
156-59-2	Dichloroethene, cis-1,2-	7.0E-03	7.3E+00	3.7E+03	NC	..	-		
156-60-5	Dichloroethene, trans-1,2-	6.0E-02	6.3E+01	3.1E+04	NC	..	-		
10061-02-6	Dichloropropene, trans-1,3-	2.0E-02	2.1E+01	1.0E+04	1.6E-05	1.5E-01	7.6E+01		
64-17-5	Ethanol	4.0E+00	4.2E+03	2.1E+06	NC	..	-		
100-41-4	Ethylbenzene	1.0E+00	1.0E+03	5.2E+05	2.5E-06	9.7E-01	4.9E+02		
142-82-5	Heptane	7.0E-01	7.3E+02	3.7E+05	NC	..	-		
87-68-3	Hexachloro-1,3-butadiene	3.5E-03	3.7E+00	1.8E+03	2.2E-05	1.1E-01	5.5E+01		
110-54-3	Hexane	7.0E-01	7.3E+02	3.7E+05	NC	..	-		

**Appendix C, Table C-4  
Derivation of Site-Specific Cleanup Goals, Sub-Slab Soil Vapor  
Onsite Resident**

CAS Number	Constituent of Concern	Noncancer Effects			Cancer Effects		
		Reference Concentration (mg/m <sup>3</sup> )	Indoor Air SSCG <sub>inc</sub> (µg/m <sup>3</sup> )	Sub-Slab Soil Vapor SSCG <sub>inc</sub> (µg/m <sup>3</sup> )	Inhalation Unit Risk (µg/m <sup>3</sup> ) <sup>-1</sup>	Indoor Air SSCG <sub>c</sub> (µg/m <sup>3</sup> )	Sub-Slab Soil Vapor SSCG <sub>c</sub> (µg/m <sup>3</sup> )
67-63-0	Isopropanol	7.0E+00	7.3E+03	3.7E+06	NC	..	-
98-82-8	Isopropylbenzene (cumene)	4.0E-01	4.2E+02	2.1E+05	NC	..	-
78-93-3	Methyl ethyl ketone (2-butanone)	5.0E+00	5.2E+03	2.6E+06	NC	..	-
75-09-2	Methylene chloride	6.0E-01	6.3E+02	3.1E+05	1.0E-06	2.4E+00	1.2E+03
1634-04-4	Methyl-tert-butyl ether	3.0E+00	3.1E+03	1.6E+06	2.6E-07	9.4E+00	4.7E+03
91-20-3	Naphthalene	3.0E-03	3.1E+00	1.6E+03	3.4E-05	7.2E-02	3.6E+01
103-65-1	Propylbenzene	1.0E+00	1.0E+03	5.2E+05	NC	..	-
75-65-0	tert-Butyl Alcohol (TBA)	1.1E+00	1.1E+03	5.5E+05	NC	..	-
127-18-4	Tetrachloroethene	4.0E-02	4.2E+01	2.1E+04	5.9E-06	4.1E-01	2.1E+02
109-99-9	Tetrahydrofuran	2.0E+00	2.1E+03	1.0E+06	NC	..	-
108-88-3	Toluene	5.0E+00	5.2E+03	2.6E+06	NC	..	-
79-01-6	Trichloroethene	2.0E-03	2.1E+00	1.0E+03	4.1E-06	4.3E-01	2.2E+02
75-01-4	Vinyl chloride	1.0E-01	1.0E+02	5.2E+04	7.8E-05	3.1E-02	1.6E+01
1330-20-7	Xylene, total	1.0E-01	1.0E+02	5.2E+04	NC	..	-
	<b>TPH</b>						
	Aliphatic: C5-C8	7.0E-01	7.3E+02	3.7E+05	NC	..	-
	Aliphatic: C9-C18	3.0E-01	3.1E+02	1.6E+05	NC	..	-
	Aliphatic: C19-C32	NA	..	..	NC	..	-
	Aromatic: C6-C8	NA	..	..	NC	..	-
	Aromatic: C9-C16	5.0E-02	5.2E+01	2.6E+04	NC	..	-
	Aromatic: C17-C32	NA	..	..	NC	..	-

Notes:

".. " not applicable

SSCG<sub>c</sub> = based on cancer effects

SSCG<sub>inc</sub> = based on noncancer effects

**Appendix C, Table C-5  
Derivation of Site-Specific Cleanup Goals, Soil  
Construction and Utility Maintenance Worker**

CAS Number	Chemical of Concern	Noncancer Effects						Cancer Effects							
		Ingestion		Dermal Contact		Outdoor Inhalation		Ingestion		Dermal Contact		Outdoor Inhalation			
		IF <sub>oral</sub> (mg/kg-day)	Reference Dose (mg/kg-day)	IF <sub>dermal</sub> (mg/kg-day)	Reference Dose (mg/kg-day)	EC <sub>inh,soil</sub> (mg/m <sup>3</sup> )	Reference Concentration (mg/m <sup>3</sup> )	SSCG <sub>soil-ne</sub> (mg/kg)	IF <sub>oral</sub> (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	IF <sub>dermal</sub> (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	EC <sub>inh,soil</sub> (mg/m <sup>3</sup> )	Inhalation Unit Risk (µg/m <sup>3</sup> ) <sup>-1</sup>	SSCG <sub>soil-ne</sub> (mg/kg)
7440-36-0	Antimony	1.3E-07	4.0E-04	--	6.0E-05	2.7E-08	NA	3.1E+03	4.6E-08	NC	--	NC	9.8E-09	NC	--
7440-38-2	Arsenic	1.3E-07	3.0E-04	5.4E-08	3.0E-04	2.7E-08	1.5E-05	4.1E+02	4.6E-08	9.5E+00	1.9E-08	9.5E+00	9.8E-09	3.3E-03	1.5E+01
7440-43-9	Cadmium	1.3E-07	1.0E-03	1.8E-09	2.5E-05	2.7E-08	2.0E-05	6.4E+02	4.6E-08	NC	6.4E-10	NC	9.8E-09	4.2E-03	2.4E+02
18540-29-9	Chromium VI	1.3E-07	3.0E-03	--	7.5E-05	2.7E-08	1.0E-04	3.2E+03	4.6E-08	5.0E-01	--	NC	9.8E-09	1.5E-01	6.7E+00
7440-48-4	Cobalt	1.3E-07	3.0E-04	--	3.0E-04	2.7E-08	6.0E-06	2.0E+02	4.6E-08	NC	--	NC	9.8E-09	9.0E-03	1.1E+02
7440-50-8	Copper	1.3E-07	4.0E-02	--	4.0E-02	2.7E-08	NA	3.1E+05	4.6E-08	NC	--	NC	9.8E-09	NC	--
7439-92-1	Lead	1.3E-07	NA	--	NA	2.7E-08	NA	--	4.6E-08	NC	--	NC	9.8E-09	NC	--
7440-28-0	Thallium	1.3E-07	1.0E-05	--	1.0E-05	2.7E-08	NA	7.7E+01	4.6E-08	NC	--	NC	9.8E-09	NC	--
7440-62-2	Vanadium	1.3E-07	5.0E-03	--	5.0E-03	2.7E-08	1.0E-04	3.3E+03	4.6E-08	NC	--	NC	9.8E-09	NC	--
7440-66-6	Zinc	1.3E-07	3.0E-01	--	3.0E-01	2.7E-08	NA	2.3E+06	4.6E-08	NC	--	NC	9.8E-09	NC	--
	<b>PAHs</b>														
56-55-3	Benz[a]anthracene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E-01	8.3E-08	2.9E-01	9.8E-09	1.1E-04	2.6E+02
50-32-8	Benz[a]pyrene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E+00	8.3E-08	2.9E+00	9.8E-09	1.1E-03	2.6E+01
205-99-2	Benzol[fluoranthene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E-01	8.3E-08	2.9E-01	9.8E-09	1.1E-04	2.6E+02
207-08-9	Benzol[fluoranthene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E-01	8.3E-08	2.9E-01	9.8E-09	1.1E-04	2.6E+02
218-01-9	Chrysene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E-02	8.3E-08	2.9E-02	9.8E-09	1.1E-05	2.6E+03
53-70-3	Dibenz[a,h]anthracene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	4.1E+00	8.3E-08	4.1E+00	9.8E-09	1.2E-03	1.9E+01
193-39-5	Indeno[1,2,3-cd]pyrene	1.3E-07	NA	2.3E-07	NA	2.7E-08	NA	--	4.6E-08	2.9E-01	8.3E-08	2.9E-01	9.8E-09	1.1E-04	2.6E+02
90-12-0	Methylanthralene, 1-	1.3E-07	7.0E-02	2.3E-07	7.0E-02	1.7E-05	NA	1.9E+05	4.6E-08	2.9E-02	8.3E-08	2.9E-02	6.0E-06	NC	2.7E+03
91-57-6	Methylanthralene, 2-	1.3E-07	4.0E-03	2.3E-07	4.0E-03	1.7E-05	NA	1.1E+04	4.6E-08	NC	8.3E-08	NC	6.2E-06	NC	--
91-20-3	Naphthalene	1.3E-07	2.0E-02	2.3E-07	2.0E-02	2.1E-05	3.0E-03	1.4E+02	4.6E-08	NC	8.3E-08	NC	7.6E-06	3.4E-05	3.9E+01
129-00-0	Pyrene	1.3E-07	3.0E-02	2.3E-07	3.0E-02	3.1E-07	1.1E-01	6.7E+04	4.6E-08	NC	8.3E-08	NC	1.1E-07	NC	--
	<b>TPH</b>														
	Aliphatic: C5-C8	1.3E-07	4.0E-02	2.3E-07	4.0E-02	8.4E-04	7.0E-01	8.3E+02	4.6E-08	NC	8.3E-08	NC	3.0E-04	NC	--
	Aliphatic: C9-C18	1.3E-07	1.0E-01	2.3E-07	1.0E-01	1.9E-04	3.0E-01	1.6E+03	4.6E-08	NC	8.3E-08	NC	6.8E-05	NC	--
	Aliphatic: C19-C32	1.3E-07	2.0E+00	2.3E-07	2.0E+00	--	NA	5.5E+06	4.6E-08	NC	8.3E-08	NC	--	NC	--
	Aromatic: C6-C8	1.3E-07	NA	2.3E-07	NA	2.8E-04	NA	--	4.6E-08	NC	8.3E-08	NC	9.8E-05	NC	--
	Aromatic: C9-C16	1.3E-07	3.0E-02	2.3E-07	3.0E-02	6.6E-05	5.0E-02	7.5E+02	4.6E-08	NC	8.3E-08	NC	2.3E-05	NC	--
	Aromatic: C17-C32	1.3E-07	3.0E-02	2.3E-07	3.0E-02	--	NA	8.3E+04	4.6E-08	NC	8.3E-08	NC	--	NC	--

**Appendix C, Table C-5  
Derivation of Site-Specific Cleanup Goals, Soil  
Construction and Utility Maintenance Worker**

CAS Number	Chemical of Concern	Noncancer Effects						Cancer Effects							
		Ingestion		Dermal Contact	Outdoor Inhalation		Ingestion		Dermal Contact	Outdoor Inhalation		SSCG <sub>soil,c</sub> (mg/kg)			
		IF <sub>oral</sub> (mg/kg-day)	Reference Dose (mg/kg-day)	IF <sub>dermal</sub> (mg/kg-day)	Reference Dose (mg/kg-day)	EC <sub>inh,soil</sub> (mg/m <sup>3</sup> )	Reference Concentration (mg/m <sup>3</sup> )	SSCG <sub>soil,c</sub> (mg/kg)	IF <sub>oral</sub> (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	IF <sub>dermal</sub> (mg/kg-day)	Cancer Slope Factor (mg/kg-day) <sup>-1</sup>	EC <sub>inh,soil</sub> (mg/m <sup>3</sup> )	Inhalation Unit Risk (µg/m <sup>3</sup> ) <sup>-1</sup>	SSCG <sub>soil,c</sub> (mg/kg)
121-14-2	2,4-Dinitrotoluene	1.3E-07	2.0E-03	1.8E-07	2.0E-03	2.7E-08	7.0E-03	<b>6.3E+03</b>	4.6E-08	3.1E-01	6.5E-08	3.1E-01	9.8E-09	8.9E-05	<b>2.8E+02</b>
117-81-7	Bis(2-Ethylhexyl) Phthalate	1.3E-07	2.0E-02	1.8E-07	2.0E-02	2.7E-08	7.0E-02	<b>6.3E+04</b>	4.6E-08	1.4E-02	6.4E-08	1.4E-02	9.8E-09	2.4E-06	<b>6.4E+03</b>
	<b>SVOCs</b>														
79-34-5	1,1,2,2-Tetrachloroethane	1.3E-07	2.0E-02	..	2.0E-02	8.4E-05	7.0E-02	<b>8.3E+02</b>	4.6E-08	2.7E-01	..	2.7E-01	3.0E-05	5.8E-05	<b>5.7E+00</b>
96-18-4	1,2,3-Trichloropropane	1.3E-07	4.0E-03	..	4.0E-03	1.5E-04	3.0E-04	<b>2.0E+00</b>	4.6E-08	3.0E+01	..	3.0E+01	5.5E-05	NC	<b>7.2E+00</b>
96-63-6	1,2,4-Trimethylbenzene	1.3E-07	1.0E-02	..	1.0E-02	9.3E-05	7.0E-03	<b>7.5E+01</b>	4.6E-08	NC	..	NC	3.3E-05	NC	<b>..</b>
78-87-5	1,2-Dichloropropane	1.3E-07	9.0E-02	..	9.0E-02	3.3E-04	4.0E-03	<b>1.2E+01</b>	4.6E-08	3.6E-02	..	3.6E-02	1.2E-04	1.0E-05	<b>8.5E+00</b>
108-67-8	1,3,5-Trimethylbenzene	1.3E-07	1.0E-02	..	1.0E-02	9.0E-05	7.0E-03	<b>7.7E+01</b>	4.6E-08	NC	..	NC	3.2E-05	NC	<b>..</b>
106-46-7	1,4-Dichlorobenzene	1.3E-07	7.0E-02	..	7.0E-02	9.1E-05	8.0E-01	<b>8.7E+03</b>	4.6E-08	5.4E-03	..	5.4E-03	3.2E-05	1.1E-05	<b>2.8E+01</b>
71-43-2	Benzene	1.3E-07	4.0E-03	..	4.0E-03	4.3E-04	3.0E-02	<b>6.9E+01</b>	4.6E-08	1.0E-01	..	1.0E-01	1.5E-04	2.9E-05	<b>2.2E+00</b>
75-27-4	Bromodichloromethane	1.3E-07	2.0E-02	..	2.0E-02	1.4E-04	7.0E-02	<b>4.9E+02</b>	4.6E-08	1.3E-01	..	1.3E-01	5.1E-05	3.7E-05	<b>5.3E+00</b>
74-83-9	Bromomethane	1.3E-07	1.4E-03	..	1.4E-03	6.4E-04	5.0E-03	<b>7.8E+00</b>	4.6E-08	NC	..	NC	2.3E-04	NC	<b>..</b>
100-41-4	Ethylbenzene	1.3E-07	1.0E-01	..	1.0E-01	2.2E-04	1.0E+00	<b>4.5E+03</b>	4.6E-08	1.1E-02	..	1.1E-02	7.8E-05	2.5E-06	<b>5.1E+01</b>
75-09-2	Methylene chloride	1.3E-07	6.0E-03	..	6.0E-03	4.7E-04	6.0E-01	<b>1.2E+03</b>	4.6E-08	1.4E-02	..	1.4E-02	1.7E-04	1.0E-06	<b>5.9E+01</b>
127-18-4	Tetrachloroethane	1.3E-07	6.0E-03	..	6.0E-03	4.6E-04	4.0E-02	<b>8.6E+01</b>	4.6E-08	5.4E-01	..	5.4E-01	1.7E-04	5.9E-06	<b>1.0E+01</b>
108-88-3	Toluene	1.3E-07	8.0E-02	..	8.0E-02	3.0E-04	5.0E+00	<b>1.6E+04</b>	4.6E-08	NC	..	NC	1.1E-04	NC	<b>..</b>
79-01-6	Trichloroethene	1.3E-07	5.0E-04	..	5.0E-04	3.6E-04	2.0E-03	<b>5.5E+00</b>	4.6E-08	4.6E-02	..	4.6E-02	1.3E-04	4.1E-06	<b>1.9E+01</b>
75-01-4	Vinyl chloride	1.3E-07	3.0E-03	..	3.0E-03	1.1E-03	1.0E-01	<b>8.7E+01</b>	4.6E-08	2.7E-01	..	2.7E-01	4.1E-04	7.8E-05	<b>3.1E-01</b>
1330-20-7	Xylene, total	1.3E-07	2.0E-01	..	2.0E-01	2.1E-04	1.0E-01	<b>4.7E+02</b>	4.6E-08	NC	..	NC	7.6E-05	NC	<b>..</b>

Notes:  
 " .. " not applicable  
 SSCG<sub>soil,c</sub> = based on cancer effects  
 SSCG<sub>soil,c</sub> = based on noncancer effects

**Appendix C, Table C-6  
Derivation of Site-Specific Cleanup Goals, Soil Vapor  
Construction and Utility Maintenance Worker**

CAS Number	Chemical of Concern	VF <sub>SV,0A</sub> ( $\mu\text{g}/\text{m}^3$ )	Noncancer Effects				Cancer Effects			
			Exposure Concentration ( $\text{E}_{\text{C}_{\text{SV},0A}}$ ) ( $\text{mg}/\text{m}^3$ )	Reference Concentration ( $\text{mg}/\text{m}^3$ )	Soil Vapor SSCG <sub>Soil</sub> ( $\mu\text{g}/\text{m}^3$ )	Exposure Concentration ( $\text{E}_{\text{C}_{\text{SV},0A}}$ ) ( $\text{mg}/\text{m}^3$ )	Inhalation Unit Risk ( $\mu\text{g}/\text{m}^3\text{-y}^{-1}$ )	Soil Vapor SSCG <sub>Soil</sub> ( $\mu\text{g}/\text{m}^3$ )		
79-34-5	1,1,2,2-Tetrachloroethane	7.0E+03	3.9E-09	7.0E-02	1.8E+07	1.4E-09	5.8E-05	1.2E+05		
79-00-5	1,1,2-Trichloroethane	1.4E+04	2.0E-09	2.0E-04	1.0E+05	7.1E-10	1.6E-05	8.6E+05		
75-34-3	1,1-Dichloroethane	3.9E+04	7.1E-10	7.0E-01	9.9E+08	2.5E-10	1.6E-06	2.5E+07		
120-82-1	1,2,4-Trichlorobenzene	5.4E+03	5.1E-09	2.0E-03	3.9E+05	1.8E-09	NC	--		
95-63-6	1,2,4-Trimethylbenzene	9.0E+03	3.0E-09	7.0E-03	2.3E+06	1.1E-09	NC	--		
107-06-2	1,2-Dichloroethane	1.7E+04	1.6E-09	7.0E-03	4.4E+06	5.7E-10	2.1E-05	8.5E+05		
78-87-5	1,2-Dichloropropane	2.5E+04	1.1E-09	4.0E-03	3.6E+06	3.9E-10	1.0E-05	2.5E+06		
108-67-8	1,3,5-Trimethylbenzene	8.8E+03	3.1E-09	7.0E-03	2.3E+06	1.1E-09	NC	--		
106-99-0	1,3-Butadiene	5.0E+04	5.5E-10	2.0E-03	3.7E+06	2.0E-10	1.7E-04	3.0E+05		
106-46-7	1,4-Dichlorobenzene	7.8E+03	3.5E-09	8.0E-01	2.3E+08	1.3E-09	1.1E-05	7.2E+05		
123-91-1	1,4-Dioxane	1.2E+03	2.3E-08	3.0E+00	1.3E+08	8.1E-09	7.7E-06	1.6E+05		
540-84-1	2,2,4-Trimethylpentane	1.8E+04	1.5E-09	1.0E+00	6.5E+08	5.5E-10	NC	--		
591-78-6	2-Hexanone	7.2E+03	3.8E-09	3.0E-02	7.9E+06	1.4E-09	NC	--		
622-96-8	4-Ethyltoluene	6.7E+03	4.1E-09	1.0E-01	2.5E+07	1.5E-09	NC	--		
71-43-2	Benzene	2.9E+04	9.5E-10	3.0E-02	3.2E+07	3.4E-10	2.9E-05	1.0E+06		
75-27-4	Bromodichloromethane	2.8E+04	9.7E-10	7.0E-02	7.2E+07	3.5E-10	3.7E-05	7.8E+05		
74-83-9	Bromomethane	5.2E+04	5.3E-10	5.0E-03	9.5E+06	1.9E-10	NC	--		
75-15-0	Carbon disulfide	5.6E+04	4.9E-10	7.0E-01	1.4E+09	1.7E-10	NC	--		
56-23-5	Carbon tetrachloride	4.3E+04	6.3E-10	1.0E-01	1.6E+08	2.3E-10	4.2E-05	1.1E+06		
67-66-3	Chloroform	2.5E+04	1.1E-09	9.8E-02	9.0E+07	3.9E-10	5.3E-06	4.9E+06		
110-82-7	Cyclohexane	8.2E+04	3.3E-10	6.0E+00	1.8E+10	1.2E-10	NC	--		
124-48-1	Dibromochloromethane	2.3E+04	1.2E-09	7.0E-02	6.0E+07	4.2E-10	2.7E-05	8.8E+05		
156-59-2	Dichloroethane, cis-1,2-	3.3E+04	8.4E-10	7.0E-03	8.3E+06	3.0E-10	NC	--		
156-60-5	Dichloroethane, trans-1,2-	4.2E+04	6.5E-10	6.0E-02	9.3E+07	2.3E-10	NC	--		
10061-02-6	Dichloropropene, trans-1,3-	6.1E+04	4.5E-10	2.0E-02	4.4E+07	1.6E-10	1.6E-05	3.9E+06		
64-17-5	Ethanol	1.3E+03	2.1E-08	4.0E+00	1.9E+08	7.4E-09	NC	--		
100-41-4	Ethylbenzene	1.7E+04	1.6E-09	1.0E+00	6.3E+08	5.7E-10	2.5E-06	7.0E+06		
142-82-5	Heptane	9.2E+04	3.0E-10	7.0E-01	2.3E+09	1.1E-10	NC	--		
87-68-3	Hexachloro-1,3-butadiene	1.7E+03	1.6E-08	3.8E-03	2.2E+05	5.7E-09	2.2E-05	8.0E+04		
110-54-3	Hexane	6.5E+04	4.2E-10	7.0E-01	1.7E+09	1.5E-10	NC	--		

**Appendix C, Table C-6  
Derivation of Site-Specific Cleanup Goals, Soil Vapor  
Construction and Utility Maintenance Worker**

CAS Number	Chemical of Concern	VF <sub>SV,OA</sub> ( $\mu\text{g}/\text{m}^3$ )	Noncancer Effects			Cancer Effects		
			Exposure Concentration ( $\text{E}_{\text{C}_{\text{SV,OA}}}$ ) ( $\text{mg}/\text{m}^3$ )	Reference Concentration ( $\text{mg}/\text{m}^3$ )	Soil Vapor SSCG <sub>So</sub> ( $\mu\text{g}/\text{m}^3$ )	Exposure Concentration ( $\text{E}_{\text{C}_{\text{SV,OA}}}$ ) ( $\text{mg}/\text{m}^3$ )	Inhalation Unit Risk ( $\mu\text{g}/\text{m}^3\text{-y}^{-1}$ )	Soil Vapor SSCG <sub>s</sub> ( $\mu\text{g}/\text{m}^3$ )
67-63-0	Isopropanol	2.2E+03	1.2E-08	7.0E+00	5.7E+08	4.4E-09	NC	--
98-82-8	Isopropylbenzene (cumene)	1.0E+05	2.8E-10	4.0E-01	1.5E+09	9.8E-11	NC	--
78-93-3	Methyl ethyl ketone (2-butanone)	6.3E+03	4.3E-09	5.0E+00	1.1E+09	1.6E-09	NC	--
75-09-2	Methylene chloride	2.8E+04	9.9E-10	6.0E-01	6.1E+08	3.5E-10	1.0E-06	2.8E+07
1634-04-4	Methyl-tert-butyl ether	1.6E+04	1.7E-09	3.0E+00	1.8E+09	5.9E-10	2.6E-07	6.5E+07
91-20-3	Naphthalene	2.1E+03	1.3E-08	3.0E-03	2.3E+05	4.6E-09	3.4E-05	6.3E+04
103-65-1	Propylbenzene	1.8E+04	1.5E-09	1.0E+00	6.6E+08	5.4E-10	NC	--
75-65-0	tert-Butyl Alcohol (TBA)	6.7E+03	4.1E-09	1.1E+00	2.6E+08	1.5E-09	NC	--
127-18-4	Tetrachloroethene	3.8E+04	7.2E-10	4.0E-02	5.5E+07	2.6E-10	5.9E-06	6.6E+06
109-99-9	Tetrahydrofuran	6.7E+03	4.1E-09	2.0E+00	4.9E+08	1.5E-09	NC	--
108-88-3	Toluene	2.0E+04	1.4E-09	5.0E+00	3.7E+09	4.9E-10	NC	--
79-01-6	Trichloroethene	2.7E+04	1.0E-09	2.0E-03	2.0E+06	3.6E-10	4.1E-06	6.7E+06
75-01-4	Vinyl chloride	6.3E+04	4.3E-10	1.0E-01	2.3E+08	1.5E-10	7.8E-05	8.3E+05
1330-20-7	Xylene, total	1.6E+04	1.7E-09	1.0E-01	5.9E+07	6.0E-10	NC	--
	<b>TPH</b>							
	Aliphatic: C5-C8	4.7E+04	5.8E-10	7.0E-01	1.2E+09	2.1E-10	NC	--
	Aliphatic: C9-C18	1.1E+04	2.5E-09	3.0E-01	1.2E+08	9.0E-10	NC	--
	Aliphatic: C19-C32	--	--	NA	--	--	NC	--
	Aromatic: C6-C8	1.6E+04	1.8E-09	NA	--	6.3E-10	NC	--
	Aromatic: C9-C16	3.7E+03	7.4E-09	5.0E-02	6.7E+06	2.6E-09	NC	--
	Aromatic: C17-C32	--	--	NA	--	--	NC	--

Notes:  
 "--" not applicable  
 SSCG<sub>s</sub> = based on cancer effects  
 SSCG<sub>So</sub> = based on noncancer effects

**Appendix C, Table C-7  
Derivation of Site-Specific Cleanup Goal, Lead in Soil  
Construction and Utility Maintenance Worker**

Variable	Description of Variable	Units	GSD <sub>i</sub> and PbB <sub>0</sub> from Analysis of NHANES 1999-2004
PbB <sub>fetal, 0.90</sub>	90 <sup>th</sup> percentile PbB in fetus	ug/dL	1
R <sub>fetal/maternal</sub>	Fetal/maternal PbB ratio	--	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4
GSD <sub>i</sub>	Geometric standard deviation PbB	--	1.8
PbB <sub>0</sub>	Baseline PbB	ug/dL	0.0
IR <sub>s</sub>	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100
AF <sub>s, d</sub>	Absorption fraction (same for soil and dust)	--	0.12
EF <sub>s, d</sub>	Exposure frequency (same for soil and dust)	days/yr	12
AT <sub>s, d</sub>	Averaging time (same for soil and dust)	days/yr	90
<b>Site-Specific Cleanup Goal (SSCG) =</b>			<b>8.2E+02</b>

Calculations of Preliminary Remediation Goals (PRGs)  
U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee  
Version date 6/21/09

## **APPENDIX D**

# **SOIL LEACHING TO GROUNDWATER SITE- SPECIFIC CLEANUP GOAL DERIVATION**

## Appendix D

### Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation

Source: USEPA Regional Screening Level Users' Guide, 2013  
Former Kast Property

Compound	$C_w$ ( $\mu\text{g/L}$ )	DAF	Kd (L/kg)	$\theta_w$ (-)	$\theta_a$ (-)	$H'$ (-)	$\rho_b$ (kg/L)	Site Cleanup Goals (mg/kg)
Antimony	6	1.0	45	0.239	0.182	1.7E-05	1.54	0.27
Arsenic	10	1.0	29	0.239	0.182	1.7E-05	1.54	0.29
Thallium	2	1.0	71	0.239	0.182	1.7E-05	1.54	0.14

Note:

$$C_{cleanup} = C_w \times DAF \times \left[ Kd + \frac{\theta_w + \theta_a H'}{\rho_b} \right]$$

- $C_w$  Groundwater quality criterion
- DAF Dilution Attenuation Factor
- Kd Soil/Water partitioning coefficient
- $\theta_w$  Water content
- $\theta_a$  Air content
- $H'$  Dimensionless Henry's Law Constant
- $\rho_b$  Soil bulk density

**Appendix D**

**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** Naphthalene

**Soil lithology:**

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL CDPH NL (mg/L): 1.7E-02

**AF Calculation**

			Source
Soil density (g/cm <sup>3</sup> )	ρb	2.27	LARWQCB Guidebook
porosity (-)	n	0.143	LARWQCB Guidebook
water content (-)	qw	0.031	LARWQCB Guidebook
fract. Org. carbon (-)	foc	1.5%	LARWQCB Guidebook
Org. carbon/water Partition Coeff. (mL/g)	Koc	1544	LARWQCB Guidebook
Soil/Water Partition Coeff. (mL/g)	Kd	23	Kd = Koc x foc
Henry's Law Constant (-)	Kh	0.0180	LARWQCB Guidebook
Chemical-Specific Attenuation Factor	AF	1,697	
Dilution Attenuation Factor	DAF	1	
bioattenuation factor	BAF	1	

**Result Table**

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
300	1697	169.7	2.9
250	1697	169.7	2.9
200	1697	169.7	2.9
150	1697	169.7	2.9
120	1280	128.0	2.2
100	1003	100.3	1.7
90	864	86.4	1.5
80	725	72.5	1.2
75	656	65.6	1.1
70	586	58.6	1.00
65	517	51.7	0.88
60	447	44.7	0.76
55	378	37.8	0.64
50	309	30.9	0.52
45	239	23.9	0.41
40	170	17.0	0.29

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**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** Naphthalene

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
35	149	14.9	0.25
30	128	12.8	0.22
25	106	10.6	0.18
24	102	10.2	0.17
23	98	9.8	0.17
22	94	9.4	0.16
21	90	9.0	0.15
20	85	8.5	0.15
19	81	8.1	0.14
18	77	7.7	0.13
17	73	7.3	0.12
16	68	6.8	0.12
15	64	6.4	0.11
14	60	6.0	0.10
13	56	5.6	0.095
12	52	5.2	0.088
11	47	4.7	0.081
10	43	4.3	0.073
5	22	2.2	0.038
0	1	1.0	0.017

Notes:

$AF = 1 + (rb/qw)*foc*Koc + (n-qw)*KH/qw$

D = Depth of Contaminant above the groundwater level

AFd =  $D(0.1*AF - 1)/40 + 1$  - Eqn. 7. For depths less than or equal to 40 feet.

AFd =  $(0.9(D-40)/110+0.1)AF$  - Eqn. 6. For depths  $40 < D < 150$  feet.

AFt =  $(AFd/D)*(TGR/20+TSA/10+TSI/5+TCL)$  - Eqn. 12

Soil Cleanup Level =  $C = Af_t \times MCL$  - Eqn. 13

**Appendix D**

**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** cis-1,2-Dichloroethylene

**Soil lithology:**

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL ESL-nc (mg/L): 6.0E-03

**AF Calculation**

			Source
Soil density (g/cm <sup>3</sup> )	ρb	2.27	LARWQCB Guidebook
porosity (-)	n	0.143	LARWQCB Guidebook
water content (-)	qw	0.031	LARWQCB Guidebook
fract. Org. carbon (-)	foc	1.5%	LARWQCB Guidebook
Org. carbon/water Partition Coeff. (mL/g)	Koc	59	LARWQCB Guidebook
Soil/Water Partition Coeff. (mL/g)	Kd	0.89	Kd = Koc x foc
Henry's Law Constant (-)	Kh	0.274	LARWQCB Guidebook

Chemical-Specific Attenuation Factor	AF	67
Dilution Attenuation Factor	DAF	1
bioattenuation factor	BAF	1

**Result Table**

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
300	67	6.7	0.040
250	67	6.7	0.040
200	67	6.7	0.040
150	67	6.7	0.040
120	50	5.0	0.030
100	39	3.9	0.024
90	34	3.4	0.020
80	29	2.9	0.017
75	26	2.6	0.015
70	23	2.3	0.014
65	20	2.0	0.012
60	18	1.8	0.011
55	15	1.5	0.009
50	12	1.2	0.007
45	9	1.0	0.006
40	7	1.0	0.006
35	6	1.0	0.006

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**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** cis-1,2-Dichloroethylene

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
30	5	1.0	0.006
25	5	1.0	0.006
24	4	1.0	0.006
23	4	1.0	0.006
22	4	1.0	0.006
21	4	1.0	0.006
20	4	1.0	0.006
19	4	1.0	0.006
18	4	1.0	0.006
17	3	1.0	0.006
16	3	1.0	0.006
15	3	1.0	0.006
14	3	1.0	0.006
13	3	1.0	0.006
12	3	1.0	0.006
11	3	1.0	0.006
10	2	1.0	0.006
5	2	1.0	0.006
0	1	1.0	0.006

Notes:

$AF = 1 + (rb/qw) \cdot f_{oc} \cdot K_{oc} + (n-qw) \cdot KH/qw$

D = Depth of Contaminant above the groundwater level

$AFd = D(0.1 \cdot AF - 1)/40 + 1$  - Eqn. 7. For depths less than or equal to 40 feet.

$AFd = (0.9(D-40)/110 + 0.1)AF$  - Eqn. 6. For depths  $40 < D < 150$  feet.

$AFt = (AFd/D) \cdot (TGR/20 + TSA/10 + TSI/5 + TCL)$  - Eqn. 12

Soil Cleanup Level =  $C = Af_t \times MCL$  - Eqn. 13

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**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** 1,2-Dichloroethane

**Soil lithology:**

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 5.0E-04

**AF Calculation**

			Source
Soil density (g/cm <sup>3</sup> )	ρb	2.27	LARWQCB Guidebook
porosity (-)	n	0.143	LARWQCB Guidebook
water content (-)	qw	0.031	LARWQCB Guidebook
fract. Org. carbon (-)	foc	1.5%	LARWQCB Guidebook
Org. carbon/water Partition Coeff. (mL/g)	Koc	14	LARWQCB Guidebook
Soil/Water Partition Coeff. (mL/g)	Kd	0.21	Kd = Koc x foc
Henry's Law Constant (-)	Kh	0.050	LARWQCB Guidebook

Chemical-Specific Attenuation Factor	AF	17
Dilution Attenuation Factor	DAF	1
bioattenuation factor	BAF	1

**Result Table**

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
300	17	1.7	8.3E-04
250	17	1.7	8.3E-04
200	17	1.7	8.3E-04
150	17	1.7	8.3E-04
120	12	1.2	6.2E-04
100	10	1.0	5.0E-04
90	8	1.0	5.0E-04
80	7	1.0	5.0E-04
75	6	1.0	5.0E-04
70	6	1.0	5.0E-04
65	5	1.0	5.0E-04
60	4	1.0	5.0E-04
55	4	1.0	5.0E-04
50	3	1.0	5.0E-04
45	2	1.0	5.0E-04
40	2	1.0	5.0E-04
35	2	1.0	5.0E-04

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**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** 1,2-Dichloroethane

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
30	1	1.0	5.0E-04
25	1	1.0	5.0E-04
24	1	1.0	5.0E-04
23	1	1.0	5.0E-04
22	1	1.0	5.0E-04
21	1	1.0	5.0E-04
20	1	1.0	5.0E-04
19	1	1.0	5.0E-04
18	1	1.0	5.0E-04
17	1	1.0	5.0E-04
16	1	1.0	5.0E-04
15	1	1.0	5.0E-04
14	1	1.0	5.0E-04
13	1	1.0	5.0E-04
12	1	1.0	5.0E-04
11	1	1.0	5.0E-04
10	1	1.0	5.0E-04
5	1	1.0	5.0E-04
0	1	1.0	5.0E-04

Notes:

$AF = 1 + (rb/qw)*foc*Koc + (n-qw)*KH/qw$

D = Depth of Contaminant above the groundwater level

$AFd = D(0.1*AF - 1)/40 + 1$  - Eqn. 7. For depths less than or equal to 40 feet.

$AFd = (0.9(D-40)/110+0.1)AF$  - Eqn. 6. For depths  $40 < D < 150$  feet.

$AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL)$  - Eqn. 12

Soil Cleanup Level =  $C = Af_t \times MCL$  - Eqn. 13

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**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** 1,2,3-Trichloropropane

**Soil lithology:**

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL CDPH NL (mg/L): 5.0E-06

**AF Calculation**

			Source
Soil density (g/cm <sup>3</sup> )	ρb	2.27	LARWQCB Guidebook
porosity (-)	n	0.143	LARWQCB Guidebook
water content (-)	qw	0.031	LARWQCB Guidebook
fract. Org. carbon (-)	foc	1.5%	LARWQCB Guidebook
Org. carbon/water Partition Coeff. (mL/g)	Koc	116	LARWQCB Guidebook
Soil/Water Partition Coeff. (mL/g)	Kd	1.7	Kd = Koc x foc
Henry's Law Constant (-)	Kh	0.0140	LARWQCB Guidebook
Chemical-Specific Attenuation Factor	AF	128	
Dilution Attenuation Factor	DAF	1	
bioattenuation factor	BAF	1	

**Result Table**

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
300	128	12.8	6.4E-05
250	128	12.8	6.4E-05
200	128	12.8	6.4E-05
150	128	12.8	6.4E-05
120	97	9.7	4.8E-05
100	76	7.6	3.8E-05
90	65	6.5	3.3E-05
80	55	5.5	2.7E-05
75	50	5.0	2.5E-05
70	44	4.4	2.2E-05
65	39	3.9	2.0E-05
60	34	3.4	1.7E-05
55	29	2.9	1.4E-05
50	23	2.3	1.2E-05
45	18	1.8	9.0E-06
40	13	1.3	6.4E-06
35	11	1.1	5.7E-06

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**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** 1,2,3-Trichloropropane

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
30	10	1.0	5.0E-06
25	8	1.0	5.0E-06
24	8	1.0	5.0E-06
23	8	1.0	5.0E-06
22	8	1.0	5.0E-06
21	7	1.0	5.0E-06
20	7	1.0	5.0E-06
19	7	1.0	5.0E-06
18	6	1.0	5.0E-06
17	6	1.0	5.0E-06
16	6	1.0	5.0E-06
15	5	1.0	5.0E-06
14	5	1.0	5.0E-06
13	5	1.0	5.0E-06
12	5	1.0	5.0E-06
11	4	1.0	5.0E-06
10	4	1.0	5.0E-06
5	2	1.0	5.0E-06
0	1	1.0	5.0E-06

Notes:

$AF = 1 + (rb/qw) \cdot f_{oc} \cdot K_{oc} + (n-qw) \cdot KH/qw$

D = Depth of Contaminant above the groundwater level

$AFd = D(0.1 \cdot AF - 1)/40 + 1$  - Eqn. 7. For depths less than or equal to 40 feet.

$AFd = (0.9(D-40)/110 + 0.1)AF$  - Eqn. 6. For depths  $40 < D < 150$  feet.

$AFt = (AFd/D) \cdot (TGR/20 + TSA/10 + TSI/5 + TCL)$  - Eqn. 12

Soil Cleanup Level =  $C = Af_t \times MCL$  - Eqn. 13

**Appendix D**

**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** 1,4-Dichlorobenzene

**Soil lithology:**

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 5.0E-03

**AF Calculation**

			Source
Soil density (g/cm <sup>3</sup> )	ρb	2.27	LARWQCB Guidebook
porosity (-)	n	0.143	LARWQCB Guidebook
water content (-)	qw	0.031	LARWQCB Guidebook
fract. Org. carbon (-)	foc	1.5%	LARWQCB Guidebook
Org. carbon/water Partition Coeff. (mL/g)	Koc	375	LARWQCB Guidebook
Soil/Water Partition Coeff. (mL/g)	Kd	5.6	Kd = Koc x foc
Henry's Law Constant (-)	Kh	0.0985	LARWQCB Guidebook
Chemical-Specific Attenuation Factor	AF	414	
Dilution Attenuation Factor	DAF	1	
bioattenuation factor	BAF	1	

**Result Table**

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
300	414	41.4	0.21
250	414	41.4	0.21
200	414	41.4	0.21
150	414	41.4	0.21
120	312	31.2	0.16
100	244	24.4	0.12
90	211	21.1	0.11
80	177	17.7	0.09
75	160	16.0	0.08
70	143	14.3	0.07
65	126	12.6	0.06
60	109	10.9	0.05
55	92	9.2	0.05
50	75	7.5	0.04
45	58	5.8	0.029
40	41	4.1	0.021
35	36	3.6	0.018

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**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** 1,4-Dichlorobenzene

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
30	31	3.1	0.016
25	26	2.6	0.013
24	25	2.5	0.013
23	24	2.4	0.012
22	23	2.3	0.012
21	22	2.2	0.011
20	21	2.1	0.011
19	20	2.0	0.010
18	19	1.9	0.010
17	18	1.8	0.009
16	17	1.7	0.009
15	16	1.6	0.008
14	15	1.5	0.008
13	14	1.4	0.007
12	13	1.3	0.007
11	12	1.2	0.006
10	11	1.1	0.006
5	6	1.0	0.005
0	1	1.0	0.005

Notes:

$AF = 1 + (rb/qw) \cdot f_{oc} \cdot K_{oc} + (n-qw) \cdot KH/qw$

D = Depth of Contaminant above the groundwater level

$AFd = D(0.1 \cdot AF - 1)/40 + 1$  - Eqn. 7. For depths less than or equal to 40 feet.

$AFd = (0.9(D-40)/110 + 0.1)AF$  - Eqn. 6. For depths  $40 < D < 150$  feet.

$AFt = (AFd/D) \cdot (TGR/20 + TSA/10 + TSI/5 + TCL)$  - Eqn. 12

Soil Cleanup Level =  $C = Af_t \times MCL$  - Eqn. 13

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**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** Benzene

**Soil lithology:**

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 1.0E-03

**AF Calculation**

			Source
Soil density (g/cm <sup>3</sup> )	ρb	2.27	LARWQCB Guidebook
porosity (-)	n	0.143	LARWQCB Guidebook
water content (-)	qw	0.031	LARWQCB Guidebook
fract. Org. carbon (-)	foc	1.50%	LARWQCB Guidebook
Org. carbon/water Partition Coeff. (mL/g)	Koc	65	LARWQCB Guidebook
Soil/Water Partition Coeff. (mL/g)	Kd	1.0	Kd = Koc x foc
Henry's Law Constant (-)	Kh	0.229	LARWQCB Guidebook
Chemical-Specific Attenuation Factor	AF	73	
Dilution Attenuation Factor	DAF	1	
bioattenuation factor	BAF	11	

**Result Table**

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
300	73	7.3	0.081
250	73	7.3	0.081
200	73	7.3	0.081
150	73	7.3	0.081
120	55	5.5	0.061
100	43	4.3	0.048
90	37	3.7	0.041
80	31	3.1	0.034
75	28	2.8	0.031
70	25	2.5	0.028
65	22	2.2	0.025
60	19	1.9	0.021
55	16	1.6	0.018
50	13	1.3	0.015
45	10	1.0	0.011
40	7	1.0	0.011
35	7	1.0	0.011

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**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** Benzene

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
30	6	1.0	0.011
25	5	1.0	0.011
24	5	1.0	0.011
23	5	1.0	0.011
22	4	1.0	0.011
21	4	1.0	0.011
20	4	1.0	0.011
19	4	1.0	0.011
18	4	1.0	0.011
17	4	1.0	0.011
16	4	1.0	0.011
15	3	1.0	0.011
14	3	1.0	0.011
13	3	1.0	0.011
12	3	1.0	0.011
11	3	1.0	0.011
10	3	1.0	0.011
5	2	1.0	0.011
0	1	1.0	0.011

Notes:

$AF = 1 + (rb/qw) \cdot f_{oc} \cdot K_{oc} + (n-qw) \cdot KH/qw$

D = Depth of Contaminant above the groundwater level

$AFd = D(0.1 \cdot AF - 1)/40 + 1$  - Eqn. 7. For depths less than or equal to 40 feet.

$AFd = (0.9(D-40)/110 + 0.1)AF$  - Eqn. 6. For depths  $40 < D < 150$  feet.

$AFt = (AFd/D) \cdot (TGR/20 + TSA/10 + TSI/5 + TCL)$  - Eqn. 12

Soil Cleanup Level =  $C = Af_t \times MCL$  - Eqn. 13

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**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** tert-Butyl Alcohol

**Soil lithology:**

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL CDPH NL (mg/L): 1.2E-02

**AF Calculation**

			Source
Soil density (g/cm <sup>3</sup> )	ρb	2.27	LARWQCB Guidebook
porosity (-)	n	0.143	LARWQCB Guidebook
water content (-)	qw	0.031	LARWQCB Guidebook
fract. Org. carbon (-)	foc	1.5%	LARWQCB Guidebook
Org. carbon/water Partition Coeff. (mL/g)	Koc	37.0	LARWQCB Guidebook
Soil/Water Partition Coeff. (mL/g)	Kd	0.56	Kd = Koc x foc
Henry's Law Constant (-)	Kh	0.00037	LARWQCB Guidebook

Chemical-Specific Attenuation Factor	AF	42
Dilution Attenuation Factor	DAF	1
bioattenuation factor	BAF	1

**Result Table**

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
300	42	4.2	0.050
250	42	4.2	0.050
200	42	4.2	0.050
150	42	4.2	0.050
120	31	3.1	0.038
100	25	2.5	0.030
90	21	2.1	0.025
80	18	1.8	0.021
75	16	1.6	0.019
70	14	1.4	0.017
65	13	1.3	0.015
60	11	1.1	0.013
55	9	1.0	0.012
50	8	1.0	0.012
45	6	1.0	0.012
40	4	1.0	0.012
35	4	1.0	0.012

**Appendix D**

**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** tert-Butyl Alcohol

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
30	3	1.0	0.012
25	3	1.0	0.012
24	3	1.0	0.012
23	3	1.0	0.012
22	3	1.0	0.012
21	3	1.0	0.012
20	3	1.0	0.012
19	3	1.0	0.012
18	2	1.0	0.012
17	2	1.0	0.012
16	2	1.0	0.012
15	2	1.0	0.012
14	2	1.0	0.012
13	2	1.0	0.012
12	2	1.0	0.012
11	2	1.0	0.012
10	2	1.0	0.012
5	1	1.0	0.012
0	1	1.0	0.012

Notes:

$AF = 1 + (rb/qw) \cdot f_{oc} \cdot K_{oc} + (n-qw) \cdot KH/qw$

D = Depth of Contaminant above the groundwater level

$AFd = D(0.1 \cdot AF - 1)/40 + 1$  - Eqn. 7. For depths less than or equal to 40 feet.

$AFd = (0.9(D-40)/110 + 0.1)AF$  - Eqn. 6. For depths  $40 < D < 150$  feet.

$AFt = (AFd/D) \cdot (TGR/20 + TSA/10 + TSI/5 + TCL)$  - Eqn. 12

Soil Cleanup Level =  $C = Af_t \times MCL$  - Eqn. 13

**Appendix D**

**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** Tetrachloroethene

**Soil lithology:**

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 5.0E-03

**AF Calculation**

			Source
Soil density (g/cm <sup>3</sup> )	ρb	2.27	LARWQCB Guidebook
porosity (-)	n	0.143	LARWQCB Guidebook
water content (-)	qw	0.031	LARWQCB Guidebook
fract. Org. carbon (-)	foc	1.5%	LARWQCB Guidebook
Org. carbon/water Partition Coeff. (mL/g)	Koc	660	LARWQCB Guidebook
Soil/Water Partition Coeff. (mL/g)	Kd	9.90	Kd = Koc x foc
Henry's Law Constant (-)	Kh	0.956	LARWQCB Guidebook

Chemical-Specific Attenuation Factor	AF	729
Dilution Attenuation Factor	DAF	1
bioattenuation factor	BAF	1

**Result Table**

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
300	729	72.9	0.36
250	729	72.9	0.36
200	729	72.9	0.36
150	729	72.9	0.36
120	550	55.0	0.28
100	431	43.1	0.22
90	371	37.1	0.19
80	312	31.2	0.16
75	282	28.2	0.14
70	252	25.2	0.13
65	222	22.2	0.11
60	192	19.2	0.096
55	162	16.2	0.081
50	133	13.3	0.066
45	103	10.3	0.051
40	73	7.3	0.036
35	64	6.4	0.032

**Appendix D**

**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** Tetrachloroethene

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
30	55	5.5	0.027
25	46	4.6	0.023
24	44	4.4	0.022
23	42	4.2	0.021
22	41	4.1	0.020
21	39	3.9	0.019
20	37	3.7	0.018
19	35	3.5	0.018
18	33	3.3	0.017
17	32	3.2	0.016
16	30	3.0	0.015
15	28	2.8	0.014
14	26	2.6	0.013
13	24	2.4	0.012
12	23	2.3	0.011
11	21	2.1	0.010
10	19	1.9	0.009
5	10	1.0	0.005
0	1	1.0	0.005

Notes:

$AF = 1 + (rb/qw)*foc*Koc + (n-qw)*KH/qw$

D = Depth of Contaminant above the groundwater level

$AFd = D(0.1*AF - 1)/40 + 1$  - Eqn. 7. For depths less than or equal to 40 feet.

$AFd = (0.9(D-40)/110+0.1)AF$  - Eqn. 6. For depths  $40 < D < 150$  feet.

$AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL)$  - Eqn. 12

Soil Cleanup Level =  $C = Af_t \times MCL$  - Eqn. 13

**Appendix D**

**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** Trichloroethene

**Soil lithology:**

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 5.0E-03

**AF Calculation**

			Source
Soil density (g/cm <sup>3</sup> )	ρb	2.27	LARWQCB Guidebook
porosity (-)	n	0.143	LARWQCB Guidebook
water content (-)	qw	0.031	LARWQCB Guidebook
fract. Org. carbon (-)	foc	1.5%	LARWQCB Guidebook
Org. carbon/water Partition Coeff. (mL/g)	Koc	130	LARWQCB Guidebook
Soil/Water Partition Coeff. (mL/g)	Kd	2.0	Kd = Koc x foc
Henry's Law Constant (-)	Kh	0.371	LARWQCB Guidebook
Chemical-Specific Attenuation Factor	AF	145	
Dilution Attenuation Factor	DAF	1	
bioattenuation factor	BAF	1	

**Result Table**

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
300	145	14.5	0.073
250	145	14.5	0.073
200	145	14.5	0.073
150	145	14.5	0.073
120	110	11.0	0.055
100	86	8.6	0.043
90	74	7.4	0.037
80	62	6.2	0.031
75	56	5.6	0.028
70	50	5.0	0.025
65	44	4.4	0.022
60	38	3.8	0.019
55	32	3.2	0.016
50	26	2.6	0.013
45	20	2.0	0.010
40	15	1.5	0.007
35	13	1.3	0.006

**Appendix D**

**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** Trichloroethene

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
30	11	1.1	0.006
25	9	1.0	0.005
24	9	1.0	0.005
23	9	1.0	0.005
22	8	1.0	0.005
21	8	1.0	0.005
20	8	1.0	0.005
19	7	1.0	0.005
18	7	1.0	0.005
17	7	1.0	0.005
16	6	1.0	0.005
15	6	1.0	0.005
14	6	1.0	0.005
13	5	1.0	0.005
12	5	1.0	0.005
11	5	1.0	0.005
10	4	1.0	0.005
5	3	1.0	0.005
0	1	1.0	0.005

Notes:

$AF = 1 + (rb/qw) \cdot f_{oc} \cdot K_{oc} + (n-qw) \cdot KH/qw$

D = Depth of Contaminant above the groundwater level

$AFd = D(0.1 \cdot AF - 1)/40 + 1$  - Eqn. 7. For depths less than or equal to 40 feet.

$AFd = (0.9(D-40)/110 + 0.1)AF$  - Eqn. 6. For depths  $40 < D < 150$  feet.

$AFt = (AFd/D) \cdot (TGR/20 + TSA/10 + TSI/5 + TCL)$  - Eqn. 12

Soil Cleanup Level =  $C = Af_t \times MCL$  - Eqn. 13

**Appendix D**

**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** Vinyl chloride

**Soil lithology:**

	% gravel	% sand	% silt	% clay	TOTAL
LITHOLOGY:		100%			100%

CHEMICAL MCL (mg/L): 5.0E-04

**AF Calculation**

			Source
Soil density (g/cm <sup>3</sup> )	ρb	2.27	LARWQCB Guidebook
porosity (-)	n	0.143	LARWQCB Guidebook
water content (-)	qw	0.031	LARWQCB Guidebook
fract. Org. carbon (-)	foc	1.5%	LARWQCB Guidebook
Org. carbon/water Partition Coeff. (mL/g)	Koc	57	LARWQCB Guidebook
Soil/Water Partition Coeff. (mL/g)	Kd	0.86	Kd = Koc x foc
Henry's Law Constant (-)	Kh	29.1	LARWQCB Guidebook
Chemical-Specific Attenuation Factor	AF	169	
Dilution Attenuation Factor	DAF	1	
bioattenuation factor	BAF	1	

**Result Table**

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
300	169	16.9	0.0084
250	169	16.9	0.0084
200	169	16.9	0.0084
150	169	16.9	0.0084
120	127	12.7	0.0064
100	100	10.0	0.0050
90	86	8.6	0.0043
80	72	7.2	0.0036
75	65	6.5	0.0033
70	58	5.8	0.0029
65	51	5.1	0.0026
60	44	4.4	0.0022
55	38	3.8	0.0019
50	31	3.1	0.0015
45	24	2.4	0.0012
40	17	1.7	0.0008
35	15	1.5	0.0007

**Appendix D**

**Soil Leaching to Groundwater Site-Specific Cleanup Goal Derivation**

Source: Interim Site Assessment Cleanup Guidebook May 1996 (Los Angeles RWQCB)  
Former Kast Property

**Compound:** Vinyl chloride

DEPTH (D) (ft) above GW	DEPTH FACTOR (AFd)	TOTAL ATTENUATIO N FACTOR (AFt)	SOIL CLEAN UP LEVEL (mg/kg)
30	13	1.3	0.0006
25	11	1.1	0.0005
24	11	1.1	0.0005
23	10	1.0	0.0005
22	10	1.0	0.0005
21	9	1.0	0.0005
20	9	1.0	0.0005
19	9	1.0	0.0005
18	8	1.0	0.0005
17	8	1.0	0.0005
16	7	1.0	0.0005
15	7	1.0	0.0005
14	7	1.0	0.0005
13	6	1.0	0.0005
12	6	1.0	0.0005
11	5	1.0	0.0005
10	5	1.0	0.0005
5	3	1.0	0.0005
0	1	1.0	0.0005

Notes:

$AF = 1 + (rb/qw)*foc*Koc + (n-qw)*KH/qw$

D = Depth of Contaminant above the groundwater level

$AFd = D(0.1*AF - 1)/40 + 1$  - Eqn. 7. For depths less than or equal to 40 feet.

$AFd = (0.9(D-40)/110+0.1)AF$  - Eqn. 6. For depths  $40 < D < 150$  feet.

$AFt = (AFd/D)*(TGR/20+TSA/10+TSI/5+TCL)$  - Eqn. 12

Soil Cleanup Level =  $C = Af_t \times MCL$  - Eqn. 13

**APPENDIX E**

**DETAILED RISK CALCULATIONS**

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil ≤2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24401 MARBELLA AVE	1,1,2,2-Tetrachloroethane	µg/kg	0.21	Max	6.2E+05	4.7E+02	3E-07	5E-10
24401 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.12	Max	8.3E+04	--	2E-06	--
24401 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.019	Max	4.0E+03	1.6E+01	5E-06	1E-09
24401 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0179	95UCL	2.3E+02	--	8E-05	--
24401 MARBELLA AVE	Benzene	µg/kg	0.33	Max	6.7E+04	2.2E+02	5E-06	2E-09
24401 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1.6	Max	1.2E+03	3.5E+01	1E-03	5E-08
24401 MARBELLA AVE	Cobalt	mg/kg	11.09	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24401 MARBELLA AVE	Ethylbenzene	µg/kg	0.44	Max	3.3E+06	4.8E+03	1E-07	9E-11
24401 MARBELLA AVE	Methylene Chloride	µg/kg	5.6	Max	3.6E+05	5.3E+03	2E-05	1E-09
24401 MARBELLA AVE	Naphthalene	mg/kg	0.0114	95UCL	1.5E+02	4.0E+00	8E-05	3E-09
24401 MARBELLA AVE	Pyrene	mg/kg	0.026	95UCL	1.7E+03	--	2E-05	--
24401 MARBELLA AVE	Toluene	µg/kg	1.1	Max	4.8E+06	--	2E-07	--
24401 MARBELLA AVE	TPH as Diesel	mg/kg	81.5	95UCL	1.3E+03	--	6E-02	--
24401 MARBELLA AVE	TPH as Gasoline	mg/kg	0.071	Max	7.6E+02	--	9E-05	--
24401 MARBELLA AVE	TPH as Motor Oil	mg/kg	273.4	95UCL	3.3E+03	--	8E-02	--
24401 MARBELLA AVE	Vanadium	mg/kg	39.67	95UCL	3.9E+02	--	1E-01	--
24402 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00885	95UCL	4.0E+03	1.6E+01	2E-06	6E-10
24402 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0126	95UCL	2.3E+02	--	6E-05	--
24402 NEPTUNE AVE	Benzene	µg/kg	0.233	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24402 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.36	Max	2.3E+02	1.3E+00	2E-03	3E-07
24402 NEPTUNE AVE	Cobalt	mg/kg	10.19	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24402 NEPTUNE AVE	Ethylbenzene	µg/kg	0.186	95UCL	3.3E+06	4.8E+03	6E-08	4E-11
24402 NEPTUNE AVE	Naphthalene	mg/kg	0.0028	95UCL	1.5E+02	4.0E+00	2E-05	7E-10
24402 NEPTUNE AVE	Pyrene	mg/kg	0.151	95UCL	1.7E+03	--	9E-05	--
24402 NEPTUNE AVE	Toluene	µg/kg	0.248	95UCL	4.8E+06	--	5E-08	--
24402 NEPTUNE AVE	TPH as Diesel	mg/kg	442.9	95UCL	1.3E+03	--	3E-01	--
24402 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.196	95UCL	7.6E+02	--	3E-04	--
24402 NEPTUNE AVE	TPH as Motor Oil	mg/kg	886.3	95UCL	3.3E+03	--	3E-01	--
24402 NEPTUNE AVE	Xylenes, Total	µg/kg	0.342	95UCL	5.6E+05	--	6E-07	--
24402 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.397	95UCL	8.3E+04	--	5E-06	--
24402 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.11	Max	4.0E+03	1.6E+01	3E-05	7E-09
24402 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0498	95UCL	2.3E+02	--	2E-04	--
24402 PANAMA AVE	Benzene	µg/kg	0.233	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24402 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.66	Max	1.2E+03	3.5E+01	5E-04	2E-08
24402 PANAMA AVE	Bromomethane	µg/kg	1.9	Max	8.8E+03	--	2E-04	--
24402 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.6	Max	2.3E+02	1.3E+00	3E-03	5E-07
24402 PANAMA AVE	Cobalt	mg/kg	10.45	95UCL	2.3E+01	3.1E+04	5E-01	3E-10
24402 PANAMA AVE	Ethylbenzene	µg/kg	0.18	95UCL	3.3E+06	4.8E+03	6E-08	4E-11
24402 PANAMA AVE	Naphthalene	mg/kg	0.0102	95UCL	1.5E+02	4.0E+00	7E-05	3E-09
24402 PANAMA AVE	Pyrene	mg/kg	0.211	95UCL	1.7E+03	--	1E-04	--
24402 PANAMA AVE	Toluene	µg/kg	0.577	95UCL	4.8E+06	--	1E-07	--
24402 PANAMA AVE	TPH as Diesel	mg/kg	371	95UCL	1.3E+03	--	3E-01	--
24402 PANAMA AVE	TPH as Gasoline	mg/kg	0.0789	95UCL	7.6E+02	--	1E-04	--
24402 PANAMA AVE	TPH as Motor Oil	mg/kg	1059	95UCL	3.3E+03	--	3E-01	--
24402 PANAMA AVE	Vanadium	mg/kg	33.62	95UCL	3.9E+02	--	9E-02	--
24402 PANAMA AVE	Xylenes, Total	µg/kg	0.403	95UCL	5.6E+05	--	7E-07	--
24402 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	1977	95UCL	8.3E+04	--	2E-02	--
24402 RAVENNA AVE	1,2-Dichloropropane	µg/kg	0.65	Max	1.5E+04	8.3E+02	4E-05	8E-10
24402 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	4100	Max	8.5E+04	--	5E-02	--
24402 RAVENNA AVE	1-Methylnaphthalene	mg/kg	4.294	95UCL	4.0E+03	1.6E+01	1E-03	3E-07
24402 RAVENNA AVE	2-Methylnaphthalene	mg/kg	10.06	95UCL	2.3E+02	--	4E-02	--
24402 RAVENNA AVE	Benzene	µg/kg	327.6	95UCL	6.7E+04	2.2E+02	5E-03	<b>2E-06</b>
24402 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.38	Max	1.2E+03	3.5E+01	3E-04	1E-08
24402 RAVENNA AVE	Bromomethane	µg/kg	1.1	Max	8.8E+03	--	1E-04	--
24402 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.185	95UCL	2.3E+02	1.3E+00	8E-04	1E-07
24402 RAVENNA AVE	Cobalt	mg/kg	10.15	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24402 RAVENNA AVE	Ethylbenzene	µg/kg	687.8	95UCL	3.3E+06	4.8E+03	2E-04	1E-07
24402 RAVENNA AVE	Naphthalene	mg/kg	4.235	95UCL	1.5E+02	4.0E+00	3E-02	1E-06
24402 RAVENNA AVE	Pyrene	mg/kg	0.895	95UCL	1.7E+03	--	5E-04	--
24402 RAVENNA AVE	Toluene	µg/kg	247	95UCL	4.8E+06	--	5E-05	--
24402 RAVENNA AVE	TPH as Diesel	mg/kg	3554	95UCL	1.3E+03	--	<b>3E+00</b>	--
24402 RAVENNA AVE	TPH as Gasoline	mg/kg	225.9	95UCL	7.6E+02	--	3E-01	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq 2$  ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24402 RAVENNA AVE	TPH as Motor Oil	mg/kg	3694	95UCL	3.3E+03	--	1E+00	--
24402 RAVENNA AVE	Xylenes, Total	µg/kg	20000	Max	5.6E+05	--	4E-02	--
24403 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.237	95UCL	8.3E+04	--	3E-06	--
24403 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	1.387	95UCL	4.0E+03	1.6E+01	4E-04	9E-08
24403 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	1.969	95UCL	2.3E+02	--	9E-03	--
24403 NEPTUNE AVE	Benzene	µg/kg	0.263	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24403 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.38	Max	1.2E+03	3.5E+01	3E-04	1E-08
24403 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.38	Max	2.3E+02	1.3E+00	2E-03	3E-07
24403 NEPTUNE AVE	Cobalt	mg/kg	10.57	95UCL	2.3E+01	3.1E+04	5E-01	3E-10
24403 NEPTUNE AVE	Ethylbenzene	µg/kg	0.23	Max	3.3E+06	4.8E+03	7E-08	5E-11
24403 NEPTUNE AVE	Naphthalene	mg/kg	0.808	95UCL	1.5E+02	4.0E+00	5E-03	2E-07
24403 NEPTUNE AVE	Pyrene	mg/kg	0.799	95UCL	1.7E+03	--	5E-04	--
24403 NEPTUNE AVE	Toluene	µg/kg	0.235	95UCL	4.8E+06	--	5E-08	--
24403 NEPTUNE AVE	TPH as Diesel	mg/kg	3380	95UCL	1.3E+03	--	3E+00	--
24403 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.1	Max	7.6E+02	--	1E-04	--
24403 NEPTUNE AVE	TPH as Motor Oil	mg/kg	3708	95UCL	3.3E+03	--	1E+00	--
24403 NEPTUNE AVE	Xylenes, Total	µg/kg	0.37	Max	5.6E+05	--	7E-07	--
24403 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.241	95UCL	8.3E+04	--	3E-06	--
24403 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00494	95UCL	4.0E+03	1.6E+01	1E-06	3E-10
24403 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0131	95UCL	2.3E+02	--	6E-05	--
24403 RAVENNA AVE	Benzene	µg/kg	0.178	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24403 RAVENNA AVE	Bromomethane	µg/kg	1.5	Max	8.8E+03	--	2E-04	--
24403 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.317	95UCL	2.3E+02	1.3E+00	1E-03	3E-07
24403 RAVENNA AVE	Cobalt	mg/kg	10.82	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24403 RAVENNA AVE	Naphthalene	mg/kg	0.0487	95UCL	1.5E+02	4.0E+00	3E-04	1E-08
24403 RAVENNA AVE	Pyrene	mg/kg	0.0288	95UCL	1.7E+03	--	2E-05	--
24403 RAVENNA AVE	Toluene	µg/kg	0.328	95UCL	4.8E+06	--	7E-08	--
24403 RAVENNA AVE	TPH as Diesel	mg/kg	171.5	95UCL	1.3E+03	--	1E-01	--
24403 RAVENNA AVE	TPH as Gasoline	mg/kg	0.1	Max	7.6E+02	--	1E-04	--
24403 RAVENNA AVE	TPH as Motor Oil	mg/kg	525	95UCL	3.3E+03	--	2E-01	--
24403 RAVENNA AVE	Xylenes, Total	µg/kg	0.23	Max	5.6E+05	--	4E-07	--
24405 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.43	Max	8.3E+04	--	5E-06	--
24405 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0017	Max	4.0E+03	1.6E+01	4E-07	1E-10
24405 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.00569	95UCL	2.3E+02	--	3E-05	--
24405 MARBELLA AVE	Benzene	µg/kg	0.574	95UCL	6.7E+04	2.2E+02	9E-06	3E-09
24405 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.24	Max	1.2E+03	3.5E+01	2E-04	7E-09
24405 MARBELLA AVE	Cobalt	mg/kg	11.06	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24405 MARBELLA AVE	Ethylbenzene	µg/kg	0.38	Max	3.3E+06	4.8E+03	1E-07	8E-11
24405 MARBELLA AVE	Naphthalene	mg/kg	0.0159	95UCL	1.5E+02	4.0E+00	1E-04	4E-09
24405 MARBELLA AVE	Pyrene	mg/kg	0.0208	95UCL	1.7E+03	--	1E-05	--
24405 MARBELLA AVE	Toluene	µg/kg	1.982	95UCL	4.8E+06	--	4E-07	--
24405 MARBELLA AVE	TPH as Diesel	mg/kg	340.4	95UCL	1.3E+03	--	3E-01	--
24405 MARBELLA AVE	TPH as Motor Oil	mg/kg	943.6	95UCL	3.3E+03	--	3E-01	--
24405 MARBELLA AVE	Xylenes, Total	µg/kg	2.4	Max	5.6E+05	--	4E-06	--
24406 MARBELLA AVE	1,1,2,2-Tetrachloroethane	µg/kg	0.13	Max	6.2E+05	4.7E+02	2E-07	3E-10
24406 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.87	Max	8.3E+04	--	1E-05	--
24406 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.2	Max	8.5E+04	--	2E-06	--
24406 MARBELLA AVE	1,4-Dichlorobenzene	µg/kg	0.22	Max	3.6E+06	2.8E+03	6E-08	8E-11
24406 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0057	Max	4.0E+03	1.6E+01	1E-06	4E-10
24406 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.00807	95UCL	2.3E+02	--	4E-05	--
24406 MARBELLA AVE	Benzene	µg/kg	0.279	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24406 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.98	Max	1.2E+03	3.5E+01	8E-04	3E-08
24406 MARBELLA AVE	Cobalt	mg/kg	11.51	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24406 MARBELLA AVE	Naphthalene	mg/kg	0.00576	95UCL	1.5E+02	4.0E+00	4E-05	2E-09
24406 MARBELLA AVE	Pyrene	mg/kg	0.0754	95UCL	1.7E+03	--	4E-05	--
24406 MARBELLA AVE	Toluene	µg/kg	0.421	95UCL	4.8E+06	--	9E-08	--
24406 MARBELLA AVE	TPH as Diesel	mg/kg	2884	95UCL	1.3E+03	--	2E+00	--
24406 MARBELLA AVE	TPH as Gasoline	mg/kg	0.091	Max	7.6E+02	--	1E-04	--
24406 MARBELLA AVE	TPH as Motor Oil	mg/kg	3249	95UCL	3.3E+03	--	1E+00	--
24406 MARBELLA AVE	Trichloroethene	µg/kg	0.16	Max	5.8E+03	1.2E+03	3E-05	1E-10
24406 MARBELLA AVE	Xylenes, Total	µg/kg	0.334	95UCL	5.6E+05	--	6E-07	--
24406 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00733	95UCL	4.0E+03	1.6E+01	2E-06	5E-10

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$  2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24406 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0144	95UCL	2.3E+02	--	6E-05	--
24406 NEPTUNE AVE	Benzene	$\mu$ g/kg	0.181	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24406 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	3.3	Max	1.2E+03	3.5E+01	3E-03	1E-07
24406 NEPTUNE AVE	Cobalt	mg/kg	9.078	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24406 NEPTUNE AVE	Naphthalene	mg/kg	0.0139	95UCL	1.5E+02	4.0E+00	9E-05	4E-09
24406 NEPTUNE AVE	Pyrene	mg/kg	0.182	95UCL	1.7E+03	--	1E-04	--
24406 NEPTUNE AVE	TPH as Diesel	mg/kg	299.2	95UCL	1.3E+03	--	2E-01	--
24406 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.077	Max	7.6E+02	--	1E-04	--
24406 NEPTUNE AVE	TPH as Motor Oil	mg/kg	729.5	95UCL	3.3E+03	--	2E-01	--
24406 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0502	95UCL	2.3E+02	--	2E-04	--
24406 PANAMA AVE	Benzene	$\mu$ g/kg	0.237	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24406 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.24	Max	2.3E+02	1.3E+00	1E-03	2E-07
24406 PANAMA AVE	Cobalt	mg/kg	10.75	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24406 PANAMA AVE	Naphthalene	mg/kg	0.069	Max	1.5E+02	4.0E+00	5E-04	2E-08
24406 PANAMA AVE	Pyrene	mg/kg	0.318	95UCL	1.7E+03	--	2E-04	--
24406 PANAMA AVE	Toluene	$\mu$ g/kg	0.274	95UCL	4.8E+06	--	6E-08	--
24406 PANAMA AVE	TPH as Diesel	mg/kg	633.7	95UCL	1.3E+03	--	5E-01	--
24406 PANAMA AVE	TPH as Motor Oil	mg/kg	2342	95UCL	3.3E+03	--	7E-01	--
24406 PANAMA AVE	Xylenes, Total	$\mu$ g/kg	0.2	Max	5.6E+05	--	4E-07	--
24406 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0035	95UCL	4.0E+03	1.6E+01	9E-07	2E-10
24406 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0106	95UCL	2.3E+02	--	5E-05	--
24406 RAVENNA AVE	Benzene	$\mu$ g/kg	0.18	Max	6.7E+04	2.2E+02	3E-06	8E-10
24406 RAVENNA AVE	Bromomethane	$\mu$ g/kg	1.3	Max	8.8E+03	--	2E-04	--
24406 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.6	Max	2.3E+02	1.3E+00	3E-03	5E-07
24406 RAVENNA AVE	Naphthalene	mg/kg	0.00464	95UCL	1.5E+02	4.0E+00	3E-05	1E-09
24406 RAVENNA AVE	Pyrene	mg/kg	0.0612	95UCL	1.7E+03	--	4E-05	--
24406 RAVENNA AVE	Toluene	$\mu$ g/kg	0.2	Max	4.8E+06	--	4E-08	--
24406 RAVENNA AVE	TPH as Diesel	mg/kg	704.3	95UCL	1.3E+03	--	5E-01	--
24406 RAVENNA AVE	TPH as Gasoline	mg/kg	0.093	95UCL	7.6E+02	--	1E-04	--
24406 RAVENNA AVE	TPH as Motor Oil	mg/kg	1987	95UCL	3.3E+03	--	6E-01	--
24409 NEPTUNE AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.33	Max	8.3E+04	--	4E-06	--
24409 NEPTUNE AVE	1,3,5-Trimethylbenzene	$\mu$ g/kg	0.11	Max	8.5E+04	--	1E-06	--
24409 NEPTUNE AVE	1,4-Dichlorobenzene	$\mu$ g/kg	0.19	Max	3.6E+06	2.8E+03	5E-08	7E-11
24409 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00838	95UCL	4.0E+03	1.6E+01	2E-06	5E-10
24409 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0176	95UCL	2.3E+02	--	8E-05	--
24409 NEPTUNE AVE	Benzene	$\mu$ g/kg	0.245	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24409 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.43	Max	1.2E+03	3.5E+01	4E-04	1E-08
24409 NEPTUNE AVE	Ethylbenzene	$\mu$ g/kg	0.15	Max	3.3E+06	4.8E+03	5E-08	3E-11
24409 NEPTUNE AVE	Naphthalene	mg/kg	0.0397	95UCL	1.5E+02	4.0E+00	3E-04	1E-08
24409 NEPTUNE AVE	Pyrene	mg/kg	0.13	95UCL	1.7E+03	--	8E-05	--
24409 NEPTUNE AVE	Toluene	$\mu$ g/kg	0.407	95UCL	4.8E+06	--	9E-08	--
24409 NEPTUNE AVE	TPH as Diesel	mg/kg	964.6	95UCL	1.3E+03	--	7E-01	--
24409 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.109	95UCL	7.6E+02	--	1E-04	--
24409 NEPTUNE AVE	TPH as Motor Oil	mg/kg	2118	95UCL	3.3E+03	--	6E-01	--
24409 NEPTUNE AVE	Xylenes, Total	$\mu$ g/kg	0.64	Max	5.6E+05	--	1E-06	--
24409 RAVENNA AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.17	Max	8.3E+04	--	2E-06	--
24409 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0173	95UCL	2.3E+02	--	8E-05	--
24409 RAVENNA AVE	Benzene	$\mu$ g/kg	0.13	Max	6.7E+04	2.2E+02	2E-06	6E-10
24409 RAVENNA AVE	Cobalt	mg/kg	9.905	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24409 RAVENNA AVE	Naphthalene	mg/kg	0.18	Max	1.5E+02	4.0E+00	1E-03	5E-08
24409 RAVENNA AVE	Pyrene	mg/kg	0.0671	95UCL	1.7E+03	--	4E-05	--
24409 RAVENNA AVE	Toluene	$\mu$ g/kg	0.21	Max	4.8E+06	--	4E-08	--
24409 RAVENNA AVE	TPH as Diesel	mg/kg	226.8	95UCL	1.3E+03	--	2E-01	--
24409 RAVENNA AVE	TPH as Gasoline	mg/kg	0.089	Max	7.6E+02	--	1E-04	--
24409 RAVENNA AVE	TPH as Motor Oil	mg/kg	950.7	95UCL	3.3E+03	--	3E-01	--
24409 RAVENNA AVE	Xylenes, Total	$\mu$ g/kg	0.22	Max	5.6E+05	--	4E-07	--
24410 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.022	Max	4.0E+03	1.6E+01	6E-06	1E-09
24410 PANAMA AVE	2,4-Dinitrotoluene	mg/kg	0.068	Max	1.2E+02	1.6E+00	6E-04	4E-08
24410 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.042	95UCL	2.3E+02	--	2E-04	--
24410 PANAMA AVE	Benzene	$\mu$ g/kg	9.696	95UCL	6.7E+04	2.2E+02	2E-04	4E-08
24410 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.21	Max	1.2E+03	3.5E+01	2E-04	6E-09
24410 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.25	Max	2.3E+02	1.3E+00	1E-03	2E-07

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil ≤2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24410 PANAMA AVE	Cobalt	mg/kg	8.806	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24410 PANAMA AVE	Naphthalene	mg/kg	0.0185	95UCL	1.5E+02	4.0E+00	1E-04	5E-09
24410 PANAMA AVE	Pyrene	mg/kg	0.241	95UCL	1.7E+03	--	1E-04	--
24410 PANAMA AVE	Tetrachloroethene	µg/kg	0.23	Max	8.6E+04	5.5E+02	3E-06	4E-10
24410 PANAMA AVE	Toluene	µg/kg	3.8	Max	4.8E+06	--	8E-07	--
24410 PANAMA AVE	TPH as Diesel	mg/kg	593.7	95UCL	1.3E+03	--	5E-01	--
24410 PANAMA AVE	TPH as Gasoline	mg/kg	0.058	Max	7.6E+02	--	8E-05	--
24410 PANAMA AVE	TPH as Motor Oil	mg/kg	1991	95UCL	3.3E+03	--	6E-01	--
24410 PANAMA AVE	Trichloroethene	µg/kg	0.2	Max	5.8E+03	1.2E+03	4E-05	2E-10
24410 PANAMA AVE	Xylenes, Total	µg/kg	0.61	Max	5.6E+05	--	1E-06	--
24411 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	800	Max	8.3E+04	--	1E-02	--
24411 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	82	Max	8.5E+04	--	1E-03	--
24411 MARBELLA AVE	1,4-Dichlorobenzene	µg/kg	0.33	Max	3.6E+06	2.8E+03	9E-08	1E-10
24411 MARBELLA AVE	1-Methylnaphthalene	mg/kg	38	Max	4.0E+03	1.6E+01	1E-02	2E-06
24411 MARBELLA AVE	2-Methylnaphthalene	mg/kg	8.134	95UCL	2.3E+02	--	4E-02	--
24411 MARBELLA AVE	Benzene	µg/kg	0.224	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24411 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.36	95UCL	1.2E+03	3.5E+01	3E-04	1E-08
24411 MARBELLA AVE	Cobalt	mg/kg	10.85	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24411 MARBELLA AVE	Ethylbenzene	µg/kg	76	Max	3.3E+06	4.8E+03	2E-05	2E-08
24411 MARBELLA AVE	Naphthalene	mg/kg	0.995	95UCL	1.5E+02	4.0E+00	7E-03	3E-07
24411 MARBELLA AVE	Pyrene	mg/kg	2.017	95UCL	1.7E+03	--	1E-03	--
24411 MARBELLA AVE	Tetrachloroethene	µg/kg	0.299	95UCL	8.6E+04	5.5E+02	4E-06	5E-10
24411 MARBELLA AVE	Toluene	µg/kg	19.48	95UCL	4.8E+06	--	4E-06	--
24411 MARBELLA AVE	TPH as Diesel	mg/kg	8198	95UCL	1.3E+03	--	6E+00	--
24411 MARBELLA AVE	TPH as Gasoline	mg/kg	0.13	95UCL	7.6E+02	--	2E-04	--
24411 MARBELLA AVE	TPH as Motor Oil	mg/kg	13001	95UCL	3.3E+03	--	4E+00	--
24411 MARBELLA AVE	Xylenes, Total	µg/kg	420	Max	5.6E+05	--	8E-04	--
24411 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.45	95UCL	8.3E+04	--	5E-06	--
24411 PANAMA AVE	1,4-Dichlorobenzene	µg/kg	0.2	Max	3.6E+06	2.8E+03	6E-08	7E-11
24411 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.026	Max	4.0E+03	1.6E+01	7E-06	2E-09
24411 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0289	95UCL	2.3E+02	--	1E-04	--
24411 PANAMA AVE	Benzene	µg/kg	0.292	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24411 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1.3	Max	1.2E+03	3.5E+01	1E-03	4E-08
24411 PANAMA AVE	Cobalt	mg/kg	10.3	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24411 PANAMA AVE	Ethylbenzene	µg/kg	0.45	Max	3.3E+06	4.8E+03	1E-07	9E-11
24411 PANAMA AVE	Naphthalene	mg/kg	0.04	Max	1.5E+02	4.0E+00	3E-04	1E-08
24411 PANAMA AVE	Pyrene	mg/kg	0.249	95UCL	1.7E+03	--	2E-04	--
24411 PANAMA AVE	Toluene	µg/kg	0.497	95UCL	4.8E+06	--	1E-07	--
24411 PANAMA AVE	TPH as Diesel	mg/kg	252.7	95UCL	1.3E+03	--	2E-01	--
24411 PANAMA AVE	TPH as Gasoline	mg/kg	0.181	95UCL	7.6E+02	--	2E-04	--
24411 PANAMA AVE	TPH as Motor Oil	mg/kg	1124	95UCL	3.3E+03	--	3E-01	--
24411 PANAMA AVE	Xylenes, Total	µg/kg	0.365	95UCL	5.6E+05	--	7E-07	--
24412 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.558	95UCL	8.3E+04	--	7E-06	--
24412 MARBELLA AVE	1,4-Dichlorobenzene	µg/kg	0.34	Max	3.6E+06	2.8E+03	9E-08	1E-10
24412 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.213	95UCL	4.0E+03	1.6E+01	5E-05	1E-08
24412 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.328	95UCL	2.3E+02	--	1E-03	--
24412 MARBELLA AVE	Benzene	µg/kg	0.471	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24412 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1	Max	1.2E+03	3.5E+01	8E-04	3E-08
24412 MARBELLA AVE	Bromomethane	µg/kg	3.5	Max	8.8E+03	--	4E-04	--
24412 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.27	Max	2.3E+02	1.3E+00	1E-03	2E-07
24412 MARBELLA AVE	Cobalt	mg/kg	11.23	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24412 MARBELLA AVE	Ethylbenzene	µg/kg	3.1	Max	3.3E+06	4.8E+03	1E-06	7E-10
24412 MARBELLA AVE	Naphthalene	mg/kg	0.153	95UCL	1.5E+02	4.0E+00	1E-03	4E-08
24412 MARBELLA AVE	Pyrene	mg/kg	0.0729	95UCL	1.7E+03	--	4E-05	--
24412 MARBELLA AVE	Toluene	µg/kg	0.671	95UCL	4.8E+06	--	1E-07	--
24412 MARBELLA AVE	TPH as Diesel	mg/kg	856.6	95UCL	1.3E+03	--	7E-01	--
24412 MARBELLA AVE	TPH as Gasoline	mg/kg	0.336	95UCL	7.6E+02	--	4E-04	--
24412 MARBELLA AVE	TPH as Motor Oil	mg/kg	1399	95UCL	3.3E+03	--	4E-01	--
24412 MARBELLA AVE	Vanadium	mg/kg	38.81	95UCL	3.9E+02	--	1E-01	--
24412 MARBELLA AVE	Xylenes, Total	µg/kg	0.284	95UCL	5.6E+05	--	5E-07	--
24412 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	505.1	95UCL	8.3E+04	--	6E-03	--
24412 RAVENNA AVE	1,4-Dichlorobenzene	µg/kg	0.37	Max	3.6E+06	2.8E+03	1E-07	1E-10

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil <=2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24412 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.861	95UCL	4.0E+03	1.6E+01	2E-04	6E-08
24412 RAVENNA AVE	2-Methylnaphthalene	mg/kg	2.489	95UCL	2.3E+02	--	1E-02	--
24412 RAVENNA AVE	Benzene	µg/kg	0.277	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24412 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.18	Max	1.2E+03	3.5E+01	2E-04	5E-09
24412 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.24	Max	2.3E+02	1.3E+00	1E-03	2E-07
24412 RAVENNA AVE	Cobalt	mg/kg	9.437	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24412 RAVENNA AVE	Ethylbenzene	µg/kg	680	Max	3.3E+06	4.8E+03	2E-04	1E-07
24412 RAVENNA AVE	Naphthalene	mg/kg	0.845	95UCL	1.5E+02	4.0E+00	6E-03	2E-07
24412 RAVENNA AVE	Pyrene	mg/kg	0.279	95UCL	1.7E+03	--	2E-04	--
24412 RAVENNA AVE	Toluene	µg/kg	0.45	95UCL	4.8E+06	--	9E-08	--
24412 RAVENNA AVE	TPH as Diesel	mg/kg	2092	95UCL	1.3E+03	--	2E+00	--
24412 RAVENNA AVE	TPH as Gasoline	mg/kg	173.9	95UCL	7.6E+02	--	2E-01	--
24412 RAVENNA AVE	TPH as Motor Oil	mg/kg	2629	95UCL	3.3E+03	--	8E-01	--
24412 RAVENNA AVE	Xylenes, Total	µg/kg	37.09	95UCL	5.6E+05	--	7E-05	--
24413 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.243	95UCL	8.3E+04	--	3E-06	--
24413 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.026	Max	4.0E+03	1.6E+01	7E-06	2E-09
24413 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0203	95UCL	2.3E+02	--	9E-05	--
24413 NEPTUNE AVE	Benzene	µg/kg	0.253	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24413 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1.5	Max	1.2E+03	3.5E+01	1E-03	4E-08
24413 NEPTUNE AVE	Bromomethane	µg/kg	2.3	Max	8.8E+03	--	3E-04	--
24413 NEPTUNE AVE	Ethylbenzene	µg/kg	0.21	Max	3.3E+06	4.8E+03	6E-08	4E-11
24413 NEPTUNE AVE	Naphthalene	mg/kg	0.114	95UCL	1.5E+02	4.0E+00	8E-04	3E-08
24413 NEPTUNE AVE	Pyrene	mg/kg	0.0682	95UCL	1.7E+03	--	4E-05	--
24413 NEPTUNE AVE	Toluene	µg/kg	0.373	95UCL	4.8E+06	--	8E-08	--
24413 NEPTUNE AVE	TPH as Diesel	mg/kg	267.9	95UCL	1.3E+03	--	2E-01	--
24413 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.459	95UCL	7.6E+02	--	6E-04	--
24413 NEPTUNE AVE	TPH as Motor Oil	mg/kg	540.1	95UCL	3.3E+03	--	2E-01	--
24413 NEPTUNE AVE	Xylenes, Total	µg/kg	0.35	Max	5.6E+05	--	6E-07	--
24413 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.14	Max	8.3E+04	--	2E-06	--
24413 RAVENNA AVE	1,4-Dichlorobenzene	µg/kg	1	Max	3.6E+06	2.8E+03	3E-07	4E-10
24413 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.004	Max	4.0E+03	1.6E+01	1E-06	3E-10
24413 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.00852	95UCL	2.3E+02	--	4E-05	--
24413 RAVENNA AVE	Benzene	µg/kg	0.798	95UCL	6.7E+04	2.2E+02	1E-05	4E-09
24413 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	6.6	Max	1.2E+03	3.5E+01	5E-03	2E-07
24413 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.38	Max	2.3E+02	1.3E+00	2E-03	3E-07
24413 RAVENNA AVE	Cobalt	mg/kg	9.485	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24413 RAVENNA AVE	Ethylbenzene	µg/kg	0.2	Max	3.3E+06	4.8E+03	6E-08	4E-11
24413 RAVENNA AVE	Naphthalene	mg/kg	0.0034	95UCL	1.5E+02	4.0E+00	2E-05	9E-10
24413 RAVENNA AVE	Pyrene	mg/kg	0.0448	95UCL	1.7E+03	--	3E-05	--
24413 RAVENNA AVE	Tetrachloroethene	µg/kg	0.25	Max	8.6E+04	5.5E+02	3E-06	5E-10
24413 RAVENNA AVE	Toluene	µg/kg	1.018	95UCL	4.8E+06	--	2E-07	--
24413 RAVENNA AVE	TPH as Diesel	mg/kg	212.3	95UCL	1.3E+03	--	2E-01	--
24413 RAVENNA AVE	TPH as Gasoline	mg/kg	0.0869	95UCL	7.6E+02	--	1E-04	--
24413 RAVENNA AVE	TPH as Motor Oil	mg/kg	545.1	95UCL	3.3E+03	--	2E-01	--
24413 RAVENNA AVE	Xylenes, Total	µg/kg	0.678	95UCL	5.6E+05	--	1E-06	--
24416 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.4	Max	8.3E+04	--	5E-06	--
24416 MARBELLA AVE	1,4-Dichlorobenzene	µg/kg	0.46	Max	3.6E+06	2.8E+03	1E-07	2E-10
24416 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.011	95UCL	4.0E+03	1.6E+01	3E-06	7E-10
24416 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0304	95UCL	2.3E+02	--	1E-04	--
24416 MARBELLA AVE	Benzene	µg/kg	0.204	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24416 MARBELLA AVE	Cobalt	mg/kg	10.56	95UCL	2.3E+01	3.1E+04	5E-01	3E-10
24416 MARBELLA AVE	Ethylbenzene	µg/kg	0.31	Max	3.3E+06	4.8E+03	1E-07	7E-11
24416 MARBELLA AVE	Naphthalene	mg/kg	0.0135	95UCL	1.5E+02	4.0E+00	9E-05	3E-09
24416 MARBELLA AVE	Pyrene	mg/kg	0.0787	95UCL	1.7E+03	--	5E-05	--
24416 MARBELLA AVE	Toluene	µg/kg	0.466	95UCL	4.8E+06	--	1E-07	--
24416 MARBELLA AVE	TPH as Diesel	mg/kg	244.6	95UCL	1.3E+03	--	2E-01	--
24416 MARBELLA AVE	TPH as Gasoline	mg/kg	0.216	95UCL	7.6E+02	--	3E-04	--
24416 MARBELLA AVE	TPH as Motor Oil	mg/kg	478.4	95UCL	3.3E+03	--	1E-01	--
24416 MARBELLA AVE	Vanadium	mg/kg	36.93	95UCL	3.9E+02	--	9E-02	--
24416 MARBELLA AVE	Xylenes, Total	µg/kg	0.37	Max	5.6E+05	--	7E-07	--
24416 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00594	95UCL	4.0E+03	1.6E+01	2E-06	4E-10
24416 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0191	95UCL	2.3E+02	--	8E-05	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24416 NEPTUNE AVE	Benzene	µg/kg	0.19	Max	6.7E+04	2.2E+02	3E-06	9E-10
24416 NEPTUNE AVE	Naphthalene	mg/kg	0.0321	95UCL	1.5E+02	4.0E+00	2E-04	8E-09
24416 NEPTUNE AVE	Pyrene	mg/kg	0.0491	95UCL	1.7E+03	--	3E-05	--
24416 NEPTUNE AVE	TPH as Diesel	mg/kg	454.1	95UCL	1.3E+03	--	4E-01	--
24416 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.11	Max	7.6E+02	--	1E-04	--
24416 NEPTUNE AVE	TPH as Motor Oil	mg/kg	907.7	95UCL	3.3E+03	--	3E-01	--
24416 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0218	95UCL	2.3E+02	--	1E-04	--
24416 PANAMA AVE	Benzene	µg/kg	0.355	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24416 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.35	Max	1.2E+03	3.5E+01	3E-04	1E-08
24416 PANAMA AVE	Cobalt	mg/kg	8.88	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24416 PANAMA AVE	Ethylbenzene	µg/kg	0.21	Max	3.3E+06	4.8E+03	6E-08	4E-11
24416 PANAMA AVE	Naphthalene	mg/kg	0.0059	Max	1.5E+02	4.0E+00	4E-05	2E-09
24416 PANAMA AVE	Pyrene	mg/kg	0.139	95UCL	1.7E+03	--	8E-05	--
24416 PANAMA AVE	Toluene	µg/kg	0.299	95UCL	4.8E+06	--	6E-08	--
24416 PANAMA AVE	TPH as Diesel	mg/kg	634	95UCL	1.3E+03	--	5E-01	--
24416 PANAMA AVE	TPH as Gasoline	mg/kg	0.106	95UCL	7.6E+02	--	1E-04	--
24416 PANAMA AVE	TPH as Motor Oil	mg/kg	2088	95UCL	3.3E+03	--	6E-01	--
24416 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	170	Max	8.3E+04	--	2E-03	--
24416 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	77	Max	8.5E+04	--	9E-04	--
24416 RAVENNA AVE	1-Methylnaphthalene	mg/kg	22.11	95UCL	4.0E+03	1.6E+01	6E-03	1E-06
24416 RAVENNA AVE	2-Methylnaphthalene	mg/kg	20.84	95UCL	2.3E+02	--	9E-02	--
24416 RAVENNA AVE	Benzene	µg/kg	0.263	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24416 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.58	Max	2.3E+02	1.3E+00	3E-03	5E-07
24416 RAVENNA AVE	Ethylbenzene	µg/kg	280	Max	3.3E+06	4.8E+03	9E-05	6E-08
24416 RAVENNA AVE	Naphthalene	mg/kg	3.088	95UCL	1.5E+02	4.0E+00	2E-02	8E-07
24416 RAVENNA AVE	Pyrene	mg/kg	3.325	95UCL	1.7E+03	--	2E-03	--
24416 RAVENNA AVE	Toluene	µg/kg	0.19	95UCL	4.8E+06	--	4E-08	--
24416 RAVENNA AVE	TPH as Diesel	mg/kg	8961	95UCL	1.3E+03	--	7E+00	--
24416 RAVENNA AVE	TPH as Gasoline	mg/kg	160.4	95UCL	7.6E+02	--	2E-01	--
24416 RAVENNA AVE	TPH as Motor Oil	mg/kg	8252	95UCL	3.3E+03	--	3E+00	--
24416 RAVENNA AVE	Xylenes, Total	µg/kg	3.1	Max	5.6E+05	--	6E-06	--
24417 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0011	Max	4.0E+03	1.6E+01	3E-07	7E-11
24417 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0025	Max	2.3E+02	--	1E-05	--
24417 MARBELLA AVE	Benzene	µg/kg	0.28	Max	6.7E+04	2.2E+02	4E-06	1E-09
24417 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.39	Max	2.3E+02	1.3E+00	2E-03	3E-07
24417 MARBELLA AVE	Cobalt	mg/kg	12.2	Max	2.3E+01	3.1E+04	5E-01	4E-10
24417 MARBELLA AVE	Naphthalene	mg/kg	0.0029	Max	1.5E+02	4.0E+00	2E-05	7E-10
24417 MARBELLA AVE	Pyrene	mg/kg	0.012	Max	1.7E+03	--	7E-06	--
24417 MARBELLA AVE	Tetrachloroethene	µg/kg	0.41	Max	8.6E+04	5.5E+02	5E-06	7E-10
24417 MARBELLA AVE	Toluene	µg/kg	0.17	Max	4.8E+06	--	4E-08	--
24417 MARBELLA AVE	TPH as Diesel	mg/kg	85	Max	1.3E+03	--	7E-02	--
24417 MARBELLA AVE	TPH as Motor Oil	mg/kg	250	Max	3.3E+03	--	8E-02	--
24417 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.4	Max	8.3E+04	--	5E-06	--
24417 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.039	Max	4.0E+03	1.6E+01	1E-05	3E-09
24417 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0349	95UCL	2.3E+02	--	2E-04	--
24417 PANAMA AVE	Benzene	µg/kg	1.423	95UCL	6.7E+04	2.2E+02	2E-05	7E-09
24417 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.22	Max	1.2E+03	3.5E+01	2E-04	6E-09
24417 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.52	Max	2.3E+02	1.3E+00	2E-03	4E-07
24417 PANAMA AVE	Cobalt	mg/kg	9.168	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24417 PANAMA AVE	Ethylbenzene	µg/kg	3.6	Max	3.3E+06	4.8E+03	1E-06	8E-10
24417 PANAMA AVE	Naphthalene	mg/kg	0.00778	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24417 PANAMA AVE	Pyrene	mg/kg	0.164	95UCL	1.7E+03	--	1E-04	--
24417 PANAMA AVE	Toluene	µg/kg	0.271	95UCL	4.8E+06	--	6E-08	--
24417 PANAMA AVE	TPH as Diesel	mg/kg	546.8	95UCL	1.3E+03	--	4E-01	--
24417 PANAMA AVE	TPH as Gasoline	mg/kg	0.0714	95UCL	7.6E+02	--	9E-05	--
24417 PANAMA AVE	TPH as Motor Oil	mg/kg	1783	95UCL	3.3E+03	--	5E-01	--
24417 PANAMA AVE	Xylenes, Total	µg/kg	0.54	Max	5.6E+05	--	1E-06	--
24419 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.17	Max	8.3E+04	--	2E-06	--
24419 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0093	Max	4.0E+03	1.6E+01	2E-06	6E-10
24419 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.00502	95UCL	2.3E+02	--	2E-05	--
24419 NEPTUNE AVE	Benzene	µg/kg	0.97	Max	6.7E+04	2.2E+02	2E-05	4E-09
24419 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.66	Max	1.2E+03	3.5E+01	5E-04	2E-08

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil <=2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24419 NEPTUNE AVE	Bromodichloromethane	µg/kg	0.57	Max	4.3E+05	4.9E+02	1E-06	1E-09
24419 NEPTUNE AVE	Ethylbenzene	µg/kg	0.13	Max	3.3E+06	4.8E+03	4E-08	3E-11
24419 NEPTUNE AVE	Naphthalene	mg/kg	0.00234	95UCL	1.5E+02	4.0E+00	2E-05	6E-10
24419 NEPTUNE AVE	Pyrene	mg/kg	0.154	95UCL	1.7E+03	--	9E-05	--
24419 NEPTUNE AVE	Toluene	µg/kg	0.46	Max	4.8E+06	--	1E-07	--
24419 NEPTUNE AVE	TPH as Diesel	mg/kg	583.4	95UCL	1.3E+03	--	5E-01	--
24419 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.074	Max	7.6E+02	--	1E-04	--
24419 NEPTUNE AVE	TPH as Motor Oil	mg/kg	1169	95UCL	3.3E+03	--	4E-01	--
24419 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.302	95UCL	8.3E+04	--	4E-06	--
24419 RAVENNA AVE	1,4-Dichlorobenzene	µg/kg	0.19	Max	3.6E+06	2.8E+03	5E-08	7E-11
24419 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0053	Max	4.0E+03	1.6E+01	1E-06	3E-10
24419 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.00826	95UCL	2.3E+02	--	4E-05	--
24419 RAVENNA AVE	Benzene	µg/kg	0.322	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24419 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.14	Max	2.3E+02	1.3E+00	6E-04	1E-07
24419 RAVENNA AVE	Ethylbenzene	µg/kg	0.16	Max	3.3E+06	4.8E+03	5E-08	3E-11
24419 RAVENNA AVE	Naphthalene	mg/kg	0.0183	95UCL	1.5E+02	4.0E+00	1E-04	5E-09
24419 RAVENNA AVE	Pyrene	mg/kg	0.0558	95UCL	1.7E+03	--	3E-05	--
24419 RAVENNA AVE	Toluene	µg/kg	0.307	95UCL	4.8E+06	--	6E-08	--
24419 RAVENNA AVE	TPH as Diesel	mg/kg	94.33	95UCL	1.3E+03	--	7E-02	--
24419 RAVENNA AVE	TPH as Gasoline	mg/kg	0.0853	95UCL	7.6E+02	--	1E-04	--
24419 RAVENNA AVE	TPH as Motor Oil	mg/kg	302.1	95UCL	3.3E+03	--	9E-02	--
24419 RAVENNA AVE	Xylenes, Total	µg/kg	0.373	95UCL	5.6E+05	--	7E-07	--
24420 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.486	95UCL	8.3E+04	--	6E-06	--
24420 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.25	Max	8.5E+04	--	3E-06	--
24420 PANAMA AVE	1,4-Dichlorobenzene	µg/kg	0.15	Max	3.6E+06	2.8E+03	4E-08	5E-11
24420 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0439	95UCL	4.0E+03	1.6E+01	1E-05	3E-09
24420 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.13	95UCL	2.3E+02	--	6E-04	--
24420 PANAMA AVE	Benzene	µg/kg	0.186	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24420 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.22	Max	2.3E+02	1.3E+00	9E-04	2E-07
24420 PANAMA AVE	Naphthalene	mg/kg	0.0552	95UCL	1.5E+02	4.0E+00	4E-04	1E-08
24420 PANAMA AVE	Pyrene	mg/kg	0.561	95UCL	1.7E+03	--	3E-04	--
24420 PANAMA AVE	Toluene	µg/kg	0.349	95UCL	4.8E+06	--	7E-08	--
24420 PANAMA AVE	TPH as Diesel	mg/kg	2564	95UCL	1.3E+03	--	2E+00	--
24420 PANAMA AVE	TPH as Motor Oil	mg/kg	6463	95UCL	3.3E+03	--	2E+00	--
24420 PANAMA AVE	Xylenes, Total	µg/kg	0.298	95UCL	5.6E+05	--	5E-07	--
24421 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.253	95UCL	8.3E+04	--	3E-06	--
24421 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.049	Max	4.0E+03	1.6E+01	1E-05	3E-09
24421 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0774	95UCL	2.3E+02	--	3E-04	--
24421 PANAMA AVE	Benzene	µg/kg	0.245	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24421 PANAMA AVE	Naphthalene	mg/kg	0.0479	95UCL	1.5E+02	4.0E+00	3E-04	1E-08
24421 PANAMA AVE	Pyrene	mg/kg	0.559	95UCL	1.7E+03	--	3E-04	--
24421 PANAMA AVE	Toluene	µg/kg	0.26	Max	4.8E+06	--	5E-08	--
24421 PANAMA AVE	TPH as Diesel	mg/kg	659	95UCL	1.3E+03	--	5E-01	--
24421 PANAMA AVE	TPH as Gasoline	mg/kg	0.098	Max	7.6E+02	--	1E-04	--
24421 PANAMA AVE	TPH as Motor Oil	mg/kg	1814	95UCL	3.3E+03	--	6E-01	--
24422 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.228	95UCL	8.3E+04	--	3E-06	--
24422 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.034	Max	4.0E+03	1.6E+01	9E-06	2E-09
24422 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0188	95UCL	2.3E+02	--	8E-05	--
24422 MARBELLA AVE	Benzene	µg/kg	1.072	95UCL	6.7E+04	2.2E+02	2E-05	5E-09
24422 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.78	Max	1.2E+03	3.5E+01	6E-04	2E-08
24422 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.26	Max	2.3E+02	1.3E+00	1E-03	2E-07
24422 MARBELLA AVE	Ethylbenzene	µg/kg	0.18	Max	3.3E+06	4.8E+03	6E-08	4E-11
24422 MARBELLA AVE	Naphthalene	mg/kg	0.00645	95UCL	1.5E+02	4.0E+00	4E-05	2E-09
24422 MARBELLA AVE	Pyrene	mg/kg	0.185	95UCL	1.7E+03	--	1E-04	--
24422 MARBELLA AVE	Tetrachloroethene	µg/kg	0.27	Max	8.6E+04	5.5E+02	3E-06	5E-10
24422 MARBELLA AVE	Toluene	µg/kg	1.185	95UCL	4.8E+06	--	3E-07	--
24422 MARBELLA AVE	TPH as Diesel	mg/kg	1050	95UCL	1.3E+03	--	8E-01	--
24422 MARBELLA AVE	TPH as Gasoline	mg/kg	0.113	95UCL	7.6E+02	--	2E-04	--
24422 MARBELLA AVE	TPH as Motor Oil	mg/kg	1732	95UCL	3.3E+03	--	5E-01	--
24422 MARBELLA AVE	Xylenes, Total	µg/kg	0.427	95UCL	5.6E+05	--	8E-07	--
24422 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.21	Max	8.3E+04	--	3E-06	--
24422 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.00964	95UCL	2.3E+02	--	4E-05	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil <=2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24422 NEPTUNE AVE	Benzene	µg/kg	1.071	95UCL	6.7E+04	2.2E+02	2E-05	5E-09
24422 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.3	Max	1.2E+03	3.5E+01	3E-04	9E-09
24422 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.2	Max	2.3E+02	1.3E+00	9E-04	2E-07
24422 NEPTUNE AVE	Naphthalene	mg/kg	0.0019	Max	1.5E+02	4.0E+00	1E-05	5E-10
24422 NEPTUNE AVE	Pyrene	mg/kg	0.0288	95UCL	1.7E+03	--	2E-05	--
24422 NEPTUNE AVE	Toluene	µg/kg	1.349	95UCL	4.8E+06	--	3E-07	--
24422 NEPTUNE AVE	TPH as Diesel	mg/kg	384.2	95UCL	1.3E+03	--	3E-01	--
24422 NEPTUNE AVE	TPH as Motor Oil	mg/kg	682.9	95UCL	3.3E+03	--	2E-01	--
24422 NEPTUNE AVE	Xylenes, Total	µg/kg	0.36	Max	5.6E+05	--	7E-07	--
24422 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	7731	95UCL	8.3E+04	--	9E-02	--
24422 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	1000	Max	8.5E+04	--	1E-02	--
24422 RAVENNA AVE	1-Methylnaphthalene	mg/kg	17.41	95UCL	4.0E+03	1.6E+01	4E-03	1E-06
24422 RAVENNA AVE	2-Methylnaphthalene	mg/kg	28.14	95UCL	2.3E+02	--	1E-01	--
24422 RAVENNA AVE	Benzene	µg/kg	44.85	95UCL	6.7E+04	2.2E+02	7E-04	2E-07
24422 RAVENNA AVE	Bromomethane	µg/kg	0.78	Max	8.8E+03	--	9E-05	--
24422 RAVENNA AVE	Ethylbenzene	µg/kg	2300	Max	3.3E+06	4.8E+03	7E-04	5E-07
24422 RAVENNA AVE	Naphthalene	mg/kg	7.543	95UCL	1.5E+02	4.0E+00	5E-02	2E-06
24422 RAVENNA AVE	Pyrene	mg/kg	1.865	95UCL	1.7E+03	--	1E-03	--
24422 RAVENNA AVE	Toluene	µg/kg	13.91	95UCL	4.8E+06	--	3E-06	--
24422 RAVENNA AVE	TPH as Diesel	mg/kg	9047	95UCL	1.3E+03	--	7E+00	--
24422 RAVENNA AVE	TPH as Gasoline	mg/kg	800	Max	7.6E+02	--	1E+00	--
24422 RAVENNA AVE	TPH as Motor Oil	mg/kg	11229	95UCL	3.3E+03	--	3E+00	--
24422 RAVENNA AVE	Xylenes, Total	µg/kg	4500	Max	5.6E+05	--	8E-03	--
24423 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0076	Max	2.3E+02	--	3E-05	--
24423 MARBELLA AVE	Benzene	µg/kg	0.36	Max	6.7E+04	2.2E+02	5E-06	2E-09
24423 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.27	Max	1.2E+03	3.5E+01	2E-04	8E-09
24423 MARBELLA AVE	Bromomethane	µg/kg	3.4	Max	8.8E+03	--	4E-04	--
24423 MARBELLA AVE	Cobalt	mg/kg	12.1	Max	2.3E+01	3.1E+04	5E-01	4E-10
24423 MARBELLA AVE	Naphthalene	mg/kg	0.014	Max	1.5E+02	4.0E+00	9E-05	4E-09
24423 MARBELLA AVE	Pyrene	mg/kg	0.025	Max	1.7E+03	--	2E-05	--
24423 MARBELLA AVE	Toluene	µg/kg	1.1	Max	4.8E+06	--	2E-07	--
24423 MARBELLA AVE	TPH as Diesel	mg/kg	110	Max	1.3E+03	--	9E-02	--
24423 MARBELLA AVE	TPH as Gasoline	mg/kg	0.16	Max	7.6E+02	--	2E-04	--
24423 MARBELLA AVE	TPH as Motor Oil	mg/kg	240	Max	3.3E+03	--	7E-02	--
24423 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.16	Max	8.3E+04	--	2E-06	--
24423 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0058	Max	4.0E+03	1.6E+01	1E-06	4E-10
24423 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.00486	95UCL	2.3E+02	--	2E-05	--
24423 NEPTUNE AVE	Benzene	µg/kg	0.165	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24423 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1.1	Max	1.2E+03	3.5E+01	9E-04	3E-08
24423 NEPTUNE AVE	Bromodichloromethane	µg/kg	0.12	Max	4.3E+05	4.9E+02	3E-07	3E-10
24423 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.53	Max	2.3E+02	1.3E+00	2E-03	4E-07
24423 NEPTUNE AVE	Naphthalene	mg/kg	0.00489	95UCL	1.5E+02	4.0E+00	3E-05	1E-09
24423 NEPTUNE AVE	Pyrene	mg/kg	0.0162	95UCL	1.7E+03	--	1E-05	--
24423 NEPTUNE AVE	Toluene	µg/kg	0.166	95UCL	4.8E+06	--	4E-08	--
24423 NEPTUNE AVE	TPH as Diesel	mg/kg	122.9	95UCL	1.3E+03	--	1E-01	--
24423 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.116	95UCL	7.6E+02	--	2E-04	--
24423 NEPTUNE AVE	TPH as Motor Oil	mg/kg	374.8	95UCL	3.3E+03	--	1E-01	--
24423 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.198	95UCL	8.3E+04	--	2E-06	--
24423 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	4.4	Max	8.5E+04	--	5E-05	--
24423 RAVENNA AVE	1,4-Dichlorobenzene	µg/kg	0.14	Max	3.6E+06	2.8E+03	4E-08	5E-11
24423 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00677	95UCL	4.0E+03	1.6E+01	2E-06	4E-10
24423 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.011	95UCL	2.3E+02	--	5E-05	--
24423 RAVENNA AVE	Benzene	µg/kg	0.193	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24423 RAVENNA AVE	Bromomethane	µg/kg	2.9	Max	8.8E+03	--	3E-04	--
24423 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.34	Max	2.3E+02	1.3E+00	1E-03	3E-07
24423 RAVENNA AVE	Cobalt	mg/kg	8.388	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24423 RAVENNA AVE	Ethylbenzene	µg/kg	6.673	95UCL	3.3E+06	4.8E+03	2E-06	1E-09
24423 RAVENNA AVE	Naphthalene	mg/kg	0.00795	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24423 RAVENNA AVE	Pyrene	mg/kg	0.0339	95UCL	1.7E+03	--	2E-05	--
24423 RAVENNA AVE	Toluene	µg/kg	0.313	95UCL	4.8E+06	--	7E-08	--
24423 RAVENNA AVE	TPH as Diesel	mg/kg	343.4	95UCL	1.3E+03	--	3E-01	--
24423 RAVENNA AVE	TPH as Gasoline	mg/kg	0.0986	95UCL	7.6E+02	--	1E-04	--

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil <=2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24423 RAVENNA AVE	TPH as Motor Oil	mg/kg	559.8	95UCL	3.3E+03	--	2E-01	--
24423 RAVENNA AVE	Xylenes, Total	µg/kg	34.58	95UCL	5.6E+05	--	6E-05	--
24426 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.15	Max	8.3E+04	--	2E-06	--
24426 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.031	Max	4.0E+03	1.6E+01	8E-06	2E-09
24426 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0386	95UCL	2.3E+02	--	2E-04	--
24426 MARBELLA AVE	Benzene	µg/kg	0.26	Max	6.7E+04	2.2E+02	4E-06	1E-09
24426 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.42	Max	2.3E+02	1.3E+00	2E-03	3E-07
24426 MARBELLA AVE	Naphthalene	mg/kg	0.027	Max	1.5E+02	4.0E+00	2E-04	7E-09
24426 MARBELLA AVE	Pyrene	mg/kg	0.15	95UCL	1.7E+03	--	9E-05	--
24426 MARBELLA AVE	Toluene	µg/kg	0.28	Max	4.8E+06	--	6E-08	--
24426 MARBELLA AVE	TPH as Diesel	mg/kg	783.3	95UCL	1.3E+03	--	6E-01	--
24426 MARBELLA AVE	TPH as Gasoline	mg/kg	0.073	Max	7.6E+02	--	1E-04	--
24426 MARBELLA AVE	TPH as Motor Oil	mg/kg	2148	95UCL	3.3E+03	--	7E-01	--
24426 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.377	95UCL	8.3E+04	--	5E-06	--
24426 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0095	Max	2.3E+02	--	4E-05	--
24426 NEPTUNE AVE	Benzene	µg/kg	0.485	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24426 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.27	Max	1.2E+03	3.5E+01	2E-04	8E-09
24426 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.31	Max	2.3E+02	1.3E+00	1E-03	2E-07
24426 NEPTUNE AVE	Cobalt	mg/kg	10.4	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24426 NEPTUNE AVE	Pyrene	mg/kg	0.0657	95UCL	1.7E+03	--	4E-05	--
24426 NEPTUNE AVE	Toluene	µg/kg	0.489	95UCL	4.8E+06	--	1E-07	--
24426 NEPTUNE AVE	TPH as Diesel	mg/kg	76.7	95UCL	1.3E+03	--	6E-02	--
24426 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.111	95UCL	7.6E+02	--	2E-04	--
24426 NEPTUNE AVE	TPH as Motor Oil	mg/kg	345.3	95UCL	3.3E+03	--	1E-01	--
24426 NEPTUNE AVE	Xylenes, Total	µg/kg	0.61	Max	5.6E+05	--	1E-06	--
24426 PANAMA AVE	1,4-Dichlorobenzene	µg/kg	0.33	Max	3.6E+06	2.8E+03	9E-08	1E-10
24426 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.003	Max	4.0E+03	1.6E+01	8E-07	2E-10
24426 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0528	95UCL	2.3E+02	--	2E-04	--
24426 PANAMA AVE	Benzene	µg/kg	0.335	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24426 PANAMA AVE	Cobalt	mg/kg	9.493	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24426 PANAMA AVE	Naphthalene	mg/kg	0.0159	95UCL	1.5E+02	4.0E+00	1E-04	4E-09
24426 PANAMA AVE	Pyrene	mg/kg	0.151	95UCL	1.7E+03	--	9E-05	--
24426 PANAMA AVE	Toluene	µg/kg	0.359	95UCL	4.8E+06	--	8E-08	--
24426 PANAMA AVE	TPH as Diesel	mg/kg	1745	95UCL	1.3E+03	--	1E+00	--
24426 PANAMA AVE	TPH as Gasoline	mg/kg	0.125	95UCL	7.6E+02	--	2E-04	--
24426 PANAMA AVE	TPH as Motor Oil	mg/kg	3688	95UCL	3.3E+03	--	1E+00	--
24426 PANAMA AVE	Xylenes, Total	µg/kg	0.59	Max	5.6E+05	--	1E-06	--
24426 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.611	95UCL	8.3E+04	--	7E-06	--
24426 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	0.17	Max	8.5E+04	--	2E-06	--
24426 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0358	95UCL	4.0E+03	1.6E+01	9E-06	2E-09
24426 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.123	95UCL	2.3E+02	--	5E-04	--
24426 RAVENNA AVE	Benzene	µg/kg	0.254	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24426 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.21	Max	1.2E+03	3.5E+01	2E-04	6E-09
24426 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.385	95UCL	2.3E+02	1.3E+00	2E-03	3E-07
24426 RAVENNA AVE	Cobalt	mg/kg	9.428	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24426 RAVENNA AVE	Ethylbenzene	µg/kg	0.5	Max	3.3E+06	4.8E+03	2E-07	1E-10
24426 RAVENNA AVE	Naphthalene	mg/kg	0.0477	95UCL	1.5E+02	4.0E+00	3E-04	1E-08
24426 RAVENNA AVE	Pyrene	mg/kg	0.368	95UCL	1.7E+03	--	2E-04	--
24426 RAVENNA AVE	Toluene	µg/kg	0.344	95UCL	4.8E+06	--	7E-08	--
24426 RAVENNA AVE	TPH as Diesel	mg/kg	480.4	95UCL	1.3E+03	--	4E-01	--
24426 RAVENNA AVE	TPH as Gasoline	mg/kg	0.16	Max	7.6E+02	--	2E-04	--
24426 RAVENNA AVE	TPH as Motor Oil	mg/kg	1211	95UCL	3.3E+03	--	4E-01	--
24426 RAVENNA AVE	Xylenes, Total	µg/kg	0.411	95UCL	5.6E+05	--	7E-07	--
24427 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.023	Max	2.3E+02	--	1E-04	--
24427 MARBELLA AVE	Benzene	µg/kg	0.226	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24427 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.2	Max	1.2E+03	3.5E+01	2E-04	6E-09
24427 MARBELLA AVE	Cobalt	mg/kg	13.39	95UCL	2.3E+01	3.1E+04	6E-01	4E-10
24427 MARBELLA AVE	Naphthalene	mg/kg	0.0094	Max	1.5E+02	4.0E+00	6E-05	2E-09
24427 MARBELLA AVE	Pyrene	mg/kg	0.0627	95UCL	1.7E+03	--	4E-05	--
24427 MARBELLA AVE	Tetrachloroethene	µg/kg	7.558	95UCL	8.6E+04	5.5E+02	9E-05	1E-08
24427 MARBELLA AVE	Toluene	µg/kg	0.232	95UCL	4.8E+06	--	5E-08	--
24427 MARBELLA AVE	TPH as Diesel	mg/kg	83.83	95UCL	1.3E+03	--	6E-02	--

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil <=2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24427 MARBELLA AVE	TPH as Gasoline	mg/kg	0.12	Max	7.6E+02	--	2E-04	--
24427 MARBELLA AVE	TPH as Motor Oil	mg/kg	205.9	95UCL	3.3E+03	--	6E-02	--
24427 MARBELLA AVE	Trichloroethene	µg/kg	0.25	Max	5.8E+03	1.2E+03	4E-05	2E-10
24427 MARBELLA AVE	Vanadium	mg/kg	45.17	95UCL	3.9E+02	--	1E-01	--
24427 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.198	95UCL	8.3E+04	--	2E-06	--
24427 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0015	Max	4.0E+03	1.6E+01	4E-07	1E-10
24427 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.00675	95UCL	2.3E+02	--	3E-05	--
24427 PANAMA AVE	Benzene	µg/kg	0.168	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24427 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.38	Max	1.2E+03	3.5E+01	3E-04	1E-08
24427 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.56	Max	2.3E+02	1.3E+00	2E-03	4E-07
24427 PANAMA AVE	Cobalt	mg/kg	9.633	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24427 PANAMA AVE	Naphthalene	mg/kg	0.00207	95UCL	1.5E+02	4.0E+00	1E-05	5E-10
24427 PANAMA AVE	Pyrene	mg/kg	0.0886	95UCL	1.7E+03	--	5E-05	--
24427 PANAMA AVE	Toluene	µg/kg	0.21	95UCL	4.8E+06	--	4E-08	--
24427 PANAMA AVE	TPH as Diesel	mg/kg	237.6	95UCL	1.3E+03	--	2E-01	--
24427 PANAMA AVE	TPH as Gasoline	mg/kg	0.15	Max	7.6E+02	--	2E-04	--
24427 PANAMA AVE	TPH as Motor Oil	mg/kg	619.4	95UCL	3.3E+03	--	2E-01	--
24427 PANAMA AVE	Xylenes, Total	µg/kg	0.34	Max	5.6E+05	--	6E-07	--
24429 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.663	95UCL	8.3E+04	--	8E-06	--
24429 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0084	Max	2.3E+02	--	4E-05	--
24429 NEPTUNE AVE	Benzene	µg/kg	0.26	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24429 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.31	Max	2.3E+02	1.3E+00	1E-03	2E-07
24429 NEPTUNE AVE	Ethylbenzene	µg/kg	0.27	Max	3.3E+06	4.8E+03	8E-08	6E-11
24429 NEPTUNE AVE	Naphthalene	mg/kg	0.0019	Max	1.5E+02	4.0E+00	1E-05	5E-10
24429 NEPTUNE AVE	Pyrene	mg/kg	0.0439	95UCL	1.7E+03	--	3E-05	--
24429 NEPTUNE AVE	Tetrachloroethene	µg/kg	0.17	Max	8.6E+04	5.5E+02	2E-06	3E-10
24429 NEPTUNE AVE	Toluene	µg/kg	0.318	95UCL	4.8E+06	--	7E-08	--
24429 NEPTUNE AVE	TPH as Diesel	mg/kg	355.5	95UCL	1.3E+03	--	3E-01	--
24429 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.091	Max	7.6E+02	--	1E-04	--
24429 NEPTUNE AVE	TPH as Motor Oil	mg/kg	697.7	95UCL	3.3E+03	--	2E-01	--
24429 NEPTUNE AVE	Xylenes, Total	µg/kg	0.59	Max	5.6E+05	--	1E-06	--
24429 RAVENNA AVE	1,1,2,2-Tetrachloroethane	µg/kg	0.48	Max	6.2E+05	4.7E+02	8E-07	1E-09
24429 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.43	Max	8.3E+04	--	5E-06	--
24429 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0583	95UCL	4.0E+03	1.6E+01	2E-05	4E-09
24429 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0418	95UCL	2.3E+02	--	2E-04	--
24429 RAVENNA AVE	Benzene	µg/kg	0.268	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24429 RAVENNA AVE	Naphthalene	mg/kg	0.0265	95UCL	1.5E+02	4.0E+00	2E-04	7E-09
24429 RAVENNA AVE	Pyrene	mg/kg	0.353	95UCL	1.7E+03	--	2E-04	--
24429 RAVENNA AVE	Toluene	µg/kg	0.309	95UCL	4.8E+06	--	6E-08	--
24429 RAVENNA AVE	TPH as Diesel	mg/kg	1205	95UCL	1.3E+03	--	9E-01	--
24429 RAVENNA AVE	TPH as Gasoline	mg/kg	0.113	95UCL	7.6E+02	--	2E-04	--
24429 RAVENNA AVE	TPH as Motor Oil	mg/kg	1659	95UCL	3.3E+03	--	5E-01	--
24429 RAVENNA AVE	Xylenes, Total	µg/kg	0.43	Max	5.6E+05	--	8E-07	--
24430 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0024	Max	4.0E+03	1.6E+01	6E-07	2E-10
24430 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.022	95UCL	2.3E+02	--	1E-04	--
24430 PANAMA AVE	Benzene	µg/kg	0.201	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24430 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.22	Max	1.2E+03	3.5E+01	2E-04	6E-09
24430 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.488	95UCL	2.3E+02	1.3E+00	2E-03	4E-07
24430 PANAMA AVE	Naphthalene	mg/kg	0.00754	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24430 PANAMA AVE	Pyrene	mg/kg	0.0752	95UCL	1.7E+03	--	4E-05	--
24430 PANAMA AVE	Toluene	µg/kg	0.5	95UCL	4.8E+06	--	1E-07	--
24430 PANAMA AVE	TPH as Diesel	mg/kg	61.69	95UCL	1.3E+03	--	5E-02	--
24430 PANAMA AVE	TPH as Gasoline	mg/kg	0.0824	95UCL	7.6E+02	--	1E-04	--
24430 PANAMA AVE	TPH as Motor Oil	mg/kg	163.3	95UCL	3.3E+03	--	5E-02	--
24430 PANAMA AVE	Xylenes, Total	µg/kg	0.29	Max	5.6E+05	--	5E-07	--
24431 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.547	95UCL	8.3E+04	--	7E-06	--
24431 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.004	Max	4.0E+03	1.6E+01	1E-06	3E-10
24431 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0455	95UCL	2.3E+02	--	2E-04	--
24431 PANAMA AVE	Benzene	µg/kg	0.544	95UCL	6.7E+04	2.2E+02	8E-06	3E-09
24431 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.6	Max	2.3E+02	1.3E+00	3E-03	5E-07
24431 PANAMA AVE	Cobalt	mg/kg	9.651	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24431 PANAMA AVE	Ethylbenzene	µg/kg	0.2	Max	3.3E+06	4.8E+03	6E-08	4E-11

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil ≤2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24431 PANAMA AVE	Naphthalene	mg/kg	0.0134	95UCL	1.5E+02	4.0E+00	9E-05	3E-09
24431 PANAMA AVE	Pyrene	mg/kg	0.0799	95UCL	1.7E+03	--	5E-05	--
24431 PANAMA AVE	Tetrachloroethene	µg/kg	8.3	Max	8.6E+04	5.5E+02	1E-04	2E-08
24431 PANAMA AVE	Toluene	µg/kg	0.374	95UCL	4.8E+06	--	8E-08	--
24431 PANAMA AVE	TPH as Diesel	mg/kg	1167	95UCL	1.3E+03	--	9E-01	--
24431 PANAMA AVE	TPH as Gasoline	mg/kg	0.124	95UCL	7.6E+02	--	2E-04	--
24431 PANAMA AVE	TPH as Motor Oil	mg/kg	3533	95UCL	3.3E+03	--	1E+00	--
24431 PANAMA AVE	Trichloroethene	µg/kg	0.4	Max	5.8E+03	1.2E+03	7E-05	3E-10
24431 PANAMA AVE	Xylenes, Total	µg/kg	1	Max	5.6E+05	--	2E-06	--
24432 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.63	Max	8.3E+04	--	8E-06	--
24432 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.11	Max	8.5E+04	--	1E-06	--
24432 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.349	95UCL	4.0E+03	1.6E+01	9E-05	2E-08
24432 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.5	95UCL	2.3E+02	--	2E-03	--
24432 MARBELLA AVE	Benzene	µg/kg	0.217	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24432 MARBELLA AVE	Ethylbenzene	µg/kg	1.7	Max	3.3E+06	4.8E+03	5E-07	4E-10
24432 MARBELLA AVE	Naphthalene	mg/kg	0.151	95UCL	1.5E+02	4.0E+00	1E-03	4E-08
24432 MARBELLA AVE	Pyrene	mg/kg	0.106	95UCL	1.7E+03	--	6E-05	--
24432 MARBELLA AVE	Toluene	µg/kg	0.51	95UCL	4.8E+06	--	1E-07	--
24432 MARBELLA AVE	TPH as Diesel	mg/kg	708.2	95UCL	1.3E+03	--	5E-01	--
24432 MARBELLA AVE	TPH as Gasoline	mg/kg	45.21	95UCL	7.6E+02	--	6E-02	--
24432 MARBELLA AVE	TPH as Motor Oil	mg/kg	1496	95UCL	3.3E+03	--	5E-01	--
24432 MARBELLA AVE	Trichloroethene	µg/kg	0.19	Max	5.8E+03	1.2E+03	3E-05	2E-10
24432 MARBELLA AVE	Xylenes, Total	µg/kg	0.306	95UCL	5.6E+05	--	6E-07	--
24433 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	28	Max	8.3E+04	--	3E-04	--
24433 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.21	Max	8.5E+04	--	3E-06	--
24433 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.059	Max	4.0E+03	1.6E+01	2E-05	4E-09
24433 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0195	95UCL	2.3E+02	--	9E-05	--
24433 MARBELLA AVE	Benzene	µg/kg	0.16	Max	6.7E+04	2.2E+02	2E-06	7E-10
24433 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.48	Max	2.3E+02	1.3E+00	2E-03	4E-07
24433 MARBELLA AVE	Cobalt	mg/kg	12.6	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24433 MARBELLA AVE	Ethylbenzene	µg/kg	0.64	Max	3.3E+06	4.8E+03	2E-07	1E-10
24433 MARBELLA AVE	Naphthalene	mg/kg	0.0968	95UCL	1.5E+02	4.0E+00	6E-04	2E-08
24433 MARBELLA AVE	Pyrene	mg/kg	0.0833	95UCL	1.7E+03	--	5E-05	--
24433 MARBELLA AVE	Tetrachloroethene	µg/kg	8305	95UCL	8.6E+04	5.5E+02	1E-01	2E-05
24433 MARBELLA AVE	Toluene	µg/kg	87	Max	4.8E+06	--	2E-05	--
24433 MARBELLA AVE	TPH as Diesel	mg/kg	7095	95UCL	1.3E+03	--	6E+00	--
24433 MARBELLA AVE	TPH as Gasoline	mg/kg	0.19	Max	7.6E+02	--	3E-04	--
24433 MARBELLA AVE	TPH as Motor Oil	mg/kg	15451	95UCL	3.3E+03	--	5E+00	--
24433 MARBELLA AVE	Trichloroethene	µg/kg	140	Max	5.8E+03	1.2E+03	2E-02	1E-07
24433 MARBELLA AVE	Vanadium	mg/kg	39.61	95UCL	3.9E+02	--	1E-01	--
24433 MARBELLA AVE	Xylenes, Total	µg/kg	100	Max	5.6E+05	--	2E-04	--
24436 PANAMA AVE	1,2,3-Trichloropropane	µg/kg	0.61	Max	2.4E+03	2.1E+01	3E-04	3E-08
24436 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.27	95UCL	8.3E+04	--	3E-06	--
24436 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0061	Max	4.0E+03	1.6E+01	2E-06	4E-10
24436 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0103	95UCL	2.3E+02	--	5E-05	--
24436 PANAMA AVE	Benzene	µg/kg	0.26	Max	6.7E+04	2.2E+02	4E-06	1E-09
24436 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.45	Max	1.2E+03	3.5E+01	4E-04	1E-08
24436 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.424	95UCL	2.3E+02	1.3E+00	2E-03	3E-07
24436 PANAMA AVE	Naphthalene	mg/kg	0.00512	95UCL	1.5E+02	4.0E+00	3E-05	1E-09
24436 PANAMA AVE	Pyrene	mg/kg	0.0373	95UCL	1.7E+03	--	2E-05	--
24436 PANAMA AVE	Toluene	µg/kg	0.237	95UCL	4.8E+06	--	5E-08	--
24436 PANAMA AVE	TPH as Diesel	mg/kg	37.31	95UCL	1.3E+03	--	3E-02	--
24436 PANAMA AVE	TPH as Gasoline	mg/kg	0.087	Max	7.6E+02	--	1E-04	--
24436 PANAMA AVE	TPH as Motor Oil	mg/kg	113.4	95UCL	3.3E+03	--	3E-02	--
24436 PANAMA AVE	Xylenes, Total	µg/kg	0.2	Max	5.6E+05	--	4E-07	--
24502 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.808	95UCL	8.3E+04	--	1E-05	--
24502 MARBELLA AVE	1,4-Dichlorobenzene	µg/kg	0.17	Max	3.6E+06	2.8E+03	5E-08	6E-11
24502 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.88	Max	4.0E+03	1.6E+01	2E-04	6E-08
24502 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.294	95UCL	2.3E+02	--	1E-03	--
24502 MARBELLA AVE	Benzene	µg/kg	0.33	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24502 MARBELLA AVE	Bromodichloromethane	µg/kg	0.19	Max	4.3E+05	4.9E+02	4E-07	4E-10
24502 MARBELLA AVE	Bromomethane	µg/kg	2.4	Max	8.8E+03	--	3E-04	--

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$  2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24502 MARBELLA AVE	Cobalt	mg/kg	9.595	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24502 MARBELLA AVE	Ethylbenzene	µg/kg	0.931	95UCL	3.3E+06	4.8E+03	3E-07	2E-10
24502 MARBELLA AVE	Naphthalene	mg/kg	0.0367	95UCL	1.5E+02	4.0E+00	2E-04	9E-09
24502 MARBELLA AVE	Pyrene	mg/kg	0.263	95UCL	1.7E+03	--	2E-04	--
24502 MARBELLA AVE	Toluene	µg/kg	0.3	95UCL	4.8E+06	--	6E-08	--
24502 MARBELLA AVE	TPH as Diesel	mg/kg	720.1	95UCL	1.3E+03	--	6E-01	--
24502 MARBELLA AVE	TPH as Gasoline	mg/kg	0.249	95UCL	7.6E+02	--	3E-04	--
24502 MARBELLA AVE	TPH as Motor Oil	mg/kg	1374	95UCL	3.3E+03	--	4E-01	--
24502 MARBELLA AVE	Xylenes, Total	µg/kg	0.615	95UCL	5.6E+05	--	1E-06	--
24502 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.208	95UCL	8.3E+04	--	3E-06	--
24502 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00423	95UCL	4.0E+03	1.6E+01	1E-06	3E-10
24502 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0126	95UCL	2.3E+02	--	6E-05	--
24502 NEPTUNE AVE	Benzene	µg/kg	0.153	95UCL	6.7E+04	2.2E+02	2E-06	7E-10
24502 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.52	Max	2.3E+02	1.3E+00	2E-03	4E-07
24502 NEPTUNE AVE	Naphthalene	mg/kg	0.00783	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24502 NEPTUNE AVE	Pyrene	mg/kg	0.0371	95UCL	1.7E+03	--	2E-05	--
24502 NEPTUNE AVE	Toluene	µg/kg	0.16	95UCL	4.8E+06	--	3E-08	--
24502 NEPTUNE AVE	TPH as Diesel	mg/kg	339.8	95UCL	1.3E+03	--	3E-01	--
24502 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.0963	95UCL	7.6E+02	--	1E-04	--
24502 NEPTUNE AVE	TPH as Motor Oil	mg/kg	620.8	95UCL	3.3E+03	--	2E-01	--
24502 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.00294	95UCL	4.0E+03	1.6E+01	7E-07	2E-10
24502 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.00395	95UCL	2.3E+02	--	2E-05	--
24502 PANAMA AVE	Benzene	µg/kg	0.203	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24502 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.17	Max	1.2E+03	3.5E+01	1E-04	5E-09
24502 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.306	95UCL	2.3E+02	1.3E+00	1E-03	2E-07
24502 PANAMA AVE	Naphthalene	mg/kg	0.00162	95UCL	1.5E+02	4.0E+00	1E-05	4E-10
24502 PANAMA AVE	Pyrene	mg/kg	0.0062	95UCL	1.7E+03	--	4E-06	--
24502 PANAMA AVE	Toluene	µg/kg	0.224	95UCL	4.8E+06	--	5E-08	--
24502 PANAMA AVE	TPH as Diesel	mg/kg	43	Max	1.3E+03	--	3E-02	--
24502 PANAMA AVE	TPH as Gasoline	mg/kg	0.107	95UCL	7.6E+02	--	1E-04	--
24502 PANAMA AVE	TPH as Motor Oil	mg/kg	31.66	95UCL	3.3E+03	--	1E-02	--
24502 PANAMA AVE	Xylenes, Total	µg/kg	0.23	Max	5.6E+05	--	4E-07	--
24502 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0057	Max	4.0E+03	1.6E+01	1E-06	4E-10
24502 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.00893	95UCL	2.3E+02	--	4E-05	--
24502 RAVENNA AVE	Benzene	µg/kg	0.23	Max	6.7E+04	2.2E+02	3E-06	1E-09
24502 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.68	Max	2.3E+02	1.3E+00	3E-03	5E-07
24502 RAVENNA AVE	Naphthalene	mg/kg	0.00643	95UCL	1.5E+02	4.0E+00	4E-05	2E-09
24502 RAVENNA AVE	Pyrene	mg/kg	0.241	95UCL	1.7E+03	--	1E-04	--
24502 RAVENNA AVE	Toluene	µg/kg	0.17	Max	4.8E+06	--	4E-08	--
24502 RAVENNA AVE	TPH as Diesel	mg/kg	475.4	95UCL	1.3E+03	--	4E-01	--
24502 RAVENNA AVE	TPH as Gasoline	mg/kg	0.147	95UCL	7.6E+02	--	2E-04	--
24502 RAVENNA AVE	TPH as Motor Oil	mg/kg	1115	95UCL	3.3E+03	--	3E-01	--
24503 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.27	Max	8.3E+04	--	3E-06	--
24503 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0027	Max	2.3E+02	--	1E-05	--
24503 MARBELLA AVE	Benzene	µg/kg	0.204	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24503 MARBELLA AVE	Cobalt	mg/kg	12.29	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24503 MARBELLA AVE	Naphthalene	mg/kg	0.00751	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24503 MARBELLA AVE	Pyrene	mg/kg	0.0432	95UCL	1.7E+03	--	3E-05	--
24503 MARBELLA AVE	Tetrachloroethene	µg/kg	2.753	95UCL	8.6E+04	5.5E+02	3E-05	5E-09
24503 MARBELLA AVE	Toluene	µg/kg	0.331	95UCL	4.8E+06	--	7E-08	--
24503 MARBELLA AVE	TPH as Diesel	mg/kg	99.2	95UCL	1.3E+03	--	8E-02	--
24503 MARBELLA AVE	TPH as Gasoline	mg/kg	0.075	Max	7.6E+02	--	1E-04	--
24503 MARBELLA AVE	TPH as Motor Oil	mg/kg	263.9	95UCL	3.3E+03	--	8E-02	--
24503 MARBELLA AVE	Trichloroethene	µg/kg	0.26	Max	5.8E+03	1.2E+03	5E-05	2E-10
24503 MARBELLA AVE	Vanadium	mg/kg	42.21	95UCL	3.9E+02	--	1E-01	--
24503 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.28	Max	8.3E+04	--	3E-06	--
24503 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0018	Max	4.0E+03	1.6E+01	5E-07	1E-10
24503 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.00766	95UCL	2.3E+02	--	3E-05	--
24503 NEPTUNE AVE	Benzene	µg/kg	0.182	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24503 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.69	Max	1.2E+03	3.5E+01	6E-04	2E-08
24503 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.26	Max	2.3E+02	1.3E+00	1E-03	2E-07
24503 NEPTUNE AVE	Ethylbenzene	µg/kg	0.58	Max	3.3E+06	4.8E+03	2E-07	1E-10

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$  2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24503 NEPTUNE AVE	Naphthalene	mg/kg	0.00196	95UCL	1.5E+02	4.0E+00	1E-05	5E-10
24503 NEPTUNE AVE	Pyrene	mg/kg	0.121	95UCL	1.7E+03	--	7E-05	--
24503 NEPTUNE AVE	Toluene	µg/kg	0.188	95UCL	4.8E+06	--	4E-08	--
24503 NEPTUNE AVE	TPH as Diesel	mg/kg	212	95UCL	1.3E+03	--	2E-01	--
24503 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.21	Max	7.6E+02	--	3E-04	--
24503 NEPTUNE AVE	TPH as Motor Oil	mg/kg	621.1	95UCL	3.3E+03	--	2E-01	--
24503 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.00325	95UCL	2.3E+02	--	1E-05	--
24503 PANAMA AVE	Benzene	µg/kg	0.55	Max	6.7E+04	2.2E+02	8E-06	3E-09
24503 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.26	Max	1.2E+03	3.5E+01	2E-04	8E-09
24503 PANAMA AVE	Naphthalene	mg/kg	0.00172	95UCL	1.5E+02	4.0E+00	1E-05	4E-10
24503 PANAMA AVE	Pyrene	mg/kg	0.326	95UCL	1.7E+03	--	2E-04	--
24503 PANAMA AVE	Toluene	µg/kg	0.293	95UCL	4.8E+06	--	6E-08	--
24503 PANAMA AVE	TPH as Diesel	mg/kg	1746	95UCL	1.3E+03	--	1E+00	--
24503 PANAMA AVE	TPH as Gasoline	mg/kg	0.13	Max	7.6E+02	--	2E-04	--
24503 PANAMA AVE	TPH as Motor Oil	mg/kg	2314	95UCL	3.3E+03	--	7E-01	--
24503 PANAMA AVE	Xylenes, Total	µg/kg	0.28	Max	5.6E+05	--	5E-07	--
24503 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	1.1	Max	8.3E+04	--	1E-05	--
24503 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0056	Max	4.0E+03	1.6E+01	1E-06	4E-10
24503 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0154	95UCL	2.3E+02	--	7E-05	--
24503 RAVENNA AVE	Benzene	µg/kg	0.43	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24503 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.18	Max	1.2E+03	3.5E+01	2E-04	5E-09
24503 RAVENNA AVE	Ethylbenzene	µg/kg	0.46	Max	3.3E+06	4.8E+03	1E-07	1E-10
24503 RAVENNA AVE	Methylene Chloride	µg/kg	3	Max	3.6E+05	5.3E+03	8E-06	6E-10
24503 RAVENNA AVE	Naphthalene	mg/kg	0.0296	95UCL	1.5E+02	4.0E+00	2E-04	8E-09
24503 RAVENNA AVE	Pyrene	mg/kg	0.0978	95UCL	1.7E+03	--	6E-05	--
24503 RAVENNA AVE	Toluene	µg/kg	1.493	95UCL	4.8E+06	--	3E-07	--
24503 RAVENNA AVE	TPH as Diesel	mg/kg	188.3	95UCL	1.3E+03	--	1E-01	--
24503 RAVENNA AVE	TPH as Gasoline	mg/kg	0.449	95UCL	7.6E+02	--	6E-04	--
24503 RAVENNA AVE	TPH as Motor Oil	mg/kg	381.9	95UCL	3.3E+03	--	1E-01	--
24503 RAVENNA AVE	Xylenes, Total	µg/kg	0.798	95UCL	5.6E+05	--	1E-06	--
24506 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.34	Max	8.3E+04	--	4E-06	--
24506 MARBELLA AVE	1,4-Dichlorobenzene	µg/kg	0.19	Max	3.6E+06	2.8E+03	5E-08	7E-11
24506 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.00734	95UCL	4.0E+03	1.6E+01	2E-06	5E-10
24506 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0252	95UCL	2.3E+02	--	1E-04	--
24506 MARBELLA AVE	Benzene	µg/kg	0.31	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
24506 MARBELLA AVE	Bromomethane	µg/kg	1.1	Max	8.8E+03	--	1E-04	--
24506 MARBELLA AVE	Cobalt	mg/kg	10.22	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24506 MARBELLA AVE	Naphthalene	mg/kg	0.0129	95UCL	1.5E+02	4.0E+00	9E-05	3E-09
24506 MARBELLA AVE	Pyrene	mg/kg	0.0488	95UCL	1.7E+03	--	3E-05	--
24506 MARBELLA AVE	Toluene	µg/kg	0.25	95UCL	4.8E+06	--	5E-08	--
24506 MARBELLA AVE	TPH as Diesel	mg/kg	355.7	95UCL	1.3E+03	--	3E-01	--
24506 MARBELLA AVE	TPH as Gasoline	mg/kg	0.074	Max	7.6E+02	--	1E-04	--
24506 MARBELLA AVE	TPH as Motor Oil	mg/kg	1135	95UCL	3.3E+03	--	3E-01	--
24506 MARBELLA AVE	Xylenes, Total	µg/kg	0.24	Max	5.6E+05	--	4E-07	--
24507 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.008	Max	4.0E+03	1.6E+01	2E-06	5E-10
24507 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0165	95UCL	2.3E+02	--	7E-05	--
24507 MARBELLA AVE	Benzene	µg/kg	0.294	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24507 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.26	Max	2.3E+02	1.3E+00	1E-03	2E-07
24507 MARBELLA AVE	Cobalt	mg/kg	14.05	95UCL	2.3E+01	3.1E+04	6E-01	5E-10
24507 MARBELLA AVE	Naphthalene	mg/kg	0.00656	95UCL	1.5E+02	4.0E+00	4E-05	2E-09
24507 MARBELLA AVE	Pyrene	mg/kg	0.146	95UCL	1.7E+03	--	9E-05	--
24507 MARBELLA AVE	Tetrachloroethene	µg/kg	2.778	95UCL	8.6E+04	5.5E+02	3E-05	5E-09
24507 MARBELLA AVE	Toluene	µg/kg	0.216	95UCL	4.8E+06	--	5E-08	--
24507 MARBELLA AVE	TPH as Diesel	mg/kg	135.3	95UCL	1.3E+03	--	1E-01	--
24507 MARBELLA AVE	TPH as Gasoline	mg/kg	0.079	Max	7.6E+02	--	1E-04	--
24507 MARBELLA AVE	TPH as Motor Oil	mg/kg	728.7	95UCL	3.3E+03	--	2E-01	--
24507 MARBELLA AVE	Trichloroethene	µg/kg	0.22	Max	5.8E+03	1.2E+03	4E-05	2E-10
24507 MARBELLA AVE	Vanadium	mg/kg	48.26	95UCL	3.9E+02	--	1E-01	--
24508 NEPTUNE AVE	1,4-Dichlorobenzene	µg/kg	200	Max	3.6E+06	2.8E+03	6E-05	7E-08
24508 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.12	Max	4.0E+03	1.6E+01	3E-05	8E-09
24508 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0744	95UCL	2.3E+02	--	3E-04	--
24508 NEPTUNE AVE	Benzene	µg/kg	0.579	95UCL	6.7E+04	2.2E+02	9E-06	3E-09

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq 2$  ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24508 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.32	Max	1.2E+03	3.5E+01	3E-04	9E-09
24508 NEPTUNE AVE	Naphthalene	mg/kg	0.0119	95UCL	1.5E+02	4.0E+00	8E-05	3E-09
24508 NEPTUNE AVE	Pyrene	mg/kg	0.518	95UCL	1.7E+03	--	3E-04	--
24508 NEPTUNE AVE	Toluene	µg/kg	0.255	95UCL	4.8E+06	--	5E-08	--
24508 NEPTUNE AVE	TPH as Diesel	mg/kg	1137	95UCL	1.3E+03	--	9E-01	--
24508 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.17	Max	7.6E+02	--	2E-04	--
24508 NEPTUNE AVE	TPH as Motor Oil	mg/kg	2929	95UCL	3.3E+03	--	9E-01	--
24508 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.004	Max	4.0E+03	1.6E+01	1E-06	3E-10
24508 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.00381	95UCL	2.3E+02	--	2E-05	--
24508 PANAMA AVE	Benzene	µg/kg	0.247	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24508 PANAMA AVE	Bromomethane	µg/kg	1.7	Max	8.8E+03	--	2E-04	--
24508 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.38	Max	2.3E+02	1.3E+00	2E-03	3E-07
24508 PANAMA AVE	Naphthalene	mg/kg	0.003	Max	1.5E+02	4.0E+00	2E-05	8E-10
24508 PANAMA AVE	Pyrene	mg/kg	0.00534	95UCL	1.7E+03	--	3E-06	--
24508 PANAMA AVE	Toluene	µg/kg	0.199	95UCL	4.8E+06	--	4E-08	--
24508 PANAMA AVE	TPH as Diesel	mg/kg	88	Max	1.3E+03	--	7E-02	--
24508 PANAMA AVE	TPH as Gasoline	mg/kg	0.075	Max	7.6E+02	--	1E-04	--
24508 PANAMA AVE	TPH as Motor Oil	mg/kg	280	Max	3.3E+03	--	9E-02	--
24508 PANAMA AVE	Trichloroethene	µg/kg	1.4	Max	5.8E+03	1.2E+03	2E-04	1E-09
24508 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.282	95UCL	8.3E+04	--	3E-06	--
24508 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	0.1	Max	8.5E+04	--	1E-06	--
24508 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00941	95UCL	4.0E+03	1.6E+01	2E-06	6E-10
24508 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0199	95UCL	2.3E+02	--	9E-05	--
24508 RAVENNA AVE	Benzene	µg/kg	0.184	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24508 RAVENNA AVE	Cobalt	mg/kg	8.795	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24508 RAVENNA AVE	Ethylbenzene	µg/kg	0.3	Max	3.3E+06	4.8E+03	9E-08	6E-11
24508 RAVENNA AVE	Naphthalene	mg/kg	0.0175	95UCL	1.5E+02	4.0E+00	1E-04	4E-09
24508 RAVENNA AVE	Pyrene	mg/kg	0.109	95UCL	1.7E+03	--	6E-05	--
24508 RAVENNA AVE	Toluene	µg/kg	0.168	95UCL	4.8E+06	--	4E-08	--
24508 RAVENNA AVE	TPH as Diesel	mg/kg	452.2	95UCL	1.3E+03	--	4E-01	--
24508 RAVENNA AVE	TPH as Gasoline	mg/kg	0.11	Max	7.6E+02	--	1E-04	--
24508 RAVENNA AVE	TPH as Motor Oil	mg/kg	841.6	95UCL	3.3E+03	--	3E-01	--
24508 RAVENNA AVE	Xylenes, Total	µg/kg	0.236	95UCL	5.6E+05	--	4E-07	--
24509 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.27	Max	8.3E+04	--	3E-06	--
24509 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0037	95UCL	4.0E+03	1.6E+01	9E-07	2E-10
24509 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0146	95UCL	2.3E+02	--	6E-05	--
24509 NEPTUNE AVE	Benzene	µg/kg	0.241	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24509 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.19	Max	1.2E+03	3.5E+01	2E-04	6E-09
24509 NEPTUNE AVE	Bromodichloromethane	µg/kg	0.24	Max	4.3E+05	4.9E+02	6E-07	5E-10
24509 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.37	Max	2.3E+02	1.3E+00	2E-03	3E-07
24509 NEPTUNE AVE	Naphthalene	mg/kg	0.00266	95UCL	1.5E+02	4.0E+00	2E-05	7E-10
24509 NEPTUNE AVE	Pyrene	mg/kg	0.104	95UCL	1.7E+03	--	6E-05	--
24509 NEPTUNE AVE	Toluene	µg/kg	0.317	95UCL	4.8E+06	--	7E-08	--
24509 NEPTUNE AVE	TPH as Diesel	mg/kg	611.5	95UCL	1.3E+03	--	5E-01	--
24509 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.134	95UCL	7.6E+02	--	2E-04	--
24509 NEPTUNE AVE	TPH as Motor Oil	mg/kg	1620	95UCL	3.3E+03	--	5E-01	--
24509 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	2.7	Max	8.3E+04	--	3E-05	--
24509 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.14	Max	8.5E+04	--	2E-06	--
24509 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.23	Max	4.0E+03	1.6E+01	6E-05	2E-08
24509 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0535	95UCL	2.3E+02	--	2E-04	--
24509 PANAMA AVE	Benzene	µg/kg	0.562	95UCL	6.7E+04	2.2E+02	8E-06	3E-09
24509 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.82	Max	1.2E+03	3.5E+01	7E-04	2E-08
24509 PANAMA AVE	Bromomethane	µg/kg	2.5	Max	8.8E+03	--	3E-04	--
24509 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.52	Max	2.3E+02	1.3E+00	2E-03	4E-07
24509 PANAMA AVE	Ethylbenzene	µg/kg	0.57	Max	3.3E+06	4.8E+03	2E-07	1E-10
24509 PANAMA AVE	Naphthalene	mg/kg	0.0029	95UCL	1.5E+02	4.0E+00	2E-05	7E-10
24509 PANAMA AVE	Pyrene	mg/kg	0.714	95UCL	1.7E+03	--	4E-04	--
24509 PANAMA AVE	Toluene	µg/kg	1.201	95UCL	4.8E+06	--	3E-07	--
24509 PANAMA AVE	TPH as Diesel	mg/kg	2479	95UCL	1.3E+03	--	2E+00	--
24509 PANAMA AVE	TPH as Gasoline	mg/kg	1.786	95UCL	7.6E+02	--	2E-03	--
24509 PANAMA AVE	TPH as Motor Oil	mg/kg	4481	95UCL	3.3E+03	--	1E+00	--
24509 PANAMA AVE	Xylenes, Total	µg/kg	0.498	95UCL	5.6E+05	--	9E-07	--

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$ 2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24509 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.319	95UCL	8.3E+04	--	4E-06	--
24509 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	0.098	Max	8.5E+04	--	1E-06	--
24509 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.054	Max	4.0E+03	1.6E+01	1E-05	4E-09
24509 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0822	95UCL	2.3E+02	--	4E-04	--
24509 RAVENNA AVE	Benzene	µg/kg	0.161	95UCL	6.7E+04	2.2E+02	2E-06	7E-10
24509 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.66	Max	1.2E+03	3.5E+01	5E-04	2E-08
24509 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.31	Max	2.3E+02	1.3E+00	1E-03	2E-07
24509 RAVENNA AVE	Ethylbenzene	µg/kg	0.16	Max	3.3E+06	4.8E+03	5E-08	3E-11
24509 RAVENNA AVE	Naphthalene	mg/kg	0.0166	95UCL	1.5E+02	4.0E+00	1E-04	4E-09
24509 RAVENNA AVE	Pyrene	mg/kg	0.263	95UCL	1.7E+03	--	2E-04	--
24509 RAVENNA AVE	Toluene	µg/kg	0.29	Max	4.8E+06	--	6E-08	--
24509 RAVENNA AVE	TPH as Diesel	mg/kg	298.4	95UCL	1.3E+03	--	2E-01	--
24509 RAVENNA AVE	TPH as Motor Oil	mg/kg	912.9	95UCL	3.3E+03	--	3E-01	--
24509 RAVENNA AVE	Xylenes, Total	µg/kg	0.29	Max	5.6E+05	--	5E-07	--
24512 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0557	95UCL	4.0E+03	1.6E+01	1E-05	4E-09
24512 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0723	95UCL	2.3E+02	--	3E-04	--
24512 MARBELLA AVE	Benzene	µg/kg	0.144	95UCL	6.7E+04	2.2E+02	2E-06	7E-10
24512 MARBELLA AVE	Bromomethane	µg/kg	2	Max	8.8E+03	--	2E-04	--
24512 MARBELLA AVE	Cobalt	mg/kg	11.06	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24512 MARBELLA AVE	Naphthalene	mg/kg	0.119	95UCL	1.5E+02	4.0E+00	8E-04	3E-08
24512 MARBELLA AVE	Pyrene	mg/kg	0.989	95UCL	1.7E+03	--	6E-04	--
24512 MARBELLA AVE	Toluene	µg/kg	0.162	95UCL	4.8E+06	--	3E-08	--
24512 MARBELLA AVE	TPH as Diesel	mg/kg	1246	95UCL	1.3E+03	--	1E+00	--
24512 MARBELLA AVE	TPH as Gasoline	mg/kg	0.0815	95UCL	7.6E+02	--	1E-04	--
24512 MARBELLA AVE	TPH as Motor Oil	mg/kg	2124	95UCL	3.3E+03	--	6E-01	--
24512 MARBELLA AVE	Vanadium	mg/kg	39.75	95UCL	3.9E+02	--	1E-01	--
24512 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.042	Max	4.0E+03	1.6E+01	1E-05	3E-09
24512 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0419	95UCL	2.3E+02	--	2E-04	--
24512 NEPTUNE AVE	Benzene	µg/kg	0.155	95UCL	6.7E+04	2.2E+02	2E-06	7E-10
24512 NEPTUNE AVE	Naphthalene	mg/kg	0.0034	Max	1.5E+02	4.0E+00	2E-05	9E-10
24512 NEPTUNE AVE	Pyrene	mg/kg	0.232	95UCL	1.7E+03	--	1E-04	--
24512 NEPTUNE AVE	TPH as Diesel	mg/kg	547.5	95UCL	1.3E+03	--	4E-01	--
24512 NEPTUNE AVE	TPH as Motor Oil	mg/kg	1027	95UCL	3.3E+03	--	3E-01	--
24512 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.11	Max	8.3E+04	--	1E-06	--
24512 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0039	Max	4.0E+03	1.6E+01	1E-06	3E-10
24512 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.00485	95UCL	2.3E+02	--	2E-05	--
24512 PANAMA AVE	Benzene	µg/kg	0.164	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24512 PANAMA AVE	Naphthalene	mg/kg	0.00549	95UCL	1.5E+02	4.0E+00	4E-05	1E-09
24512 PANAMA AVE	Pyrene	mg/kg	0.0168	95UCL	1.7E+03	--	1E-05	--
24512 PANAMA AVE	Toluene	µg/kg	0.201	95UCL	4.8E+06	--	4E-08	--
24512 PANAMA AVE	TPH as Diesel	mg/kg	45	Max	1.3E+03	--	4E-02	--
24512 PANAMA AVE	TPH as Gasoline	mg/kg	0.075	Max	7.6E+02	--	1E-04	--
24512 PANAMA AVE	TPH as Motor Oil	mg/kg	140	Max	3.3E+03	--	4E-02	--
24512 PANAMA AVE	Trichloroethene	µg/kg	0.3	Max	5.8E+03	1.2E+03	5E-05	3E-10
24512 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.172	95UCL	8.3E+04	--	2E-06	--
24512 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0216	95UCL	4.0E+03	1.6E+01	5E-06	1E-09
24512 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0415	95UCL	2.3E+02	--	2E-04	--
24512 RAVENNA AVE	Benzene	µg/kg	0.209	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24512 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.34	Max	2.3E+02	1.3E+00	1E-03	3E-07
24512 RAVENNA AVE	Naphthalene	mg/kg	0.013	95UCL	1.5E+02	4.0E+00	9E-05	3E-09
24512 RAVENNA AVE	Pyrene	mg/kg	0.0234	95UCL	1.7E+03	--	1E-05	--
24512 RAVENNA AVE	Toluene	µg/kg	0.193	95UCL	4.8E+06	--	4E-08	--
24512 RAVENNA AVE	TPH as Diesel	mg/kg	99.87	95UCL	1.3E+03	--	8E-02	--
24512 RAVENNA AVE	TPH as Gasoline	mg/kg	0.117	95UCL	7.6E+02	--	2E-04	--
24512 RAVENNA AVE	TPH as Motor Oil	mg/kg	244.3	95UCL	3.3E+03	--	7E-02	--
24513 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.853	95UCL	8.3E+04	--	1E-05	--
24513 NEPTUNE AVE	1,3,5-Trimethylbenzene	µg/kg	0.13	Max	8.5E+04	--	2E-06	--
24513 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0066	Max	4.0E+03	1.6E+01	2E-06	4E-10
24513 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0158	95UCL	2.3E+02	--	7E-05	--
24513 NEPTUNE AVE	Benzene	µg/kg	0.224	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24513 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.24	Max	2.3E+02	1.3E+00	1E-03	2E-07
24513 NEPTUNE AVE	Ethylbenzene	µg/kg	0.16	Max	3.3E+06	4.8E+03	5E-08	3E-11

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil <=2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24513 NEPTUNE AVE	Naphthalene	mg/kg	0.0237	95UCL	1.5E+02	4.0E+00	2E-04	6E-09
24513 NEPTUNE AVE	Pyrene	mg/kg	0.0508	95UCL	1.7E+03	--	3E-05	--
24513 NEPTUNE AVE	Toluene	µg/kg	0.296	95UCL	4.8E+06	--	6E-08	--
24513 NEPTUNE AVE	TPH as Diesel	mg/kg	238.9	95UCL	1.3E+03	--	2E-01	--
24513 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.14	Max	7.6E+02	--	2E-04	--
24513 NEPTUNE AVE	TPH as Motor Oil	mg/kg	584.8	95UCL	3.3E+03	--	2E-01	--
24513 NEPTUNE AVE	Xylenes, Total	µg/kg	0.28	Max	5.6E+05	--	5E-07	--
24513 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.38	Max	8.3E+04	--	5E-06	--
24513 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.086	Max	8.5E+04	--	1E-06	--
24513 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0017	Max	4.0E+03	1.6E+01	4E-07	1E-10
24513 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0364	95UCL	2.3E+02	--	2E-04	--
24513 PANAMA AVE	Benzene	µg/kg	0.31	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
24513 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.56	Max	1.2E+03	3.5E+01	5E-04	2E-08
24513 PANAMA AVE	Bromomethane	µg/kg	1.8	Max	8.8E+03	--	2E-04	--
24513 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.371	95UCL	2.3E+02	1.3E+00	2E-03	3E-07
24513 PANAMA AVE	Naphthalene	mg/kg	0.00407	95UCL	1.5E+02	4.0E+00	3E-05	1E-09
24513 PANAMA AVE	Pyrene	mg/kg	0.177	95UCL	1.7E+03	--	1E-04	--
24513 PANAMA AVE	Toluene	µg/kg	0.321	95UCL	4.8E+06	--	7E-08	--
24513 PANAMA AVE	TPH as Diesel	mg/kg	391.9	95UCL	1.3E+03	--	3E-01	--
24513 PANAMA AVE	TPH as Gasoline	mg/kg	0.0672	95UCL	7.6E+02	--	9E-05	--
24513 PANAMA AVE	TPH as Motor Oil	mg/kg	1029	95UCL	3.3E+03	--	3E-01	--
24513 PANAMA AVE	Xylenes, Total	µg/kg	0.43	Max	5.6E+05	--	8E-07	--
24513 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.33	Max	8.3E+04	--	4E-06	--
24513 RAVENNA AVE	1,4-Dichlorobenzene	µg/kg	0.18	Max	3.6E+06	2.8E+03	5E-08	6E-11
24513 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.031	Max	4.0E+03	1.6E+01	8E-06	2E-09
24513 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0467	95UCL	2.3E+02	--	2E-04	--
24513 RAVENNA AVE	Benzene	µg/kg	0.415	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24513 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.16	Max	1.2E+03	3.5E+01	1E-04	5E-09
24513 RAVENNA AVE	Bromodichloromethane	µg/kg	0.17	Max	4.3E+05	4.9E+02	4E-07	4E-10
24513 RAVENNA AVE	Naphthalene	mg/kg	0.0308	95UCL	1.5E+02	4.0E+00	2E-04	8E-09
24513 RAVENNA AVE	Pyrene	mg/kg	0.0306	95UCL	1.7E+03	--	2E-05	--
24513 RAVENNA AVE	Toluene	µg/kg	0.301	95UCL	4.8E+06	--	6E-08	--
24513 RAVENNA AVE	TPH as Diesel	mg/kg	209.5	95UCL	1.3E+03	--	2E-01	--
24513 RAVENNA AVE	TPH as Gasoline	mg/kg	0.12	Max	7.6E+02	--	2E-04	--
24513 RAVENNA AVE	TPH as Motor Oil	mg/kg	558.5	95UCL	3.3E+03	--	2E-01	--
24513 RAVENNA AVE	Xylenes, Total	µg/kg	0.32	Max	5.6E+05	--	6E-07	--
24516 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.491	95UCL	8.3E+04	--	6E-06	--
24516 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.16	Max	8.5E+04	--	2E-06	--
24516 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.8	Max	4.0E+03	1.6E+01	2E-04	5E-08
24516 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.452	95UCL	2.3E+02	--	2E-03	--
24516 MARBELLA AVE	Benzene	µg/kg	0.438	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24516 MARBELLA AVE	Bromomethane	µg/kg	2.3	Max	8.8E+03	--	3E-04	--
24516 MARBELLA AVE	Ethylbenzene	µg/kg	0.45	Max	3.3E+06	4.8E+03	1E-07	9E-11
24516 MARBELLA AVE	Naphthalene	mg/kg	0.149	95UCL	1.5E+02	4.0E+00	1E-03	4E-08
24516 MARBELLA AVE	Pyrene	mg/kg	0.191	95UCL	1.7E+03	--	1E-04	--
24516 MARBELLA AVE	Toluene	µg/kg	0.608	95UCL	4.8E+06	--	1E-07	--
24516 MARBELLA AVE	TPH as Diesel	mg/kg	641.6	95UCL	1.3E+03	--	5E-01	--
24516 MARBELLA AVE	TPH as Gasoline	mg/kg	0.0883	95UCL	7.6E+02	--	1E-04	--
24516 MARBELLA AVE	TPH as Motor Oil	mg/kg	1676	95UCL	3.3E+03	--	5E-01	--
24516 MARBELLA AVE	Xylenes, Total	µg/kg	0.491	95UCL	5.6E+05	--	9E-07	--
24517 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.23	Max	8.3E+04	--	3E-06	--
24517 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0019	Max	2.3E+02	--	8E-06	--
24517 MARBELLA AVE	Benzene	µg/kg	0.2	Max	6.7E+04	2.2E+02	3E-06	9E-10
24517 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.39	Max	2.3E+02	1.3E+00	2E-03	3E-07
24517 MARBELLA AVE	Cobalt	mg/kg	14.2	Max	2.3E+01	3.1E+04	6E-01	5E-10
24517 MARBELLA AVE	Naphthalene	mg/kg	0.021	Max	1.5E+02	4.0E+00	1E-04	5E-09
24517 MARBELLA AVE	Pyrene	mg/kg	0.59	Max	1.7E+03	--	3E-04	--
24517 MARBELLA AVE	Toluene	µg/kg	0.3	Max	4.8E+06	--	6E-08	--
24517 MARBELLA AVE	TPH as Diesel	mg/kg	720	Max	1.3E+03	--	6E-01	--
24517 MARBELLA AVE	TPH as Gasoline	mg/kg	0.23	Max	7.6E+02	--	3E-04	--
24517 MARBELLA AVE	TPH as Motor Oil	mg/kg	2200	Max	3.3E+03	--	7E-01	--
24517 MARBELLA AVE	Vanadium	mg/kg	50	Max	3.9E+02	--	1E-01	--

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil <=2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24518 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.31	Max	8.3E+04	--	4E-06	--
24518 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.022	Max	4.0E+03	1.6E+01	6E-06	1E-09
24518 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0304	95UCL	2.3E+02	--	1E-04	--
24518 NEPTUNE AVE	Benzene	µg/kg	0.276	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24518 NEPTUNE AVE	Bromomethane	µg/kg	1.6	Max	8.8E+03	--	2E-04	--
24518 NEPTUNE AVE	Cobalt	mg/kg	8.279	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24518 NEPTUNE AVE	Ethylbenzene	µg/kg	0.58	Max	3.3E+06	4.8E+03	2E-07	1E-10
24518 NEPTUNE AVE	Naphthalene	mg/kg	0.00816	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24518 NEPTUNE AVE	Pyrene	mg/kg	0.091	95UCL	1.7E+03	--	5E-05	--
24518 NEPTUNE AVE	Toluene	µg/kg	0.391	95UCL	4.8E+06	--	8E-08	--
24518 NEPTUNE AVE	TPH as Diesel	mg/kg	584.9	95UCL	1.3E+03	--	5E-01	--
24518 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.14	95UCL	7.6E+02	--	2E-04	--
24518 NEPTUNE AVE	TPH as Motor Oil	mg/kg	1526	95UCL	3.3E+03	--	5E-01	--
24518 NEPTUNE AVE	Xylenes, Total	µg/kg	0.71	Max	5.6E+05	--	1E-06	--
24518 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.16	Max	8.3E+04	--	2E-06	--
24518 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0014	Max	4.0E+03	1.6E+01	4E-07	9E-11
24518 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.00444	95UCL	2.3E+02	--	2E-05	--
24518 PANAMA AVE	Benzene	µg/kg	0.31	Max	6.7E+04	2.2E+02	5E-06	1E-09
24518 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.61	Max	1.2E+03	3.5E+01	5E-04	2E-08
24518 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.59	Max	2.3E+02	1.3E+00	3E-03	5E-07
24518 PANAMA AVE	Naphthalene	mg/kg	0.00184	95UCL	1.5E+02	4.0E+00	1E-05	5E-10
24518 PANAMA AVE	Pyrene	mg/kg	0.0207	95UCL	1.7E+03	--	1E-05	--
24518 PANAMA AVE	Toluene	µg/kg	0.33	Max	4.8E+06	--	7E-08	--
24518 PANAMA AVE	TPH as Diesel	mg/kg	71.2	95UCL	1.3E+03	--	6E-02	--
24518 PANAMA AVE	TPH as Gasoline	mg/kg	0.0855	95UCL	7.6E+02	--	1E-04	--
24518 PANAMA AVE	TPH as Motor Oil	mg/kg	170	95UCL	3.3E+03	--	5E-02	--
24518 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.83	Max	8.3E+04	--	1E-05	--
24518 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.014	Max	4.0E+03	1.6E+01	4E-06	9E-10
24518 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0172	95UCL	2.3E+02	--	8E-05	--
24518 RAVENNA AVE	Benzene	µg/kg	0.34	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24518 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.24	Max	2.3E+02	1.3E+00	1E-03	2E-07
24518 RAVENNA AVE	Ethylbenzene	µg/kg	0.93	Max	3.3E+06	4.8E+03	3E-07	2E-10
24518 RAVENNA AVE	Naphthalene	mg/kg	0.0173	95UCL	1.5E+02	4.0E+00	1E-04	4E-09
24518 RAVENNA AVE	Pyrene	mg/kg	0.0258	95UCL	1.7E+03	--	2E-05	--
24518 RAVENNA AVE	Tetrachloroethene	µg/kg	0.44	Max	8.6E+04	5.5E+02	5E-06	8E-10
24518 RAVENNA AVE	Toluene	µg/kg	0.328	95UCL	4.8E+06	--	7E-08	--
24518 RAVENNA AVE	TPH as Diesel	mg/kg	110.7	95UCL	1.3E+03	--	9E-02	--
24518 RAVENNA AVE	TPH as Gasoline	mg/kg	0.0774	95UCL	7.6E+02	--	1E-04	--
24518 RAVENNA AVE	TPH as Motor Oil	mg/kg	346.9	95UCL	3.3E+03	--	1E-01	--
24518 RAVENNA AVE	Xylenes, Total	µg/kg	0.286	95UCL	5.6E+05	--	5E-07	--
24519 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.9	Max	8.3E+04	--	1E-05	--
24519 NEPTUNE AVE	1,3,5-Trimethylbenzene	µg/kg	0.096	Max	8.5E+04	--	1E-06	--
24519 NEPTUNE AVE	1,4-Dichlorobenzene	µg/kg	0.25	Max	3.6E+06	2.8E+03	7E-08	9E-11
24519 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0039	Max	4.0E+03	1.6E+01	1E-06	3E-10
24519 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0289	95UCL	2.3E+02	--	1E-04	--
24519 NEPTUNE AVE	Benzene	µg/kg	0.462	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24519 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.23	Max	1.2E+03	3.5E+01	2E-04	7E-09
24519 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.44	Max	2.3E+02	1.3E+00	2E-03	3E-07
24519 NEPTUNE AVE	Ethylbenzene	µg/kg	0.306	95UCL	3.3E+06	4.8E+03	9E-08	6E-11
24519 NEPTUNE AVE	Naphthalene	mg/kg	0.0076	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24519 NEPTUNE AVE	Pyrene	mg/kg	0.134	95UCL	1.7E+03	--	8E-05	--
24519 NEPTUNE AVE	Toluene	µg/kg	0.327	95UCL	4.8E+06	--	7E-08	--
24519 NEPTUNE AVE	TPH as Diesel	mg/kg	217.4	95UCL	1.3E+03	--	2E-01	--
24519 NEPTUNE AVE	TPH as Motor Oil	mg/kg	700.5	95UCL	3.3E+03	--	2E-01	--
24519 NEPTUNE AVE	Xylenes, Total	µg/kg	0.564	95UCL	5.6E+05	--	1E-06	--
24519 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.4	Max	8.3E+04	--	5E-06	--
24519 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0046	Max	4.0E+03	1.6E+01	1E-06	3E-10
24519 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.00828	95UCL	2.3E+02	--	4E-05	--
24519 PANAMA AVE	Benzene	µg/kg	0.283	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24519 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.44	Max	2.3E+02	1.3E+00	2E-03	3E-07
24519 PANAMA AVE	Naphthalene	mg/kg	0.00632	95UCL	1.5E+02	4.0E+00	4E-05	2E-09
24519 PANAMA AVE	Pyrene	mg/kg	0.0302	95UCL	1.7E+03	--	2E-05	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24519 PANAMA AVE	Toluene	µg/kg	0.265	95UCL	4.8E+06	--	6E-08	--
24519 PANAMA AVE	TPH as Diesel	mg/kg	47.72	95UCL	1.3E+03	--	4E-02	--
24519 PANAMA AVE	TPH as Gasoline	mg/kg	0.079	Max	7.6E+02	--	1E-04	--
24519 PANAMA AVE	TPH as Motor Oil	mg/kg	189.5	95UCL	3.3E+03	--	6E-02	--
24519 PANAMA AVE	Xylenes, Total	µg/kg	0.22	Max	5.6E+05	--	4E-07	--
24522 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.32	Max	8.3E+04	--	4E-06	--
24522 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.12	Max	8.5E+04	--	1E-06	--
24522 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.67	Max	4.0E+03	1.6E+01	2E-04	4E-08
24522 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.237	95UCL	2.3E+02	--	1E-03	--
24522 MARBELLA AVE	Benzene	µg/kg	0.308	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
24522 MARBELLA AVE	Cobalt	mg/kg	12.52	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24522 MARBELLA AVE	Ethylbenzene	µg/kg	0.3	Max	3.3E+06	4.8E+03	9E-08	6E-11
24522 MARBELLA AVE	Naphthalene	mg/kg	0.12	Max	1.5E+02	4.0E+00	8E-04	3E-08
24522 MARBELLA AVE	Pyrene	mg/kg	0.0542	95UCL	1.7E+03	--	3E-05	--
24522 MARBELLA AVE	Toluene	µg/kg	0.316	95UCL	4.8E+06	--	7E-08	--
24522 MARBELLA AVE	TPH as Diesel	mg/kg	3930	95UCL	1.3E+03	--	3E+00	--
24522 MARBELLA AVE	TPH as Gasoline	mg/kg	160	Max	7.6E+02	--	2E-01	--
24522 MARBELLA AVE	TPH as Motor Oil	mg/kg	4332	95UCL	3.3E+03	--	1E+00	--
24522 MARBELLA AVE	Vanadium	mg/kg	44.13	95UCL	3.9E+02	--	1E-01	--
24522 MARBELLA AVE	Xylenes, Total	µg/kg	0.73	Max	5.6E+05	--	1E-06	--
24522 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.3	Max	8.3E+04	--	4E-06	--
24522 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00597	95UCL	4.0E+03	1.6E+01	2E-06	4E-10
24522 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.011	95UCL	2.3E+02	--	5E-05	--
24522 NEPTUNE AVE	Benzene	µg/kg	0.202	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24522 NEPTUNE AVE	Cobalt	mg/kg	9.652	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24522 NEPTUNE AVE	Methylene Chloride	µg/kg	4.9	Max	3.6E+05	5.3E+03	1E-05	9E-10
24522 NEPTUNE AVE	Naphthalene	mg/kg	0.0105	95UCL	1.5E+02	4.0E+00	7E-05	3E-09
24522 NEPTUNE AVE	Pyrene	mg/kg	0.0172	95UCL	1.7E+03	--	1E-05	--
24522 NEPTUNE AVE	Toluene	µg/kg	0.238	95UCL	4.8E+06	--	5E-08	--
24522 NEPTUNE AVE	TPH as Diesel	mg/kg	73.25	95UCL	1.3E+03	--	6E-02	--
24522 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.1	Max	7.6E+02	--	1E-04	--
24522 NEPTUNE AVE	TPH as Motor Oil	mg/kg	460.2	95UCL	3.3E+03	--	1E-01	--
24522 NEPTUNE AVE	Xylenes, Total	µg/kg	0.26	Max	5.6E+05	--	5E-07	--
24522 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.86	Max	8.3E+04	--	1E-05	--
24522 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.22	Max	8.5E+04	--	3E-06	--
24522 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0053	Max	4.0E+03	1.6E+01	1E-06	3E-10
24522 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.00266	95UCL	2.3E+02	--	1E-05	--
24522 PANAMA AVE	Benzene	µg/kg	4.724	95UCL	6.7E+04	2.2E+02	7E-05	2E-08
24522 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.34	Max	2.3E+02	1.3E+00	1E-03	3E-07
24522 PANAMA AVE	Ethylbenzene	µg/kg	2.9	Max	3.3E+06	4.8E+03	9E-07	6E-10
24522 PANAMA AVE	Naphthalene	mg/kg	0.0024	Max	1.5E+02	4.0E+00	2E-05	6E-10
24522 PANAMA AVE	Pyrene	mg/kg	0.00649	95UCL	1.7E+03	--	4E-06	--
24522 PANAMA AVE	Toluene	µg/kg	5.226	95UCL	4.8E+06	--	1E-06	--
24522 PANAMA AVE	TPH as Diesel	mg/kg	160	Max	1.3E+03	--	1E-01	--
24522 PANAMA AVE	TPH as Gasoline	mg/kg	0.11	Max	7.6E+02	--	1E-04	--
24522 PANAMA AVE	TPH as Motor Oil	mg/kg	164.1	95UCL	3.3E+03	--	5E-02	--
24522 PANAMA AVE	Xylenes, Total	µg/kg	6	Max	5.6E+05	--	1E-05	--
24522 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.489	95UCL	8.3E+04	--	6E-06	--
24522 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00599	95UCL	4.0E+03	1.6E+01	2E-06	4E-10
24522 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0195	95UCL	2.3E+02	--	9E-05	--
24522 RAVENNA AVE	Benzene	µg/kg	0.319	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24522 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.34	Max	2.3E+02	1.3E+00	1E-03	3E-07
24522 RAVENNA AVE	Ethylbenzene	µg/kg	0.21	Max	3.3E+06	4.8E+03	6E-08	4E-11
24522 RAVENNA AVE	Naphthalene	mg/kg	0.00777	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24522 RAVENNA AVE	Pyrene	mg/kg	0.057	95UCL	1.7E+03	--	3E-05	--
24522 RAVENNA AVE	Toluene	µg/kg	0.268	95UCL	4.8E+06	--	6E-08	--
24522 RAVENNA AVE	TPH as Diesel	mg/kg	155.1	95UCL	1.3E+03	--	1E-01	--
24522 RAVENNA AVE	TPH as Gasoline	mg/kg	0.12	Max	7.6E+02	--	2E-04	--
24522 RAVENNA AVE	TPH as Motor Oil	mg/kg	379.3	95UCL	3.3E+03	--	1E-01	--
24522 RAVENNA AVE	Xylenes, Total	µg/kg	0.284	95UCL	5.6E+05	--	5E-07	--
24523 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.27	Max	8.3E+04	--	3E-06	--
24523 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0103	95UCL	4.0E+03	1.6E+01	3E-06	7E-10

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil <=2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24523 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0156	95UCL	2.3E+02	--	7E-05	--
24523 MARBELLA AVE	Benzene	µg/kg	0.307	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
24523 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.54	Max	1.2E+03	3.5E+01	4E-04	2E-08
24523 MARBELLA AVE	Cobalt	mg/kg	11.73	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24523 MARBELLA AVE	Naphthalene	mg/kg	0.0101	95UCL	1.5E+02	4.0E+00	7E-05	3E-09
24523 MARBELLA AVE	Pyrene	mg/kg	0.475	95UCL	1.7E+03	--	3E-04	--
24523 MARBELLA AVE	Tetrachloroethene	µg/kg	2.7	Max	8.6E+04	5.5E+02	3E-05	5E-09
24523 MARBELLA AVE	Toluene	µg/kg	0.243	95UCL	4.8E+06	--	5E-08	--
24523 MARBELLA AVE	TPH as Diesel	mg/kg	35.08	95UCL	1.3E+03	--	3E-02	--
24523 MARBELLA AVE	TPH as Gasoline	mg/kg	0.081	Max	7.6E+02	--	1E-04	--
24523 MARBELLA AVE	TPH as Motor Oil	mg/kg	91.5	95UCL	3.3E+03	--	3E-02	--
24523 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.379	95UCL	8.3E+04	--	5E-06	--
24523 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.011	Max	4.0E+03	1.6E+01	3E-06	7E-10
24523 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0179	95UCL	2.3E+02	--	8E-05	--
24523 NEPTUNE AVE	Benzene	µg/kg	0.264	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24523 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.5	Max	1.2E+03	3.5E+01	4E-04	1E-08
24523 NEPTUNE AVE	Cobalt	mg/kg	10.14	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24523 NEPTUNE AVE	Ethylbenzene	µg/kg	0.45	Max	3.3E+06	4.8E+03	1E-07	9E-11
24523 NEPTUNE AVE	Naphthalene	mg/kg	0.00968	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
24523 NEPTUNE AVE	Pyrene	mg/kg	0.0894	95UCL	1.7E+03	--	5E-05	--
24523 NEPTUNE AVE	Toluene	µg/kg	0.284	95UCL	4.8E+06	--	6E-08	--
24523 NEPTUNE AVE	TPH as Diesel	mg/kg	400.2	95UCL	1.3E+03	--	3E-01	--
24523 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.083	Max	7.6E+02	--	1E-04	--
24523 NEPTUNE AVE	TPH as Motor Oil	mg/kg	924.7	95UCL	3.3E+03	--	3E-01	--
24523 NEPTUNE AVE	Xylenes, Total	µg/kg	0.363	95UCL	5.6E+05	--	7E-07	--
24523 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.456	95UCL	8.3E+04	--	6E-06	--
24523 RAVENNA AVE	1,4-Dichlorobenzene	µg/kg	1	Max	3.6E+06	2.8E+03	3E-07	4E-10
24523 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.011	Max	4.0E+03	1.6E+01	3E-06	7E-10
24523 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.044	95UCL	2.3E+02	--	2E-04	--
24523 RAVENNA AVE	Benzene	µg/kg	0.281	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24523 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.11	Max	2.3E+02	1.3E+00	5E-04	9E-08
24523 RAVENNA AVE	Ethylbenzene	µg/kg	0.94	Max	3.3E+06	4.8E+03	3E-07	2E-10
24523 RAVENNA AVE	Naphthalene	mg/kg	0.0303	95UCL	1.5E+02	4.0E+00	2E-04	8E-09
24523 RAVENNA AVE	Pyrene	mg/kg	0.211	95UCL	1.7E+03	--	1E-04	--
24523 RAVENNA AVE	Toluene	µg/kg	0.422	95UCL	4.8E+06	--	9E-08	--
24523 RAVENNA AVE	TPH as Diesel	mg/kg	493.1	95UCL	1.3E+03	--	4E-01	--
24523 RAVENNA AVE	TPH as Gasoline	mg/kg	0.087	Max	7.6E+02	--	1E-04	--
24523 RAVENNA AVE	TPH as Motor Oil	mg/kg	1076	95UCL	3.3E+03	--	3E-01	--
24523 RAVENNA AVE	Trichloroethene	µg/kg	0.24	Max	5.8E+03	1.2E+03	4E-05	2E-10
24523 RAVENNA AVE	Xylenes, Total	µg/kg	0.31	Max	5.6E+05	--	6E-07	--
24526 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.66	Max	8.3E+04	--	8E-06	--
24526 MARBELLA AVE	1-Methylnaphthalene	mg/kg	4.9	Max	4.0E+03	1.6E+01	1E-03	3E-07
24526 MARBELLA AVE	2-Methylnaphthalene	mg/kg	2.183	95UCL	2.3E+02	--	1E-02	--
24526 MARBELLA AVE	Benzene	µg/kg	40.56	95UCL	6.7E+04	2.2E+02	6E-04	2E-07
24526 MARBELLA AVE	Bromodichloromethane	µg/kg	5.2	Max	4.3E+05	4.9E+02	1E-05	1E-08
24526 MARBELLA AVE	Bromomethane	µg/kg	9.2	Max	8.8E+03	--	1E-03	--
24526 MARBELLA AVE	Cobalt	mg/kg	11.49	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24526 MARBELLA AVE	Ethylbenzene	µg/kg	37	Max	3.3E+06	4.8E+03	1E-05	8E-09
24526 MARBELLA AVE	Naphthalene	mg/kg	0.472	95UCL	1.5E+02	4.0E+00	3E-03	1E-07
24526 MARBELLA AVE	Pyrene	mg/kg	0.107	95UCL	1.7E+03	--	6E-05	--
24526 MARBELLA AVE	Toluene	µg/kg	0.448	95UCL	4.8E+06	--	9E-08	--
24526 MARBELLA AVE	TPH as Diesel	mg/kg	2634	95UCL	1.3E+03	--	<b>2E+00</b>	--
24526 MARBELLA AVE	TPH as Gasoline	mg/kg	0.726	95UCL	7.6E+02	--	1E-03	--
24526 MARBELLA AVE	TPH as Motor Oil	mg/kg	3930	95UCL	3.3E+03	--	1E+00	--
24526 MARBELLA AVE	Xylenes, Total	µg/kg	0.35	95UCL	5.6E+05	--	6E-07	--
24528 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.45	Max	8.3E+04	--	5E-06	--
24528 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.12	95UCL	4.0E+03	1.6E+01	3E-05	8E-09
24528 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0473	95UCL	2.3E+02	--	2E-04	--
24528 NEPTUNE AVE	Benzene	µg/kg	0.628	95UCL	6.7E+04	2.2E+02	9E-06	3E-09
24528 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.526	95UCL	1.2E+03	3.5E+01	4E-04	2E-08
24528 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.28	Max	2.3E+02	1.3E+00	1E-03	2E-07
24528 NEPTUNE AVE	Ethylbenzene	µg/kg	0.2	Max	3.3E+06	4.8E+03	6E-08	4E-11

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$  2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24528 NEPTUNE AVE	Naphthalene	mg/kg	0.00249	95UCL	1.5E+02	4.0E+00	2E-05	6E-10
24528 NEPTUNE AVE	Pyrene	mg/kg	0.0516	95UCL	1.7E+03	--	3E-05	--
24528 NEPTUNE AVE	Tetrachloroethene	µg/kg	0.19	Max	8.6E+04	5.5E+02	2E-06	3E-10
24528 NEPTUNE AVE	Toluene	µg/kg	0.567	95UCL	4.8E+06	--	1E-07	--
24528 NEPTUNE AVE	TPH as Diesel	mg/kg	456	95UCL	1.3E+03	--	4E-01	--
24528 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.914	95UCL	7.6E+02	--	1E-03	--
24528 NEPTUNE AVE	TPH as Motor Oil	mg/kg	549.8	95UCL	3.3E+03	--	2E-01	--
24528 NEPTUNE AVE	Xylenes, Total	µg/kg	0.93	Max	5.6E+05	--	2E-06	--
24528 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.00722	95UCL	4.0E+03	1.6E+01	2E-06	5E-10
24528 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0287	95UCL	2.3E+02	--	1E-04	--
24528 PANAMA AVE	Benzene	µg/kg	1.428	95UCL	6.7E+04	2.2E+02	2E-05	7E-09
24528 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.11	Max	1.2E+03	3.5E+01	9E-05	3E-09
24528 PANAMA AVE	Ethylbenzene	µg/kg	0.15	Max	3.3E+06	4.8E+03	5E-08	3E-11
24528 PANAMA AVE	Naphthalene	mg/kg	0.0119	95UCL	1.5E+02	4.0E+00	8E-05	3E-09
24528 PANAMA AVE	Pyrene	mg/kg	0.0861	95UCL	1.7E+03	--	5E-05	--
24528 PANAMA AVE	Toluene	µg/kg	0.88	Max	4.8E+06	--	2E-07	--
24528 PANAMA AVE	TPH as Diesel	mg/kg	84.43	95UCL	1.3E+03	--	7E-02	--
24528 PANAMA AVE	TPH as Gasoline	mg/kg	0.0628	95UCL	7.6E+02	--	8E-05	--
24528 PANAMA AVE	TPH as Motor Oil	mg/kg	543.8	95UCL	3.3E+03	--	2E-01	--
24528 PANAMA AVE	Xylenes, Total	µg/kg	0.28	Max	5.6E+05	--	5E-07	--
24529 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.372	95UCL	8.3E+04	--	5E-06	--
24529 NEPTUNE AVE	1,3,5-Trimethylbenzene	µg/kg	0.11	Max	8.5E+04	--	1E-06	--
24529 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0051	Max	4.0E+03	1.6E+01	1E-06	3E-10
24529 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0101	95UCL	2.3E+02	--	4E-05	--
24529 NEPTUNE AVE	Benzene	µg/kg	2.301	95UCL	6.7E+04	2.2E+02	3E-05	1E-08
24529 NEPTUNE AVE	Bromodichloromethane	µg/kg	0.28	Max	4.3E+05	4.9E+02	7E-07	6E-10
24529 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.42	Max	2.3E+02	1.3E+00	2E-03	3E-07
24529 NEPTUNE AVE	Ethylbenzene	µg/kg	0.236	95UCL	3.3E+06	4.8E+03	7E-08	5E-11
24529 NEPTUNE AVE	Naphthalene	mg/kg	0.00619	95UCL	1.5E+02	4.0E+00	4E-05	2E-09
24529 NEPTUNE AVE	Pyrene	mg/kg	0.0856	95UCL	1.7E+03	--	5E-05	--
24529 NEPTUNE AVE	Toluene	µg/kg	1.144	95UCL	4.8E+06	--	2E-07	--
24529 NEPTUNE AVE	TPH as Diesel	mg/kg	204.7	95UCL	1.3E+03	--	2E-01	--
24529 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.12	95UCL	7.6E+02	--	2E-04	--
24529 NEPTUNE AVE	TPH as Motor Oil	mg/kg	655.4	95UCL	3.3E+03	--	2E-01	--
24529 NEPTUNE AVE	Xylenes, Total	µg/kg	0.698	95UCL	5.6E+05	--	1E-06	--
24529 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.41	Max	8.3E+04	--	5E-06	--
24529 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.019	Max	2.3E+02	--	8E-05	--
24529 PANAMA AVE	Benzene	µg/kg	0.36	Max	6.7E+04	2.2E+02	5E-06	2E-09
24529 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.64	Max	2.3E+02	1.3E+00	3E-03	5E-07
24529 PANAMA AVE	Naphthalene	mg/kg	0.0059	Max	1.5E+02	4.0E+00	4E-05	2E-09
24529 PANAMA AVE	Pyrene	mg/kg	0.0238	95UCL	1.7E+03	--	1E-05	--
24529 PANAMA AVE	Toluene	µg/kg	1.1	Max	4.8E+06	--	2E-07	--
24529 PANAMA AVE	TPH as Diesel	mg/kg	83	Max	1.3E+03	--	6E-02	--
24529 PANAMA AVE	TPH as Gasoline	mg/kg	0.0909	95UCL	7.6E+02	--	1E-04	--
24529 PANAMA AVE	TPH as Motor Oil	mg/kg	103.1	95UCL	3.3E+03	--	3E-02	--
24529 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.013	Max	4.0E+03	1.6E+01	3E-06	8E-10
24529 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0818	95UCL	2.3E+02	--	4E-04	--
24529 RAVENNA AVE	Benzene	µg/kg	0.5	Max	6.7E+04	2.2E+02	8E-06	2E-09
24529 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.22	Max	1.2E+03	3.5E+01	2E-04	6E-09
24529 RAVENNA AVE	Bromodichloromethane	µg/kg	1.2	Max	4.3E+05	4.9E+02	3E-06	3E-09
24529 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.29	Max	2.3E+02	1.3E+00	1E-03	2E-07
24529 RAVENNA AVE	Naphthalene	mg/kg	0.0379	95UCL	1.5E+02	4.0E+00	3E-04	1E-08
24529 RAVENNA AVE	Pyrene	mg/kg	0.187	95UCL	1.7E+03	--	1E-04	--
24529 RAVENNA AVE	Toluene	µg/kg	1.2	Max	4.8E+06	--	3E-07	--
24529 RAVENNA AVE	TPH as Diesel	mg/kg	474	95UCL	1.3E+03	--	4E-01	--
24529 RAVENNA AVE	TPH as Gasoline	mg/kg	0.116	95UCL	7.6E+02	--	2E-04	--
24529 RAVENNA AVE	TPH as Motor Oil	mg/kg	1414	95UCL	3.3E+03	--	4E-01	--
24532 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	52	Max	8.3E+04	--	6E-04	--
24532 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0065	Max	4.0E+03	1.6E+01	2E-06	4E-10
24532 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0087	95UCL	2.3E+02	--	4E-05	--
24532 MARBELLA AVE	Benzene	µg/kg	12.7	95UCL	6.7E+04	2.2E+02	2E-04	6E-08
24532 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.79	Max	1.2E+03	3.5E+01	7E-04	2E-08

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$ 2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24532 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.17	Max	2.3E+02	1.3E+00	7E-04	1E-07
24532 MARBELLA AVE	Cobalt	mg/kg	11.62	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24532 MARBELLA AVE	Ethylbenzene	µg/kg	51	Max	3.3E+06	4.8E+03	2E-05	1E-08
24532 MARBELLA AVE	Naphthalene	mg/kg	0.0165	95UCL	1.5E+02	4.0E+00	1E-04	4E-09
24532 MARBELLA AVE	Pyrene	mg/kg	0.021	95UCL	1.7E+03	--	1E-05	--
24532 MARBELLA AVE	Toluene	µg/kg	0.3	Max	4.8E+06	--	6E-08	--
24532 MARBELLA AVE	TPH as Diesel	mg/kg	324.5	95UCL	1.3E+03	--	3E-01	--
24532 MARBELLA AVE	TPH as Gasoline	mg/kg	1.5	Max	7.6E+02	--	2E-03	--
24532 MARBELLA AVE	TPH as Motor Oil	mg/kg	842.6	95UCL	3.3E+03	--	3E-01	--
24532 MARBELLA AVE	Xylenes, Total	µg/kg	53	Max	5.6E+05	--	1E-04	--
24532 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.00227	95UCL	2.3E+02	--	1E-05	--
24532 NEPTUNE AVE	Benzene	µg/kg	0.457	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24532 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.67	Max	1.2E+03	3.5E+01	6E-04	2E-08
24532 NEPTUNE AVE	Naphthalene	mg/kg	0.00138	95UCL	1.5E+02	4.0E+00	9E-06	4E-10
24532 NEPTUNE AVE	Pyrene	mg/kg	0.0112	95UCL	1.7E+03	--	7E-06	--
24532 NEPTUNE AVE	Toluene	µg/kg	0.422	95UCL	4.8E+06	--	9E-08	--
24532 NEPTUNE AVE	TPH as Diesel	mg/kg	17.92	95UCL	1.3E+03	--	1E-02	--
24532 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.113	95UCL	7.6E+02	--	2E-04	--
24532 NEPTUNE AVE	TPH as Motor Oil	mg/kg	87.86	95UCL	3.3E+03	--	3E-02	--
24532 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0058	Max	4.0E+03	1.6E+01	1E-06	4E-10
24532 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0488	95UCL	2.3E+02	--	2E-04	--
24532 PANAMA AVE	Benzene	µg/kg	0.171	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24532 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.29	Max	2.3E+02	1.3E+00	1E-03	2E-07
24532 PANAMA AVE	Naphthalene	mg/kg	0.13	Max	1.5E+02	4.0E+00	9E-04	3E-08
24532 PANAMA AVE	Pyrene	mg/kg	0.14	95UCL	1.7E+03	--	8E-05	--
24532 PANAMA AVE	TPH as Diesel	mg/kg	144.9	95UCL	1.3E+03	--	1E-01	--
24532 PANAMA AVE	TPH as Gasoline	mg/kg	0.071	Max	7.6E+02	--	9E-05	--
24532 PANAMA AVE	TPH as Motor Oil	mg/kg	424.7	95UCL	3.3E+03	--	1E-01	--
24532 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.18	Max	8.3E+04	--	2E-06	--
24532 RAVENNA AVE	1,4-Dichlorobenzene	µg/kg	0.2	Max	3.6E+06	2.8E+03	6E-08	7E-11
24532 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00343	95UCL	4.0E+03	1.6E+01	9E-07	2E-10
24532 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0069	95UCL	2.3E+02	--	3E-05	--
24532 RAVENNA AVE	Benzene	µg/kg	0.425	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24532 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.2	Max	1.2E+03	3.5E+01	2E-04	6E-09
24532 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.348	95UCL	2.3E+02	1.3E+00	2E-03	3E-07
24532 RAVENNA AVE	Ethylbenzene	µg/kg	0.26	Max	3.3E+06	4.8E+03	8E-08	5E-11
24532 RAVENNA AVE	Naphthalene	mg/kg	0.00464	95UCL	1.5E+02	4.0E+00	3E-05	1E-09
24532 RAVENNA AVE	Pyrene	mg/kg	0.0102	95UCL	1.7E+03	--	6E-06	--
24532 RAVENNA AVE	Toluene	µg/kg	0.274	95UCL	4.8E+06	--	6E-08	--
24532 RAVENNA AVE	TPH as Diesel	mg/kg	52.73	95UCL	1.3E+03	--	4E-02	--
24532 RAVENNA AVE	TPH as Gasoline	mg/kg	0.11	Max	7.6E+02	--	1E-04	--
24532 RAVENNA AVE	TPH as Motor Oil	mg/kg	186.7	95UCL	3.3E+03	--	6E-02	--
24532 RAVENNA AVE	Xylenes, Total	µg/kg	0.24	Max	5.6E+05	--	4E-07	--
24533 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.77	Max	8.3E+04	--	9E-06	--
24533 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.22	Max	8.5E+04	--	3E-06	--
24533 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.00484	95UCL	4.0E+03	1.6E+01	1E-06	3E-10
24533 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.00804	95UCL	2.3E+02	--	4E-05	--
24533 MARBELLA AVE	Benzene	µg/kg	2.672	95UCL	6.7E+04	2.2E+02	4E-05	1E-08
24533 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.24	Max	1.2E+03	3.5E+01	2E-04	7E-09
24533 MARBELLA AVE	Bromodichloromethane	µg/kg	0.29	Max	4.3E+05	4.9E+02	7E-07	6E-10
24533 MARBELLA AVE	Bromomethane	µg/kg	2.711	95UCL	8.8E+03	--	3E-04	--
24533 MARBELLA AVE	Cobalt	mg/kg	10.98	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24533 MARBELLA AVE	Ethylbenzene	µg/kg	1.5	Max	3.3E+06	4.8E+03	5E-07	3E-10
24533 MARBELLA AVE	Naphthalene	mg/kg	0.00623	95UCL	1.5E+02	4.0E+00	4E-05	2E-09
24533 MARBELLA AVE	Pyrene	mg/kg	0.0186	95UCL	1.7E+03	--	1E-05	--
24533 MARBELLA AVE	Tetrachloroethene	µg/kg	1.248	95UCL	8.6E+04	5.5E+02	1E-05	2E-09
24533 MARBELLA AVE	Toluene	µg/kg	15.72	95UCL	4.8E+06	--	3E-06	--
24533 MARBELLA AVE	TPH as Diesel	mg/kg	187.9	95UCL	1.3E+03	--	1E-01	--
24533 MARBELLA AVE	TPH as Gasoline	mg/kg	0.268	95UCL	7.6E+02	--	4E-04	--
24533 MARBELLA AVE	TPH as Motor Oil	mg/kg	380	95UCL	3.3E+03	--	1E-01	--
24533 MARBELLA AVE	Xylenes, Total	µg/kg	13	Max	5.6E+05	--	2E-05	--
24533 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.014	Max	4.0E+03	1.6E+01	4E-06	9E-10

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$  2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24533 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0159	95UCL	2.3E+02	--	7E-05	--
24533 PANAMA AVE	Benzene	$\mu$ g/kg	0.423	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24533 PANAMA AVE	Bromomethane	$\mu$ g/kg	1.9	Max	8.8E+03	--	2E-04	--
24533 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.34	Max	2.3E+02	1.3E+00	1E-03	3E-07
24533 PANAMA AVE	Ethylbenzene	$\mu$ g/kg	0.16	Max	3.3E+06	4.8E+03	5E-08	3E-11
24533 PANAMA AVE	Naphthalene	mg/kg	0.00546	95UCL	1.5E+02	4.0E+00	4E-05	1E-09
24533 PANAMA AVE	Pyrene	mg/kg	0.0564	95UCL	1.7E+03	--	3E-05	--
24533 PANAMA AVE	Toluene	$\mu$ g/kg	0.246	95UCL	4.8E+06	--	5E-08	--
24533 PANAMA AVE	TPH as Diesel	mg/kg	88.96	95UCL	1.3E+03	--	7E-02	--
24533 PANAMA AVE	TPH as Gasoline	mg/kg	0.95	Max	7.6E+02	--	1E-03	--
24533 PANAMA AVE	TPH as Motor Oil	mg/kg	262.1	95UCL	3.3E+03	--	8E-02	--
24533 RAVENNA AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.442	95UCL	8.3E+04	--	5E-06	--
24533 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0022	Max	4.0E+03	1.6E+01	6E-07	1E-10
24533 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0025	95UCL	2.3E+02	--	1E-05	--
24533 RAVENNA AVE	Benzene	$\mu$ g/kg	0.21	Max	6.7E+04	2.2E+02	3E-06	1E-09
24533 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.36	Max	2.3E+02	1.3E+00	2E-03	3E-07
24533 RAVENNA AVE	Naphthalene	mg/kg	0.00176	95UCL	1.5E+02	4.0E+00	1E-05	4E-10
24533 RAVENNA AVE	Pyrene	mg/kg	0.00417	95UCL	1.7E+03	--	2E-06	--
24533 RAVENNA AVE	Toluene	$\mu$ g/kg	0.311	95UCL	4.8E+06	--	7E-08	--
24533 RAVENNA AVE	TPH as Diesel	mg/kg	23	Max	1.3E+03	--	2E-02	--
24533 RAVENNA AVE	TPH as Gasoline	mg/kg	0.098	Max	7.6E+02	--	1E-04	--
24533 RAVENNA AVE	TPH as Motor Oil	mg/kg	82	Max	3.3E+03	--	3E-02	--
24533 RAVENNA AVE	Xylenes, Total	$\mu$ g/kg	0.27	Max	5.6E+05	--	5E-07	--
24602 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.00935	95UCL	4.0E+03	1.6E+01	2E-06	6E-10
24602 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0266	95UCL	2.3E+02	--	1E-04	--
24602 MARBELLA AVE	Benzene	$\mu$ g/kg	0.183	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24602 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.18	Max	1.2E+03	3.5E+01	2E-04	5E-09
24602 MARBELLA AVE	Bromomethane	$\mu$ g/kg	0.94	Max	8.8E+03	--	1E-04	--
24602 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.8	Max	2.3E+02	1.3E+00	3E-03	6E-07
24602 MARBELLA AVE	Cobalt	mg/kg	10.16	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24602 MARBELLA AVE	Naphthalene	mg/kg	0.0289	95UCL	1.5E+02	4.0E+00	2E-04	7E-09
24602 MARBELLA AVE	Pyrene	mg/kg	0.171	95UCL	1.7E+03	--	1E-04	--
24602 MARBELLA AVE	Toluene	$\mu$ g/kg	0.254	95UCL	4.8E+06	--	5E-08	--
24602 MARBELLA AVE	TPH as Diesel	mg/kg	141.2	95UCL	1.3E+03	--	1E-01	--
24602 MARBELLA AVE	TPH as Gasoline	mg/kg	0.107	95UCL	7.6E+02	--	1E-04	--
24602 MARBELLA AVE	TPH as Motor Oil	mg/kg	380.5	95UCL	3.3E+03	--	1E-01	--
24602 MARBELLA AVE	Vanadium	mg/kg	38.23	95UCL	3.9E+02	--	1E-01	--
24602 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00172	95UCL	4.0E+03	1.6E+01	4E-07	1E-10
24602 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.00474	95UCL	2.3E+02	--	2E-05	--
24602 NEPTUNE AVE	Benzene	$\mu$ g/kg	0.276	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24602 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.262	95UCL	2.3E+02	1.3E+00	1E-03	2E-07
24602 NEPTUNE AVE	Naphthalene	mg/kg	0.00305	95UCL	1.5E+02	4.0E+00	2E-05	8E-10
24602 NEPTUNE AVE	Pyrene	mg/kg	0.0224	95UCL	1.7E+03	--	1E-05	--
24602 NEPTUNE AVE	Toluene	$\mu$ g/kg	0.326	95UCL	4.8E+06	--	7E-08	--
24602 NEPTUNE AVE	TPH as Diesel	mg/kg	120	Max	1.3E+03	--	9E-02	--
24602 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.142	95UCL	7.6E+02	--	2E-04	--
24602 NEPTUNE AVE	TPH as Motor Oil	mg/kg	500	Max	3.3E+03	--	2E-01	--
24602 NEPTUNE AVE	Xylenes, Total	$\mu$ g/kg	0.35	Max	5.6E+05	--	6E-07	--
24602 PANAMA AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.423	95UCL	8.3E+04	--	5E-06	--
24602 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.00958	95UCL	4.0E+03	1.6E+01	2E-06	6E-10
24602 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0822	95UCL	2.3E+02	--	4E-04	--
24602 PANAMA AVE	Benzene	$\mu$ g/kg	0.347	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24602 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.44	Max	2.3E+02	1.3E+00	2E-03	3E-07
24602 PANAMA AVE	Naphthalene	mg/kg	0.0184	95UCL	1.5E+02	4.0E+00	1E-04	5E-09
24602 PANAMA AVE	Pyrene	mg/kg	0.347	95UCL	1.7E+03	--	2E-04	--
24602 PANAMA AVE	Toluene	$\mu$ g/kg	4.186	95UCL	4.8E+06	--	9E-07	--
24602 PANAMA AVE	TPH as Diesel	mg/kg	629.1	95UCL	1.3E+03	--	5E-01	--
24602 PANAMA AVE	TPH as Gasoline	mg/kg	0.392	95UCL	7.6E+02	--	5E-04	--
24602 PANAMA AVE	TPH as Motor Oil	mg/kg	1738	95UCL	3.3E+03	--	5E-01	--
24602 PANAMA AVE	Xylenes, Total	$\mu$ g/kg	0.24	Max	5.6E+05	--	4E-07	--
24602 RAVENNA AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.2	Max	8.3E+04	--	2E-06	--
24602 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0123	95UCL	4.0E+03	1.6E+01	3E-06	8E-10

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24602 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0261	95UCL	2.3E+02	--	1E-04	--
24602 RAVENNA AVE	Benzene	µg/kg	0.274	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24602 RAVENNA AVE	Bromomethane	µg/kg	5.143	95UCL	8.8E+03	--	6E-04	--
24602 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.34	Max	2.3E+02	1.3E+00	1E-03	3E-07
24602 RAVENNA AVE	Naphthalene	mg/kg	0.0105	95UCL	1.5E+02	4.0E+00	7E-05	3E-09
24602 RAVENNA AVE	Pyrene	mg/kg	0.103	95UCL	1.7E+03	--	6E-05	--
24602 RAVENNA AVE	Toluene	µg/kg	1.213	95UCL	4.8E+06	--	3E-07	--
24602 RAVENNA AVE	TPH as Diesel	mg/kg	204.4	95UCL	1.3E+03	--	2E-01	--
24602 RAVENNA AVE	TPH as Gasoline	mg/kg	0.22	Max	7.6E+02	--	3E-04	--
24602 RAVENNA AVE	TPH as Motor Oil	mg/kg	590.3	95UCL	3.3E+03	--	2E-01	--
24603 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.208	95UCL	8.3E+04	--	3E-06	--
24603 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0032	Max	4.0E+03	1.6E+01	8E-07	2E-10
24603 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.00494	95UCL	2.3E+02	--	2E-05	--
24603 MARBELLA AVE	Benzene	µg/kg	0.526	95UCL	6.7E+04	2.2E+02	8E-06	2E-09
24603 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.63	Max	1.2E+03	3.5E+01	5E-04	2E-08
24603 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.401	95UCL	2.3E+02	1.3E+00	2E-03	3E-07
24603 MARBELLA AVE	Cobalt	mg/kg	12.18	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24603 MARBELLA AVE	Naphthalene	mg/kg	0.00233	95UCL	1.5E+02	4.0E+00	2E-05	6E-10
24603 MARBELLA AVE	Pyrene	mg/kg	0.195	95UCL	1.7E+03	--	1E-04	--
24603 MARBELLA AVE	Tetrachloroethene	µg/kg	0.23	Max	8.6E+04	5.5E+02	3E-06	4E-10
24603 MARBELLA AVE	Toluene	µg/kg	0.364	95UCL	4.8E+06	--	8E-08	--
24603 MARBELLA AVE	TPH as Diesel	mg/kg	39.9	95UCL	1.3E+03	--	3E-02	--
24603 MARBELLA AVE	TPH as Gasoline	mg/kg	0.079	95UCL	7.6E+02	--	1E-04	--
24603 MARBELLA AVE	TPH as Motor Oil	mg/kg	145.3	95UCL	3.3E+03	--	4E-02	--
24603 MARBELLA AVE	Trichloroethene	µg/kg	0.24	Max	5.8E+03	1.2E+03	4E-05	2E-10
24603 MARBELLA AVE	Vanadium	mg/kg	44.28	95UCL	3.9E+02	--	1E-01	--
24603 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	5932	95UCL	8.3E+04	--	7E-02	--
24603 NEPTUNE AVE	1,3,5-Trimethylbenzene	µg/kg	11000	Max	8.5E+04	--	1E-01	--
24603 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	3.198	95UCL	4.0E+03	1.6E+01	8E-04	2E-07
24603 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	5.633	95UCL	2.3E+02	--	3E-02	--
24603 NEPTUNE AVE	Benzene	µg/kg	540	95UCL	6.7E+04	2.2E+02	8E-03	3E-06
24603 NEPTUNE AVE	Bromomethane	µg/kg	2.1	Max	8.8E+03	--	2E-04	--
24603 NEPTUNE AVE	Ethylbenzene	µg/kg	5900	Max	3.3E+06	4.8E+03	2E-03	1E-06
24603 NEPTUNE AVE	Naphthalene	mg/kg	2.266	95UCL	1.5E+02	4.0E+00	2E-02	6E-07
24603 NEPTUNE AVE	Pyrene	mg/kg	0.149	95UCL	1.7E+03	--	9E-05	--
24603 NEPTUNE AVE	Toluene	µg/kg	609.6	95UCL	4.8E+06	--	1E-04	--
24603 NEPTUNE AVE	TPH as Diesel	mg/kg	2407	95UCL	1.3E+03	--	2E+00	--
24603 NEPTUNE AVE	TPH as Gasoline	mg/kg	370.8	95UCL	7.6E+02	--	5E-01	--
24603 NEPTUNE AVE	TPH as Motor Oil	mg/kg	2463	95UCL	3.3E+03	--	8E-01	--
24603 NEPTUNE AVE	Xylenes, Total	µg/kg	10767	95UCL	5.6E+05	--	2E-02	--
24603 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.021	95UCL	4.0E+03	1.6E+01	5E-06	1E-09
24603 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0549	95UCL	2.3E+02	--	2E-04	--
24603 PANAMA AVE	Benzene	µg/kg	0.72	Max	6.7E+04	2.2E+02	1E-05	3E-09
24603 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.48	Max	2.3E+02	1.3E+00	2E-03	4E-07
24603 PANAMA AVE	Naphthalene	mg/kg	0.0224	95UCL	1.5E+02	4.0E+00	2E-04	6E-09
24603 PANAMA AVE	Pyrene	mg/kg	0.287	95UCL	1.7E+03	--	2E-04	--
24603 PANAMA AVE	Toluene	µg/kg	0.82	Max	4.8E+06	--	2E-07	--
24603 PANAMA AVE	TPH as Diesel	mg/kg	181.6	95UCL	1.3E+03	--	1E-01	--
24603 PANAMA AVE	TPH as Gasoline	mg/kg	0.18	Max	7.6E+02	--	2E-04	--
24603 PANAMA AVE	TPH as Motor Oil	mg/kg	451.6	95UCL	3.3E+03	--	1E-01	--
24603 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.62	Max	8.3E+04	--	8E-06	--
24603 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	0.091	Max	8.5E+04	--	1E-06	--
24603 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.29	Max	4.0E+03	1.6E+01	7E-05	2E-08
24603 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.235	95UCL	2.3E+02	--	1E-03	--
24603 RAVENNA AVE	Benzene	µg/kg	0.219	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24603 RAVENNA AVE	Bromomethane	µg/kg	1.7	Max	8.8E+03	--	2E-04	--
24603 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.79	Max	2.3E+02	1.3E+00	3E-03	6E-07
24603 RAVENNA AVE	Ethylbenzene	µg/kg	0.37	Max	3.3E+06	4.8E+03	1E-07	8E-11
24603 RAVENNA AVE	Methylene Chloride	µg/kg	360	Max	3.6E+05	5.3E+03	1E-03	7E-08
24603 RAVENNA AVE	Naphthalene	mg/kg	0.216	95UCL	1.5E+02	4.0E+00	1E-03	5E-08
24603 RAVENNA AVE	Pyrene	mg/kg	0.47	95UCL	1.7E+03	--	3E-04	--
24603 RAVENNA AVE	Thallium	mg/kg	3.118	95UCL	7.8E-01	--	4E+00	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil <=2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24603 RAVENNA AVE	Toluene	µg/kg	11.17	95UCL	4.8E+06	--	2E-06	--
24603 RAVENNA AVE	TPH as Diesel	mg/kg	1955	95UCL	1.3E+03	--	2E+00	--
24603 RAVENNA AVE	TPH as Gasoline	mg/kg	0.109	95UCL	7.6E+02	--	1E-04	--
24603 RAVENNA AVE	TPH as Motor Oil	mg/kg	4877	95UCL	3.3E+03	--	2E+00	--
24603 RAVENNA AVE	Xylenes, Total	µg/kg	0.553	95UCL	5.6E+05	--	1E-06	--
24606 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.225	95UCL	8.3E+04	--	3E-06	--
24606 MARBELLA AVE	1,4-Dichlorobenzene	µg/kg	0.52	Max	3.6E+06	2.8E+03	1E-07	2E-10
24606 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.00472	95UCL	4.0E+03	1.6E+01	1E-06	3E-10
24606 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.00854	95UCL	2.3E+02	--	4E-05	--
24606 MARBELLA AVE	Benzene	µg/kg	0.269	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24606 MARBELLA AVE	Bromodichloromethane	µg/kg	0.13	Max	4.3E+05	4.9E+02	3E-07	3E-10
24606 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.8	Max	2.3E+02	1.3E+00	3E-03	6E-07
24606 MARBELLA AVE	Cobalt	mg/kg	11.7	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24606 MARBELLA AVE	Ethylbenzene	µg/kg	0.23	Max	3.3E+06	4.8E+03	7E-08	5E-11
24606 MARBELLA AVE	Naphthalene	mg/kg	0.004	95UCL	1.5E+02	4.0E+00	3E-05	1E-09
24606 MARBELLA AVE	Pyrene	mg/kg	0.0149	95UCL	1.7E+03	--	9E-06	--
24606 MARBELLA AVE	Toluene	µg/kg	0.356	95UCL	4.8E+06	--	7E-08	--
24606 MARBELLA AVE	TPH as Diesel	mg/kg	256.8	95UCL	1.3E+03	--	2E-01	--
24606 MARBELLA AVE	TPH as Gasoline	mg/kg	0.108	95UCL	7.6E+02	--	1E-04	--
24606 MARBELLA AVE	TPH as Motor Oil	mg/kg	531.6	95UCL	3.3E+03	--	2E-01	--
24606 MARBELLA AVE	Xylenes, Total	µg/kg	0.468	95UCL	5.6E+05	--	8E-07	--
24607 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.00584	95UCL	4.0E+03	1.6E+01	2E-06	4E-10
24607 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0129	95UCL	2.3E+02	--	6E-05	--
24607 MARBELLA AVE	Benzene	µg/kg	0.481	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24607 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1	Max	1.2E+03	3.5E+01	8E-04	3E-08
24607 MARBELLA AVE	Cobalt	mg/kg	12.5	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24607 MARBELLA AVE	Naphthalene	mg/kg	0.00669	95UCL	1.5E+02	4.0E+00	4E-05	2E-09
24607 MARBELLA AVE	Pyrene	mg/kg	0.408	95UCL	1.7E+03	--	2E-04	--
24607 MARBELLA AVE	Toluene	µg/kg	0.367	95UCL	4.8E+06	--	8E-08	--
24607 MARBELLA AVE	TPH as Diesel	mg/kg	189.6	95UCL	1.3E+03	--	2E-01	--
24607 MARBELLA AVE	TPH as Gasoline	mg/kg	0.076	Max	7.6E+02	--	1E-04	--
24607 MARBELLA AVE	TPH as Motor Oil	mg/kg	374.5	95UCL	3.3E+03	--	1E-01	--
24608 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	790	Max	8.3E+04	--	1E-02	--
24608 NEPTUNE AVE	1,3,5-Trimethylbenzene	µg/kg	310	Max	8.5E+04	--	4E-03	--
24608 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	1.241	95UCL	4.0E+03	1.6E+01	3E-04	8E-08
24608 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	1.7	95UCL	2.3E+02	--	7E-03	--
24608 NEPTUNE AVE	Benzene	µg/kg	0.44	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24608 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	3.2	95UCL	1.2E+03	3.5E+01	3E-03	9E-08
24608 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.84	Max	2.3E+02	1.3E+00	4E-03	7E-07
24608 NEPTUNE AVE	Ethylbenzene	µg/kg	46	Max	3.3E+06	4.8E+03	1E-05	1E-08
24608 NEPTUNE AVE	Naphthalene	mg/kg	0.79	95UCL	1.5E+02	4.0E+00	5E-03	2E-07
24608 NEPTUNE AVE	Pyrene	mg/kg	0.0727	95UCL	1.7E+03	--	4E-05	--
24608 NEPTUNE AVE	Toluene	µg/kg	0.41	95UCL	4.8E+06	--	9E-08	--
24608 NEPTUNE AVE	TPH as Diesel	mg/kg	5235	95UCL	1.3E+03	--	4E+00	--
24608 NEPTUNE AVE	TPH as Gasoline	mg/kg	113	95UCL	7.6E+02	--	2E-01	--
24608 NEPTUNE AVE	TPH as Motor Oil	mg/kg	5226	95UCL	3.3E+03	--	2E+00	--
24608 NEPTUNE AVE	Xylenes, Total	µg/kg	0.34	Max	5.6E+05	--	6E-07	--
24608 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.17	Max	8.3E+04	--	2E-06	--
24608 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.024	Max	4.0E+03	1.6E+01	6E-06	2E-09
24608 PANAMA AVE	2,4-Dinitrotoluene	mg/kg	1.6	Max	1.2E+02	1.6E+00	1E-02	1E-06
24608 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0378	95UCL	2.3E+02	--	2E-04	--
24608 PANAMA AVE	Benzene	µg/kg	0.257	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24608 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.28	Max	2.3E+02	1.3E+00	1E-03	2E-07
24608 PANAMA AVE	Naphthalene	mg/kg	0.0157	95UCL	1.5E+02	4.0E+00	1E-04	4E-09
24608 PANAMA AVE	Pyrene	mg/kg	0.161	95UCL	1.7E+03	--	9E-05	--
24608 PANAMA AVE	Thallium	mg/kg	2.228	95UCL	7.8E-01	--	3E+00	--
24608 PANAMA AVE	Toluene	µg/kg	0.572	95UCL	4.8E+06	--	1E-07	--
24608 PANAMA AVE	TPH as Diesel	mg/kg	100.9	95UCL	1.3E+03	--	8E-02	--
24608 PANAMA AVE	TPH as Gasoline	mg/kg	0.14	Max	7.6E+02	--	2E-04	--
24608 PANAMA AVE	TPH as Motor Oil	mg/kg	295	95UCL	3.3E+03	--	9E-02	--
24608 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.24	Max	8.3E+04	--	3E-06	--
24608 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0068	Max	4.0E+03	1.6E+01	2E-06	4E-10

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24608 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0424	95UCL	2.3E+02	--	2E-04	--
24608 RAVENNA AVE	Benzene	µg/kg	0.369	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24608 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.27	Max	1.2E+03	3.5E+01	2E-04	8E-09
24608 RAVENNA AVE	Bromomethane	µg/kg	2.7	Max	8.8E+03	--	3E-04	--
24608 RAVENNA AVE	Ethylbenzene	µg/kg	0.41	Max	3.3E+06	4.8E+03	1E-07	9E-11
24608 RAVENNA AVE	Naphthalene	mg/kg	0.0399	95UCL	1.5E+02	4.0E+00	3E-04	1E-08
24608 RAVENNA AVE	Pyrene	mg/kg	1.313	95UCL	1.7E+03	--	8E-04	--
24608 RAVENNA AVE	Toluene	µg/kg	0.466	95UCL	4.8E+06	--	1E-07	--
24608 RAVENNA AVE	TPH as Diesel	mg/kg	1733	95UCL	1.3E+03	--	1E+00	--
24608 RAVENNA AVE	TPH as Gasoline	mg/kg	17.25	95UCL	7.6E+02	--	2E-02	--
24608 RAVENNA AVE	TPH as Motor Oil	mg/kg	2589	95UCL	3.3E+03	--	8E-01	--
24608 RAVENNA AVE	Xylenes, Total	µg/kg	0.26	Max	5.6E+05	--	5E-07	--
24609 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	2051	95UCL	8.3E+04	--	3E-02	--
24609 NEPTUNE AVE	1,3,5-Trimethylbenzene	µg/kg	4900	Max	8.5E+04	--	6E-02	--
24609 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.719	95UCL	4.0E+03	1.6E+01	2E-04	5E-08
24609 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	1.686	95UCL	2.3E+02	--	7E-03	--
24609 NEPTUNE AVE	Benzene	µg/kg	351	95UCL	6.7E+04	2.2E+02	5E-03	2E-06
24609 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	3.5	Max	1.2E+03	3.5E+01	3E-03	1E-07
24609 NEPTUNE AVE	Bromomethane	µg/kg	2.7	Max	8.8E+03	--	3E-04	--
24609 NEPTUNE AVE	Ethylbenzene	µg/kg	3100	Max	3.3E+06	4.8E+03	1E-03	7E-07
24609 NEPTUNE AVE	Naphthalene	mg/kg	1.283	95UCL	1.5E+02	4.0E+00	9E-03	3E-07
24609 NEPTUNE AVE	Pyrene	mg/kg	0.0753	95UCL	1.7E+03	--	4E-05	--
24609 NEPTUNE AVE	Toluene	µg/kg	55.84	95UCL	4.8E+06	--	1E-05	--
24609 NEPTUNE AVE	TPH as Diesel	mg/kg	2743	95UCL	1.3E+03	--	2E+00	--
24609 NEPTUNE AVE	TPH as Gasoline	mg/kg	554.2	95UCL	7.6E+02	--	7E-01	--
24609 NEPTUNE AVE	TPH as Motor Oil	mg/kg	3265	95UCL	3.3E+03	--	1E+00	--
24609 NEPTUNE AVE	Xylenes, Total	µg/kg	7324	95UCL	5.6E+05	--	1E-02	--
24609 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	1.7	Max	8.3E+04	--	2E-05	--
24609 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0012	Max	4.0E+03	1.6E+01	3E-07	8E-11
24609 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.00487	95UCL	2.3E+02	--	2E-05	--
24609 PANAMA AVE	Benzene	µg/kg	0.627	95UCL	6.7E+04	2.2E+02	9E-06	3E-09
24609 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.34	Max	2.3E+02	1.3E+00	1E-03	3E-07
24609 PANAMA AVE	Ethylbenzene	µg/kg	0.33	Max	3.3E+06	4.8E+03	1E-07	7E-11
24609 PANAMA AVE	Naphthalene	mg/kg	0.00225	95UCL	1.5E+02	4.0E+00	2E-05	6E-10
24609 PANAMA AVE	Pyrene	mg/kg	0.0179	95UCL	1.7E+03	--	1E-05	--
24609 PANAMA AVE	Toluene	µg/kg	0.404	95UCL	4.8E+06	--	8E-08	--
24609 PANAMA AVE	TPH as Diesel	mg/kg	506.3	95UCL	1.3E+03	--	4E-01	--
24609 PANAMA AVE	TPH as Gasoline	mg/kg	0.0754	95UCL	7.6E+02	--	1E-04	--
24609 PANAMA AVE	TPH as Motor Oil	mg/kg	1106	95UCL	3.3E+03	--	3E-01	--
24609 PANAMA AVE	Xylenes, Total	µg/kg	0.75	Max	5.6E+05	--	1E-06	--
24609 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.53	Max	8.3E+04	--	6E-06	--
24609 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	0.084	Max	8.5E+04	--	1E-06	--
24609 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00348	95UCL	4.0E+03	1.6E+01	9E-07	2E-10
24609 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.00712	95UCL	2.3E+02	--	3E-05	--
24609 RAVENNA AVE	Benzene	µg/kg	0.304	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
24609 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.17	Max	1.2E+03	3.5E+01	1E-04	5E-09
24609 RAVENNA AVE	Naphthalene	mg/kg	0.00223	95UCL	1.5E+02	4.0E+00	2E-05	6E-10
24609 RAVENNA AVE	Pyrene	mg/kg	0.0243	95UCL	1.7E+03	--	1E-05	--
24609 RAVENNA AVE	Toluene	µg/kg	0.356	95UCL	4.8E+06	--	7E-08	--
24609 RAVENNA AVE	TPH as Diesel	mg/kg	800	Max	1.3E+03	--	6E-01	--
24609 RAVENNA AVE	TPH as Gasoline	mg/kg	0.0754	95UCL	7.6E+02	--	1E-04	--
24609 RAVENNA AVE	TPH as Motor Oil	mg/kg	2000	Max	3.3E+03	--	6E-01	--
24609 RAVENNA AVE	Xylenes, Total	µg/kg	0.477	95UCL	5.6E+05	--	9E-07	--
24612 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.21	Max	8.3E+04	--	3E-06	--
24612 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.18	Max	8.5E+04	--	2E-06	--
24612 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.188	95UCL	4.0E+03	1.6E+01	5E-05	1E-08
24612 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0909	95UCL	2.3E+02	--	4E-04	--
24612 MARBELLA AVE	Benzene	µg/kg	0.217	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24612 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.86	Max	1.2E+03	3.5E+01	7E-04	3E-08
24612 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.25	Max	2.3E+02	1.3E+00	1E-03	2E-07
24612 MARBELLA AVE	Cobalt	mg/kg	11.46	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24612 MARBELLA AVE	Ethylbenzene	µg/kg	0.59	Max	3.3E+06	4.8E+03	2E-07	1E-10

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$ 2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24612 MARBELLA AVE	Naphthalene	mg/kg	0.0823	95UCL	1.5E+02	4.0E+00	6E-04	2E-08
24612 MARBELLA AVE	Pyrene	mg/kg	0.199	95UCL	1.7E+03	--	1E-04	--
24612 MARBELLA AVE	Toluene	µg/kg	0.281	95UCL	4.8E+06	--	6E-08	--
24612 MARBELLA AVE	TPH as Diesel	mg/kg	916.8	95UCL	1.3E+03	--	7E-01	--
24612 MARBELLA AVE	TPH as Gasoline	mg/kg	0.082	Max	7.6E+02	--	1E-04	--
24612 MARBELLA AVE	TPH as Motor Oil	mg/kg	1351	95UCL	3.3E+03	--	4E-01	--
24612 MARBELLA AVE	Xylenes, Total	µg/kg	0.36	Max	5.6E+05	--	7E-07	--
24612 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0043	Max	4.0E+03	1.6E+01	1E-06	3E-10
24612 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0085	Max	2.3E+02	--	4E-05	--
24612 NEPTUNE AVE	Benzene	µg/kg	0.29	Max	6.7E+04	2.2E+02	4E-06	1E-09
24612 NEPTUNE AVE	Benzo (a) Anthracene	mg/kg	0.016	Max	--	1.6E+00	--	1E-08
24612 NEPTUNE AVE	Benzo (a) Pyrene	mg/kg	0.025	Max	--	1.6E-01	--	2E-07
24612 NEPTUNE AVE	Benzo (b) Fluoranthene	mg/kg	0.021	Max	--	1.6E+00	--	1E-08
24612 NEPTUNE AVE	Benzo (k) Fluoranthene	mg/kg	0.011	Max	--	1.6E+00	--	7E-09
24612 NEPTUNE AVE	Chrysene	mg/kg	0.041	Max	--	1.6E+01	--	3E-09
24612 NEPTUNE AVE	Dibenz (a,h) Anthracene	mg/kg	0.0009	Max	--	1.1E-01	--	8E-09
24612 NEPTUNE AVE	Indeno (1,2,3-c,d) Pyrene	mg/kg	0.0017	Max	--	1.6E+00	--	1E-09
24612 NEPTUNE AVE	Naphthalene	mg/kg	0.0046	Max	1.5E+02	4.0E+00	3E-05	1E-09
24612 NEPTUNE AVE	Pyrene	mg/kg	0.029	Max	1.7E+03	--	2E-05	--
24612 NEPTUNE AVE	Toluene	µg/kg	0.24	Max	4.8E+06	--	5E-08	--
24612 NEPTUNE AVE	TPH as Diesel	mg/kg	150	Max	1.3E+03	--	1E-01	--
24612 NEPTUNE AVE	TPH as Motor Oil	mg/kg	380	Max	3.3E+03	--	1E-01	--
24612 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.00722	95UCL	4.0E+03	1.6E+01	2E-06	5E-10
24612 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0345	95UCL	2.3E+02	--	2E-04	--
24612 PANAMA AVE	Benzene	µg/kg	0.279	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24612 PANAMA AVE	Ethylbenzene	µg/kg	0.17	Max	3.3E+06	4.8E+03	5E-08	4E-11
24612 PANAMA AVE	Naphthalene	mg/kg	0.126	95UCL	1.5E+02	4.0E+00	8E-04	3E-08
24612 PANAMA AVE	Pyrene	mg/kg	0.253	95UCL	1.7E+03	--	2E-04	--
24612 PANAMA AVE	Toluene	µg/kg	0.56	Max	4.8E+06	--	1E-07	--
24612 PANAMA AVE	TPH as Diesel	mg/kg	86.77	95UCL	1.3E+03	--	7E-02	--
24612 PANAMA AVE	TPH as Gasoline	mg/kg	0.09	Max	7.6E+02	--	1E-04	--
24612 PANAMA AVE	TPH as Motor Oil	mg/kg	289	95UCL	3.3E+03	--	9E-02	--
24612 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.204	95UCL	8.3E+04	--	3E-06	--
24612 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00772	95UCL	4.0E+03	1.6E+01	2E-06	5E-10
24612 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0393	95UCL	2.3E+02	--	2E-04	--
24612 RAVENNA AVE	Benzene	µg/kg	0.454	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24612 RAVENNA AVE	Bromomethane	µg/kg	2	Max	8.8E+03	--	2E-04	--
24612 RAVENNA AVE	Ethylbenzene	µg/kg	0.251	95UCL	3.3E+06	4.8E+03	8E-08	5E-11
24612 RAVENNA AVE	Naphthalene	mg/kg	0.00963	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
24612 RAVENNA AVE	Pyrene	mg/kg	0.16	95UCL	1.7E+03	--	9E-05	--
24612 RAVENNA AVE	Toluene	µg/kg	0.341	95UCL	4.8E+06	--	7E-08	--
24612 RAVENNA AVE	TPH as Diesel	mg/kg	369.1	95UCL	1.3E+03	--	3E-01	--
24612 RAVENNA AVE	TPH as Gasoline	mg/kg	0.14	Max	7.6E+02	--	2E-04	--
24612 RAVENNA AVE	TPH as Motor Oil	mg/kg	684.7	95UCL	3.3E+03	--	2E-01	--
24612 RAVENNA AVE	Xylenes, Total	µg/kg	0.342	95UCL	5.6E+05	--	6E-07	--
24613 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	2.1	Max	8.3E+04	--	3E-05	--
24613 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.51	Max	8.5E+04	--	6E-06	--
24613 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.009	Max	4.0E+03	1.6E+01	2E-06	6E-10
24613 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.00303	95UCL	2.3E+02	--	1E-05	--
24613 MARBELLA AVE	Benzene	µg/kg	2.639	95UCL	6.7E+04	2.2E+02	4E-05	1E-08
24613 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.48	Max	1.2E+03	3.5E+01	4E-04	1E-08
24613 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.3	Max	2.3E+02	1.3E+00	1E-03	2E-07
24613 MARBELLA AVE	Cobalt	mg/kg	12.06	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24613 MARBELLA AVE	Ethylbenzene	µg/kg	0.99	Max	3.3E+06	4.8E+03	3E-07	2E-10
24613 MARBELLA AVE	Naphthalene	mg/kg	0.0042	Max	1.5E+02	4.0E+00	3E-05	1E-09
24613 MARBELLA AVE	Pyrene	mg/kg	0.078	95UCL	1.7E+03	--	5E-05	--
24613 MARBELLA AVE	Toluene	µg/kg	1.546	95UCL	4.8E+06	--	3E-07	--
24613 MARBELLA AVE	TPH as Diesel	mg/kg	49.58	95UCL	1.3E+03	--	4E-02	--
24613 MARBELLA AVE	TPH as Gasoline	mg/kg	3.144	95UCL	7.6E+02	--	4E-03	--
24613 MARBELLA AVE	TPH as Motor Oil	mg/kg	192.1	95UCL	3.3E+03	--	6E-02	--
24613 MARBELLA AVE	Vanadium	mg/kg	41.63	95UCL	3.9E+02	--	1E-01	--
24613 MARBELLA AVE	Xylenes, Total	µg/kg	6.3	Max	5.6E+05	--	1E-05	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil <=2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24613 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.99	Max	8.3E+04	--	1E-05	--
24613 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	1.244	95UCL	4.0E+03	1.6E+01	3E-04	8E-08
24613 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	11.12	95UCL	2.3E+02	--	5E-02	--
24613 NEPTUNE AVE	Benzene	µg/kg	0.557	95UCL	6.7E+04	2.2E+02	8E-06	3E-09
24613 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.75	Max	1.2E+03	3.5E+01	6E-04	2E-08
24613 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.4	Max	2.3E+02	1.3E+00	2E-03	3E-07
24613 NEPTUNE AVE	Ethylbenzene	µg/kg	0.74	Max	3.3E+06	4.8E+03	2E-07	2E-10
24613 NEPTUNE AVE	Naphthalene	mg/kg	2.693	95UCL	1.5E+02	4.0E+00	2E-02	7E-07
24613 NEPTUNE AVE	Pyrene	mg/kg	1.348	95UCL	1.7E+03	--	8E-04	--
24613 NEPTUNE AVE	Toluene	µg/kg	0.25	Max	4.8E+06	--	5E-08	--
24613 NEPTUNE AVE	TPH as Diesel	mg/kg	6875	95UCL	1.3E+03	--	5E+00	--
24613 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.106	95UCL	7.6E+02	--	1E-04	--
24613 NEPTUNE AVE	TPH as Motor Oil	mg/kg	5989	95UCL	3.3E+03	--	2E+00	--
24613 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.311	95UCL	8.3E+04	--	4E-06	--
24613 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.11	Max	8.5E+04	--	1E-06	--
24613 PANAMA AVE	1,4-Dichlorobenzene	µg/kg	0.19	Max	3.6E+06	2.8E+03	5E-08	7E-11
24613 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.008	Max	4.0E+03	1.6E+01	2E-06	5E-10
24613 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.012	95UCL	2.3E+02	--	5E-05	--
24613 PANAMA AVE	Benzene	µg/kg	1.156	95UCL	6.7E+04	2.2E+02	2E-05	5E-09
24613 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.4	Max	2.3E+02	1.3E+00	2E-03	3E-07
24613 PANAMA AVE	Ethylbenzene	µg/kg	0.319	95UCL	3.3E+06	4.8E+03	1E-07	7E-11
24613 PANAMA AVE	Naphthalene	mg/kg	0.00176	95UCL	1.5E+02	4.0E+00	1E-05	4E-10
24613 PANAMA AVE	Pyrene	mg/kg	0.0431	95UCL	1.7E+03	--	3E-05	--
24613 PANAMA AVE	Toluene	µg/kg	0.884	95UCL	4.8E+06	--	2E-07	--
24613 PANAMA AVE	TPH as Diesel	mg/kg	453.5	95UCL	1.3E+03	--	4E-01	--
24613 PANAMA AVE	TPH as Gasoline	mg/kg	0.113	95UCL	7.6E+02	--	2E-04	--
24613 PANAMA AVE	TPH as Motor Oil	mg/kg	647.9	95UCL	3.3E+03	--	2E-01	--
24613 PANAMA AVE	Trichloroethene	µg/kg	0.15	Max	5.8E+03	1.2E+03	3E-05	1E-10
24613 PANAMA AVE	Vinyl Chloride	µg/kg	0.23	Max	7.4E+04	3.2E+01	3E-06	7E-09
24613 PANAMA AVE	Xylenes, Total	µg/kg	0.523	95UCL	5.6E+05	--	9E-07	--
24613 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	14.21	95UCL	8.3E+04	--	2E-04	--
24613 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	11	Max	8.5E+04	--	1E-04	--
24613 RAVENNA AVE	1-Methylnaphthalene	mg/kg	1	Max	4.0E+03	1.6E+01	3E-04	6E-08
24613 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.207	95UCL	2.3E+02	--	9E-04	--
24613 RAVENNA AVE	Benzene	µg/kg	0.334	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24613 RAVENNA AVE	Bromomethane	µg/kg	1.5	Max	8.8E+03	--	2E-04	--
24613 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.2	Max	2.3E+02	1.3E+00	9E-04	2E-07
24613 RAVENNA AVE	Ethylbenzene	µg/kg	1	Max	3.3E+06	4.8E+03	3E-07	2E-10
24613 RAVENNA AVE	Naphthalene	mg/kg	0.0326	95UCL	1.5E+02	4.0E+00	2E-04	8E-09
24613 RAVENNA AVE	Pyrene	mg/kg	0.0996	95UCL	1.7E+03	--	6E-05	--
24613 RAVENNA AVE	Toluene	µg/kg	0.448	95UCL	4.8E+06	--	9E-08	--
24613 RAVENNA AVE	TPH as Diesel	mg/kg	593.5	95UCL	1.3E+03	--	5E-01	--
24613 RAVENNA AVE	TPH as Gasoline	mg/kg	79.94	95UCL	7.6E+02	--	1E-01	--
24613 RAVENNA AVE	TPH as Motor Oil	mg/kg	841.3	95UCL	3.3E+03	--	3E-01	--
24613 RAVENNA AVE	Xylenes, Total	µg/kg	0.629	95UCL	5.6E+05	--	1E-06	--
24616 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	3.584	95UCL	8.3E+04	--	4E-05	--
24616 MARBELLA AVE	1,2-Dichloropropane	µg/kg	0.31	Max	1.5E+04	8.3E+02	2E-05	4E-10
24616 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.4	Max	8.5E+04	--	5E-06	--
24616 MARBELLA AVE	1,4-Dichlorobenzene	µg/kg	0.188	95UCL	3.6E+06	2.8E+03	5E-08	7E-11
24616 MARBELLA AVE	1-Methylnaphthalene	mg/kg	1.25	95UCL	4.0E+03	1.6E+01	3E-04	8E-08
24616 MARBELLA AVE	2-Methylnaphthalene	mg/kg	1.73	95UCL	2.3E+02	--	8E-03	--
24616 MARBELLA AVE	Benzene	µg/kg	2.258	95UCL	6.7E+04	2.2E+02	3E-05	1E-08
24616 MARBELLA AVE	Benzo (a) Anthracene	mg/kg	0.0885	95UCL	--	1.6E+00	--	6E-08
24616 MARBELLA AVE	Benzo (a) Pyrene	mg/kg	0.0498	95UCL	--	1.6E-01	--	3E-07
24616 MARBELLA AVE	Benzo (b) Fluoranthene	mg/kg	0.0327	95UCL	--	1.6E+00	--	2E-08
24616 MARBELLA AVE	Benzo (k) Fluoranthene	mg/kg	0.0104	95UCL	--	1.6E+00	--	7E-09
24616 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.24	Max	1.2E+03	3.5E+01	2E-04	7E-09
24616 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.88	Max	2.3E+02	1.3E+00	4E-03	7E-07
24616 MARBELLA AVE	Chrysene	mg/kg	0.25	95UCL	--	1.6E+01	--	2E-08
24616 MARBELLA AVE	Cobalt	mg/kg	10.76	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24616 MARBELLA AVE	Dibenz (a,h) Anthracene	mg/kg	0.012	95UCL	--	1.1E-01	--	1E-07
24616 MARBELLA AVE	Ethylbenzene	µg/kg	4.988	95UCL	3.3E+06	4.8E+03	2E-06	1E-09

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$ 2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24616 MARBELLA AVE	Indeno (1,2,3-c,d) Pyrene	mg/kg	0.0176	95UCL	--	1.6E+00	--	1E-08
24616 MARBELLA AVE	Naphthalene	mg/kg	0.611	95UCL	1.5E+02	4.0E+00	4E-03	2E-07
24616 MARBELLA AVE	Pyrene	mg/kg	0.316	95UCL	1.7E+03	--	2E-04	--
24616 MARBELLA AVE	Toluene	µg/kg	0.366	95UCL	4.8E+06	--	8E-08	--
24616 MARBELLA AVE	TPH as Diesel	mg/kg	1877	95UCL	1.3E+03	--	1E+00	--
24616 MARBELLA AVE	TPH as Gasoline	mg/kg	0.108	95UCL	7.6E+02	--	1E-04	--
24616 MARBELLA AVE	TPH as Motor Oil	mg/kg	2119	95UCL	3.3E+03	--	6E-01	--
24616 MARBELLA AVE	Trichloroethene	µg/kg	0.24	Max	5.8E+03	1.2E+03	4E-05	2E-10
24616 MARBELLA AVE	Xylenes, Total	µg/kg	1.178	95UCL	5.6E+05	--	2E-06	--
24617 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0017	Max	4.0E+03	1.6E+01	4E-07	1E-10
24617 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0035	Max	2.3E+02	--	2E-05	--
24617 MARBELLA AVE	Benzene	µg/kg	0.417	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24617 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.28	Max	2.3E+02	1.3E+00	1E-03	2E-07
24617 MARBELLA AVE	Cobalt	mg/kg	13.48	95UCL	2.3E+01	3.1E+04	6E-01	4E-10
24617 MARBELLA AVE	Naphthalene	mg/kg	0.0015	Max	1.5E+02	4.0E+00	1E-05	4E-10
24617 MARBELLA AVE	Pyrene	mg/kg	0.00577	95UCL	1.7E+03	--	3E-06	--
24617 MARBELLA AVE	Thallium	mg/kg	0.641	95UCL	7.8E-01	--	8E-01	--
24617 MARBELLA AVE	Toluene	µg/kg	0.487	95UCL	4.8E+06	--	1E-07	--
24617 MARBELLA AVE	TPH as Diesel	mg/kg	27.44	95UCL	1.3E+03	--	2E-02	--
24617 MARBELLA AVE	TPH as Gasoline	mg/kg	0.051	Max	7.6E+02	--	7E-05	--
24617 MARBELLA AVE	TPH as Motor Oil	mg/kg	84.61	95UCL	3.3E+03	--	3E-02	--
24617 MARBELLA AVE	Vanadium	mg/kg	49	95UCL	3.9E+02	--	1E-01	--
24617 MARBELLA AVE	Xylenes, Total	µg/kg	0.77	Max	5.6E+05	--	1E-06	--
24618 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.6	Max	8.3E+04	--	7E-06	--
24618 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00897	95UCL	4.0E+03	1.6E+01	2E-06	6E-10
24618 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.05	95UCL	2.3E+02	--	2E-04	--
24618 NEPTUNE AVE	Benzene	µg/kg	0.661	95UCL	6.7E+04	2.2E+02	1E-05	3E-09
24618 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.35	Max	1.2E+03	3.5E+01	3E-04	1E-08
24618 NEPTUNE AVE	Bromomethane	µg/kg	1.9	Max	8.8E+03	--	2E-04	--
24618 NEPTUNE AVE	Ethylbenzene	µg/kg	0.29	Max	3.3E+06	4.8E+03	9E-08	6E-11
24618 NEPTUNE AVE	Naphthalene	mg/kg	0.0115	95UCL	1.5E+02	4.0E+00	8E-05	3E-09
24618 NEPTUNE AVE	Pyrene	mg/kg	0.133	95UCL	1.7E+03	--	8E-05	--
24618 NEPTUNE AVE	Tetrachloroethene	µg/kg	0.2	Max	8.6E+04	5.5E+02	2E-06	4E-10
24618 NEPTUNE AVE	Toluene	µg/kg	0.55	95UCL	4.8E+06	--	1E-07	--
24618 NEPTUNE AVE	TPH as Diesel	mg/kg	249.1	95UCL	1.3E+03	--	2E-01	--
24618 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.104	95UCL	7.6E+02	--	1E-04	--
24618 NEPTUNE AVE	TPH as Motor Oil	mg/kg	617.2	95UCL	3.3E+03	--	2E-01	--
24618 NEPTUNE AVE	Xylenes, Total	µg/kg	1	Max	5.6E+05	--	2E-06	--
24618 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.399	95UCL	8.3E+04	--	5E-06	--
24618 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.15	Max	8.5E+04	--	2E-06	--
24618 PANAMA AVE	1,4-Dichlorobenzene	µg/kg	0.192	95UCL	3.6E+06	2.8E+03	5E-08	7E-11
24618 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.654	95UCL	4.0E+03	1.6E+01	2E-04	4E-08
24618 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.269	95UCL	2.3E+02	--	1E-03	--
24618 PANAMA AVE	Benzene	µg/kg	0.469	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24618 PANAMA AVE	Ethylbenzene	µg/kg	0.48	Max	3.3E+06	4.8E+03	2E-07	1E-10
24618 PANAMA AVE	Naphthalene	mg/kg	0.11	95UCL	1.5E+02	4.0E+00	7E-04	3E-08
24618 PANAMA AVE	Pyrene	mg/kg	2.484	95UCL	1.7E+03	--	1E-03	--
24618 PANAMA AVE	Toluene	µg/kg	0.904	95UCL	4.8E+06	--	2E-07	--
24618 PANAMA AVE	TPH as Diesel	mg/kg	3040	95UCL	1.3E+03	--	2E+00	--
24618 PANAMA AVE	TPH as Gasoline	mg/kg	0.072	Max	7.6E+02	--	1E-04	--
24618 PANAMA AVE	TPH as Motor Oil	mg/kg	5336	95UCL	3.3E+03	--	2E+00	--
24618 PANAMA AVE	Trichloroethene	µg/kg	0.42	Max	5.8E+03	1.2E+03	7E-05	4E-10
24618 PANAMA AVE	Xylenes, Total	µg/kg	0.612	95UCL	5.6E+05	--	1E-06	--
24618 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00617	95UCL	4.0E+03	1.6E+01	2E-06	4E-10
24618 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.00712	95UCL	2.3E+02	--	3E-05	--
24618 RAVENNA AVE	Benzene	µg/kg	0.289	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24618 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.44	Max	2.3E+02	1.3E+00	2E-03	3E-07
24618 RAVENNA AVE	Naphthalene	mg/kg	0.0142	95UCL	1.5E+02	4.0E+00	9E-05	4E-09
24618 RAVENNA AVE	Pyrene	mg/kg	0.0213	95UCL	1.7E+03	--	1E-05	--
24618 RAVENNA AVE	Toluene	µg/kg	0.284	95UCL	4.8E+06	--	6E-08	--
24618 RAVENNA AVE	TPH as Diesel	mg/kg	81.15	95UCL	1.3E+03	--	6E-02	--
24618 RAVENNA AVE	TPH as Gasoline	mg/kg	0.0762	95UCL	7.6E+02	--	1E-04	--

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$  2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24618 RAVENNA AVE	TPH as Motor Oil	mg/kg	270.2	95UCL	3.3E+03	--	8E-02	--
24618 RAVENNA AVE	Xylenes, Total	$\mu$ g/kg	0.2	Max	5.6E+05	--	4E-07	--
24619 NEPTUNE AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.23	Max	8.3E+04	--	3E-06	--
24619 NEPTUNE AVE	1,4-Dichlorobenzene	$\mu$ g/kg	0.14	Max	3.6E+06	2.8E+03	4E-08	5E-11
24619 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0045	95UCL	4.0E+03	1.6E+01	1E-06	3E-10
24619 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.00943	95UCL	2.3E+02	--	4E-05	--
24619 NEPTUNE AVE	Benzene	$\mu$ g/kg	0.336	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24619 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.917	95UCL	1.2E+03	3.5E+01	8E-04	3E-08
24619 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.8	Max	2.3E+02	1.3E+00	3E-03	6E-07
24619 NEPTUNE AVE	Ethylbenzene	$\mu$ g/kg	0.18	Max	3.3E+06	4.8E+03	6E-08	4E-11
24619 NEPTUNE AVE	Naphthalene	mg/kg	0.00348	95UCL	1.5E+02	4.0E+00	2E-05	9E-10
24619 NEPTUNE AVE	Pyrene	mg/kg	0.0275	95UCL	1.7E+03	--	2E-05	--
24619 NEPTUNE AVE	Toluene	$\mu$ g/kg	0.206	95UCL	4.8E+06	--	4E-08	--
24619 NEPTUNE AVE	TPH as Diesel	mg/kg	505.7	95UCL	1.3E+03	--	4E-01	--
24619 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.2	Max	7.6E+02	--	3E-04	--
24619 NEPTUNE AVE	TPH as Motor Oil	mg/kg	1315	95UCL	3.3E+03	--	4E-01	--
24619 PANAMA AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.31	Max	8.3E+04	--	4E-06	--
24619 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0112	95UCL	4.0E+03	1.6E+01	3E-06	7E-10
24619 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0507	95UCL	2.3E+02	--	2E-04	--
24619 PANAMA AVE	Benzene	$\mu$ g/kg	0.271	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24619 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.65	Max	1.2E+03	3.5E+01	5E-04	2E-08
24619 PANAMA AVE	Ethylbenzene	$\mu$ g/kg	0.14	Max	3.3E+06	4.8E+03	4E-08	3E-11
24619 PANAMA AVE	Naphthalene	mg/kg	0.0815	95UCL	1.5E+02	4.0E+00	5E-04	2E-08
24619 PANAMA AVE	Pyrene	mg/kg	0.219	95UCL	1.7E+03	--	1E-04	--
24619 PANAMA AVE	Toluene	$\mu$ g/kg	0.255	95UCL	4.8E+06	--	5E-08	--
24619 PANAMA AVE	TPH as Diesel	mg/kg	287.4	95UCL	1.3E+03	--	2E-01	--
24619 PANAMA AVE	TPH as Gasoline	mg/kg	0.0993	95UCL	7.6E+02	--	1E-04	--
24619 PANAMA AVE	TPH as Motor Oil	mg/kg	1126	95UCL	3.3E+03	--	3E-01	--
24619 RAVENNA AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.411	95UCL	8.3E+04	--	5E-06	--
24619 RAVENNA AVE	1,3,5-Trimethylbenzene	$\mu$ g/kg	0.24	Max	8.5E+04	--	3E-06	--
24619 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00643	95UCL	4.0E+03	1.6E+01	2E-06	4E-10
24619 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0327	95UCL	2.3E+02	--	1E-04	--
24619 RAVENNA AVE	Benzene	$\mu$ g/kg	0.453	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24619 RAVENNA AVE	Bromomethane	$\mu$ g/kg	1.7	Max	8.8E+03	--	2E-04	--
24619 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.22	Max	2.3E+02	1.3E+00	9E-04	2E-07
24619 RAVENNA AVE	Ethylbenzene	$\mu$ g/kg	0.16	Max	3.3E+06	4.8E+03	5E-08	3E-11
24619 RAVENNA AVE	Naphthalene	mg/kg	0.0154	95UCL	1.5E+02	4.0E+00	1E-04	4E-09
24619 RAVENNA AVE	Pyrene	mg/kg	0.102	95UCL	1.7E+03	--	6E-05	--
24619 RAVENNA AVE	Tetrachloroethene	$\mu$ g/kg	0.97	Max	8.6E+04	5.5E+02	1E-05	2E-09
24619 RAVENNA AVE	Toluene	$\mu$ g/kg	0.594	95UCL	4.8E+06	--	1E-07	--
24619 RAVENNA AVE	TPH as Diesel	mg/kg	77.81	95UCL	1.3E+03	--	6E-02	--
24619 RAVENNA AVE	TPH as Gasoline	mg/kg	0.286	95UCL	7.6E+02	--	4E-04	--
24619 RAVENNA AVE	TPH as Motor Oil	mg/kg	204.3	95UCL	3.3E+03	--	6E-02	--
24619 RAVENNA AVE	Xylenes, Total	$\mu$ g/kg	1.107	95UCL	5.6E+05	--	2E-06	--
24622 MARBELLA AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.439	95UCL	8.3E+04	--	5E-06	--
24622 MARBELLA AVE	1,3,5-Trimethylbenzene	$\mu$ g/kg	0.2	Max	8.5E+04	--	2E-06	--
24622 MARBELLA AVE	1,4-Dichlorobenzene	$\mu$ g/kg	0.46	Max	3.6E+06	2.8E+03	1E-07	2E-10
24622 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.006	95UCL	4.0E+03	1.6E+01	2E-06	4E-10
24622 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0053	95UCL	2.3E+02	--	2E-05	--
24622 MARBELLA AVE	Benzene	$\mu$ g/kg	0.427	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24622 MARBELLA AVE	Benzo (a) Anthracene	mg/kg	0.0152	95UCL	--	1.6E+00	--	1E-08
24622 MARBELLA AVE	Benzo (a) Pyrene	mg/kg	0.012	95UCL	--	1.6E-01	--	8E-08
24622 MARBELLA AVE	Benzo (b) Fluoranthene	mg/kg	0.00793	95UCL	--	1.6E+00	--	5E-09
24622 MARBELLA AVE	Benzo (k) Fluoranthene	mg/kg	0.026	Max	--	1.6E+00	--	2E-08
24622 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.4	Max	1.2E+03	3.5E+01	3E-04	1E-08
24622 MARBELLA AVE	Bromomethane	$\mu$ g/kg	1.8	Max	8.8E+03	--	2E-04	--
24622 MARBELLA AVE	Chrysene	mg/kg	0.0333	95UCL	--	1.6E+01	--	2E-09
24622 MARBELLA AVE	Cobalt	mg/kg	12.04	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24622 MARBELLA AVE	Dibenz (a,h) Anthracene	mg/kg	0.014	Max	--	1.1E-01	--	1E-07
24622 MARBELLA AVE	Ethylbenzene	$\mu$ g/kg	0.41	Max	3.3E+06	4.8E+03	1E-07	9E-11
24622 MARBELLA AVE	Indeno (1,2,3-c,d) Pyrene	mg/kg	0.0104	95UCL	--	1.6E+00	--	7E-09
24622 MARBELLA AVE	Naphthalene	mg/kg	0.00191	95UCL	1.5E+02	4.0E+00	1E-05	5E-10

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil ≤2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24622 MARBELLA AVE	Pyrene	mg/kg	0.0239	95UCL	1.7E+03	--	1E-05	--
24622 MARBELLA AVE	Toluene	µg/kg	1.425	95UCL	4.8E+06	--	3E-07	--
24622 MARBELLA AVE	TPH as Diesel	mg/kg	125.5	95UCL	1.3E+03	--	1E-01	--
24622 MARBELLA AVE	TPH as Gasoline	mg/kg	0.118	95UCL	7.6E+02	--	2E-04	--
24622 MARBELLA AVE	TPH as Motor Oil	mg/kg	502.8	95UCL	3.3E+03	--	2E-01	--
24622 MARBELLA AVE	Vanadium	mg/kg	41.45	95UCL	3.9E+02	--	1E-01	--
24622 MARBELLA AVE	Xylenes, Total	µg/kg	0.473	95UCL	5.6E+05	--	9E-07	--
24622 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.217	95UCL	8.3E+04	--	3E-06	--
24622 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00674	95UCL	4.0E+03	1.6E+01	2E-06	4E-10
24622 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.018	95UCL	2.3E+02	--	8E-05	--
24622 NEPTUNE AVE	Benzene	µg/kg	0.198	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24622 NEPTUNE AVE	Bromomethane	µg/kg	2.1	Max	8.8E+03	--	2E-04	--
24622 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.3	Max	2.3E+02	1.3E+00	1E-03	2E-07
24622 NEPTUNE AVE	Naphthalene	mg/kg	0.0462	95UCL	1.5E+02	4.0E+00	3E-04	1E-08
24622 NEPTUNE AVE	Pyrene	mg/kg	0.0485	95UCL	1.7E+03	--	3E-05	--
24622 NEPTUNE AVE	Toluene	µg/kg	0.267	95UCL	4.8E+06	--	6E-08	--
24622 NEPTUNE AVE	TPH as Diesel	mg/kg	603.7	95UCL	1.3E+03	--	5E-01	--
24622 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.057	Max	7.6E+02	--	8E-05	--
24622 NEPTUNE AVE	TPH as Motor Oil	mg/kg	1325	95UCL	3.3E+03	--	4E-01	--
24622 NEPTUNE AVE	Vinyl Chloride	µg/kg	0.19	Max	7.4E+04	3.2E+01	3E-06	6E-09
24622 NEPTUNE AVE	Xylenes, Total	µg/kg	0.25	Max	5.6E+05	--	5E-07	--
24623 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.00381	95UCL	4.0E+03	1.6E+01	1E-06	2E-10
24623 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0113	95UCL	2.3E+02	--	5E-05	--
24623 MARBELLA AVE	Benzene	µg/kg	0.191	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24623 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.25	Max	2.3E+02	1.3E+00	1E-03	2E-07
24623 MARBELLA AVE	Cobalt	mg/kg	12.02	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24623 MARBELLA AVE	Naphthalene	mg/kg	0.00407	95UCL	1.5E+02	4.0E+00	3E-05	1E-09
24623 MARBELLA AVE	Pyrene	mg/kg	0.00988	95UCL	1.7E+03	--	6E-06	--
24623 MARBELLA AVE	Toluene	µg/kg	0.34	Max	4.8E+06	--	7E-08	--
24623 MARBELLA AVE	TPH as Diesel	mg/kg	35.13	95UCL	1.3E+03	--	3E-02	--
24623 MARBELLA AVE	TPH as Gasoline	mg/kg	0.12	Max	7.6E+02	--	2E-04	--
24623 MARBELLA AVE	TPH as Motor Oil	mg/kg	160.5	95UCL	3.3E+03	--	5E-02	--
24623 MARBELLA AVE	Vanadium	mg/kg	42.64	95UCL	3.9E+02	--	1E-01	--
24623 NEPTUNE AVE	1,4-Dichlorobenzene	µg/kg	0.16	Max	3.6E+06	2.8E+03	4E-08	6E-11
24623 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.021	Max	4.0E+03	1.6E+01	5E-06	1E-09
24623 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0309	95UCL	2.3E+02	--	1E-04	--
24623 NEPTUNE AVE	Benzene	µg/kg	0.359	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24623 NEPTUNE AVE	Benzo (a) Anthracene	mg/kg	0.0548	95UCL	--	1.6E+00	--	4E-08
24623 NEPTUNE AVE	Benzo (a) Pyrene	mg/kg	0.0518	95UCL	--	1.6E-01	--	3E-07
24623 NEPTUNE AVE	Benzo (b) Fluoranthene	mg/kg	0.0371	95UCL	--	1.6E+00	--	2E-08
24623 NEPTUNE AVE	Benzo (k) Fluoranthene	mg/kg	0.017	Max	--	1.6E+00	--	1E-08
24623 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.36	Max	1.2E+03	3.5E+01	3E-04	1E-08
24623 NEPTUNE AVE	Bromodichloromethane	µg/kg	0.21	Max	4.3E+05	4.9E+02	5E-07	4E-10
24623 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.26	Max	2.3E+02	1.3E+00	1E-03	2E-07
24623 NEPTUNE AVE	Chrysene	mg/kg	0.228	95UCL	--	1.6E+01	--	2E-08
24623 NEPTUNE AVE	Dibenz (a,h) Anthracene	mg/kg	0.0135	95UCL	--	1.1E-01	--	1E-07
24623 NEPTUNE AVE	Ethylbenzene	µg/kg	0.19	Max	3.3E+06	4.8E+03	6E-08	4E-11
24623 NEPTUNE AVE	Indeno (1,2,3-c,d) Pyrene	mg/kg	0.0183	95UCL	--	1.6E+00	--	1E-08
24623 NEPTUNE AVE	Naphthalene	mg/kg	0.015	Max	1.5E+02	4.0E+00	1E-04	4E-09
24623 NEPTUNE AVE	Pyrene	mg/kg	0.0948	95UCL	1.7E+03	--	6E-05	--
24623 NEPTUNE AVE	Toluene	µg/kg	0.606	95UCL	4.8E+06	--	1E-07	--
24623 NEPTUNE AVE	TPH as Diesel	mg/kg	1225	95UCL	1.3E+03	--	9E-01	--
24623 NEPTUNE AVE	TPH as Gasoline	mg/kg	68	Max	7.6E+02	--	9E-02	--
24623 NEPTUNE AVE	TPH as Motor Oil	mg/kg	2302	95UCL	3.3E+03	--	7E-01	--
24623 NEPTUNE AVE	Xylenes, Total	µg/kg	0.47	Max	5.6E+05	--	8E-07	--
24627 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.398	95UCL	8.3E+04	--	5E-06	--
24627 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0265	95UCL	4.0E+03	1.6E+01	7E-06	2E-09
24627 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0621	95UCL	2.3E+02	--	3E-04	--
24627 MARBELLA AVE	Benzene	µg/kg	0.4	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24627 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.4	Max	2.3E+02	1.3E+00	2E-03	3E-07
24627 MARBELLA AVE	Cobalt	mg/kg	12.86	95UCL	2.3E+01	3.1E+04	6E-01	4E-10
24627 MARBELLA AVE	Ethylbenzene	µg/kg	0.59	Max	3.3E+06	4.8E+03	2E-07	1E-10

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$  2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24627 MARBELLA AVE	Naphthalene	mg/kg	0.00815	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24627 MARBELLA AVE	Pyrene	mg/kg	0.0722	95UCL	1.7E+03	--	4E-05	--
24627 MARBELLA AVE	Toluene	µg/kg	1.663	95UCL	4.8E+06	--	4E-07	--
24627 MARBELLA AVE	TPH as Diesel	mg/kg	491.8	95UCL	1.3E+03	--	4E-01	--
24627 MARBELLA AVE	TPH as Gasoline	mg/kg	0.199	95UCL	7.6E+02	--	3E-04	--
24627 MARBELLA AVE	TPH as Motor Oil	mg/kg	1106	95UCL	3.3E+03	--	3E-01	--
24627 MARBELLA AVE	Vanadium	mg/kg	44.04	95UCL	3.9E+02	--	1E-01	--
24627 MARBELLA AVE	Xylenes, Total	µg/kg	0.245	95UCL	5.6E+05	--	4E-07	--
24628 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.3	Max	8.3E+04	--	4E-06	--
24628 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.014	95UCL	4.0E+03	1.6E+01	4E-06	9E-10
24628 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.00878	95UCL	2.3E+02	--	4E-05	--
24628 MARBELLA AVE	Benzene	µg/kg	0.212	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24628 MARBELLA AVE	Bromodichloromethane	µg/kg	0.45	Max	4.3E+05	4.9E+02	1E-06	9E-10
24628 MARBELLA AVE	Bromomethane	µg/kg	169.9	95UCL	8.8E+03	--	2E-02	--
24628 MARBELLA AVE	Chromium, Hexavalent	mg/kg	1.5	Max	2.3E+02	1.3E+00	6E-03	1E-06
24628 MARBELLA AVE	Cobalt	mg/kg	11.79	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24628 MARBELLA AVE	Ethylbenzene	µg/kg	0.37	Max	3.3E+06	4.8E+03	1E-07	8E-11
24628 MARBELLA AVE	Methylene Chloride	µg/kg	2100	Max	3.6E+05	5.3E+03	6E-03	4E-07
24628 MARBELLA AVE	Naphthalene	mg/kg	0.004	95UCL	1.5E+02	4.0E+00	3E-05	1E-09
24628 MARBELLA AVE	Pyrene	mg/kg	0.0225	95UCL	1.7E+03	--	1E-05	--
24628 MARBELLA AVE	Toluene	µg/kg	0.247	95UCL	4.8E+06	--	5E-08	--
24628 MARBELLA AVE	TPH as Diesel	mg/kg	606.1	95UCL	1.3E+03	--	5E-01	--
24628 MARBELLA AVE	TPH as Gasoline	mg/kg	0.181	95UCL	7.6E+02	--	2E-04	--
24628 MARBELLA AVE	TPH as Motor Oil	mg/kg	1889	95UCL	3.3E+03	--	6E-01	--
24628 MARBELLA AVE	Vanadium	mg/kg	40.6	95UCL	3.9E+02	--	1E-01	--
24628 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.36	Max	8.3E+04	--	4E-06	--
24628 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.022	Max	4.0E+03	1.6E+01	6E-06	1E-09
24628 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0262	95UCL	2.3E+02	--	1E-04	--
24628 NEPTUNE AVE	Benzene	µg/kg	0.189	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24628 NEPTUNE AVE	Ethylbenzene	µg/kg	0.2	Max	3.3E+06	4.8E+03	6E-08	4E-11
24628 NEPTUNE AVE	Naphthalene	mg/kg	0.0216	95UCL	1.5E+02	4.0E+00	1E-04	5E-09
24628 NEPTUNE AVE	Pyrene	mg/kg	0.0467	95UCL	1.7E+03	--	3E-05	--
24628 NEPTUNE AVE	Toluene	µg/kg	0.244	95UCL	4.8E+06	--	5E-08	--
24628 NEPTUNE AVE	TPH as Diesel	mg/kg	173.3	95UCL	1.3E+03	--	1E-01	--
24628 NEPTUNE AVE	TPH as Motor Oil	mg/kg	689.7	95UCL	3.3E+03	--	2E-01	--
24628 NEPTUNE AVE	Xylenes, Total	µg/kg	0.19	Max	5.6E+05	--	3E-07	--
24629 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.74	Max	8.3E+04	--	9E-06	--
24629 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.046	Max	4.0E+03	1.6E+01	1E-05	3E-09
24629 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0765	95UCL	2.3E+02	--	3E-04	--
24629 NEPTUNE AVE	Benzene	µg/kg	0.264	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24629 NEPTUNE AVE	Bromomethane	µg/kg	3.7	Max	8.8E+03	--	4E-04	--
24629 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.24	Max	2.3E+02	1.3E+00	1E-03	2E-07
24629 NEPTUNE AVE	Ethylbenzene	µg/kg	0.73	Max	3.3E+06	4.8E+03	2E-07	2E-10
24629 NEPTUNE AVE	Naphthalene	mg/kg	0.0185	95UCL	1.5E+02	4.0E+00	1E-04	5E-09
24629 NEPTUNE AVE	Pyrene	mg/kg	0.292	95UCL	1.7E+03	--	2E-04	--
24629 NEPTUNE AVE	Toluene	µg/kg	0.648	95UCL	4.8E+06	--	1E-07	--
24629 NEPTUNE AVE	TPH as Diesel	mg/kg	460.7	95UCL	1.3E+03	--	4E-01	--
24629 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.122	95UCL	7.6E+02	--	2E-04	--
24629 NEPTUNE AVE	TPH as Motor Oil	mg/kg	1194	95UCL	3.3E+03	--	4E-01	--
24629 NEPTUNE AVE	Trichloroethene	µg/kg	0.15	Max	5.8E+03	1.2E+03	3E-05	1E-10
24629 NEPTUNE AVE	Xylenes, Total	µg/kg	0.5	Max	5.6E+05	--	9E-07	--
24632 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.18	Max	8.3E+04	--	2E-06	--
24632 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0076	Max	4.0E+03	1.6E+01	2E-06	5E-10
24632 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.00883	95UCL	2.3E+02	--	4E-05	--
24632 NEPTUNE AVE	Benzene	µg/kg	1.2	Max	6.7E+04	2.2E+02	2E-05	6E-09
24632 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.1	Max	2.3E+02	1.3E+00	4E-04	8E-08
24632 NEPTUNE AVE	Naphthalene	mg/kg	0.0051	Max	1.5E+02	4.0E+00	3E-05	1E-09
24632 NEPTUNE AVE	Pyrene	mg/kg	0.022	95UCL	1.7E+03	--	1E-05	--
24632 NEPTUNE AVE	Toluene	µg/kg	0.57	Max	4.8E+06	--	1E-07	--
24632 NEPTUNE AVE	TPH as Diesel	mg/kg	153.9	95UCL	1.3E+03	--	1E-01	--
24632 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.36	Max	7.6E+02	--	5E-04	--
24632 NEPTUNE AVE	TPH as Motor Oil	mg/kg	476.9	95UCL	3.3E+03	--	1E-01	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil <=2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24633 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.017	Max	4.0E+03	1.6E+01	4E-06	1E-09
24633 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.067	95UCL	2.3E+02	--	3E-04	--
24633 MARBELLA AVE	Benzene	µg/kg	0.417	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24633 MARBELLA AVE	Cobalt	mg/kg	11.99	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24633 MARBELLA AVE	Naphthalene	mg/kg	0.417	95UCL	1.5E+02	4.0E+00	3E-03	1E-07
24633 MARBELLA AVE	Pyrene	mg/kg	1.59	95UCL	1.7E+03	--	9E-04	--
24633 MARBELLA AVE	Toluene	µg/kg	0.8	Max	4.8E+06	--	2E-07	--
24633 MARBELLA AVE	TPH as Diesel	mg/kg	3579	95UCL	1.3E+03	--	3E+00	--
24633 MARBELLA AVE	TPH as Gasoline	mg/kg	0.0921	95UCL	7.6E+02	--	1E-04	--
24633 MARBELLA AVE	TPH as Motor Oil	mg/kg	13171	95UCL	3.3E+03	--	4E+00	--
24633 MARBELLA AVE	Xylenes, Total	µg/kg	0.29	Max	5.6E+05	--	5E-07	--
24700 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	1.9	Max	8.3E+04	--	2E-05	--
24700 MARBELLA AVE	1-Methylnaphthalene	mg/kg	2.515	95UCL	4.0E+03	1.6E+01	6E-04	2E-07
24700 MARBELLA AVE	2-Methylnaphthalene	mg/kg	5.875	95UCL	2.3E+02	--	3E-02	--
24700 MARBELLA AVE	Benzene	µg/kg	0.315	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
24700 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.24	Max	1.2E+03	3.5E+01	2E-04	7E-09
24700 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.25	Max	2.3E+02	1.3E+00	1E-03	2E-07
24700 MARBELLA AVE	Cobalt	mg/kg	10.12	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24700 MARBELLA AVE	Ethylbenzene	µg/kg	618.1	95UCL	3.3E+06	4.8E+03	2E-04	1E-07
24700 MARBELLA AVE	Naphthalene	mg/kg	3.757	95UCL	1.5E+02	4.0E+00	3E-02	1E-06
24700 MARBELLA AVE	Pyrene	mg/kg	0.168	95UCL	1.7E+03	--	1E-04	--
24700 MARBELLA AVE	Toluene	µg/kg	0.313	95UCL	4.8E+06	--	7E-08	--
24700 MARBELLA AVE	TPH as Diesel	mg/kg	3816	95UCL	1.3E+03	--	3E+00	--
24700 MARBELLA AVE	TPH as Gasoline	mg/kg	343.5	95UCL	7.6E+02	--	5E-01	--
24700 MARBELLA AVE	TPH as Motor Oil	mg/kg	4499	95UCL	3.3E+03	--	1E+00	--
24700 MARBELLA AVE	Xylenes, Total	µg/kg	1.2	Max	5.6E+05	--	2E-06	--
24700 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.35	95UCL	8.3E+04	--	4E-06	--
24700 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	0.086	Max	8.5E+04	--	1E-06	--
24700 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.06	Max	4.0E+03	1.6E+01	2E-05	4E-09
24700 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0372	95UCL	2.3E+02	--	2E-04	--
24700 RAVENNA AVE	Benzene	µg/kg	0.396	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24700 RAVENNA AVE	Bromomethane	µg/kg	2	Max	8.8E+03	--	2E-04	--
24700 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.348	95UCL	2.3E+02	1.3E+00	2E-03	3E-07
24700 RAVENNA AVE	Ethylbenzene	µg/kg	0.24	Max	3.3E+06	4.8E+03	7E-08	5E-11
24700 RAVENNA AVE	Naphthalene	mg/kg	0.00746	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24700 RAVENNA AVE	Pyrene	mg/kg	0.0794	95UCL	1.7E+03	--	5E-05	--
24700 RAVENNA AVE	Toluene	µg/kg	0.327	95UCL	4.8E+06	--	7E-08	--
24700 RAVENNA AVE	TPH as Diesel	mg/kg	1069	95UCL	1.3E+03	--	8E-01	--
24700 RAVENNA AVE	TPH as Gasoline	mg/kg	0.099	95UCL	7.6E+02	--	1E-04	--
24700 RAVENNA AVE	TPH as Motor Oil	mg/kg	2261	95UCL	3.3E+03	--	7E-01	--
24700 RAVENNA AVE	Xylenes, Total	µg/kg	0.25	Max	5.6E+05	--	5E-07	--
24702 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.356	95UCL	8.3E+04	--	4E-06	--
24702 NEPTUNE AVE	1,4-Dichlorobenzene	µg/kg	0.24	Max	3.6E+06	2.8E+03	7E-08	9E-11
24702 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00858	95UCL	4.0E+03	1.6E+01	2E-06	6E-10
24702 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0258	95UCL	2.3E+02	--	1E-04	--
24702 NEPTUNE AVE	Benzene	µg/kg	0.29	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24702 NEPTUNE AVE	Ethylbenzene	µg/kg	1.5	Max	3.3E+06	4.8E+03	5E-07	3E-10
24702 NEPTUNE AVE	Naphthalene	mg/kg	0.0254	95UCL	1.5E+02	4.0E+00	2E-04	6E-09
24702 NEPTUNE AVE	Pyrene	mg/kg	0.0635	95UCL	1.7E+03	--	4E-05	--
24702 NEPTUNE AVE	Toluene	µg/kg	0.244	95UCL	4.8E+06	--	5E-08	--
24702 NEPTUNE AVE	TPH as Diesel	mg/kg	204.4	95UCL	1.3E+03	--	2E-01	--
24702 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.13	Max	7.6E+02	--	2E-04	--
24702 NEPTUNE AVE	TPH as Motor Oil	mg/kg	704.1	95UCL	3.3E+03	--	2E-01	--
24702 NEPTUNE AVE	Trichloroethene	µg/kg	0.41	Max	5.8E+03	1.2E+03	7E-05	3E-10
24702 NEPTUNE AVE	Xylenes, Total	µg/kg	0.41	Max	5.6E+05	--	7E-07	--
24702 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.997	95UCL	8.3E+04	--	1E-05	--
24702 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.17	Max	8.5E+04	--	2E-06	--
24702 PANAMA AVE	1,4-Dichlorobenzene	µg/kg	0.23	Max	3.6E+06	2.8E+03	6E-08	8E-11
24702 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.116	95UCL	4.0E+03	1.6E+01	3E-05	7E-09
24702 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.182	95UCL	2.3E+02	--	8E-04	--
24702 PANAMA AVE	Benzene	µg/kg	0.363	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24702 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1.3	Max	1.2E+03	3.5E+01	1E-03	4E-08

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24702 PANAMA AVE	Bromomethane	µg/kg	3	Max	8.8E+03	--	3E-04	--
24702 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.25	Max	2.3E+02	1.3E+00	1E-03	2E-07
24702 PANAMA AVE	Ethylbenzene	µg/kg	0.36	Max	3.3E+06	4.8E+03	1E-07	8E-11
24702 PANAMA AVE	Naphthalene	mg/kg	0.0248	95UCL	1.5E+02	4.0E+00	2E-04	6E-09
24702 PANAMA AVE	Pyrene	mg/kg	1.323	95UCL	1.7E+03	--	8E-04	--
24702 PANAMA AVE	Toluene	µg/kg	0.729	95UCL	4.8E+06	--	2E-07	--
24702 PANAMA AVE	TPH as Diesel	mg/kg	1349	95UCL	1.3E+03	--	1E+00	--
24702 PANAMA AVE	TPH as Gasoline	mg/kg	0.0867	95UCL	7.6E+02	--	1E-04	--
24702 PANAMA AVE	TPH as Motor Oil	mg/kg	1512	95UCL	3.3E+03	--	5E-01	--
24702 PANAMA AVE	Xylenes, Total	µg/kg	0.596	95UCL	5.6E+05	--	1E-06	--
24703 MARBELLA AVE	1,1,2,2-Tetrachloroethane	µg/kg	0.13	Max	6.2E+05	4.7E+02	2E-07	3E-10
24703 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	1.8	Max	8.3E+04	--	2E-05	--
24703 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.37	Max	8.5E+04	--	4E-06	--
24703 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.39	Max	4.0E+03	1.6E+01	1E-04	3E-08
24703 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0897	95UCL	2.3E+02	--	4E-04	--
24703 MARBELLA AVE	Benzene	µg/kg	0.236	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24703 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	5.4	Max	1.2E+03	3.5E+01	4E-03	2E-07
24703 MARBELLA AVE	Bromodichloromethane	µg/kg	0.17	Max	4.3E+05	4.9E+02	4E-07	4E-10
24703 MARBELLA AVE	Cobalt	mg/kg	11.77	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24703 MARBELLA AVE	Ethylbenzene	µg/kg	0.3	Max	3.3E+06	4.8E+03	9E-08	6E-11
24703 MARBELLA AVE	Naphthalene	mg/kg	0.00561	95UCL	1.5E+02	4.0E+00	4E-05	1E-09
24703 MARBELLA AVE	Pyrene	mg/kg	1.44	95UCL	1.7E+03	--	8E-04	--
24703 MARBELLA AVE	Toluene	µg/kg	0.248	95UCL	4.8E+06	--	5E-08	--
24703 MARBELLA AVE	TPH as Diesel	mg/kg	1451	95UCL	1.3E+03	--	1E+00	--
24703 MARBELLA AVE	TPH as Gasoline	mg/kg	0.0695	95UCL	7.6E+02	--	9E-05	--
24703 MARBELLA AVE	TPH as Motor Oil	mg/kg	1670	95UCL	3.3E+03	--	5E-01	--
24703 MARBELLA AVE	Trichloroethene	µg/kg	0.33	Max	5.8E+03	1.2E+03	6E-05	3E-10
24703 MARBELLA AVE	Xylenes, Total	µg/kg	1.7	Max	5.6E+05	--	3E-06	--
24703 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.169	95UCL	8.3E+04	--	2E-06	--
24703 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00959	95UCL	4.0E+03	1.6E+01	2E-06	6E-10
24703 NEPTUNE AVE	2,4-Dinitrotoluene	mg/kg	0.061	Max	1.2E+02	1.6E+00	5E-04	4E-08
24703 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.021	95UCL	2.3E+02	--	9E-05	--
24703 NEPTUNE AVE	Benzene	µg/kg	0.184	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24703 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.44	Max	2.3E+02	1.3E+00	2E-03	3E-07
24703 NEPTUNE AVE	Ethylbenzene	µg/kg	0.2	Max	3.3E+06	4.8E+03	6E-08	4E-11
24703 NEPTUNE AVE	Naphthalene	mg/kg	0.28	95UCL	1.5E+02	4.0E+00	2E-03	7E-08
24703 NEPTUNE AVE	Pyrene	mg/kg	0.275	95UCL	1.7E+03	--	2E-04	--
24703 NEPTUNE AVE	Toluene	µg/kg	0.274	95UCL	4.8E+06	--	6E-08	--
24703 NEPTUNE AVE	TPH as Diesel	mg/kg	6485	95UCL	1.3E+03	--	<b>5E+00</b>	--
24703 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.101	95UCL	7.6E+02	--	1E-04	--
24703 NEPTUNE AVE	TPH as Motor Oil	mg/kg	7413	95UCL	3.3E+03	--	<b>2E+00</b>	--
24703 NEPTUNE AVE	Xylenes, Total	µg/kg	0.42	Max	5.6E+05	--	8E-07	--
24703 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.4	95UCL	8.3E+04	--	5E-06	--
24703 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0164	95UCL	4.0E+03	1.6E+01	4E-06	1E-09
24703 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.025	95UCL	2.3E+02	--	1E-04	--
24703 RAVENNA AVE	Benzene	µg/kg	0.164	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24703 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.25	Max	2.3E+02	1.3E+00	1E-03	2E-07
24703 RAVENNA AVE	Ethylbenzene	µg/kg	0.18	Max	3.3E+06	4.8E+03	6E-08	4E-11
24703 RAVENNA AVE	Naphthalene	mg/kg	0.00925	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
24703 RAVENNA AVE	Pyrene	mg/kg	0.048	95UCL	1.7E+03	--	3E-05	--
24703 RAVENNA AVE	Toluene	µg/kg	0.164	95UCL	4.8E+06	--	3E-08	--
24703 RAVENNA AVE	TPH as Diesel	mg/kg	2066	95UCL	1.3E+03	--	<b>2E+00</b>	--
24703 RAVENNA AVE	TPH as Gasoline	mg/kg	13.87	95UCL	7.6E+02	--	2E-02	--
24703 RAVENNA AVE	TPH as Motor Oil	mg/kg	1846	95UCL	3.3E+03	--	6E-01	--
24703 RAVENNA AVE	Xylenes, Total	µg/kg	0.196	95UCL	5.6E+05	--	4E-07	--
24706 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.49	Max	8.3E+04	--	6E-06	--
24706 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.087	Max	8.5E+04	--	1E-06	--
24706 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0071	Max	4.0E+03	1.6E+01	2E-06	5E-10
24706 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.00925	95UCL	2.3E+02	--	4E-05	--
24706 MARBELLA AVE	Benzene	µg/kg	0.272	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24706 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.89	Max	1.2E+03	3.5E+01	7E-04	3E-08
24706 MARBELLA AVE	Cobalt	mg/kg	10.61	95UCL	2.3E+01	3.1E+04	5E-01	3E-10

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$  2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24706 MARBELLA AVE	Naphthalene	mg/kg	0.00735	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24706 MARBELLA AVE	Pyrene	mg/kg	0.0525	95UCL	1.7E+03	--	3E-05	--
24706 MARBELLA AVE	Toluene	µg/kg	0.795	95UCL	4.8E+06	--	2E-07	--
24706 MARBELLA AVE	TPH as Diesel	mg/kg	194.6	95UCL	1.3E+03	--	2E-01	--
24706 MARBELLA AVE	TPH as Gasoline	mg/kg	0.203	95UCL	7.6E+02	--	3E-04	--
24706 MARBELLA AVE	TPH as Motor Oil	mg/kg	514.2	95UCL	3.3E+03	--	2E-01	--
24706 MARBELLA AVE	Xylenes, Total	µg/kg	0.4	Max	5.6E+05	--	7E-07	--
24706 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.327	95UCL	8.3E+04	--	4E-06	--
24706 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0279	95UCL	2.3E+02	--	1E-04	--
24706 RAVENNA AVE	Benzene	µg/kg	0.35	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24706 RAVENNA AVE	Ethylbenzene	µg/kg	0.16	Max	3.3E+06	4.8E+03	5E-08	3E-11
24706 RAVENNA AVE	Pyrene	mg/kg	1.086	95UCL	1.7E+03	--	6E-04	--
24706 RAVENNA AVE	Toluene	µg/kg	0.249	95UCL	4.8E+06	--	5E-08	--
24706 RAVENNA AVE	TPH as Diesel	mg/kg	1029	95UCL	1.3E+03	--	8E-01	--
24706 RAVENNA AVE	TPH as Gasoline	mg/kg	0.11	Max	7.6E+02	--	1E-04	--
24706 RAVENNA AVE	TPH as Motor Oil	mg/kg	2439	95UCL	3.3E+03	--	7E-01	--
24706 RAVENNA AVE	Xylenes, Total	µg/kg	0.374	95UCL	5.6E+05	--	7E-07	--
24707 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.38	95UCL	8.3E+04	--	5E-06	--
24707 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.122	95UCL	8.5E+04	--	1E-06	--
24707 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0067	Max	4.0E+03	1.6E+01	2E-06	4E-10
24707 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.00572	95UCL	2.3E+02	--	3E-05	--
24707 MARBELLA AVE	Benzene	µg/kg	0.253	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24707 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.33	Max	2.3E+02	1.3E+00	1E-03	3E-07
24707 MARBELLA AVE	Cobalt	mg/kg	11.13	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24707 MARBELLA AVE	Ethylbenzene	µg/kg	2.342	95UCL	3.3E+06	4.8E+03	7E-07	5E-10
24707 MARBELLA AVE	Naphthalene	mg/kg	0.01	Max	1.5E+02	4.0E+00	7E-05	3E-09
24707 MARBELLA AVE	Pyrene	mg/kg	0.0234	95UCL	1.7E+03	--	1E-05	--
24707 MARBELLA AVE	Toluene	µg/kg	0.473	95UCL	4.8E+06	--	1E-07	--
24707 MARBELLA AVE	TPH as Diesel	mg/kg	258.7	95UCL	1.3E+03	--	2E-01	--
24707 MARBELLA AVE	TPH as Gasoline	mg/kg	0.056	Max	7.6E+02	--	7E-05	--
24707 MARBELLA AVE	TPH as Motor Oil	mg/kg	807.9	95UCL	3.3E+03	--	2E-01	--
24707 MARBELLA AVE	Xylenes, Total	µg/kg	3.579	95UCL	5.6E+05	--	6E-06	--
24708 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.99	Max	8.3E+04	--	1E-05	--
24708 PANAMA AVE	1,4-Dichlorobenzene	µg/kg	0.57	Max	3.6E+06	2.8E+03	2E-07	2E-10
24708 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0564	95UCL	4.0E+03	1.6E+01	1E-05	4E-09
24708 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.188	95UCL	2.3E+02	--	8E-04	--
24708 PANAMA AVE	Benzene	µg/kg	0.31	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
24708 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.35	Max	1.2E+03	3.5E+01	3E-04	1E-08
24708 PANAMA AVE	Chromium, Hexavalent	mg/kg	1.1	Max	2.3E+02	1.3E+00	5E-03	9E-07
24708 PANAMA AVE	Ethylbenzene	µg/kg	0.85	Max	3.3E+06	4.8E+03	3E-07	2E-10
24708 PANAMA AVE	Naphthalene	mg/kg	0.102	95UCL	1.5E+02	4.0E+00	7E-04	3E-08
24708 PANAMA AVE	Pyrene	mg/kg	1.376	95UCL	1.7E+03	--	8E-04	--
24708 PANAMA AVE	Toluene	µg/kg	0.559	95UCL	4.8E+06	--	1E-07	--
24708 PANAMA AVE	TPH as Diesel	mg/kg	1055	95UCL	1.3E+03	--	8E-01	--
24708 PANAMA AVE	TPH as Gasoline	mg/kg	0.61	Max	7.6E+02	--	8E-04	--
24708 PANAMA AVE	TPH as Motor Oil	mg/kg	2328	95UCL	3.3E+03	--	7E-01	--
24708 PANAMA AVE	Trichloroethene	µg/kg	0.18	Max	5.8E+03	1.2E+03	3E-05	2E-10
24708 PANAMA AVE	Xylenes, Total	µg/kg	1.1	Max	5.6E+05	--	2E-06	--
24709 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.254	95UCL	8.3E+04	--	3E-06	--
24709 NEPTUNE AVE	1,3,5-Trimethylbenzene	µg/kg	0.11	Max	8.5E+04	--	1E-06	--
24709 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0399	95UCL	4.0E+03	1.6E+01	1E-05	3E-09
24709 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.105	95UCL	2.3E+02	--	5E-04	--
24709 NEPTUNE AVE	Benzene	µg/kg	0.382	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24709 NEPTUNE AVE	Naphthalene	mg/kg	0.0312	95UCL	1.5E+02	4.0E+00	2E-04	8E-09
24709 NEPTUNE AVE	Pyrene	mg/kg	0.548	95UCL	1.7E+03	--	3E-04	--
24709 NEPTUNE AVE	Toluene	µg/kg	0.335	95UCL	4.8E+06	--	7E-08	--
24709 NEPTUNE AVE	TPH as Diesel	mg/kg	502.6	95UCL	1.3E+03	--	4E-01	--
24709 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.081	Max	7.6E+02	--	1E-04	--
24709 NEPTUNE AVE	TPH as Motor Oil	mg/kg	2053	95UCL	3.3E+03	--	6E-01	--
24709 NEPTUNE AVE	Xylenes, Total	µg/kg	0.28	Max	5.6E+05	--	5E-07	--
24709 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.308	95UCL	8.3E+04	--	4E-06	--
24709 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.00749	95UCL	4.0E+03	1.6E+01	2E-06	5E-10

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil <=2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24709 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0577	95UCL	2.3E+02	--	3E-04	--
24709 PANAMA AVE	Benzene	µg/kg	0.57	95UCL	6.7E+04	2.2E+02	9E-06	3E-09
24709 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.246	95UCL	2.3E+02	1.3E+00	1E-03	2E-07
24709 PANAMA AVE	Ethylbenzene	µg/kg	0.44	Max	3.3E+06	4.8E+03	1E-07	9E-11
24709 PANAMA AVE	Naphthalene	mg/kg	0.00903	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
24709 PANAMA AVE	Pyrene	mg/kg	0.154	95UCL	1.7E+03	--	9E-05	--
24709 PANAMA AVE	Toluene	µg/kg	0.267	95UCL	4.8E+06	--	6E-08	--
24709 PANAMA AVE	TPH as Diesel	mg/kg	225.2	95UCL	1.3E+03	--	2E-01	--
24709 PANAMA AVE	TPH as Gasoline	mg/kg	0.11	Max	7.6E+02	--	1E-04	--
24709 PANAMA AVE	TPH as Motor Oil	mg/kg	776.6	95UCL	3.3E+03	--	2E-01	--
24709 PANAMA AVE	Xylenes, Total	µg/kg	0.25	Max	5.6E+05	--	5E-07	--
24709 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.33	95UCL	8.3E+04	--	4E-06	--
24709 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0194	95UCL	4.0E+03	1.6E+01	5E-06	1E-09
24709 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.079	95UCL	2.3E+02	--	3E-04	--
24709 RAVENNA AVE	Benzene	µg/kg	0.286	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24709 RAVENNA AVE	Naphthalene	mg/kg	0.0255	95UCL	1.5E+02	4.0E+00	2E-04	6E-09
24709 RAVENNA AVE	Pyrene	mg/kg	0.267	95UCL	1.7E+03	--	2E-04	--
24709 RAVENNA AVE	Toluene	µg/kg	0.292	95UCL	4.8E+06	--	6E-08	--
24709 RAVENNA AVE	TPH as Diesel	mg/kg	234.9	95UCL	1.3E+03	--	2E-01	--
24709 RAVENNA AVE	TPH as Gasoline	mg/kg	0.0989	95UCL	7.6E+02	--	1E-04	--
24709 RAVENNA AVE	TPH as Motor Oil	mg/kg	758.2	95UCL	3.3E+03	--	2E-01	--
24709 RAVENNA AVE	Xylenes, Total	µg/kg	0.334	95UCL	5.6E+05	--	6E-07	--
24710 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.84	Max	8.3E+04	--	1E-05	--
24710 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0029	Max	4.0E+03	1.6E+01	7E-07	2E-10
24710 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0128	95UCL	2.3E+02	--	6E-05	--
24710 MARBELLA AVE	Benzene	µg/kg	0.375	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24710 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1.1	Max	1.2E+03	3.5E+01	9E-04	3E-08
24710 MARBELLA AVE	Bromodichloromethane	µg/kg	0.21	Max	4.3E+05	4.9E+02	5E-07	4E-10
24710 MARBELLA AVE	Cobalt	mg/kg	11.1	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24710 MARBELLA AVE	Ethylbenzene	µg/kg	0.28	Max	3.3E+06	4.8E+03	9E-08	6E-11
24710 MARBELLA AVE	Naphthalene	mg/kg	0.0111	95UCL	1.5E+02	4.0E+00	7E-05	3E-09
24710 MARBELLA AVE	Pyrene	mg/kg	0.0563	95UCL	1.7E+03	--	3E-05	--
24710 MARBELLA AVE	Toluene	µg/kg	0.373	95UCL	4.8E+06	--	8E-08	--
24710 MARBELLA AVE	TPH as Diesel	mg/kg	393.8	95UCL	1.3E+03	--	3E-01	--
24710 MARBELLA AVE	TPH as Gasoline	mg/kg	0.08	Max	7.6E+02	--	1E-04	--
24710 MARBELLA AVE	TPH as Motor Oil	mg/kg	903.9	95UCL	3.3E+03	--	3E-01	--
24710 MARBELLA AVE	Xylenes, Total	µg/kg	0.38	Max	5.6E+05	--	7E-07	--
24712 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0255	95UCL	4.0E+03	1.6E+01	6E-06	2E-09
24712 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0899	95UCL	2.3E+02	--	4E-04	--
24712 NEPTUNE AVE	Benzene	µg/kg	0.22	Max	6.7E+04	2.2E+02	3E-06	1E-09
24712 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.644	95UCL	1.2E+03	3.5E+01	5E-04	2E-08
24712 NEPTUNE AVE	Naphthalene	mg/kg	0.015	95UCL	1.5E+02	4.0E+00	1E-04	4E-09
24712 NEPTUNE AVE	Pyrene	mg/kg	0.468	95UCL	1.7E+03	--	3E-04	--
24712 NEPTUNE AVE	TPH as Diesel	mg/kg	196.9	95UCL	1.3E+03	--	2E-01	--
24712 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.056	Max	7.6E+02	--	7E-05	--
24712 NEPTUNE AVE	TPH as Motor Oil	mg/kg	539.4	95UCL	3.3E+03	--	2E-01	--
24712 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.18	Max	8.3E+04	--	2E-06	--
24712 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0942	95UCL	4.0E+03	1.6E+01	2E-05	6E-09
24712 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.375	95UCL	2.3E+02	--	2E-03	--
24712 PANAMA AVE	Benzene	µg/kg	0.2	Max	6.7E+04	2.2E+02	3E-06	9E-10
24712 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.44	Max	2.3E+02	1.3E+00	2E-03	3E-07
24712 PANAMA AVE	Naphthalene	mg/kg	1.939	95UCL	1.5E+02	4.0E+00	1E-02	5E-07
24712 PANAMA AVE	Pyrene	mg/kg	0.166	95UCL	1.7E+03	--	1E-04	--
24712 PANAMA AVE	Toluene	µg/kg	0.18	Max	4.8E+06	--	4E-08	--
24712 PANAMA AVE	TPH as Diesel	mg/kg	720.4	95UCL	1.3E+03	--	6E-01	--
24712 PANAMA AVE	TPH as Gasoline	mg/kg	0.0777	95UCL	7.6E+02	--	1E-04	--
24712 PANAMA AVE	TPH as Motor Oil	mg/kg	1352	95UCL	3.3E+03	--	4E-01	--
24712 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.12	Max	8.3E+04	--	2E-06	--
24712 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00968	95UCL	4.0E+03	1.6E+01	2E-06	6E-10
24712 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0513	95UCL	2.3E+02	--	2E-04	--
24712 RAVENNA AVE	Benzene	µg/kg	0.274	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24712 RAVENNA AVE	Bromomethane	µg/kg	2.1	Max	8.8E+03	--	2E-04	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil ≤2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24712 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.35	Max	2.3E+02	1.3E+00	2E-03	3E-07
24712 RAVENNA AVE	Naphthalene	mg/kg	0.0106	95UCL	1.5E+02	4.0E+00	7E-05	3E-09
24712 RAVENNA AVE	Pyrene	mg/kg	0.191	95UCL	1.7E+03	--	1E-04	--
24712 RAVENNA AVE	Tetrachloroethene	µg/kg	0.17	Max	8.6E+04	5.5E+02	2E-06	3E-10
24712 RAVENNA AVE	Toluene	µg/kg	0.19	95UCL	4.8E+06	--	4E-08	--
24712 RAVENNA AVE	TPH as Diesel	mg/kg	455.9	95UCL	1.3E+03	--	4E-01	--
24712 RAVENNA AVE	TPH as Gasoline	mg/kg	0.0723	95UCL	7.6E+02	--	1E-04	--
24712 RAVENNA AVE	TPH as Motor Oil	mg/kg	1286	95UCL	3.3E+03	--	4E-01	--
24713 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.28	Max	8.3E+04	--	3E-06	--
24713 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0498	95UCL	4.0E+03	1.6E+01	1E-05	3E-09
24713 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.14	95UCL	2.3E+02	--	6E-04	--
24713 MARBELLA AVE	Benzene	µg/kg	0.514	95UCL	6.7E+04	2.2E+02	8E-06	2E-09
24713 MARBELLA AVE	Cobalt	mg/kg	11.81	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24713 MARBELLA AVE	Naphthalene	mg/kg	0.886	95UCL	1.5E+02	4.0E+00	6E-03	2E-07
24713 MARBELLA AVE	Pyrene	mg/kg	0.0703	95UCL	1.7E+03	--	4E-05	--
24713 MARBELLA AVE	Toluene	µg/kg	0.338	95UCL	4.8E+06	--	7E-08	--
24713 MARBELLA AVE	TPH as Diesel	mg/kg	243.8	95UCL	1.3E+03	--	2E-01	--
24713 MARBELLA AVE	TPH as Gasoline	mg/kg	0.075	Max	7.6E+02	--	1E-04	--
24713 MARBELLA AVE	TPH as Motor Oil	mg/kg	1145	95UCL	3.3E+03	--	4E-01	--
24713 MARBELLA AVE	Xylenes, Total	µg/kg	0.35	Max	5.6E+05	--	6E-07	--
24713 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.139	95UCL	8.3E+04	--	2E-06	--
24713 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.00665	95UCL	4.0E+03	1.6E+01	2E-06	4E-10
24713 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0192	95UCL	2.3E+02	--	8E-05	--
24713 PANAMA AVE	Benzene	µg/kg	1.535	95UCL	6.7E+04	2.2E+02	2E-05	7E-09
24713 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.65	Max	1.2E+03	3.5E+01	5E-04	2E-08
24713 PANAMA AVE	Bromomethane	µg/kg	3.6	Max	8.8E+03	--	4E-04	--
24713 PANAMA AVE	Ethylbenzene	µg/kg	0.61	Max	3.3E+06	4.8E+03	2E-07	1E-10
24713 PANAMA AVE	Methylene Chloride	µg/kg	7	Max	3.6E+05	5.3E+03	2E-05	1E-09
24713 PANAMA AVE	Naphthalene	mg/kg	0.00734	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24713 PANAMA AVE	Pyrene	mg/kg	0.0566	95UCL	1.7E+03	--	3E-05	--
24713 PANAMA AVE	Toluene	µg/kg	0.384	95UCL	4.8E+06	--	8E-08	--
24713 PANAMA AVE	TPH as Diesel	mg/kg	319.9	95UCL	1.3E+03	--	3E-01	--
24713 PANAMA AVE	TPH as Gasoline	mg/kg	0.065	Max	7.6E+02	--	9E-05	--
24713 PANAMA AVE	TPH as Motor Oil	mg/kg	1089	95UCL	3.3E+03	--	3E-01	--
24713 PANAMA AVE	Xylenes, Total	µg/kg	0.38	Max	5.6E+05	--	7E-07	--
24713 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	21000	Max	8.3E+04	--	3E-01	--
24713 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	7100	Max	8.5E+04	--	8E-02	--
24713 RAVENNA AVE	1-Methylnaphthalene	mg/kg	13	Max	4.0E+03	1.6E+01	3E-03	8E-07
24713 RAVENNA AVE	2-Methylnaphthalene	mg/kg	7.759	95UCL	2.3E+02	--	3E-02	--
24713 RAVENNA AVE	Benzene	µg/kg	11.12	95UCL	6.7E+04	2.2E+02	2E-04	5E-08
24713 RAVENNA AVE	Ethylbenzene	µg/kg	2100	Max	3.3E+06	4.8E+03	6E-04	4E-07
24713 RAVENNA AVE	Naphthalene	mg/kg	3.204	95UCL	1.5E+02	4.0E+00	2E-02	8E-07
24713 RAVENNA AVE	Pyrene	mg/kg	0.118	95UCL	1.7E+03	--	7E-05	--
24713 RAVENNA AVE	Toluene	µg/kg	58	Max	4.8E+06	--	1E-05	--
24713 RAVENNA AVE	TPH as Diesel	mg/kg	3277	95UCL	1.3E+03	--	3E+00	--
24713 RAVENNA AVE	TPH as Gasoline	mg/kg	464.7	95UCL	7.6E+02	--	6E-01	--
24713 RAVENNA AVE	TPH as Motor Oil	mg/kg	3174	95UCL	3.3E+03	--	1E+00	--
24713 RAVENNA AVE	Xylenes, Total	µg/kg	9400	Max	5.6E+05	--	2E-02	--
24715 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.33	Max	8.3E+04	--	4E-06	--
24715 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.48	95UCL	4.0E+03	1.6E+01	1E-04	3E-08
24715 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.4	95UCL	2.3E+02	--	2E-03	--
24715 NEPTUNE AVE	Benzene	µg/kg	0.255	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24715 NEPTUNE AVE	Benzo (a) Anthracene	mg/kg	0.3	95UCL	--	1.6E+00	--	2E-07
24715 NEPTUNE AVE	Benzo (a) Pyrene	mg/kg	0.168	95UCL	--	1.6E-01	--	1E-06
24715 NEPTUNE AVE	Benzo (b) Fluoranthene	mg/kg	0.119	95UCL	--	1.6E+00	--	8E-08
24715 NEPTUNE AVE	Benzo (k) Fluoranthene	mg/kg	0.0222	95UCL	--	1.6E+00	--	1E-08
24715 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.34	Max	1.2E+03	3.5E+01	3E-04	1E-08
24715 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.23	Max	2.3E+02	1.3E+00	1E-03	2E-07
24715 NEPTUNE AVE	Chrysene	mg/kg	0.789	95UCL	--	1.6E+01	--	5E-08
24715 NEPTUNE AVE	Dibenz (a,h) Anthracene	mg/kg	0.0585	95UCL	--	1.1E-01	--	5E-07
24715 NEPTUNE AVE	Indeno (1,2,3-c,d) Pyrene	mg/kg	0.0546	95UCL	--	1.6E+00	--	4E-08
24715 NEPTUNE AVE	Naphthalene	mg/kg	0.117	95UCL	1.5E+02	4.0E+00	8E-04	3E-08

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24715 NEPTUNE AVE	Pyrene	mg/kg	0.532	95UCL	1.7E+03	--	3E-04	--
24715 NEPTUNE AVE	Toluene	µg/kg	0.346	95UCL	4.8E+06	--	7E-08	--
24715 NEPTUNE AVE	TPH as Diesel	mg/kg	3281	95UCL	1.3E+03	--	3E+00	--
24715 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.087	Max	7.6E+02	--	1E-04	--
24715 NEPTUNE AVE	TPH as Motor Oil	mg/kg	3835	95UCL	3.3E+03	--	1E+00	--
24715 NEPTUNE AVE	Xylenes, Total	µg/kg	0.2	Max	5.6E+05	--	4E-07	--
24716 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	230	Max	8.3E+04	--	3E-03	--
24716 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.87	Max	4.0E+03	1.6E+01	2E-04	6E-08
24716 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.305	95UCL	2.3E+02	--	1E-03	--
24716 MARBELLA AVE	Benzene	µg/kg	4.368	95UCL	6.7E+04	2.2E+02	7E-05	2E-08
24716 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.17	Max	1.2E+03	3.5E+01	1E-04	5E-09
24716 MARBELLA AVE	Cobalt	mg/kg	10.8	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24716 MARBELLA AVE	Ethylbenzene	µg/kg	66	Max	3.3E+06	4.8E+03	2E-05	1E-08
24716 MARBELLA AVE	Naphthalene	mg/kg	0.25	Max	1.5E+02	4.0E+00	2E-03	6E-08
24716 MARBELLA AVE	Pyrene	mg/kg	1.21	95UCL	1.7E+03	--	7E-04	--
24716 MARBELLA AVE	Toluene	µg/kg	0.37	95UCL	4.8E+06	--	8E-08	--
24716 MARBELLA AVE	TPH as Diesel	mg/kg	946	95UCL	1.3E+03	--	7E-01	--
24716 MARBELLA AVE	TPH as Gasoline	mg/kg	160	Max	7.6E+02	--	2E-01	--
24716 MARBELLA AVE	TPH as Motor Oil	mg/kg	1207	95UCL	3.3E+03	--	4E-01	--
24716 MARBELLA AVE	Xylenes, Total	µg/kg	63	Max	5.6E+05	--	1E-04	--
24716 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.45	Max	8.3E+04	--	5E-06	--
24716 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0092	Max	4.0E+03	1.6E+01	2E-06	6E-10
24716 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.065	Max	2.3E+02	--	3E-04	--
24716 RAVENNA AVE	Benzene	µg/kg	1.3	Max	6.7E+04	2.2E+02	2E-05	6E-09
24716 RAVENNA AVE	Ethylbenzene	µg/kg	0.29	Max	3.3E+06	4.8E+03	9E-08	6E-11
24716 RAVENNA AVE	Naphthalene	mg/kg	0.02	Max	1.5E+02	4.0E+00	1E-04	5E-09
24716 RAVENNA AVE	Pyrene	mg/kg	0.27	Max	1.7E+03	--	2E-04	--
24716 RAVENNA AVE	Toluene	µg/kg	0.4	Max	4.8E+06	--	8E-08	--
24716 RAVENNA AVE	TPH as Diesel	mg/kg	700	Max	1.3E+03	--	5E-01	--
24716 RAVENNA AVE	TPH as Gasoline	mg/kg	0.41	Max	7.6E+02	--	5E-04	--
24716 RAVENNA AVE	TPH as Motor Oil	mg/kg	1900	Max	3.3E+03	--	6E-01	--
24717 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	24.95	95UCL	8.3E+04	--	3E-04	--
24717 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	32	Max	8.5E+04	--	4E-04	--
24717 MARBELLA AVE	1,4-Dichlorobenzene	µg/kg	0.29	Max	3.6E+06	2.8E+03	8E-08	1E-10
24717 MARBELLA AVE	1-Methylnaphthalene	mg/kg	1.096	95UCL	4.0E+03	1.6E+01	3E-04	7E-08
24717 MARBELLA AVE	2-Methylnaphthalene	mg/kg	2.392	95UCL	2.3E+02	--	1E-02	--
24717 MARBELLA AVE	Benzene	µg/kg	0.554	95UCL	6.7E+04	2.2E+02	8E-06	3E-09
24717 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.27	Max	2.3E+02	1.3E+00	1E-03	2E-07
24717 MARBELLA AVE	Cobalt	mg/kg	10.28	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24717 MARBELLA AVE	Ethylbenzene	µg/kg	2	Max	3.3E+06	4.8E+03	6E-07	4E-10
24717 MARBELLA AVE	Naphthalene	mg/kg	0.803	95UCL	1.5E+02	4.0E+00	5E-03	2E-07
24717 MARBELLA AVE	Pyrene	mg/kg	0.854	95UCL	1.7E+03	--	5E-04	--
24717 MARBELLA AVE	Toluene	µg/kg	0.454	95UCL	4.8E+06	--	1E-07	--
24717 MARBELLA AVE	TPH as Diesel	mg/kg	2071	95UCL	1.3E+03	--	2E+00	--
24717 MARBELLA AVE	TPH as Gasoline	mg/kg	40.98	95UCL	7.6E+02	--	5E-02	--
24717 MARBELLA AVE	TPH as Motor Oil	mg/kg	2523	95UCL	3.3E+03	--	8E-01	--
24717 MARBELLA AVE	Xylenes, Total	µg/kg	13	Max	5.6E+05	--	2E-05	--
24718 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.533	95UCL	8.3E+04	--	6E-06	--
24718 NEPTUNE AVE	1,3,5-Trimethylbenzene	µg/kg	0.3	Max	8.5E+04	--	4E-06	--
24718 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.062	Max	4.0E+03	1.6E+01	2E-05	4E-09
24718 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0175	95UCL	2.3E+02	--	8E-05	--
24718 NEPTUNE AVE	Antimony	mg/kg	0.86	95UCL	3.1E+01	--	3E-02	--
24718 NEPTUNE AVE	Benzene	µg/kg	0.941	95UCL	6.7E+04	2.2E+02	1E-05	4E-09
24718 NEPTUNE AVE	Ethylbenzene	µg/kg	0.24	Max	3.3E+06	4.8E+03	7E-08	5E-11
24718 NEPTUNE AVE	Naphthalene	mg/kg	0.00572	95UCL	1.5E+02	4.0E+00	4E-05	1E-09
24718 NEPTUNE AVE	Pyrene	mg/kg	0.12	95UCL	1.7E+03	--	7E-05	--
24718 NEPTUNE AVE	Toluene	µg/kg	0.367	95UCL	4.8E+06	--	8E-08	--
24718 NEPTUNE AVE	TPH as Diesel	mg/kg	1420	95UCL	1.3E+03	--	1E+00	--
24718 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.156	95UCL	7.6E+02	--	2E-04	--
24718 NEPTUNE AVE	TPH as Motor Oil	mg/kg	2647	95UCL	3.3E+03	--	8E-01	--
24718 NEPTUNE AVE	Trichloroethene	µg/kg	0.23	Max	5.8E+03	1.2E+03	4E-05	2E-10
24718 NEPTUNE AVE	Xylenes, Total	µg/kg	0.251	95UCL	5.6E+05	--	5E-07	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil ≤2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24718 PANAMA AVE	1,2,3-Trichloropropane	µg/kg	1.2	Max	2.4E+03	2.1E+01	5E-04	6E-08
24718 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.1	Max	8.3E+04	--	1E-06	--
24718 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0133	95UCL	4.0E+03	1.6E+01	3E-06	9E-10
24718 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0499	95UCL	2.3E+02	--	2E-04	--
24718 PANAMA AVE	Benzene	µg/kg	0.455	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24718 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1.1	Max	1.2E+03	3.5E+01	9E-04	3E-08
24718 PANAMA AVE	Bromomethane	µg/kg	1.8	Max	8.8E+03	--	2E-04	--
24718 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.6	Max	2.3E+02	1.3E+00	3E-03	5E-07
24718 PANAMA AVE	Naphthalene	mg/kg	0.0182	95UCL	1.5E+02	4.0E+00	1E-04	5E-09
24718 PANAMA AVE	Pyrene	mg/kg	0.321	95UCL	1.7E+03	--	2E-04	--
24718 PANAMA AVE	Toluene	µg/kg	0.329	95UCL	4.8E+06	--	7E-08	--
24718 PANAMA AVE	TPH as Diesel	mg/kg	436.8	95UCL	1.3E+03	--	3E-01	--
24718 PANAMA AVE	TPH as Gasoline	mg/kg	0.16	Max	7.6E+02	--	2E-04	--
24718 PANAMA AVE	TPH as Motor Oil	mg/kg	1072	95UCL	3.3E+03	--	3E-01	--
24718 PANAMA AVE	Xylenes, Total	µg/kg	0.18	Max	5.6E+05	--	3E-07	--
24719 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.876	95UCL	8.3E+04	--	1E-05	--
24719 NEPTUNE AVE	1,3,5-Trimethylbenzene	µg/kg	0.11	Max	8.5E+04	--	1E-06	--
24719 NEPTUNE AVE	1,4-Dichlorobenzene	µg/kg	170	Max	3.6E+06	2.8E+03	5E-05	6E-08
24719 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0086	Max	4.0E+03	1.6E+01	2E-06	6E-10
24719 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0232	95UCL	2.3E+02	--	1E-04	--
24719 NEPTUNE AVE	Benzene	µg/kg	0.523	95UCL	6.7E+04	2.2E+02	8E-06	2E-09
24719 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.629	95UCL	1.2E+03	3.5E+01	5E-04	2E-08
24719 NEPTUNE AVE	Bromomethane	µg/kg	1.8	Max	8.8E+03	--	2E-04	--
24719 NEPTUNE AVE	Ethylbenzene	µg/kg	0.35	Max	3.3E+06	4.8E+03	1E-07	7E-11
24719 NEPTUNE AVE	Naphthalene	mg/kg	0.0325	95UCL	1.5E+02	4.0E+00	2E-04	8E-09
24719 NEPTUNE AVE	Pyrene	mg/kg	0.219	95UCL	1.7E+03	--	1E-04	--
24719 NEPTUNE AVE	Toluene	µg/kg	0.84	95UCL	4.8E+06	--	2E-07	--
24719 NEPTUNE AVE	TPH as Diesel	mg/kg	944.1	95UCL	1.3E+03	--	7E-01	--
24719 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.062	Max	7.6E+02	--	8E-05	--
24719 NEPTUNE AVE	TPH as Motor Oil	mg/kg	2203	95UCL	3.3E+03	--	7E-01	--
24719 NEPTUNE AVE	Xylenes, Total	µg/kg	0.514	95UCL	5.6E+05	--	9E-07	--
24719 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.63	Max	8.3E+04	--	8E-06	--
24719 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.11	Max	8.5E+04	--	1E-06	--
24719 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.009	Max	4.0E+03	1.6E+01	2E-06	6E-10
24719 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0163	95UCL	2.3E+02	--	7E-05	--
24719 PANAMA AVE	Benzene	µg/kg	0.312	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
24719 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.22	Max	1.2E+03	3.5E+01	2E-04	6E-09
24719 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.316	95UCL	2.3E+02	1.3E+00	1E-03	3E-07
24719 PANAMA AVE	Ethylbenzene	µg/kg	3.2	Max	3.3E+06	4.8E+03	1E-06	7E-10
24719 PANAMA AVE	Naphthalene	mg/kg	0.00917	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
24719 PANAMA AVE	Pyrene	mg/kg	0.186	95UCL	1.7E+03	--	1E-04	--
24719 PANAMA AVE	Toluene	µg/kg	0.209	95UCL	4.8E+06	--	4E-08	--
24719 PANAMA AVE	TPH as Diesel	mg/kg	154.1	95UCL	1.3E+03	--	1E-01	--
24719 PANAMA AVE	TPH as Gasoline	mg/kg	0.108	95UCL	7.6E+02	--	1E-04	--
24719 PANAMA AVE	TPH as Motor Oil	mg/kg	363.6	95UCL	3.3E+03	--	1E-01	--
24719 PANAMA AVE	Xylenes, Total	µg/kg	5.1	Max	5.6E+05	--	9E-06	--
24719 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	7434	95UCL	8.3E+04	--	9E-02	--
24719 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	12000	Max	8.5E+04	--	1E-01	--
24719 RAVENNA AVE	1,4-Dichlorobenzene	µg/kg	0.27	Max	3.6E+06	2.8E+03	7E-08	1E-10
24719 RAVENNA AVE	1-Methylnaphthalene	mg/kg	3.977	95UCL	4.0E+03	1.6E+01	1E-03	3E-07
24719 RAVENNA AVE	2-Methylnaphthalene	mg/kg	13.48	95UCL	2.3E+02	--	6E-02	--
24719 RAVENNA AVE	Benzene	µg/kg	59.83	95UCL	6.7E+04	2.2E+02	9E-04	3E-07
24719 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1.5	Max	1.2E+03	3.5E+01	1E-03	4E-08
24719 RAVENNA AVE	Bromomethane	µg/kg	360	Max	8.8E+03	--	4E-02	--
24719 RAVENNA AVE	Chromium, Hexavalent	mg/kg	1.1	Max	2.3E+02	1.3E+00	5E-03	9E-07
24719 RAVENNA AVE	Ethylbenzene	µg/kg	6600	Max	3.3E+06	4.8E+03	2E-03	1E-06
24719 RAVENNA AVE	Naphthalene	mg/kg	5.354	95UCL	1.5E+02	4.0E+00	4E-02	1E-06
24719 RAVENNA AVE	Pyrene	mg/kg	0.334	95UCL	1.7E+03	--	2E-04	--
24719 RAVENNA AVE	Toluene	µg/kg	1318	95UCL	4.8E+06	--	3E-04	--
24719 RAVENNA AVE	TPH as Diesel	mg/kg	5425	95UCL	1.3E+03	--	<b>4E+00</b>	--
24719 RAVENNA AVE	TPH as Gasoline	mg/kg	684.8	95UCL	7.6E+02	--	9E-01	--
24719 RAVENNA AVE	TPH as Motor Oil	mg/kg	5283	95UCL	3.3E+03	--	<b>2E+00</b>	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil <=2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24719 RAVENNA AVE	Xylenes, Total	µg/kg	14244	95UCL	5.6E+05	--	3E-02	--
24722 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.54	Max	8.3E+04	--	7E-06	--
24722 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.00899	95UCL	4.0E+03	1.6E+01	2E-06	6E-10
24722 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0116	95UCL	2.3E+02	--	5E-05	--
24722 MARBELLA AVE	Benzene	µg/kg	0.148	95UCL	6.7E+04	2.2E+02	2E-06	7E-10
24722 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.18	Max	1.2E+03	3.5E+01	2E-04	5E-09
24722 MARBELLA AVE	Bromomethane	µg/kg	0.92	Max	8.8E+03	--	1E-04	--
24722 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.7	Max	2.3E+02	1.3E+00	3E-03	6E-07
24722 MARBELLA AVE	Naphthalene	mg/kg	0.00476	95UCL	1.5E+02	4.0E+00	3E-05	1E-09
24722 MARBELLA AVE	Pyrene	mg/kg	0.915	95UCL	1.7E+03	--	5E-04	--
24722 MARBELLA AVE	Toluene	µg/kg	1.392	95UCL	4.8E+06	--	3E-07	--
24722 MARBELLA AVE	TPH as Diesel	mg/kg	1154	95UCL	1.3E+03	--	9E-01	--
24722 MARBELLA AVE	TPH as Gasoline	mg/kg	0.808	95UCL	7.6E+02	--	1E-03	--
24722 MARBELLA AVE	TPH as Motor Oil	mg/kg	3147	95UCL	3.3E+03	--	1E+00	--
24722 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.22	Max	8.3E+04	--	3E-06	--
24722 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0046	95UCL	2.3E+02	--	2E-05	--
24722 NEPTUNE AVE	Benzene	µg/kg	1.065	95UCL	6.7E+04	2.2E+02	2E-05	5E-09
24722 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.17	Max	1.2E+03	3.5E+01	1E-04	5E-09
24722 NEPTUNE AVE	Bromomethane	µg/kg	2.4	Max	8.8E+03	--	3E-04	--
24722 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.32	Max	2.3E+02	1.3E+00	1E-03	3E-07
24722 NEPTUNE AVE	Ethylbenzene	µg/kg	0.42	Max	3.3E+06	4.8E+03	1E-07	9E-11
24722 NEPTUNE AVE	Naphthalene	mg/kg	0.0021	95UCL	1.5E+02	4.0E+00	1E-05	5E-10
24722 NEPTUNE AVE	Pyrene	mg/kg	0.0119	95UCL	1.7E+03	--	7E-06	--
24722 NEPTUNE AVE	Toluene	µg/kg	0.982	95UCL	4.8E+06	--	2E-07	--
24722 NEPTUNE AVE	TPH as Diesel	mg/kg	35.05	95UCL	1.3E+03	--	3E-02	--
24722 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.0772	95UCL	7.6E+02	--	1E-04	--
24722 NEPTUNE AVE	TPH as Motor Oil	mg/kg	118.6	95UCL	3.3E+03	--	4E-02	--
24722 NEPTUNE AVE	Xylenes, Total	µg/kg	0.441	95UCL	5.6E+05	--	8E-07	--
24722 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.35	Max	8.3E+04	--	4E-06	--
24722 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0846	95UCL	4.0E+03	1.6E+01	2E-05	5E-09
24722 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.263	95UCL	2.3E+02	--	1E-03	--
24722 PANAMA AVE	Benzene	µg/kg	0.34	Max	6.7E+04	2.2E+02	5E-06	2E-09
24722 PANAMA AVE	Naphthalene	mg/kg	0.126	95UCL	1.5E+02	4.0E+00	8E-04	3E-08
24722 PANAMA AVE	Pyrene	mg/kg	0.81	95UCL	1.7E+03	--	5E-04	--
24722 PANAMA AVE	Toluene	µg/kg	0.61	Max	4.8E+06	--	1E-07	--
24722 PANAMA AVE	TPH as Diesel	mg/kg	437.2	95UCL	1.3E+03	--	3E-01	--
24722 PANAMA AVE	TPH as Gasoline	mg/kg	0.098	Max	7.6E+02	--	1E-04	--
24722 PANAMA AVE	TPH as Motor Oil	mg/kg	1061	95UCL	3.3E+03	--	3E-01	--
24722 PANAMA AVE	Xylenes, Total	µg/kg	0.46	Max	5.6E+05	--	8E-07	--
24722 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.36	Max	8.3E+04	--	4E-06	--
24722 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.125	95UCL	4.0E+03	1.6E+01	3E-05	8E-09
24722 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.243	95UCL	2.3E+02	--	1E-03	--
24722 RAVENNA AVE	Benzene	µg/kg	0.298	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
24722 RAVENNA AVE	Bromomethane	µg/kg	1.065	95UCL	8.8E+03	--	1E-04	--
24722 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.694	95UCL	2.3E+02	1.3E+00	3E-03	5E-07
24722 RAVENNA AVE	Naphthalene	mg/kg	0.0722	95UCL	1.5E+02	4.0E+00	5E-04	2E-08
24722 RAVENNA AVE	Pyrene	mg/kg	0.664	95UCL	1.7E+03	--	4E-04	--
24722 RAVENNA AVE	Toluene	µg/kg	0.287	95UCL	4.8E+06	--	6E-08	--
24722 RAVENNA AVE	TPH as Diesel	mg/kg	1780	95UCL	1.3E+03	--	1E+00	--
24722 RAVENNA AVE	TPH as Gasoline	mg/kg	0.103	95UCL	7.6E+02	--	1E-04	--
24722 RAVENNA AVE	TPH as Motor Oil	mg/kg	5260	95UCL	3.3E+03	--	<b>2E+00</b>	--
24723 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.545	95UCL	8.3E+04	--	7E-06	--
24723 MARBELLA AVE	1,4-Dichlorobenzene	µg/kg	0.2	Max	3.6E+06	2.8E+03	6E-08	7E-11
24723 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.18	Max	4.0E+03	1.6E+01	5E-05	1E-08
24723 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0394	95UCL	2.3E+02	--	2E-04	--
24723 MARBELLA AVE	Benzene	µg/kg	3.131	95UCL	6.7E+04	2.2E+02	5E-05	1E-08
24723 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.39	Max	1.2E+03	3.5E+01	3E-04	1E-08
24723 MARBELLA AVE	Cobalt	mg/kg	10.25	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24723 MARBELLA AVE	Ethylbenzene	µg/kg	0.22	Max	3.3E+06	4.8E+03	7E-08	5E-11
24723 MARBELLA AVE	Naphthalene	mg/kg	0.00218	95UCL	1.5E+02	4.0E+00	1E-05	6E-10
24723 MARBELLA AVE	Pyrene	mg/kg	1.181	95UCL	1.7E+03	--	7E-04	--
24723 MARBELLA AVE	Tetrachloroethene	µg/kg	0.32	Max	8.6E+04	5.5E+02	4E-06	6E-10

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq 2$  ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24723 MARBELLA AVE	Toluene	µg/kg	1.899	95UCL	4.8E+06	--	4E-07	--
24723 MARBELLA AVE	TPH as Diesel	mg/kg	2556	95UCL	1.3E+03	--	2E+00	--
24723 MARBELLA AVE	TPH as Gasoline	mg/kg	0.14	Max	7.6E+02	--	2E-04	--
24723 MARBELLA AVE	TPH as Motor Oil	mg/kg	5615	95UCL	3.3E+03	--	2E+00	--
24723 MARBELLA AVE	Xylenes, Total	µg/kg	0.69	95UCL	5.6E+05	--	1E-06	--
24723 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.34	Max	8.3E+04	--	4E-06	--
24723 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00979	95UCL	4.0E+03	1.6E+01	2E-06	6E-10
24723 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0187	95UCL	2.3E+02	--	8E-05	--
24723 RAVENNA AVE	Benzene	µg/kg	0.205	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24723 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.34	Max	1.2E+03	3.5E+01	3E-04	1E-08
24723 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.42	Max	2.3E+02	1.3E+00	2E-03	3E-07
24723 RAVENNA AVE	Ethylbenzene	µg/kg	0.48	Max	3.3E+06	4.8E+03	2E-07	1E-10
24723 RAVENNA AVE	Naphthalene	mg/kg	0.0128	95UCL	1.5E+02	4.0E+00	9E-05	3E-09
24723 RAVENNA AVE	Pyrene	mg/kg	0.105	95UCL	1.7E+03	--	6E-05	--
24723 RAVENNA AVE	Toluene	µg/kg	0.329	95UCL	4.8E+06	--	7E-08	--
24723 RAVENNA AVE	TPH as Diesel	mg/kg	299.4	95UCL	1.3E+03	--	2E-01	--
24723 RAVENNA AVE	TPH as Gasoline	mg/kg	0.154	95UCL	7.6E+02	--	2E-04	--
24723 RAVENNA AVE	TPH as Motor Oil	mg/kg	673.2	95UCL	3.3E+03	--	2E-01	--
24723 RAVENNA AVE	Xylenes, Total	µg/kg	0.73	Max	5.6E+05	--	1E-06	--
24725 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0149	95UCL	2.3E+02	--	7E-05	--
24725 NEPTUNE AVE	Benzene	µg/kg	0.168	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24725 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.36	Max	1.2E+03	3.5E+01	3E-04	1E-08
24725 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.38	Max	2.3E+02	1.3E+00	2E-03	3E-07
24725 NEPTUNE AVE	Naphthalene	mg/kg	0.00875	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
24725 NEPTUNE AVE	Pyrene	mg/kg	0.05	95UCL	1.7E+03	--	3E-05	--
24725 NEPTUNE AVE	Toluene	µg/kg	0.299	95UCL	4.8E+06	--	6E-08	--
24725 NEPTUNE AVE	TPH as Diesel	mg/kg	227.9	95UCL	1.3E+03	--	2E-01	--
24725 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.081	Max	7.6E+02	--	1E-04	--
24725 NEPTUNE AVE	TPH as Motor Oil	mg/kg	669.6	95UCL	3.3E+03	--	2E-01	--
24726 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.97	Max	8.3E+04	--	1E-05	--
24726 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.014	Max	4.0E+03	1.6E+01	4E-06	9E-10
24726 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0208	95UCL	2.3E+02	--	9E-05	--
24726 MARBELLA AVE	Benzene	µg/kg	0.42	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24726 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1.1	Max	1.2E+03	3.5E+01	9E-04	3E-08
24726 MARBELLA AVE	Cobalt	mg/kg	11.34	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
24726 MARBELLA AVE	Ethylbenzene	µg/kg	0.39	Max	3.3E+06	4.8E+03	1E-07	8E-11
24726 MARBELLA AVE	Naphthalene	mg/kg	0.00604	95UCL	1.5E+02	4.0E+00	4E-05	2E-09
24726 MARBELLA AVE	Pyrene	mg/kg	0.13	95UCL	1.7E+03	--	8E-05	--
24726 MARBELLA AVE	Toluene	µg/kg	4.758	95UCL	4.8E+06	--	1E-06	--
24726 MARBELLA AVE	TPH as Diesel	mg/kg	358	95UCL	1.3E+03	--	3E-01	--
24726 MARBELLA AVE	TPH as Gasoline	mg/kg	3.649	95UCL	7.6E+02	--	5E-03	--
24726 MARBELLA AVE	TPH as Motor Oil	mg/kg	750.2	95UCL	3.3E+03	--	2E-01	--
24726 MARBELLA AVE	Xylenes, Total	µg/kg	0.79	Max	5.6E+05	--	1E-06	--
24726 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.00871	95UCL	4.0E+03	1.6E+01	2E-06	6E-10
24726 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0647	95UCL	2.3E+02	--	3E-04	--
24726 RAVENNA AVE	Benzene	µg/kg	0.17	Max	6.7E+04	2.2E+02	3E-06	8E-10
24726 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.4	Max	2.3E+02	1.3E+00	2E-03	3E-07
24726 RAVENNA AVE	Naphthalene	mg/kg	0.0134	95UCL	1.5E+02	4.0E+00	9E-05	3E-09
24726 RAVENNA AVE	Pyrene	mg/kg	0.263	95UCL	1.7E+03	--	2E-04	--
24726 RAVENNA AVE	TPH as Diesel	mg/kg	530.5	95UCL	1.3E+03	--	4E-01	--
24726 RAVENNA AVE	TPH as Gasoline	mg/kg	0.071	Max	7.6E+02	--	9E-05	--
24726 RAVENNA AVE	TPH as Motor Oil	mg/kg	1039	95UCL	3.3E+03	--	3E-01	--
24727 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.28	Max	8.3E+04	--	3E-06	--
24727 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.107	95UCL	4.0E+03	1.6E+01	3E-05	7E-09
24727 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0919	95UCL	2.3E+02	--	4E-04	--
24727 MARBELLA AVE	Benzene	µg/kg	0.158	95UCL	6.7E+04	2.2E+02	2E-06	7E-10
24727 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.28	Max	2.3E+02	1.3E+00	1E-03	2E-07
24727 MARBELLA AVE	Naphthalene	mg/kg	0.12	95UCL	1.5E+02	4.0E+00	8E-04	3E-08
24727 MARBELLA AVE	Pyrene	mg/kg	0.409	95UCL	1.7E+03	--	2E-04	--
24727 MARBELLA AVE	Toluene	µg/kg	0.23	Max	4.8E+06	--	5E-08	--
24727 MARBELLA AVE	TPH as Diesel	mg/kg	1073	95UCL	1.3E+03	--	8E-01	--
24727 MARBELLA AVE	TPH as Gasoline	mg/kg	0.055	Max	7.6E+02	--	7E-05	--

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$ 2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24727 MARBELLA AVE	TPH as Motor Oil	mg/kg	3168	95UCL	3.3E+03	--	1E+00	--
24728 NEPTUNE AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	710	Max	8.3E+04	--	9E-03	--
24728 NEPTUNE AVE	1,3,5-Trimethylbenzene	$\mu$ g/kg	210	Max	8.5E+04	--	3E-03	--
24728 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	4.1	Max	4.0E+03	1.6E+01	1E-03	3E-07
24728 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	1.074	95UCL	2.3E+02	--	5E-03	--
24728 NEPTUNE AVE	Benzene	$\mu$ g/kg	58.49	95UCL	6.7E+04	2.2E+02	9E-04	3E-07
24728 NEPTUNE AVE	Bromomethane	$\mu$ g/kg	3.8	Max	8.8E+03	--	4E-04	--
24728 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.56	Max	2.3E+02	1.3E+00	2E-03	4E-07
24728 NEPTUNE AVE	Ethylbenzene	$\mu$ g/kg	510	Max	3.3E+06	4.8E+03	2E-04	1E-07
24728 NEPTUNE AVE	Naphthalene	mg/kg	4.3	Max	1.5E+02	4.0E+00	3E-02	1E-06
24728 NEPTUNE AVE	Pyrene	mg/kg	0.449	95UCL	1.7E+03	--	3E-04	--
24728 NEPTUNE AVE	Toluene	$\mu$ g/kg	7.654	95UCL	4.8E+06	--	2E-06	--
24728 NEPTUNE AVE	TPH as Diesel	mg/kg	1634	95UCL	1.3E+03	--	1E+00	--
24728 NEPTUNE AVE	TPH as Gasoline	mg/kg	226	95UCL	7.6E+02	--	3E-01	--
24728 NEPTUNE AVE	TPH as Motor Oil	mg/kg	2784	95UCL	3.3E+03	--	8E-01	--
24728 NEPTUNE AVE	Xylenes, Total	$\mu$ g/kg	270	Max	5.6E+05	--	5E-04	--
24728 PANAMA AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.44	Max	8.3E+04	--	5E-06	--
24728 PANAMA AVE	1,3,5-Trimethylbenzene	$\mu$ g/kg	0.12	Max	8.5E+04	--	1E-06	--
24728 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.163	95UCL	4.0E+03	1.6E+01	4E-05	1E-08
24728 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.513	95UCL	2.3E+02	--	2E-03	--
24728 PANAMA AVE	Benzene	$\mu$ g/kg	0.355	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24728 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.56	Max	1.2E+03	3.5E+01	5E-04	2E-08
24728 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.8	Max	2.3E+02	1.3E+00	3E-03	6E-07
24728 PANAMA AVE	Ethylbenzene	$\mu$ g/kg	0.16	Max	3.3E+06	4.8E+03	5E-08	3E-11
24728 PANAMA AVE	Naphthalene	mg/kg	0.0163	95UCL	1.5E+02	4.0E+00	1E-04	4E-09
24728 PANAMA AVE	Pyrene	mg/kg	1.016	95UCL	1.7E+03	--	6E-04	--
24728 PANAMA AVE	Toluene	$\mu$ g/kg	0.179	95UCL	4.8E+06	--	4E-08	--
24728 PANAMA AVE	TPH as Diesel	mg/kg	671.9	95UCL	1.3E+03	--	5E-01	--
24728 PANAMA AVE	TPH as Gasoline	mg/kg	0.211	95UCL	7.6E+02	--	3E-04	--
24728 PANAMA AVE	TPH as Motor Oil	mg/kg	1753	95UCL	3.3E+03	--	5E-01	--
24728 PANAMA AVE	Xylenes, Total	$\mu$ g/kg	0.24	Max	5.6E+05	--	4E-07	--
24729 NEPTUNE AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.91	Max	8.3E+04	--	1E-05	--
24729 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.2	Max	4.0E+03	1.6E+01	5E-05	1E-08
24729 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.141	95UCL	2.3E+02	--	6E-04	--
24729 NEPTUNE AVE	Benzene	$\mu$ g/kg	0.2	Max	6.7E+04	2.2E+02	3E-06	9E-10
24729 NEPTUNE AVE	Bromomethane	$\mu$ g/kg	2.1	Max	8.8E+03	--	2E-04	--
24729 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.76	Max	2.3E+02	1.3E+00	3E-03	6E-07
24729 NEPTUNE AVE	Naphthalene	mg/kg	0.12	Max	1.5E+02	4.0E+00	8E-04	3E-08
24729 NEPTUNE AVE	Pyrene	mg/kg	0.585	95UCL	1.7E+03	--	3E-04	--
24729 NEPTUNE AVE	Toluene	$\mu$ g/kg	1.27	95UCL	4.8E+06	--	3E-07	--
24729 NEPTUNE AVE	TPH as Diesel	mg/kg	1161	95UCL	1.3E+03	--	9E-01	--
24729 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.805	95UCL	7.6E+02	--	1E-03	--
24729 NEPTUNE AVE	TPH as Motor Oil	mg/kg	2107	95UCL	3.3E+03	--	6E-01	--
24729 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0104	95UCL	4.0E+03	1.6E+01	3E-06	7E-10
24729 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0307	95UCL	2.3E+02	--	1E-04	--
24729 PANAMA AVE	Benzene	$\mu$ g/kg	0.2	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24729 PANAMA AVE	Naphthalene	mg/kg	0.0414	95UCL	1.5E+02	4.0E+00	3E-04	1E-08
24729 PANAMA AVE	Pyrene	mg/kg	0.177	95UCL	1.7E+03	--	1E-04	--
24729 PANAMA AVE	Toluene	$\mu$ g/kg	0.179	95UCL	4.8E+06	--	4E-08	--
24729 PANAMA AVE	TPH as Diesel	mg/kg	388.8	95UCL	1.3E+03	--	3E-01	--
24729 PANAMA AVE	TPH as Gasoline	mg/kg	0.076	95UCL	7.6E+02	--	1E-04	--
24729 PANAMA AVE	TPH as Motor Oil	mg/kg	941.6	95UCL	3.3E+03	--	3E-01	--
24729 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.00361	95UCL	2.3E+02	--	2E-05	--
24729 RAVENNA AVE	Benzene	$\mu$ g/kg	0.243	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24729 RAVENNA AVE	Naphthalene	mg/kg	0.039	Max	1.5E+02	4.0E+00	3E-04	1E-08
24729 RAVENNA AVE	Pyrene	mg/kg	0.012	95UCL	1.7E+03	--	7E-06	--
24729 RAVENNA AVE	Toluene	$\mu$ g/kg	0.35	Max	4.8E+06	--	7E-08	--
24729 RAVENNA AVE	TPH as Diesel	mg/kg	89	Max	1.3E+03	--	7E-02	--
24729 RAVENNA AVE	TPH as Gasoline	mg/kg	0.096	Max	7.6E+02	--	1E-04	--
24729 RAVENNA AVE	TPH as Motor Oil	mg/kg	320	Max	3.3E+03	--	1E-01	--
24729 RAVENNA AVE	Xylenes, Total	$\mu$ g/kg	0.21	Max	5.6E+05	--	4E-07	--
24732 MARBELLA AVE	1,2,4-Trimethylbenzene	$\mu$ g/kg	0.262	95UCL	8.3E+04	--	3E-06	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil <=2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24732 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	0.11	Max	8.5E+04	--	1E-06	--
24732 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.00432	95UCL	2.3E+02	--	2E-05	--
24732 MARBELLA AVE	Benzene	µg/kg	0.234	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24732 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.335	95UCL	2.3E+02	1.3E+00	1E-03	3E-07
24732 MARBELLA AVE	Ethylbenzene	µg/kg	0.43	Max	3.3E+06	4.8E+03	1E-07	9E-11
24732 MARBELLA AVE	Naphthalene	mg/kg	0.0046	Max	1.5E+02	4.0E+00	3E-05	1E-09
24732 MARBELLA AVE	Pyrene	mg/kg	0.0257	95UCL	1.7E+03	--	2E-05	--
24732 MARBELLA AVE	Toluene	µg/kg	0.411	95UCL	4.8E+06	--	9E-08	--
24732 MARBELLA AVE	TPH as Diesel	mg/kg	206.5	95UCL	1.3E+03	--	2E-01	--
24732 MARBELLA AVE	TPH as Motor Oil	mg/kg	811.6	95UCL	3.3E+03	--	3E-01	--
24732 MARBELLA AVE	Xylenes, Total	µg/kg	0.587	95UCL	5.6E+05	--	1E-06	--
24732 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.21	Max	8.3E+04	--	3E-06	--
24732 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.024	Max	4.0E+03	1.6E+01	6E-06	2E-09
24732 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0359	95UCL	2.3E+02	--	2E-04	--
24732 NEPTUNE AVE	Benzene	µg/kg	0.54	95UCL	6.7E+04	2.2E+02	8E-06	3E-09
24732 NEPTUNE AVE	Ethylbenzene	µg/kg	1.3	Max	3.3E+06	4.8E+03	4E-07	3E-10
24732 NEPTUNE AVE	Naphthalene	mg/kg	0.00882	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
24732 NEPTUNE AVE	Pyrene	mg/kg	0.377	95UCL	1.7E+03	--	2E-04	--
24732 NEPTUNE AVE	Toluene	µg/kg	0.277	95UCL	4.8E+06	--	6E-08	--
24732 NEPTUNE AVE	TPH as Diesel	mg/kg	593.7	95UCL	1.3E+03	--	5E-01	--
24732 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.191	95UCL	7.6E+02	--	3E-04	--
24732 NEPTUNE AVE	TPH as Motor Oil	mg/kg	1479	95UCL	3.3E+03	--	5E-01	--
24732 NEPTUNE AVE	Xylenes, Total	µg/kg	0.39	Max	5.6E+05	--	7E-07	--
24732 PANAMA AVE	1,1,2,2-Tetrachloroethane	µg/kg	0.1	Max	6.2E+05	4.7E+02	2E-07	2E-10
24732 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.22	Max	8.3E+04	--	3E-06	--
24732 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.022	Max	4.0E+03	1.6E+01	6E-06	1E-09
24732 PANAMA AVE	2,4-Dinitrotoluene	mg/kg	0.067	Max	1.2E+02	1.6E+00	6E-04	4E-08
24732 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0314	95UCL	2.3E+02	--	1E-04	--
24732 PANAMA AVE	Benzene	µg/kg	0.236	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24732 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.46	Max	1.2E+03	3.5E+01	4E-04	1E-08
24732 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.38	Max	2.3E+02	1.3E+00	2E-03	3E-07
24732 PANAMA AVE	Naphthalene	mg/kg	0.019	Max	1.5E+02	4.0E+00	1E-04	5E-09
24732 PANAMA AVE	Pyrene	mg/kg	0.538	95UCL	1.7E+03	--	3E-04	--
24732 PANAMA AVE	Toluene	µg/kg	0.222	95UCL	4.8E+06	--	5E-08	--
24732 PANAMA AVE	TPH as Diesel	mg/kg	481.5	95UCL	1.3E+03	--	4E-01	--
24732 PANAMA AVE	TPH as Gasoline	mg/kg	0.13	Max	7.6E+02	--	2E-04	--
24732 PANAMA AVE	TPH as Motor Oil	mg/kg	1344	95UCL	3.3E+03	--	4E-01	--
24732 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.306	95UCL	8.3E+04	--	4E-06	--
24732 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	0.11	Max	8.5E+04	--	1E-06	--
24732 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.0511	95UCL	4.0E+03	1.6E+01	1E-05	3E-09
24732 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0984	95UCL	2.3E+02	--	4E-04	--
24732 RAVENNA AVE	Benzene	µg/kg	0.23	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24732 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.28	Max	2.3E+02	1.3E+00	1E-03	2E-07
24732 RAVENNA AVE	Naphthalene	mg/kg	0.0223	95UCL	1.5E+02	4.0E+00	2E-04	6E-09
24732 RAVENNA AVE	Pyrene	mg/kg	0.193	95UCL	1.7E+03	--	1E-04	--
24732 RAVENNA AVE	Toluene	µg/kg	0.309	95UCL	4.8E+06	--	6E-08	--
24732 RAVENNA AVE	TPH as Diesel	mg/kg	1009	95UCL	1.3E+03	--	8E-01	--
24732 RAVENNA AVE	TPH as Gasoline	mg/kg	0.435	95UCL	7.6E+02	--	6E-04	--
24732 RAVENNA AVE	TPH as Motor Oil	mg/kg	1798	95UCL	3.3E+03	--	5E-01	--
24732 RAVENNA AVE	Xylenes, Total	µg/kg	0.269	95UCL	5.6E+05	--	5E-07	--
24733 MARBELLA AVE	1-Methylnaphthalene	mg/kg	2	Max	4.0E+03	1.6E+01	5E-04	1E-07
24733 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.787	95UCL	2.3E+02	--	3E-03	--
24733 MARBELLA AVE	Benzene	µg/kg	0.188	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24733 MARBELLA AVE	Cobalt	mg/kg	9.765	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24733 MARBELLA AVE	Ethylbenzene	µg/kg	280	Max	3.3E+06	4.8E+03	9E-05	6E-08
24733 MARBELLA AVE	Naphthalene	mg/kg	6.5	Max	1.5E+02	4.0E+00	4E-02	2E-06
24733 MARBELLA AVE	Pyrene	mg/kg	0.152	95UCL	1.7E+03	--	9E-05	--
24733 MARBELLA AVE	Toluene	µg/kg	0.213	95UCL	4.8E+06	--	4E-08	--
24733 MARBELLA AVE	TPH as Diesel	mg/kg	1082	95UCL	1.3E+03	--	8E-01	--
24733 MARBELLA AVE	TPH as Gasoline	mg/kg	690	Max	7.6E+02	--	9E-01	--
24733 MARBELLA AVE	TPH as Motor Oil	mg/kg	1475	95UCL	3.3E+03	--	5E-01	--
24733 MARBELLA AVE	Xylenes, Total	µg/kg	0.25	Max	5.6E+05	--	5E-07	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq 2$  ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24733 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.12	Max	8.3E+04	--	2E-06	--
24733 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0734	95UCL	4.0E+03	1.6E+01	2E-05	5E-09
24733 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.148	95UCL	2.3E+02	--	7E-04	--
24733 PANAMA AVE	Benzene	µg/kg	0.329	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
24733 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.59	Max	1.2E+03	3.5E+01	5E-04	2E-08
24733 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.6	Max	2.3E+02	1.3E+00	3E-03	5E-07
24733 PANAMA AVE	Naphthalene	mg/kg	0.0931	95UCL	1.5E+02	4.0E+00	6E-04	2E-08
24733 PANAMA AVE	Pyrene	mg/kg	0.848	95UCL	1.7E+03	--	5E-04	--
24733 PANAMA AVE	Toluene	µg/kg	1.416	95UCL	4.8E+06	--	3E-07	--
24733 PANAMA AVE	TPH as Diesel	mg/kg	805.3	95UCL	1.3E+03	--	6E-01	--
24733 PANAMA AVE	TPH as Gasoline	mg/kg	0.12	Max	7.6E+02	--	2E-04	--
24733 PANAMA AVE	TPH as Motor Oil	mg/kg	1579	95UCL	3.3E+03	--	5E-01	--
24733 PANAMA AVE	Xylenes, Total	µg/kg	0.2	Max	5.6E+05	--	4E-07	--
24733 RAVENNA AVE	1,2,3-Trichloropropane	µg/kg	0.75	Max	2.4E+03	2.1E+01	3E-04	4E-08
24733 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.39	95UCL	8.3E+04	--	5E-06	--
24733 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	0.3	Max	8.5E+04	--	4E-06	--
24733 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.312	95UCL	4.0E+03	1.6E+01	8E-05	2E-08
24733 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.303	95UCL	2.3E+02	--	1E-03	--
24733 RAVENNA AVE	Benzene	µg/kg	0.449	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24733 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.98	Max	1.2E+03	3.5E+01	8E-04	3E-08
24733 RAVENNA AVE	Bromomethane	µg/kg	2.3	Max	8.8E+03	--	3E-04	--
24733 RAVENNA AVE	Ethylbenzene	µg/kg	0.83	Max	3.3E+06	4.8E+03	3E-07	2E-10
24733 RAVENNA AVE	Naphthalene	mg/kg	0.0535	95UCL	1.5E+02	4.0E+00	4E-04	1E-08
24733 RAVENNA AVE	Pyrene	mg/kg	0.161	95UCL	1.7E+03	--	9E-05	--
24733 RAVENNA AVE	Thallium	mg/kg	0.28	Max	7.8E-01	--	4E-01	--
24733 RAVENNA AVE	Toluene	µg/kg	0.56	95UCL	4.8E+06	--	1E-07	--
24733 RAVENNA AVE	TPH as Diesel	mg/kg	1022	95UCL	1.3E+03	--	8E-01	--
24733 RAVENNA AVE	TPH as Gasoline	mg/kg	0.258	95UCL	7.6E+02	--	3E-04	--
24733 RAVENNA AVE	TPH as Motor Oil	mg/kg	1689	95UCL	3.3E+03	--	5E-01	--
24733 RAVENNA AVE	Trichloroethene	µg/kg	0.18	Max	5.8E+03	1.2E+03	3E-05	2E-10
24733 RAVENNA AVE	Xylenes, Total	µg/kg	0.455	95UCL	5.6E+05	--	8E-07	--
24735 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	7.9	Max	8.3E+04	--	1E-04	--
24735 NEPTUNE AVE	1,3,5-Trimethylbenzene	µg/kg	1.2	Max	8.5E+04	--	1E-05	--
24735 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.0331	95UCL	4.0E+03	1.6E+01	8E-06	2E-09
24735 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0772	95UCL	2.3E+02	--	3E-04	--
24735 NEPTUNE AVE	Benzene	µg/kg	0.254	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24735 NEPTUNE AVE	Ethylbenzene	µg/kg	2.1	Max	3.3E+06	4.8E+03	6E-07	4E-10
24735 NEPTUNE AVE	Naphthalene	mg/kg	0.0178	95UCL	1.5E+02	4.0E+00	1E-04	5E-09
24735 NEPTUNE AVE	Pyrene	mg/kg	0.579	95UCL	1.7E+03	--	3E-04	--
24735 NEPTUNE AVE	Toluene	µg/kg	0.661	95UCL	4.8E+06	--	1E-07	--
24735 NEPTUNE AVE	TPH as Diesel	mg/kg	3188	95UCL	1.3E+03	--	3E+00	--
24735 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.207	95UCL	7.6E+02	--	3E-04	--
24735 NEPTUNE AVE	TPH as Motor Oil	mg/kg	6908	95UCL	3.3E+03	--	2E+00	--
24735 NEPTUNE AVE	Xylenes, Total	µg/kg	0.889	95UCL	5.6E+05	--	2E-06	--
24736 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.32	Max	8.3E+04	--	4E-06	--
24736 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.022	Max	4.0E+03	1.6E+01	6E-06	1E-09
24736 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0146	95UCL	2.3E+02	--	6E-05	--
24736 MARBELLA AVE	Benzene	µg/kg	0.209	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24736 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.27	Max	2.3E+02	1.3E+00	1E-03	2E-07
24736 MARBELLA AVE	Cobalt	mg/kg	9.701	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
24736 MARBELLA AVE	Naphthalene	mg/kg	0.03	Max	1.5E+02	4.0E+00	2E-04	8E-09
24736 MARBELLA AVE	Pyrene	mg/kg	0.101	95UCL	1.7E+03	--	6E-05	--
24736 MARBELLA AVE	Toluene	µg/kg	0.339	95UCL	4.8E+06	--	7E-08	--
24736 MARBELLA AVE	TPH as Diesel	mg/kg	330.5	95UCL	1.3E+03	--	3E-01	--
24736 MARBELLA AVE	TPH as Gasoline	mg/kg	0.199	95UCL	7.6E+02	--	3E-04	--
24736 MARBELLA AVE	TPH as Motor Oil	mg/kg	1059	95UCL	3.3E+03	--	3E-01	--
24736 MARBELLA AVE	Xylenes, Total	µg/kg	0.24	Max	5.6E+05	--	4E-07	--
24736 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	811.4	95UCL	8.3E+04	--	1E-02	--
24736 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	160	Max	8.5E+04	--	2E-03	--
24736 RAVENNA AVE	1-Methylnaphthalene	mg/kg	3.9	95UCL	4.0E+03	1.6E+01	1E-03	3E-07
24736 RAVENNA AVE	2-Methylnaphthalene	mg/kg	3.401	95UCL	2.3E+02	--	2E-02	--
24736 RAVENNA AVE	Benzene	µg/kg	25.29	95UCL	6.7E+04	2.2E+02	4E-04	1E-07

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24736 RAVENNA AVE	Ethylbenzene	µg/kg	370	Max	3.3E+06	4.8E+03	1E-04	8E-08
24736 RAVENNA AVE	Naphthalene	mg/kg	1.292	95UCL	1.5E+02	4.0E+00	9E-03	3E-07
24736 RAVENNA AVE	Pyrene	mg/kg	0.796	95UCL	1.7E+03	--	5E-04	--
24736 RAVENNA AVE	Toluene	µg/kg	56	Max	4.8E+06	--	1E-05	--
24736 RAVENNA AVE	TPH as Diesel	mg/kg	3990	95UCL	1.3E+03	--	3E+00	--
24736 RAVENNA AVE	TPH as Gasoline	mg/kg	270	Max	7.6E+02	--	4E-01	--
24736 RAVENNA AVE	TPH as Motor Oil	mg/kg	5213	95UCL	3.3E+03	--	2E+00	--
24736 RAVENNA AVE	Xylenes, Total	µg/kg	270	Max	5.6E+05	--	5E-04	--
24737 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	410	Max	8.3E+04	--	5E-03	--
24737 MARBELLA AVE	1,3,5-Trimethylbenzene	µg/kg	67	Max	8.5E+04	--	8E-04	--
24737 MARBELLA AVE	1-Methylnaphthalene	mg/kg	23	Max	4.0E+03	1.6E+01	6E-03	2E-06
24737 MARBELLA AVE	2-Methylnaphthalene	mg/kg	13.43	95UCL	2.3E+02	--	6E-02	--
24737 MARBELLA AVE	Benzene	µg/kg	6.418	95UCL	6.7E+04	2.2E+02	1E-04	3E-08
24737 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.17	Max	1.2E+03	3.5E+01	1E-04	5E-09
24737 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.56	Max	2.3E+02	1.3E+00	2E-03	4E-07
24737 MARBELLA AVE	Ethylbenzene	µg/kg	250	Max	3.3E+06	4.8E+03	8E-05	5E-08
24737 MARBELLA AVE	Naphthalene	mg/kg	4.735	95UCL	1.5E+02	4.0E+00	3E-02	1E-06
24737 MARBELLA AVE	Pyrene	mg/kg	1.304	95UCL	1.7E+03	--	8E-04	--
24737 MARBELLA AVE	Tetrachloroethene	µg/kg	0.18	Max	8.6E+04	5.5E+02	2E-06	3E-10
24737 MARBELLA AVE	Toluene	µg/kg	0.36	95UCL	4.8E+06	--	8E-08	--
24737 MARBELLA AVE	TPH as Diesel	mg/kg	6894	95UCL	1.3E+03	--	5E+00	--
24737 MARBELLA AVE	TPH as Gasoline	mg/kg	7.921	95UCL	7.6E+02	--	1E-02	--
24737 MARBELLA AVE	TPH as Motor Oil	mg/kg	8352	95UCL	3.3E+03	--	3E+00	--
24737 MARBELLA AVE	Xylenes, Total	µg/kg	210	Max	5.6E+05	--	4E-04	--
24738 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.244	95UCL	8.3E+04	--	3E-06	--
24738 NEPTUNE AVE	1,3,5-Trimethylbenzene	µg/kg	0.1	Max	8.5E+04	--	1E-06	--
24738 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.131	95UCL	4.0E+03	1.6E+01	3E-05	8E-09
24738 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.343	95UCL	2.3E+02	--	2E-03	--
24738 NEPTUNE AVE	Benzene	µg/kg	0.814	95UCL	6.7E+04	2.2E+02	1E-05	4E-09
24738 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.27	Max	2.3E+02	1.3E+00	1E-03	2E-07
24738 NEPTUNE AVE	Ethylbenzene	µg/kg	0.23	Max	3.3E+06	4.8E+03	7E-08	5E-11
24738 NEPTUNE AVE	Naphthalene	mg/kg	0.175	95UCL	1.5E+02	4.0E+00	1E-03	4E-08
24738 NEPTUNE AVE	Pyrene	mg/kg	0.276	95UCL	1.7E+03	--	2E-04	--
24738 NEPTUNE AVE	Toluene	µg/kg	0.355	95UCL	4.8E+06	--	7E-08	--
24738 NEPTUNE AVE	TPH as Diesel	mg/kg	776.4	95UCL	1.3E+03	--	6E-01	--
24738 NEPTUNE AVE	TPH as Gasoline	mg/kg	10.07	95UCL	7.6E+02	--	1E-02	--
24738 NEPTUNE AVE	TPH as Motor Oil	mg/kg	2021	95UCL	3.3E+03	--	6E-01	--
24738 NEPTUNE AVE	Xylenes, Total	µg/kg	0.29	95UCL	5.6E+05	--	5E-07	--
24738 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.492	95UCL	8.3E+04	--	6E-06	--
24738 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.022	Max	4.0E+03	1.6E+01	6E-06	1E-09
24738 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.104	95UCL	2.3E+02	--	5E-04	--
24738 PANAMA AVE	Benzene	µg/kg	0.222	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24738 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.43	Max	1.2E+03	3.5E+01	4E-04	1E-08
24738 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.22	Max	2.3E+02	1.3E+00	9E-04	2E-07
24738 PANAMA AVE	Ethylbenzene	µg/kg	0.44	Max	3.3E+06	4.8E+03	1E-07	9E-11
24738 PANAMA AVE	Naphthalene	mg/kg	0.0206	95UCL	1.5E+02	4.0E+00	1E-04	5E-09
24738 PANAMA AVE	Pyrene	mg/kg	0.425	95UCL	1.7E+03	--	3E-04	--
24738 PANAMA AVE	Toluene	µg/kg	0.379	95UCL	4.8E+06	--	8E-08	--
24738 PANAMA AVE	TPH as Diesel	mg/kg	867.5	95UCL	1.3E+03	--	7E-01	--
24738 PANAMA AVE	TPH as Motor Oil	mg/kg	2272	95UCL	3.3E+03	--	7E-01	--
24738 PANAMA AVE	Trichloroethene	µg/kg	0.25	Max	5.8E+03	1.2E+03	4E-05	2E-10
24738 PANAMA AVE	Xylenes, Total	µg/kg	0.23	Max	5.6E+05	--	4E-07	--
24739 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.56	Max	8.3E+04	--	7E-06	--
24739 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.013	Max	4.0E+03	1.6E+01	3E-06	8E-10
24739 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0294	95UCL	2.3E+02	--	1E-04	--
24739 NEPTUNE AVE	Benzene	µg/kg	0.187	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24739 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.25	Max	2.3E+02	1.3E+00	1E-03	2E-07
24739 NEPTUNE AVE	Naphthalene	mg/kg	0.0098	95UCL	1.5E+02	4.0E+00	7E-05	3E-09
24739 NEPTUNE AVE	Pyrene	mg/kg	0.792	95UCL	1.7E+03	--	5E-04	--
24739 NEPTUNE AVE	Toluene	µg/kg	0.291	95UCL	4.8E+06	--	6E-08	--
24739 NEPTUNE AVE	TPH as Diesel	mg/kg	2785	95UCL	1.3E+03	--	2E+00	--
24739 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.11	Max	7.6E+02	--	1E-04	--

**Appendix E**  
**Detailed Risk Calculations**

**Table E-1**  
**COC-Specific Risk and Hazard Results, Residential Properties**  
**Onsite Resident**  
**Soil  $\leq$  2 ft bgs**

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24739 NEPTUNE AVE	TPH as Motor Oil	mg/kg	6235	95UCL	3.3E+03	--	2E+00	--
24739 NEPTUNE AVE	Trichloroethene	µg/kg	0.18	Max	5.8E+03	1.2E+03	3E-05	2E-10
24739 NEPTUNE AVE	Xylenes, Total	µg/kg	0.22	Max	5.6E+05	--	4E-07	--
24739 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	12360	95UCL	8.3E+04	--	2E-01	--
24739 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	10000	Max	8.5E+04	--	1E-01	--
24739 PANAMA AVE	1,4-Dichlorobenzene	µg/kg	0.5	Max	3.6E+06	2.8E+03	1E-07	2E-10
24739 PANAMA AVE	1-Methylnaphthalene	mg/kg	5.069	95UCL	4.0E+03	1.6E+01	1E-03	3E-07
24739 PANAMA AVE	2-Methylnaphthalene	mg/kg	10.45	95UCL	2.3E+02	--	5E-02	--
24739 PANAMA AVE	Benzene	µg/kg	245.1	95UCL	6.7E+04	2.2E+02	4E-03	1E-06
24739 PANAMA AVE	Bromomethane	µg/kg	2.3	Max	8.8E+03	--	3E-04	--
24739 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.28	Max	2.3E+02	1.3E+00	1E-03	2E-07
24739 PANAMA AVE	Ethylbenzene	µg/kg	8600	Max	3.3E+06	4.8E+03	3E-03	2E-06
24739 PANAMA AVE	Methylene Chloride	µg/kg	6.09	95UCL	3.6E+05	5.3E+03	2E-05	1E-09
24739 PANAMA AVE	Naphthalene	mg/kg	6.424	95UCL	1.5E+02	4.0E+00	4E-02	2E-06
24739 PANAMA AVE	Pyrene	mg/kg	0.501	95UCL	1.7E+03	--	3E-04	--
24739 PANAMA AVE	Toluene	µg/kg	0.361	95UCL	4.8E+06	--	8E-08	--
24739 PANAMA AVE	TPH as Diesel	mg/kg	5301	95UCL	1.3E+03	--	4E+00	--
24739 PANAMA AVE	TPH as Gasoline	mg/kg	882.2	95UCL	7.6E+02	--	1E+00	--
24739 PANAMA AVE	TPH as Motor Oil	mg/kg	6749	95UCL	3.3E+03	--	2E+00	--
24739 PANAMA AVE	Xylenes, Total	µg/kg	26000	Max	5.6E+05	--	5E-02	--
24739 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	639.6	95UCL	8.3E+04	--	8E-03	--
24739 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	138.6	95UCL	8.5E+04	--	2E-03	--
24739 RAVENNA AVE	1,4-Dichlorobenzene	µg/kg	0.36	Max	3.6E+06	2.8E+03	1E-07	1E-10
24739 RAVENNA AVE	1-Methylnaphthalene	mg/kg	5.524	95UCL	4.0E+03	1.6E+01	1E-03	4E-07
24739 RAVENNA AVE	2-Methylnaphthalene	mg/kg	12.48	95UCL	2.3E+02	--	5E-02	--
24739 RAVENNA AVE	Benzene	µg/kg	252.6	95UCL	6.7E+04	2.2E+02	4E-03	1E-06
24739 RAVENNA AVE	Ethylbenzene	µg/kg	115.6	95UCL	3.3E+06	4.8E+03	4E-05	2E-08
24739 RAVENNA AVE	Naphthalene	mg/kg	4.622	95UCL	1.5E+02	4.0E+00	3E-02	1E-06
24739 RAVENNA AVE	Pyrene	mg/kg	2.975	95UCL	1.7E+03	--	2E-03	--
24739 RAVENNA AVE	Toluene	µg/kg	6.278	95UCL	4.8E+06	--	1E-06	--
24739 RAVENNA AVE	TPH as Diesel	mg/kg	7682	95UCL	1.3E+03	--	6E+00	--
24739 RAVENNA AVE	TPH as Gasoline	mg/kg	93.61	95UCL	7.6E+02	--	1E-01	--
24739 RAVENNA AVE	TPH as Motor Oil	mg/kg	9981	95UCL	3.3E+03	--	3E+00	--
24739 RAVENNA AVE	Xylenes, Total	µg/kg	117.7	95UCL	5.6E+05	--	2E-04	--
24740 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.016	Max	4.0E+03	1.6E+01	4E-06	1E-09
24740 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.0304	95UCL	2.3E+02	--	1E-04	--
24740 MARBELLA AVE	Benzene	µg/kg	0.269	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24740 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.3	Max	1.2E+03	3.5E+01	3E-04	9E-09
24740 MARBELLA AVE	Bromomethane	µg/kg	1.6	Max	8.8E+03	--	2E-04	--
24740 MARBELLA AVE	Chromium, Hexavalent	mg/kg	0.27	Max	2.3E+02	1.3E+00	1E-03	2E-07
24740 MARBELLA AVE	Ethylbenzene	µg/kg	0.18	Max	3.3E+06	4.8E+03	6E-08	4E-11
24740 MARBELLA AVE	Naphthalene	mg/kg	0.0224	95UCL	1.5E+02	4.0E+00	2E-04	6E-09
24740 MARBELLA AVE	Pyrene	mg/kg	0.167	95UCL	1.7E+03	--	1E-04	--
24740 MARBELLA AVE	Toluene	µg/kg	0.387	95UCL	4.8E+06	--	8E-08	--
24740 MARBELLA AVE	TPH as Diesel	mg/kg	850.9	95UCL	1.3E+03	--	7E-01	--
24740 MARBELLA AVE	TPH as Gasoline	mg/kg	0.114	95UCL	7.6E+02	--	2E-04	--
24740 MARBELLA AVE	TPH as Motor Oil	mg/kg	1718	95UCL	3.3E+03	--	5E-01	--
24740 MARBELLA AVE	Xylenes, Total	µg/kg	0.261	95UCL	5.6E+05	--	5E-07	--
24741 MARBELLA AVE	1-Methylnaphthalene	mg/kg	0.0072	Max	4.0E+03	1.6E+01	2E-06	5E-10
24741 MARBELLA AVE	2-Methylnaphthalene	mg/kg	0.018	Max	2.3E+02	--	8E-05	--
24741 MARBELLA AVE	Naphthalene	mg/kg	0.0066	Max	1.5E+02	4.0E+00	4E-05	2E-09
24741 MARBELLA AVE	Pyrene	mg/kg	0.027	Max	1.7E+03	--	2E-05	--
24741 MARBELLA AVE	Tetrachloroethene	µg/kg	0.45	Max	8.6E+04	5.5E+02	5E-06	8E-10
24741 MARBELLA AVE	Toluene	µg/kg	0.34	Max	4.8E+06	--	7E-08	--
24741 MARBELLA AVE	TPH as Diesel	mg/kg	250	Max	1.3E+03	--	2E-01	--
24741 MARBELLA AVE	TPH as Motor Oil	mg/kg	940	Max	3.3E+03	--	3E-01	--
24743 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.71	Max	8.3E+04	--	9E-06	--
24743 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	0.086	Max	8.5E+04	--	1E-06	--
24743 RAVENNA AVE	1-Methylnaphthalene	mg/kg	2.058	95UCL	4.0E+03	1.6E+01	5E-04	1E-07
24743 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.988	95UCL	2.3E+02	--	4E-03	--
24743 RAVENNA AVE	Benzene	µg/kg	0.474	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24743 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	6.9	Max	1.2E+03	3.5E+01	6E-03	2E-07

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24743 RAVENNA AVE	Bromomethane	µg/kg	1.2	Max	8.8E+03	--	1E-04	--
24743 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.589	95UCL	2.3E+02	1.3E+00	3E-03	5E-07
24743 RAVENNA AVE	Ethylbenzene	µg/kg	5.4	Max	3.3E+06	4.8E+03	2E-06	1E-09
24743 RAVENNA AVE	Naphthalene	mg/kg	0.232	95UCL	1.5E+02	4.0E+00	2E-03	6E-08
24743 RAVENNA AVE	Pyrene	mg/kg	0.574	95UCL	1.7E+03	--	3E-04	--
24743 RAVENNA AVE	Toluene	µg/kg	0.195	95UCL	4.8E+06	--	4E-08	--
24743 RAVENNA AVE	TPH as Diesel	mg/kg	2197	95UCL	1.3E+03	--	<b>2E+00</b>	--
24743 RAVENNA AVE	TPH as Gasoline	mg/kg	0.459	95UCL	7.6E+02	--	6E-04	--
24743 RAVENNA AVE	TPH as Motor Oil	mg/kg	6974	95UCL	3.3E+03	--	<b>2E+00</b>	--
24743 RAVENNA AVE	Xylenes, Total	µg/kg	0.59	Max	5.6E+05	--	1E-06	--
24744 MARBELLA AVE	1,2,4-Trimethylbenzene	µg/kg	0.14	Max	8.3E+04	--	2E-06	--
24744 MARBELLA AVE	1-Methylnaphthalene	mg/kg	2.22	95UCL	4.0E+03	1.6E+01	6E-04	1E-07
24744 MARBELLA AVE	2-Methylnaphthalene	mg/kg	1.813	95UCL	2.3E+02	--	8E-03	--
24744 MARBELLA AVE	Benzene	µg/kg	0.22	Max	6.7E+04	2.2E+02	3E-06	1E-09
24744 MARBELLA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.25	Max	1.2E+03	3.5E+01	2E-04	7E-09
24744 MARBELLA AVE	Bromomethane	µg/kg	2.5	Max	8.8E+03	--	3E-04	--
24744 MARBELLA AVE	Naphthalene	mg/kg	0.226	95UCL	1.5E+02	4.0E+00	2E-03	6E-08
24744 MARBELLA AVE	Pyrene	mg/kg	1.235	95UCL	1.7E+03	--	7E-04	--
24744 MARBELLA AVE	Tetrachloroethene	µg/kg	0.6	Max	8.6E+04	5.5E+02	7E-06	1E-09
24744 MARBELLA AVE	Toluene	µg/kg	0.15	Max	4.8E+06	--	3E-08	--
24744 MARBELLA AVE	TPH as Diesel	mg/kg	7978	95UCL	1.3E+03	--	<b>6E+00</b>	--
24744 MARBELLA AVE	TPH as Motor Oil	mg/kg	14483	95UCL	3.3E+03	--	<b>4E+00</b>	--
24748 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.59	Max	8.3E+04	--	7E-06	--
24748 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.3	Max	4.0E+03	1.6E+01	8E-05	2E-08
24748 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.186	95UCL	2.3E+02	--	8E-04	--
24748 RAVENNA AVE	Benzene	µg/kg	0.31	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
24748 RAVENNA AVE	Chromium, Hexavalent	mg/kg	0.34	Max	2.3E+02	1.3E+00	1E-03	3E-07
24748 RAVENNA AVE	Naphthalene	mg/kg	0.11	Max	1.5E+02	4.0E+00	7E-04	3E-08
24748 RAVENNA AVE	Pyrene	mg/kg	0.487	95UCL	1.7E+03	--	3E-04	--
24748 RAVENNA AVE	Toluene	µg/kg	0.273	95UCL	4.8E+06	--	6E-08	--
24748 RAVENNA AVE	TPH as Diesel	mg/kg	1969	95UCL	1.3E+03	--	<b>2E+00</b>	--
24748 RAVENNA AVE	TPH as Gasoline	mg/kg	0.0758	95UCL	7.6E+02	--	1E-04	--
24748 RAVENNA AVE	TPH as Motor Oil	mg/kg	2402	95UCL	3.3E+03	--	7E-01	--
24748 RAVENNA AVE	Xylenes, Total	µg/kg	0.34	Max	5.6E+05	--	6E-07	--
24749 RAVENNA AVE	1-Methylnaphthalene	mg/kg	9.8	Max	4.0E+03	1.6E+01	2E-03	6E-07
24749 RAVENNA AVE	2-Methylnaphthalene	mg/kg	2.788	95UCL	2.3E+02	--	1E-02	--
24749 RAVENNA AVE	Benzene	µg/kg	0.374	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24749 RAVENNA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1.5	Max	1.2E+03	3.5E+01	1E-03	4E-08
24749 RAVENNA AVE	Naphthalene	mg/kg	0.957	95UCL	1.5E+02	4.0E+00	6E-03	2E-07
24749 RAVENNA AVE	Pyrene	mg/kg	1.325	95UCL	1.7E+03	--	8E-04	--
24749 RAVENNA AVE	Toluene	µg/kg	0.577	95UCL	4.8E+06	--	1E-07	--
24749 RAVENNA AVE	TPH as Diesel	mg/kg	3249	95UCL	1.3E+03	--	<b>3E+00</b>	--
24749 RAVENNA AVE	TPH as Gasoline	mg/kg	1.805	95UCL	7.6E+02	--	2E-03	--
24749 RAVENNA AVE	TPH as Motor Oil	mg/kg	4723	95UCL	3.3E+03	--	1E+00	--
24752 RAVENNA AVE	1,2,4-Trimethylbenzene	µg/kg	0.288	95UCL	8.3E+04	--	4E-06	--
24752 RAVENNA AVE	1,3,5-Trimethylbenzene	µg/kg	0.083	Max	8.5E+04	--	1E-06	--
24752 RAVENNA AVE	1-Methylnaphthalene	mg/kg	0.011	Max	4.0E+03	1.6E+01	3E-06	7E-10
24752 RAVENNA AVE	2-Methylnaphthalene	mg/kg	0.0163	95UCL	2.3E+02	--	7E-05	--
24752 RAVENNA AVE	Benzene	µg/kg	0.421	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24752 RAVENNA AVE	Ethylbenzene	µg/kg	0.19	Max	3.3E+06	4.8E+03	6E-08	4E-11
24752 RAVENNA AVE	Naphthalene	mg/kg	0.00944	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
24752 RAVENNA AVE	Pyrene	mg/kg	0.09	95UCL	1.7E+03	--	5E-05	--
24752 RAVENNA AVE	Toluene	µg/kg	0.372	95UCL	4.8E+06	--	8E-08	--
24752 RAVENNA AVE	TPH as Diesel	mg/kg	711.2	95UCL	1.3E+03	--	6E-01	--
24752 RAVENNA AVE	TPH as Gasoline	mg/kg	0.19	Max	7.6E+02	--	3E-04	--
24752 RAVENNA AVE	TPH as Motor Oil	mg/kg	1724	95UCL	3.3E+03	--	5E-01	--
24752 RAVENNA AVE	Xylenes, Total	µg/kg	0.304	95UCL	5.6E+05	--	6E-07	--
24802 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.279	95UCL	8.3E+04	--	3E-06	--
24802 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.14	Max	8.5E+04	--	2E-06	--
24802 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.98	Max	4.0E+03	1.6E+01	2E-04	6E-08
24802 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.14	95UCL	2.3E+02	--	6E-04	--
24802 PANAMA AVE	Benzene	µg/kg	0.269	95UCL	6.7E+04	2.2E+02	4E-06	1E-09

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24802 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.23	Max	2.3E+02	1.3E+00	1E-03	2E-07
24802 PANAMA AVE	Ethylbenzene	µg/kg	0.19	Max	3.3E+06	4.8E+03	6E-08	4E-11
24802 PANAMA AVE	Naphthalene	mg/kg	0.00919	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
24802 PANAMA AVE	Pyrene	mg/kg	0.348	95UCL	1.7E+03	--	2E-04	--
24802 PANAMA AVE	Toluene	µg/kg	0.236	95UCL	4.8E+06	--	5E-08	--
24802 PANAMA AVE	TPH as Diesel	mg/kg	1179	95UCL	1.3E+03	--	9E-01	--
24802 PANAMA AVE	TPH as Gasoline	mg/kg	70.28	95UCL	7.6E+02	--	9E-02	--
24802 PANAMA AVE	TPH as Motor Oil	mg/kg	2516	95UCL	3.3E+03	--	8E-01	--
24802 PANAMA AVE	Trichloroethene	µg/kg	0.36	Max	5.8E+03	1.2E+03	6E-05	3E-10
24802 PANAMA AVE	Xylenes, Total	µg/kg	0.77	Max	5.6E+05	--	1E-06	--
24803 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.53	Max	8.3E+04	--	6E-06	--
24803 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.092	Max	4.0E+03	1.6E+01	2E-05	6E-09
24803 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0681	95UCL	2.3E+02	--	3E-04	--
24803 NEPTUNE AVE	Benzene	µg/kg	0.294	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24803 NEPTUNE AVE	Naphthalene	mg/kg	0.005	Max	1.5E+02	4.0E+00	3E-05	1E-09
24803 NEPTUNE AVE	Pyrene	mg/kg	0.194	95UCL	1.7E+03	--	1E-04	--
24803 NEPTUNE AVE	Toluene	µg/kg	0.383	95UCL	4.8E+06	--	8E-08	--
24803 NEPTUNE AVE	TPH as Diesel	mg/kg	2349	95UCL	1.3E+03	--	2E+00	--
24803 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.22	Max	7.6E+02	--	3E-04	--
24803 NEPTUNE AVE	TPH as Motor Oil	mg/kg	5305	95UCL	3.3E+03	--	2E+00	--
24803 NEPTUNE AVE	Xylenes, Total	µg/kg	0.58	Max	5.6E+05	--	1E-06	--
24803 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.38	Max	8.3E+04	--	5E-06	--
24803 PANAMA AVE	1-Methylnaphthalene	mg/kg	5.683	95UCL	4.0E+03	1.6E+01	1E-03	4E-07
24803 PANAMA AVE	2-Methylnaphthalene	mg/kg	10	95UCL	2.3E+02	--	4E-02	--
24803 PANAMA AVE	Benzene	µg/kg	0.725	95UCL	6.7E+04	2.2E+02	1E-05	3E-09
24803 PANAMA AVE	Ethylbenzene	µg/kg	0.22	Max	3.3E+06	4.8E+03	7E-08	5E-11
24803 PANAMA AVE	Naphthalene	mg/kg	2.672	95UCL	1.5E+02	4.0E+00	2E-02	7E-07
24803 PANAMA AVE	Pyrene	mg/kg	0.882	95UCL	1.7E+03	--	5E-04	--
24803 PANAMA AVE	Toluene	µg/kg	0.284	95UCL	4.8E+06	--	6E-08	--
24803 PANAMA AVE	TPH as Diesel	mg/kg	2136	95UCL	1.3E+03	--	2E+00	--
24803 PANAMA AVE	TPH as Gasoline	mg/kg	0.1	Max	7.6E+02	--	1E-04	--
24803 PANAMA AVE	TPH as Motor Oil	mg/kg	3550	95UCL	3.3E+03	--	1E+00	--
24803 PANAMA AVE	Xylenes, Total	µg/kg	0.93	Max	5.6E+05	--	2E-06	--
24809 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.25	Max	8.3E+04	--	3E-06	--
24809 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.07	Max	4.0E+03	1.6E+01	2E-05	5E-09
24809 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0282	95UCL	2.3E+02	--	1E-04	--
24809 NEPTUNE AVE	Benzene	µg/kg	0.131	95UCL	6.7E+04	2.2E+02	2E-06	6E-10
24809 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	2.183	95UCL	1.2E+03	3.5E+01	2E-03	6E-08
24809 NEPTUNE AVE	Ethylbenzene	µg/kg	0.14	Max	3.3E+06	4.8E+03	4E-08	3E-11
24809 NEPTUNE AVE	Naphthalene	mg/kg	0.0157	95UCL	1.5E+02	4.0E+00	1E-04	4E-09
24809 NEPTUNE AVE	Pyrene	mg/kg	0.467	95UCL	1.7E+03	--	3E-04	--
24809 NEPTUNE AVE	Toluene	µg/kg	0.42	Max	4.8E+06	--	9E-08	--
24809 NEPTUNE AVE	TPH as Diesel	mg/kg	1252	95UCL	1.3E+03	--	1E+00	--
24809 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.189	95UCL	7.6E+02	--	3E-04	--
24809 NEPTUNE AVE	TPH as Motor Oil	mg/kg	3173	95UCL	3.3E+03	--	1E+00	--
24809 NEPTUNE AVE	Xylenes, Total	µg/kg	0.21	Max	5.6E+05	--	4E-07	--
24809 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	620	Max	8.3E+04	--	8E-03	--
24809 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	29	Max	8.5E+04	--	3E-04	--
24809 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.101	95UCL	4.0E+03	1.6E+01	3E-05	7E-09
24809 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.141	95UCL	2.3E+02	--	6E-04	--
24809 PANAMA AVE	Benzene	µg/kg	0.143	95UCL	6.7E+04	2.2E+02	2E-06	7E-10
24809 PANAMA AVE	Bromomethane	µg/kg	610	Max	8.8E+03	--	7E-02	--
24809 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.17	95UCL	2.3E+02	1.3E+00	7E-04	1E-07
24809 PANAMA AVE	Ethylbenzene	µg/kg	390	Max	3.3E+06	4.8E+03	1E-04	8E-08
24809 PANAMA AVE	Naphthalene	mg/kg	0.223	95UCL	1.5E+02	4.0E+00	2E-03	6E-08
24809 PANAMA AVE	Pyrene	mg/kg	0.562	95UCL	1.7E+03	--	3E-04	--
24809 PANAMA AVE	Toluene	µg/kg	26	Max	4.8E+06	--	5E-06	--
24809 PANAMA AVE	TPH as Diesel	mg/kg	997.2	95UCL	1.3E+03	--	8E-01	--
24809 PANAMA AVE	TPH as Gasoline	mg/kg	350	Max	7.6E+02	--	5E-01	--
24809 PANAMA AVE	TPH as Motor Oil	mg/kg	2514	95UCL	3.3E+03	--	8E-01	--
24809 PANAMA AVE	Xylenes, Total	µg/kg	110	Max	5.6E+05	--	2E-04	--
24812 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.25	Max	8.3E+04	--	3E-06	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24812 PANAMA AVE	1,4-Dichlorobenzene	µg/kg	0.17	Max	3.6E+06	2.8E+03	5E-08	6E-11
24812 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0229	95UCL	4.0E+03	1.6E+01	6E-06	2E-09
24812 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.104	95UCL	2.3E+02	--	5E-04	--
24812 PANAMA AVE	Benzene	µg/kg	0.184	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24812 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.25	Max	2.3E+02	1.3E+00	1E-03	2E-07
24812 PANAMA AVE	Naphthalene	mg/kg	0.0446	95UCL	1.5E+02	4.0E+00	3E-04	1E-08
24812 PANAMA AVE	Pyrene	mg/kg	0.226	95UCL	1.7E+03	--	1E-04	--
24812 PANAMA AVE	Toluene	µg/kg	0.23	Max	4.8E+06	--	5E-08	--
24812 PANAMA AVE	TPH as Diesel	mg/kg	1028	95UCL	1.3E+03	--	8E-01	--
24812 PANAMA AVE	TPH as Motor Oil	mg/kg	2513	95UCL	3.3E+03	--	8E-01	--
24812 PANAMA AVE	Xylenes, Total	µg/kg	0.18	Max	5.6E+05	--	3E-07	--
24813 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.45	Max	8.3E+04	--	5E-06	--
24813 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0083	Max	4.0E+03	1.6E+01	2E-06	5E-10
24813 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.048	Max	2.3E+02	--	2E-04	--
24813 PANAMA AVE	Benzene	µg/kg	2.1	Max	6.7E+04	2.2E+02	3E-05	1E-08
24813 PANAMA AVE	Cobalt	mg/kg	11.3	Max	2.3E+01	3.1E+04	5E-01	4E-10
24813 PANAMA AVE	Ethylbenzene	µg/kg	0.37	Max	3.3E+06	4.8E+03	1E-07	8E-11
24813 PANAMA AVE	Naphthalene	mg/kg	0.022	Max	1.5E+02	4.0E+00	2E-04	6E-09
24813 PANAMA AVE	Pyrene	mg/kg	0.41	Max	1.7E+03	--	2E-04	--
24813 PANAMA AVE	Toluene	µg/kg	1.5	Max	4.8E+06	--	3E-07	--
24813 PANAMA AVE	TPH as Diesel	mg/kg	630	Max	1.3E+03	--	5E-01	--
24813 PANAMA AVE	TPH as Gasoline	mg/kg	0.054	Max	7.6E+02	--	7E-05	--
24813 PANAMA AVE	TPH as Motor Oil	mg/kg	1800	Max	3.3E+03	--	6E-01	--
24813 PANAMA AVE	Xylenes, Total	µg/kg	0.45	Max	5.6E+05	--	8E-07	--
24815 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.392	95UCL	4.0E+03	1.6E+01	1E-04	3E-08
24815 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0211	95UCL	2.3E+02	--	9E-05	--
24815 NEPTUNE AVE	Benzene	µg/kg	0.299	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
24815 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.55	Max	1.2E+03	3.5E+01	5E-04	2E-08
24815 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.3	Max	2.3E+02	1.3E+00	1E-03	2E-07
24815 NEPTUNE AVE	Naphthalene	mg/kg	0.012	95UCL	1.5E+02	4.0E+00	8E-05	3E-09
24815 NEPTUNE AVE	Pyrene	mg/kg	0.835	95UCL	1.7E+03	--	5E-04	--
24815 NEPTUNE AVE	Toluene	µg/kg	0.818	95UCL	4.8E+06	--	2E-07	--
24815 NEPTUNE AVE	TPH as Diesel	mg/kg	264.7	95UCL	1.3E+03	--	2E-01	--
24815 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.27	95UCL	7.6E+02	--	4E-04	--
24815 NEPTUNE AVE	TPH as Motor Oil	mg/kg	1078	95UCL	3.3E+03	--	3E-01	--
24815 NEPTUNE AVE	Xylenes, Total	µg/kg	0.38	Max	5.6E+05	--	7E-07	--
24818 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.14	Max	8.3E+04	--	2E-06	--
24818 PANAMA AVE	1-Methylnaphthalene	mg/kg	1.055	95UCL	4.0E+03	1.6E+01	3E-04	7E-08
24818 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.752	95UCL	2.3E+02	--	3E-03	--
24818 PANAMA AVE	Benzene	µg/kg	0.562	95UCL	6.7E+04	2.2E+02	8E-06	3E-09
24818 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.391	95UCL	2.3E+02	1.3E+00	2E-03	3E-07
24818 PANAMA AVE	Naphthalene	mg/kg	0.011	95UCL	1.5E+02	4.0E+00	7E-05	3E-09
24818 PANAMA AVE	Pyrene	mg/kg	2.263	95UCL	1.7E+03	--	1E-03	--
24818 PANAMA AVE	Toluene	µg/kg	0.327	95UCL	4.8E+06	--	7E-08	--
24818 PANAMA AVE	TPH as Diesel	mg/kg	7693	95UCL	1.3E+03	--	6E+00	--
24818 PANAMA AVE	TPH as Gasoline	mg/kg	0.155	95UCL	7.6E+02	--	2E-04	--
24818 PANAMA AVE	TPH as Motor Oil	mg/kg	10551	95UCL	3.3E+03	--	3E+00	--
24818 PANAMA AVE	Xylenes, Total	µg/kg	0.214	95UCL	5.6E+05	--	4E-07	--
24819 PANAMA AVE	1,2,3-Trichloropropane	µg/kg	1.3	Max	2.4E+03	2.1E+01	6E-04	6E-08
24819 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	3.3	Max	8.3E+04	--	4E-05	--
24819 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.44	Max	8.5E+04	--	5E-06	--
24819 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0103	95UCL	4.0E+03	1.6E+01	3E-06	7E-10
24819 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0375	95UCL	2.3E+02	--	2E-04	--
24819 PANAMA AVE	Benzene	µg/kg	0.467	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24819 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	1.9	Max	1.2E+03	3.5E+01	2E-03	6E-08
24819 PANAMA AVE	Bromomethane	µg/kg	2.2	Max	8.8E+03	--	3E-04	--
24819 PANAMA AVE	Ethylbenzene	µg/kg	0.79	Max	3.3E+06	4.8E+03	2E-07	2E-10
24819 PANAMA AVE	Naphthalene	mg/kg	0.0179	95UCL	1.5E+02	4.0E+00	1E-04	5E-09
24819 PANAMA AVE	Pyrene	mg/kg	0.125	95UCL	1.7E+03	--	7E-05	--
24819 PANAMA AVE	Toluene	µg/kg	0.603	95UCL	4.8E+06	--	1E-07	--
24819 PANAMA AVE	TPH as Diesel	mg/kg	485.8	95UCL	1.3E+03	--	4E-01	--
24819 PANAMA AVE	TPH as Gasoline	mg/kg	0.16	95UCL	7.6E+02	--	2E-04	--

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24819 PANAMA AVE	TPH as Motor Oil	mg/kg	1123	95UCL	3.3E+03	--	3E-01	--
24819 PANAMA AVE	Xylenes, Total	µg/kg	0.821	95UCL	5.6E+05	--	2E-06	--
24822 PANAMA AVE	1,2,3-Trichloropropane	µg/kg	1.1	Max	2.4E+03	2.1E+01	5E-04	5E-08
24822 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.528	95UCL	8.3E+04	--	6E-06	--
24822 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.84	Max	8.5E+04	--	1E-05	--
24822 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0263	95UCL	4.0E+03	1.6E+01	7E-06	2E-09
24822 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0941	95UCL	2.3E+02	--	4E-04	--
24822 PANAMA AVE	Benzene	µg/kg	0.385	95UCL	6.7E+04	2.2E+02	6E-06	2E-09
24822 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.63	Max	1.2E+03	3.5E+01	5E-04	2E-08
24822 PANAMA AVE	Bromomethane	µg/kg	1.8	Max	8.8E+03	--	2E-04	--
24822 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.265	95UCL	2.3E+02	1.3E+00	1E-03	2E-07
24822 PANAMA AVE	Ethylbenzene	µg/kg	0.46	Max	3.3E+06	4.8E+03	1E-07	1E-10
24822 PANAMA AVE	Naphthalene	mg/kg	0.013	95UCL	1.5E+02	4.0E+00	9E-05	3E-09
24822 PANAMA AVE	Pyrene	mg/kg	0.418	95UCL	1.7E+03	--	2E-04	--
24822 PANAMA AVE	Toluene	µg/kg	0.347	95UCL	4.8E+06	--	7E-08	--
24822 PANAMA AVE	TPH as Diesel	mg/kg	877.2	95UCL	1.3E+03	--	7E-01	--
24822 PANAMA AVE	TPH as Gasoline	mg/kg	0.33	Max	7.6E+02	--	4E-04	--
24822 PANAMA AVE	TPH as Motor Oil	mg/kg	2809	95UCL	3.3E+03	--	9E-01	--
24822 PANAMA AVE	Xylenes, Total	µg/kg	0.354	95UCL	5.6E+05	--	6E-07	--
24823 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	92.19	95UCL	8.3E+04	--	1E-03	--
24823 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	1.2	Max	8.5E+04	--	1E-05	--
24823 PANAMA AVE	1-Methylnaphthalene	mg/kg	1.726	95UCL	4.0E+03	1.6E+01	4E-04	1E-07
24823 PANAMA AVE	2-Methylnaphthalene	mg/kg	1.398	95UCL	2.3E+02	--	6E-03	--
24823 PANAMA AVE	Benzene	µg/kg	0.179	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24823 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.45	Max	1.2E+03	3.5E+01	4E-04	1E-08
24823 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.16	Max	2.3E+02	1.3E+00	7E-04	1E-07
24823 PANAMA AVE	Ethylbenzene	µg/kg	16	Max	3.3E+06	4.8E+03	5E-06	3E-09
24823 PANAMA AVE	Naphthalene	mg/kg	0.656	95UCL	1.5E+02	4.0E+00	4E-03	2E-07
24823 PANAMA AVE	Pyrene	mg/kg	0.253	95UCL	1.7E+03	--	2E-04	--
24823 PANAMA AVE	Toluene	µg/kg	0.258	95UCL	4.8E+06	--	5E-08	--
24823 PANAMA AVE	TPH as Diesel	mg/kg	1548	95UCL	1.3E+03	--	1E+00	--
24823 PANAMA AVE	TPH as Gasoline	mg/kg	134.9	95UCL	7.6E+02	--	2E-01	--
24823 PANAMA AVE	TPH as Motor Oil	mg/kg	2514	95UCL	3.3E+03	--	8E-01	--
24823 PANAMA AVE	Xylenes, Total	µg/kg	2.7	Max	5.6E+05	--	5E-06	--
24825 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.47	Max	8.3E+04	--	6E-06	--
24825 NEPTUNE AVE	1,4-Dichlorobenzene	µg/kg	0.24	Max	3.6E+06	2.8E+03	7E-08	9E-11
24825 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00569	95UCL	4.0E+03	1.6E+01	1E-06	4E-10
24825 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0184	95UCL	2.3E+02	--	8E-05	--
24825 NEPTUNE AVE	Benzene	µg/kg	0.18	95UCL	6.7E+04	2.2E+02	3E-06	8E-10
24825 NEPTUNE AVE	Bromomethane	µg/kg	1.5	Max	8.8E+03	--	2E-04	--
24825 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.283	95UCL	2.3E+02	1.3E+00	1E-03	2E-07
24825 NEPTUNE AVE	Naphthalene	mg/kg	0.0111	95UCL	1.5E+02	4.0E+00	7E-05	3E-09
24825 NEPTUNE AVE	Pyrene	mg/kg	0.056	95UCL	1.7E+03	--	3E-05	--
24825 NEPTUNE AVE	Tetrachloroethene	µg/kg	0.28	Max	8.6E+04	5.5E+02	3E-06	5E-10
24825 NEPTUNE AVE	Toluene	µg/kg	1.991	95UCL	4.8E+06	--	4E-07	--
24825 NEPTUNE AVE	TPH as Diesel	mg/kg	229.9	95UCL	1.3E+03	--	2E-01	--
24825 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.179	95UCL	7.6E+02	--	2E-04	--
24825 NEPTUNE AVE	TPH as Motor Oil	mg/kg	670	95UCL	3.3E+03	--	2E-01	--
24825 NEPTUNE AVE	Xylenes, Total	µg/kg	0.29	Max	5.6E+05	--	5E-07	--
24828 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.62	Max	8.3E+04	--	8E-06	--
24828 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.11	Max	4.0E+03	1.6E+01	3E-05	7E-09
24828 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0236	95UCL	2.3E+02	--	1E-04	--
24828 PANAMA AVE	Benzene	µg/kg	0.205	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
24828 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.12	Max	1.2E+03	3.5E+01	1E-04	4E-09
24828 PANAMA AVE	Bromodichloromethane	µg/kg	0.37	Max	4.3E+05	4.9E+02	9E-07	8E-10
24828 PANAMA AVE	Naphthalene	mg/kg	0.00971	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
24828 PANAMA AVE	Pyrene	mg/kg	2.906	95UCL	1.7E+03	--	2E-03	--
24828 PANAMA AVE	TPH as Diesel	mg/kg	3983	95UCL	1.3E+03	--	3E+00	--
24828 PANAMA AVE	TPH as Gasoline	mg/kg	0.53	Max	7.6E+02	--	7E-04	--
24828 PANAMA AVE	TPH as Motor Oil	mg/kg	11431	95UCL	3.3E+03	--	4E+00	--
24829 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.304	95UCL	8.3E+04	--	4E-06	--
24829 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0281	95UCL	4.0E+03	1.6E+01	7E-06	2E-09

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$ 2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24829 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0789	95UCL	2.3E+02	--	3E-04	--
24829 PANAMA AVE	Benzene	µg/kg	0.231	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24829 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	3.1	Max	1.2E+03	3.5E+01	3E-03	9E-08
24829 PANAMA AVE	Bromomethane	µg/kg	2.1	Max	8.8E+03	--	2E-04	--
24829 PANAMA AVE	Naphthalene	mg/kg	0.0321	95UCL	1.5E+02	4.0E+00	2E-04	8E-09
24829 PANAMA AVE	Pyrene	mg/kg	0.575	95UCL	1.7E+03	--	3E-04	--
24829 PANAMA AVE	Toluene	µg/kg	0.265	95UCL	4.8E+06	--	6E-08	--
24829 PANAMA AVE	TPH as Diesel	mg/kg	806.7	95UCL	1.3E+03	--	6E-01	--
24829 PANAMA AVE	TPH as Gasoline	mg/kg	86	Max	7.6E+02	--	1E-01	--
24829 PANAMA AVE	TPH as Motor Oil	mg/kg	1331	95UCL	3.3E+03	--	4E-01	--
24829 PANAMA AVE	Xylenes, Total	µg/kg	0.54	Max	5.6E+05	--	1E-06	--
24832 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.658	95UCL	8.3E+04	--	8E-06	--
24832 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.43	Max	8.5E+04	--	5E-06	--
24832 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0252	95UCL	4.0E+03	1.6E+01	6E-06	2E-09
24832 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.0902	95UCL	2.3E+02	--	4E-04	--
24832 PANAMA AVE	Benzene	µg/kg	0.228	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
24832 PANAMA AVE	Bromomethane	µg/kg	2.1	Max	8.8E+03	--	2E-04	--
24832 PANAMA AVE	Ethylbenzene	µg/kg	0.44	Max	3.3E+06	4.8E+03	1E-07	9E-11
24832 PANAMA AVE	Naphthalene	mg/kg	0.0432	95UCL	1.5E+02	4.0E+00	3E-04	1E-08
24832 PANAMA AVE	Pyrene	mg/kg	0.384	95UCL	1.7E+03	--	2E-04	--
24832 PANAMA AVE	Toluene	µg/kg	0.239	95UCL	4.8E+06	--	5E-08	--
24832 PANAMA AVE	TPH as Diesel	mg/kg	441.9	95UCL	1.3E+03	--	3E-01	--
24832 PANAMA AVE	TPH as Gasoline	mg/kg	0.11	95UCL	7.6E+02	--	1E-04	--
24832 PANAMA AVE	TPH as Motor Oil	mg/kg	925.8	95UCL	3.3E+03	--	3E-01	--
24832 PANAMA AVE	Vinyl Chloride	µg/kg	0.338	95UCL	7.4E+04	3.2E+01	5E-06	1E-08
24832 PANAMA AVE	Xylenes, Total	µg/kg	0.832	95UCL	5.6E+05	--	2E-06	--
24833 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.439	95UCL	8.3E+04	--	5E-06	--
24833 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.0089	Max	4.0E+03	1.6E+01	2E-06	6E-10
24833 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.00895	95UCL	2.3E+02	--	4E-05	--
24833 PANAMA AVE	Benzene	µg/kg	0.657	95UCL	6.7E+04	2.2E+02	1E-05	3E-09
24833 PANAMA AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.24	Max	1.2E+03	3.5E+01	2E-04	7E-09
24833 PANAMA AVE	Bromomethane	µg/kg	2	Max	8.8E+03	--	2E-04	--
24833 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.24	Max	2.3E+02	1.3E+00	1E-03	2E-07
24833 PANAMA AVE	Ethylbenzene	µg/kg	0.44	Max	3.3E+06	4.8E+03	1E-07	9E-11
24833 PANAMA AVE	Naphthalene	mg/kg	0.00317	95UCL	1.5E+02	4.0E+00	2E-05	8E-10
24833 PANAMA AVE	Pyrene	mg/kg	0.219	95UCL	1.7E+03	--	1E-04	--
24833 PANAMA AVE	Toluene	µg/kg	0.653	95UCL	4.8E+06	--	1E-07	--
24833 PANAMA AVE	TPH as Diesel	mg/kg	584.9	95UCL	1.3E+03	--	5E-01	--
24833 PANAMA AVE	TPH as Gasoline	mg/kg	0.0744	95UCL	7.6E+02	--	1E-04	--
24833 PANAMA AVE	TPH as Motor Oil	mg/kg	1418	95UCL	3.3E+03	--	4E-01	--
24833 PANAMA AVE	Xylenes, Total	µg/kg	1.2	Max	5.6E+05	--	2E-06	--
24838 PANAMA AVE	1,2,4-Trimethylbenzene	µg/kg	0.56	Max	8.3E+04	--	7E-06	--
24838 PANAMA AVE	1,3,5-Trimethylbenzene	µg/kg	0.15	Max	8.5E+04	--	2E-06	--
24838 PANAMA AVE	1-Methylnaphthalene	mg/kg	0.015	Max	4.0E+03	1.6E+01	4E-06	1E-09
24838 PANAMA AVE	2-Methylnaphthalene	mg/kg	0.117	95UCL	2.3E+02	--	5E-04	--
24838 PANAMA AVE	Benzene	µg/kg	0.49	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24838 PANAMA AVE	Chromium, Hexavalent	mg/kg	0.36	Max	2.3E+02	1.3E+00	2E-03	3E-07
24838 PANAMA AVE	Ethylbenzene	µg/kg	0.2	Max	3.3E+06	4.8E+03	6E-08	4E-11
24838 PANAMA AVE	Methylene Chloride	µg/kg	29	Max	3.6E+05	5.3E+03	8E-05	6E-09
24838 PANAMA AVE	Naphthalene	mg/kg	0.00895	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
24838 PANAMA AVE	Pyrene	mg/kg	0.435	95UCL	1.7E+03	--	3E-04	--
24838 PANAMA AVE	Toluene	µg/kg	0.373	95UCL	4.8E+06	--	8E-08	--
24838 PANAMA AVE	TPH as Diesel	mg/kg	6718	95UCL	1.3E+03	--	5E+00	--
24838 PANAMA AVE	TPH as Gasoline	mg/kg	0.109	95UCL	7.6E+02	--	1E-04	--
24838 PANAMA AVE	TPH as Motor Oil	mg/kg	15987	95UCL	3.3E+03	--	5E+00	--
24838 PANAMA AVE	Xylenes, Total	µg/kg	0.31	95UCL	5.6E+05	--	6E-07	--
24904 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.37	Max	8.3E+04	--	5E-06	--
24904 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.04	Max	4.0E+03	1.6E+01	1E-05	3E-09
24904 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0539	95UCL	2.3E+02	--	2E-04	--
24904 NEPTUNE AVE	Benzene	µg/kg	0.285	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
24904 NEPTUNE AVE	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.19	Max	1.2E+03	3.5E+01	2E-04	6E-09
24904 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.29	Max	2.3E+02	1.3E+00	1E-03	2E-07

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
24904 NEPTUNE AVE	Naphthalene	mg/kg	0.0181	95UCL	1.5E+02	4.0E+00	1E-04	5E-09
24904 NEPTUNE AVE	Pyrene	mg/kg	0.469	95UCL	1.7E+03	--	3E-04	--
24904 NEPTUNE AVE	Toluene	µg/kg	0.197	95UCL	4.8E+06	--	4E-08	--
24904 NEPTUNE AVE	TPH as Diesel	mg/kg	405.3	95UCL	1.3E+03	--	3E-01	--
24904 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.0801	95UCL	7.6E+02	--	1E-04	--
24904 NEPTUNE AVE	TPH as Motor Oil	mg/kg	1068	95UCL	3.3E+03	--	3E-01	--
24904 NEPTUNE AVE	Xylenes, Total	µg/kg	0.72	Max	5.6E+05	--	1E-06	--
24912 NEPTUNE AVE	1,2,4-Trimethylbenzene	µg/kg	0.18	Max	8.3E+04	--	2E-06	--
24912 NEPTUNE AVE	1,4-Dichlorobenzene	µg/kg	0.2	Max	3.6E+06	2.8E+03	6E-08	7E-11
24912 NEPTUNE AVE	1-Methylnaphthalene	mg/kg	0.00349	95UCL	4.0E+03	1.6E+01	9E-07	2E-10
24912 NEPTUNE AVE	2-Methylnaphthalene	mg/kg	0.0207	95UCL	2.3E+02	--	9E-05	--
24912 NEPTUNE AVE	Benzene	µg/kg	0.464	95UCL	6.7E+04	2.2E+02	7E-06	2E-09
24912 NEPTUNE AVE	Bromomethane	µg/kg	3.3	Max	8.8E+03	--	4E-04	--
24912 NEPTUNE AVE	Chromium, Hexavalent	mg/kg	0.333	95UCL	2.3E+02	1.3E+00	1E-03	3E-07
24912 NEPTUNE AVE	Ethylbenzene	µg/kg	0.16	Max	3.3E+06	4.8E+03	5E-08	3E-11
24912 NEPTUNE AVE	Naphthalene	mg/kg	0.00753	95UCL	1.5E+02	4.0E+00	5E-05	2E-09
24912 NEPTUNE AVE	Pyrene	mg/kg	0.198	95UCL	1.7E+03	--	1E-04	--
24912 NEPTUNE AVE	Toluene	µg/kg	0.298	95UCL	4.8E+06	--	6E-08	--
24912 NEPTUNE AVE	TPH as Diesel	mg/kg	60.44	95UCL	1.3E+03	--	5E-02	--
24912 NEPTUNE AVE	TPH as Gasoline	mg/kg	0.059	Max	7.6E+02	--	8E-05	--
24912 NEPTUNE AVE	TPH as Motor Oil	mg/kg	180.3	95UCL	3.3E+03	--	6E-02	--
24912 NEPTUNE AVE	Xylenes, Total	µg/kg	0.49	Max	5.6E+05	--	9E-07	--
301 244TH ST	1,2,4-Trimethylbenzene	µg/kg	1.5	Max	8.3E+04	--	2E-05	--
301 244TH ST	1-Methylnaphthalene	mg/kg	0.01	Max	4.0E+03	1.6E+01	3E-06	6E-10
301 244TH ST	2-Methylnaphthalene	mg/kg	0.0331	95UCL	2.3E+02	--	1E-04	--
301 244TH ST	Benzene	µg/kg	0.311	95UCL	6.7E+04	2.2E+02	5E-06	1E-09
301 244TH ST	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.541	95UCL	1.2E+03	3.5E+01	4E-04	2E-08
301 244TH ST	Cobalt	mg/kg	9.631	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
301 244TH ST	Naphthalene	mg/kg	0.00537	95UCL	1.5E+02	4.0E+00	4E-05	1E-09
301 244TH ST	Pyrene	mg/kg	0.282	95UCL	1.7E+03	--	2E-04	--
301 244TH ST	Toluene	µg/kg	0.469	95UCL	4.8E+06	--	1E-07	--
301 244TH ST	TPH as Diesel	mg/kg	442.3	95UCL	1.3E+03	--	3E-01	--
301 244TH ST	TPH as Gasoline	mg/kg	0.126	95UCL	7.6E+02	--	2E-04	--
301 244TH ST	TPH as Motor Oil	mg/kg	1080	95UCL	3.3E+03	--	3E-01	--
301 244TH ST	Xylenes, Total	µg/kg	0.37	Max	5.6E+05	--	7E-07	--
305 244TH ST	1,2,3-Trichloropropane	µg/kg	0.59	Max	2.4E+03	2.1E+01	3E-04	3E-08
305 244TH ST	1,2,4-Trimethylbenzene	µg/kg	400	Max	8.3E+04	--	5E-03	--
305 244TH ST	1,3,5-Trimethylbenzene	µg/kg	110	Max	8.5E+04	--	1E-03	--
305 244TH ST	1-Methylnaphthalene	mg/kg	4.2	95UCL	4.0E+03	1.6E+01	1E-03	3E-07
305 244TH ST	2-Methylnaphthalene	mg/kg	2.09	95UCL	2.3E+02	--	9E-03	--
305 244TH ST	Benzene	µg/kg	0.19	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
305 244TH ST	Bis(2-Ethylhexyl) Phthalate	mg/kg	2.4	Max	1.2E+03	3.5E+01	2E-03	7E-08
305 244TH ST	Chromium, Hexavalent	mg/kg	0.48	Max	2.3E+02	1.3E+00	2E-03	4E-07
305 244TH ST	Cobalt	mg/kg	10.24	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
305 244TH ST	Ethylbenzene	µg/kg	35	Max	3.3E+06	4.8E+03	1E-05	7E-09
305 244TH ST	Naphthalene	mg/kg	0.331	95UCL	1.5E+02	4.0E+00	2E-03	8E-08
305 244TH ST	Pyrene	mg/kg	13.14	95UCL	1.7E+03	--	8E-03	--
305 244TH ST	Toluene	µg/kg	0.251	95UCL	4.8E+06	--	5E-08	--
305 244TH ST	TPH as Diesel	mg/kg	10746	95UCL	1.3E+03	--	8E+00	--
305 244TH ST	TPH as Gasoline	mg/kg	12.73	95UCL	7.6E+02	--	2E-02	--
305 244TH ST	TPH as Motor Oil	mg/kg	20137	95UCL	3.3E+03	--	6E+00	--
305 244TH ST	Xylenes, Total	µg/kg	190	Max	5.6E+05	--	3E-04	--
311 244TH ST	1,2,4-Trimethylbenzene	µg/kg	0.19	Max	8.3E+04	--	2E-06	--
311 244TH ST	1-Methylnaphthalene	mg/kg	2.2	Max	4.0E+03	1.6E+01	6E-04	1E-07
311 244TH ST	2-Methylnaphthalene	mg/kg	0.411	95UCL	2.3E+02	--	2E-03	--
311 244TH ST	Benzene	µg/kg	0.673	95UCL	6.7E+04	2.2E+02	1E-05	3E-09
311 244TH ST	Benzo (a) Anthracene	mg/kg	2.093	95UCL	--	1.6E+00	--	1E-06
311 244TH ST	Benzo (a) Pyrene	mg/kg	1.222	95UCL	--	1.6E-01	--	8E-06
311 244TH ST	Benzo (b) Fluoranthene	mg/kg	0.834	95UCL	--	1.6E+00	--	5E-07
311 244TH ST	Benzo (k) Fluoranthene	mg/kg	0.00398	95UCL	--	1.6E+00	--	3E-09
311 244TH ST	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.6	Max	1.2E+03	3.5E+01	5E-04	2E-08
311 244TH ST	Chromium, Hexavalent	mg/kg	0.22	Max	2.3E+02	1.3E+00	9E-04	2E-07

Appendix E  
Detailed Risk Calculations

Table E-1  
COC-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil  $\leq$  2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
311 244TH ST	Chrysene	mg/kg	5.92	95UCL	--	1.6E+01	--	4E-07
311 244TH ST	Cobalt	mg/kg	9.87	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
311 244TH ST	Dibenz (a,h) Anthracene	mg/kg	0.081	Max	--	1.1E-01	--	7E-07
311 244TH ST	Indeno (1,2,3-c,d) Pyrene	mg/kg	0.222	95UCL	--	1.6E+00	--	1E-07
311 244TH ST	Naphthalene	mg/kg	0.01	95UCL	1.5E+02	4.0E+00	7E-05	3E-09
311 244TH ST	Pyrene	mg/kg	13.48	95UCL	1.7E+03	--	8E-03	--
311 244TH ST	Toluene	µg/kg	0.533	95UCL	4.8E+06	--	1E-07	--
311 244TH ST	TPH as Diesel	mg/kg	13369	95UCL	1.3E+03	--	1E+01	--
311 244TH ST	TPH as Gasoline	mg/kg	0.104	95UCL	7.6E+02	--	1E-04	--
311 244TH ST	TPH as Motor Oil	mg/kg	30336	95UCL	3.3E+03	--	9E+00	--
311 244TH ST	Vanadium	mg/kg	34.48	95UCL	3.9E+02	--	9E-02	--
317 244TH ST	1,2,4-Trimethylbenzene	µg/kg	0.17	95UCL	8.3E+04	--	2E-06	--
317 244TH ST	1,3,5-Trimethylbenzene	µg/kg	0.16	Max	8.5E+04	--	2E-06	--
317 244TH ST	1-Methylnaphthalene	mg/kg	3.099	95UCL	4.0E+03	1.6E+01	8E-04	2E-07
317 244TH ST	2-Methylnaphthalene	mg/kg	4.668	95UCL	2.3E+02	--	2E-02	--
317 244TH ST	Benzene	µg/kg	0.253	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
317 244TH ST	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.35	Max	1.2E+03	3.5E+01	3E-04	1E-08
317 244TH ST	Bromodichloromethane	µg/kg	1.1	Max	4.3E+05	4.9E+02	3E-06	2E-09
317 244TH ST	Cobalt	mg/kg	10.19	95UCL	2.3E+01	3.1E+04	4E-01	3E-10
317 244TH ST	Naphthalene	mg/kg	0.385	95UCL	1.5E+02	4.0E+00	3E-03	1E-07
317 244TH ST	Pyrene	mg/kg	36.28	95UCL	1.7E+03	--	2E-02	--
317 244TH ST	Toluene	µg/kg	0.325	95UCL	4.8E+06	--	7E-08	--
317 244TH ST	TPH as Diesel	mg/kg	21427	95UCL	1.3E+03	--	2E+01	--
317 244TH ST	TPH as Gasoline	mg/kg	0.126	95UCL	7.6E+02	--	2E-04	--
317 244TH ST	TPH as Motor Oil	mg/kg	41367	95UCL	3.3E+03	--	1E+01	--
317 244TH ST	Xylenes, Total	µg/kg	0.31	Max	5.6E+05	--	6E-07	--
321 244TH ST	1,2,4-Trimethylbenzene	µg/kg	0.19	Max	8.3E+04	--	2E-06	--
321 244TH ST	1-Methylnaphthalene	mg/kg	0.00633	95UCL	4.0E+03	1.6E+01	2E-06	4E-10
321 244TH ST	2-Methylnaphthalene	mg/kg	0.014	95UCL	2.3E+02	--	6E-05	--
321 244TH ST	Benzene	µg/kg	0.244	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
321 244TH ST	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.19	Max	1.2E+03	3.5E+01	2E-04	6E-09
321 244TH ST	Chromium, Hexavalent	mg/kg	0.25	Max	2.3E+02	1.3E+00	1E-03	2E-07
321 244TH ST	Cobalt	mg/kg	11.65	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
321 244TH ST	Naphthalene	mg/kg	0.00539	95UCL	1.5E+02	4.0E+00	4E-05	1E-09
321 244TH ST	Pyrene	mg/kg	0.0343	95UCL	1.7E+03	--	2E-05	--
321 244TH ST	Toluene	µg/kg	2.145	95UCL	4.8E+06	--	5E-07	--
321 244TH ST	TPH as Diesel	mg/kg	93.4	95UCL	1.3E+03	--	7E-02	--
321 244TH ST	TPH as Gasoline	mg/kg	0.0676	95UCL	7.6E+02	--	9E-05	--
321 244TH ST	TPH as Motor Oil	mg/kg	284.4	95UCL	3.3E+03	--	9E-02	--
321 244TH ST	Vanadium	mg/kg	38.22	95UCL	3.9E+02	--	1E-01	--
321 244TH ST	Xylenes, Total	µg/kg	0.72	Max	5.6E+05	--	1E-06	--
327 244TH ST	2-Methylnaphthalene	mg/kg	0.004	Max	2.3E+02	--	2E-05	--
327 244TH ST	Benzene	µg/kg	0.2	Max	6.7E+04	2.2E+02	3E-06	9E-10
327 244TH ST	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.17	Max	1.2E+03	3.5E+01	1E-04	5E-09
327 244TH ST	Chromium, Hexavalent	mg/kg	0.44	Max	2.3E+02	1.3E+00	2E-03	3E-07
327 244TH ST	Cobalt	mg/kg	12.7	Max	2.3E+01	3.1E+04	5E-01	4E-10
327 244TH ST	Naphthalene	mg/kg	0.0011	Max	1.5E+02	4.0E+00	7E-06	3E-10
327 244TH ST	Pyrene	mg/kg	0.012	Max	1.7E+03	--	7E-06	--
327 244TH ST	Toluene	µg/kg	0.23	Max	4.8E+06	--	5E-08	--
327 244TH ST	TPH as Diesel	mg/kg	150	Max	1.3E+03	--	1E-01	--
327 244TH ST	TPH as Gasoline	mg/kg	0.056	Max	7.6E+02	--	7E-05	--
327 244TH ST	TPH as Motor Oil	mg/kg	230	Max	3.3E+03	--	7E-02	--
327 244TH ST	Vanadium	mg/kg	46.5	Max	3.9E+02	--	1E-01	--
331 244TH ST	1-Methylnaphthalene	mg/kg	0.0028	Max	4.0E+03	1.6E+01	7E-07	2E-10
331 244TH ST	2-Methylnaphthalene	mg/kg	0.00331	95UCL	2.3E+02	--	1E-05	--
331 244TH ST	Benzene	µg/kg	0.331	95UCL	6.7E+04	2.2E+02	5E-06	2E-09
331 244TH ST	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.73	Max	1.2E+03	3.5E+01	6E-04	2E-08
331 244TH ST	Cobalt	mg/kg	11.19	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
331 244TH ST	Naphthalene	mg/kg	0.00264	95UCL	1.5E+02	4.0E+00	2E-05	7E-10
331 244TH ST	Pyrene	mg/kg	0.0204	95UCL	1.7E+03	--	1E-05	--
331 244TH ST	Toluene	µg/kg	0.24	95UCL	4.8E+06	--	5E-08	--
331 244TH ST	TPH as Diesel	mg/kg	65.29	95UCL	1.3E+03	--	5E-02	--

Appendix E  
Detailed Risk Calculations

Table E-1  
CO<sub>2</sub>-Specific Risk and Hazard Results, Residential Properties  
Onsite Resident  
Soil ≤2 ft bgs

Location	Constituent of Concern	Units	EPC	EPC Basis	Resident (EF350)			
					SSCGnc	SSCGc	Noncancer Hazard	Cancer Risk
331 244TH ST	TPH as Gasoline	mg/kg	0.0774	95UCL	7.6E+02	--	1E-04	--
331 244TH ST	TPH as Motor Oil	mg/kg	268.6	95UCL	3.3E+03	--	8E-02	--
331 244TH ST	Vanadium	mg/kg	35.69	95UCL	3.9E+02	--	9E-02	--
337 244TH ST	1,2,4-Trimethylbenzene	µg/kg	0.12	Max	8.3E+04	--	2E-06	--
337 244TH ST	1-Methylnaphthalene	mg/kg	0.00364	95UCL	4.0E+03	1.6E+01	9E-07	2E-10
337 244TH ST	2-Methylnaphthalene	mg/kg	0.00673	95UCL	2.3E+02	--	3E-05	--
337 244TH ST	Benzene	µg/kg	0.239	95UCL	6.7E+04	2.2E+02	4E-06	1E-09
337 244TH ST	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.486	95UCL	1.2E+03	3.5E+01	4E-04	1E-08
337 244TH ST	Chromium, Hexavalent	mg/kg	0.3	Max	2.3E+02	1.3E+00	1E-03	2E-07
337 244TH ST	Cobalt	mg/kg	10.63	95UCL	2.3E+01	3.1E+04	5E-01	3E-10
337 244TH ST	Ethylbenzene	µg/kg	0.35	Max	3.3E+06	4.8E+03	1E-07	7E-11
337 244TH ST	Naphthalene	mg/kg	0.00358	95UCL	1.5E+02	4.0E+00	2E-05	9E-10
337 244TH ST	Pyrene	mg/kg	0.027	95UCL	1.7E+03	--	2E-05	--
337 244TH ST	Toluene	µg/kg	0.294	95UCL	4.8E+06	--	6E-08	--
337 244TH ST	TPH as Diesel	mg/kg	1351	95UCL	1.3E+03	--	1E+00	--
337 244TH ST	TPH as Gasoline	mg/kg	3.258	95UCL	7.6E+02	--	4E-03	--
337 244TH ST	TPH as Motor Oil	mg/kg	887.5	95UCL	3.3E+03	--	3E-01	--
337 244TH ST	Vanadium	mg/kg	35.94	95UCL	3.9E+02	--	9E-02	--
341 244TH ST	1,2,4-Trimethylbenzene	µg/kg	0.196	95UCL	8.3E+04	--	2E-06	--
341 244TH ST	1,4-Dichlorobenzene	µg/kg	0.29	Max	3.6E+06	2.8E+03	8E-08	1E-10
341 244TH ST	1-Methylnaphthalene	mg/kg	0.0056	Max	4.0E+03	1.6E+01	1E-06	4E-10
341 244TH ST	2-Methylnaphthalene	mg/kg	0.00498	95UCL	2.3E+02	--	2E-05	--
341 244TH ST	Benzene	µg/kg	0.228	95UCL	6.7E+04	2.2E+02	3E-06	1E-09
341 244TH ST	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.86	Max	1.2E+03	3.5E+01	7E-04	3E-08
341 244TH ST	Bromomethane	µg/kg	5.6	Max	8.8E+03	--	6E-04	--
341 244TH ST	Chromium, Hexavalent	mg/kg	0.28	Max	2.3E+02	1.3E+00	1E-03	2E-07
341 244TH ST	Cobalt	mg/kg	12.34	95UCL	2.3E+01	3.1E+04	5E-01	4E-10
341 244TH ST	Naphthalene	mg/kg	0.00218	95UCL	1.5E+02	4.0E+00	1E-05	6E-10
341 244TH ST	Pyrene	mg/kg	0.0421	95UCL	1.7E+03	--	3E-05	--
341 244TH ST	Toluene	µg/kg	0.254	95UCL	4.8E+06	--	5E-08	--
341 244TH ST	TPH as Diesel	mg/kg	63.46	95UCL	1.3E+03	--	5E-02	--
341 244TH ST	TPH as Gasoline	mg/kg	0.0803	95UCL	7.6E+02	--	1E-04	--
341 244TH ST	TPH as Motor Oil	mg/kg	154.7	95UCL	3.3E+03	--	5E-02	--
341 244TH ST	Xylenes, Total	µg/kg	0.45	Max	5.6E+05	--	8E-07	--
344 249TH ST	1,2,4-Trimethylbenzene	µg/kg	0.286	95UCL	8.3E+04	--	4E-06	--
344 249TH ST	1-Methylnaphthalene	mg/kg	0.0016	Max	4.0E+03	1.6E+01	4E-07	1E-10
344 249TH ST	2-Methylnaphthalene	mg/kg	0.0773	95UCL	2.3E+02	--	3E-04	--
344 249TH ST	Benzene	µg/kg	0.543	95UCL	6.7E+04	2.2E+02	8E-06	3E-09
344 249TH ST	Naphthalene	mg/kg	0.0181	95UCL	1.5E+02	4.0E+00	1E-04	5E-09
344 249TH ST	Pyrene	mg/kg	1.155	95UCL	1.7E+03	--	7E-04	--
344 249TH ST	Toluene	µg/kg	0.313	95UCL	4.8E+06	--	7E-08	--
344 249TH ST	TPH as Diesel	mg/kg	219.1	95UCL	1.3E+03	--	2E-01	--
344 249TH ST	TPH as Gasoline	mg/kg	0.086	Max	7.6E+02	--	1E-04	--
344 249TH ST	TPH as Motor Oil	mg/kg	1473	95UCL	3.3E+03	--	5E-01	--
344 249TH ST	Xylenes, Total	µg/kg	0.97	Max	5.6E+05	--	2E-06	--
345 249TH ST	1,2,4-Trimethylbenzene	µg/kg	0.36	Max	8.3E+04	--	4E-06	--
345 249TH ST	1-Methylnaphthalene	mg/kg	0.0103	95UCL	4.0E+03	1.6E+01	3E-06	7E-10
345 249TH ST	2-Methylnaphthalene	mg/kg	0.0449	95UCL	2.3E+02	--	2E-04	--
345 249TH ST	Benzene	µg/kg	0.202	95UCL	6.7E+04	2.2E+02	3E-06	9E-10
345 249TH ST	Bis(2-Ethylhexyl) Phthalate	mg/kg	0.44	Max	1.2E+03	3.5E+01	4E-04	1E-08
345 249TH ST	Chromium, Hexavalent	mg/kg	0.39	Max	2.3E+02	1.3E+00	2E-03	3E-07
345 249TH ST	Naphthalene	mg/kg	0.00843	95UCL	1.5E+02	4.0E+00	6E-05	2E-09
345 249TH ST	Pyrene	mg/kg	0.39	95UCL	1.7E+03	--	2E-04	--
345 249TH ST	Toluene	µg/kg	0.387	95UCL	4.8E+06	--	8E-08	--
345 249TH ST	TPH as Diesel	mg/kg	670.9	95UCL	1.3E+03	--	5E-01	--
345 249TH ST	TPH as Gasoline	mg/kg	0.0836	95UCL	7.6E+02	--	1E-04	--
345 249TH ST	TPH as Motor Oil	mg/kg	1709	95UCL	3.3E+03	--	5E-01	--
345 249TH ST	Xylenes, Total	µg/kg	0.251	95UCL	5.6E+05	--	5E-07	--
347 244TH ST	1,2,4-Trimethylbenzene	µg/kg	0.243	95UCL	8.3E+04	--	3E-06	--
347 244TH ST	1,3,5-Trimethylbenzene	µg/kg	0.13	Max	8.5E+04	--	2E-06	--
347 244TH ST	2-Methylnaphthalene	mg/kg	0.00452	95UCL	2.3E+02	--	2E-05	--
347 244TH ST	Benzene	µg/kg	0.183	95UCL	6.7E+04	2.2E+02	3E-06	8E-10