FIGURE 2

BOX PLOTS AND RESULTS OF STATISTICAL TESTS COMPARING THE BASELINE DATA SET TO THE POST-REMEDIATION DATA SET FOR INDIVIDUAL PROPERTIES ORDERED BY INCREASING DISTANCE FROM THE SMELTER

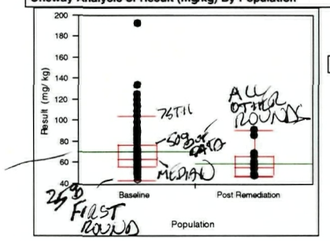
Distance From Smelter (miles)

0.20-0.25

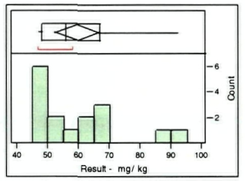
AVE.

House=1, Address=842 Brown

Oneway Analysis of Result (mg/kg) By Population



Quantiles			Quantiles		
100.0%	maximum	193.00	100.0%	maximum	92.000
99.5%		193.00	99.5%		92.000
97.5%		131.07	97.5%		92.000
90.0%		103.20	90.0%		87.800
75.0%	quartile	77.75	75.0%	quartile	67.000
50.0%	median	64.00	50.0%	median	56.000
25.0%	quartile	57.00	25.0%	quartile	48.250
10.0%		51.00	10.0%		47.700
2.5%		46.33	2.5%		47.000
0.5%		44.00	0.5%		47.000
0.0%	minimum	44.00	0.0%	minimum	47.000



Test Mean=value

Hypothesized Value	74	
Actual Estimate	59.5625	
df	15	
Std Dev	13.8081	
	t Test	Signed-Rank
Test Statistic	-4.1823	-56.000
Prob > |t|	0.0008	0.002
Prob > t	0.9996	0.999
Prob < t	0.0004	0.001

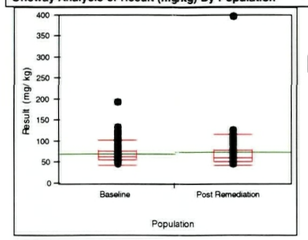
Quantile Test

k (Critical)	r	k (Observed)
2	3	0

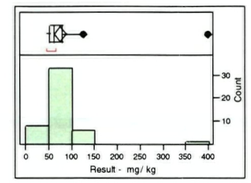
Test Conclusion: Property ≤ Baseline

House=5, Address=407 Burris

Oneway Analysis of Result (mg/kg) By Population



Quantiles			Quantiles		
100.0%	maximum	193.00	100.0%	maximum	397.00
99.5%		193.00	99.5%		397.00
97.5%		131.07	97.5%		336.02
90.0%		103.20	90.0%		106.50
75.0%	quartile	77.75	75.0%	quartile	80.00
50.0%	median	64.00	50.0%	median	63.00
25.0%	quartile	57.00	25.0%	quartile	53.25
10.0%		51.00	10.0%		47.00
2.5%		46.33	2.5%		44.23
0.5%		44.00	0.5%		44.00
0.0%	minimum	44.00	0.0%	minimum	44.00



Test Mean=value

Hypothesized Value	74	
Actual Estimate	75.125	
df	47	
Std Dev	51.854	
	t Test	Signed-Rank
Test Statistic	0.1503	-149.5
Prob > |t|	0.8812	0.103
Prob > t	0.4406	0.949
Prob < t	0.5594	0.051

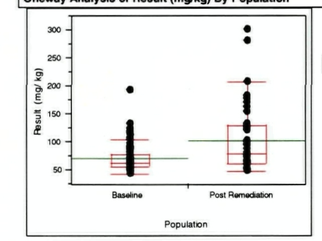
Quantile Test

k (Critical)	r	k (Observed)
3	3	1

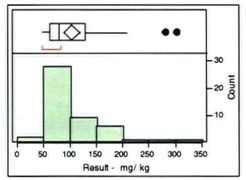
Test Conclusion: Property ≤ Baseline

House=6, Address=907 Dale

Oneway Analysis of Result (mg/kg) By Population



Quantiles			Quantiles		
100.0%	maximum	193.00	100.0%	maximum	302.00
99.5%		193.00	99.5%		302.00
97.5%		131.07	97.5%		297.27
90.0%		103.20	90.0%		179.40
75.0%	quartile	77.75	75.0%	quartile	129.25
50.0%	median	64.00	50.0%	median	79.50
25.0%	quartile	57.00	25.0%	quartile	62.50
10.0%		51.00	10.0%		52.80
2.5%		46.33	2.5%		48.00
0.5%		44.00	0.5%		48.00
0.0%	minimum	44.00	0.0%	minimum	48.00



Test Mean=value

Hypothesized Value	74	
Actual Estimate	102.729	
df	47	
Std Dev	57.6847	
	t Test	Signed-Rank
Test Statistic	3.4505	240.500
Prob > |t|	0.0012	0.007
Prob > t	0.0006	0.004
Prob < t	0.9994	0.996

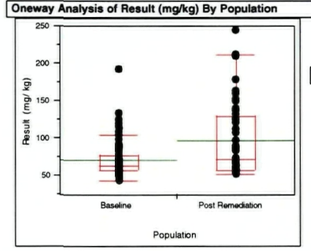
Quantile Test

k (Critical)	r	k (Observed)
3	3	3

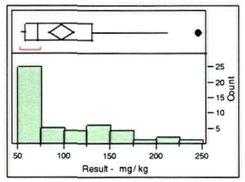
Test Conclusion: Property > Baseline

House=20, Address=928 Church

Oneway Analysis of Result (mg/kg) By Population



Quantiles			Quantiles		
100.0%	maximum	193.00	100.0%	maximum	245.00
99.5%		193.00	99.5%		245.00
97.5%		131.07	97.5%		237.57
90.0%		103.20	90.0%		165.50
75.0%	quartile	77.75	75.0%	quartile	130.50
50.0%	median	64.00	50.0%	median	72.50
25.0%	quartile	57.00	25.0%	quartile	58.00
10.0%		51.00	10.0%		55.90
2.5%		46.33	2.5%		53.23
0.5%		44.00	0.5%		53.00
0.0%	minimum	44.00	0.0%	minimum	53.00



Test Mean=value

Hypothesized Value	74	
Actual Estimate	97.5208	
df	47	
Std Dev	49.155	
	t Test	Signed-Rank
Test Statistic	3.3152	199.500
Prob > |t|	0.0018	0.033
Prob > t	0.0009	0.017
Prob < t	0.9991	0.983

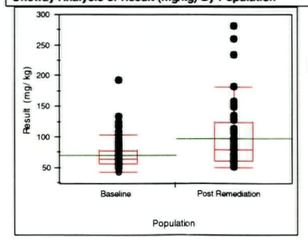
Quantile Test

k (Critical)	r	k (Observed)
3	3	3

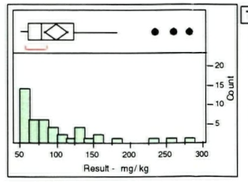
Test Conclusion: Property > Baseline

House=22, Address=824 Brown

Oneway Analysis of Result (mg/kg) By Population



Quantiles			Quantiles		
100.0%	maximum	193.00	100.0%	maximum	281.00
99.5%		193.00	99.5%		281.00
97.5%		131.07	97.5%		278.38
90.0%		103.20	90.0%		170.00
75.0%	quartile	77.75	75.0%	quartile	123.75
50.0%	median	64.00	50.0%	median	79.50
25.0%	quartile	57.00	25.0%	quartile	61.00
10.0%		51.00	10.0%		57.00
2.5%		46.33	2.5%		51.12
0.5%		44.00	0.5%		51.00
0.0%	minimum	44.00	0.0%	minimum	51.00



Test Mean=value

Hypothesized Value	74	
Actual Estimate	98.9545	
df	43	
Std Dev	54.7637	
	t Test	Signed-Rank
Test Statistic	3.0226	176.000
Prob > |t|	0.0042	0.038
Prob > t	0.0021	0.019
Prob < t	0.9979	0.981

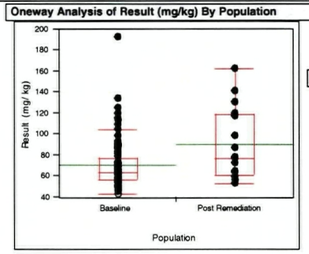
Quantile Test

k (Critical)	r	k (Observed)
4	5	4

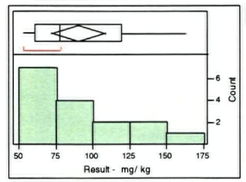
Test Conclusion: Property > Baseline

House=24, Address=812 Brown

Oneway Analysis of Result (mg/kg) By Population



Quantiles			Quantiles		
100.0%	maximum	193.00	100.0%	maximum	163.00
99.5%		193.00	99.5%		163.00
97.5%		131.07	97.5%		163.00
90.0%		103.20	90.0%		147.60
75.0%	quartile	77.75	75.0%	quartile	119.25
50.0%	median	64.00	50.0%	median	77.50
25.0%	quartile	57.00	25.0%	quartile	61.00
10.0%		51.00	10.0%		55.80
2.5%		46.33	2.5%		53.00
0.5%		44.00	0.5%		53.00
0.0%	minimum	44.00	0.0%	minimum	53.00



Test Mean=value

Hypothesized Value	74	
Actual Estimate	90.3125	
df	15	
Std Dev	34.1462	
	t Test	Signed-Rank
Test Statistic	1.9109	24.000
Prob > |t|	0.0753	0.226
Prob > t	0.0377	0.113
Prob < t	0.9623	0.887

Quantile Test

k (Critical)	r	k (Observed)
2	3	2

Test Conclusion: Property > Baseline

NONPARAMETRIC TESTS

WRS TEST

QUANTILE TEST

40325857

Superfund

FIGURE 2 (CONTINUED)

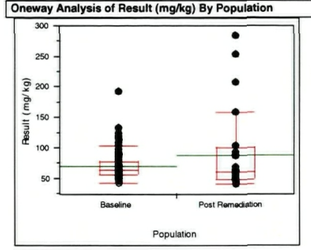
BOX PLOTS AND RESULTS OF STATISTICAL TESTS COMPARING THE BASELINE DATA SET TO THE POST-REMEDIATION DATA SET FOR INDIVIDUAL PROPERTIES ORDERED BY INCREASING DISTANCE FROM THE SMELTER

Distance From Smelter (miles)

0.40-0.45

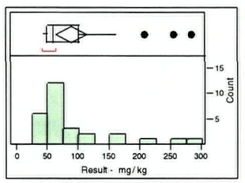
House=11, Address=525 Joachim

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation Quantiles		
100.0%	maximum	284.00
99.5%		284.00
97.5%		284.00
90.0%		212.60
75.0%	quartile	101.25
50.0%	median	61.00
25.0%	quartile	50.00
10.0%		43.90
2.5%		42.00
0.5%		42.00
0.0%	minimum	42.00



Test Mean=value	
Hypothesized Value	74
Actual Estimate	89.1786
df	27
Std Dev	65.0288

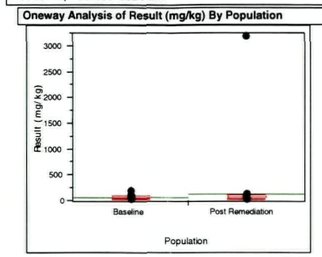
	t Test	Signed-Rank
Test Statistic	1.2351	-12.000
Prob > |t|	0.2274	0.790
Prob > t	0.1137	0.605
Prob < t	0.8863	0.395

Quantile Test		
k (Critical)	r	k (Observed)
2	2	2

Test Conclusion: Property > Baseline

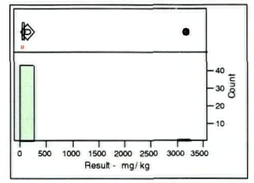
House=12, Address=292 Park

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation Quantiles		
100.0%	maximum	3187.0
99.5%		3187.0
97.5%		2805.8
90.0%		130.5
75.0%	quartile	82.0
50.0%	median	56.5
25.0%	quartile	49.2
10.0%		46.5
2.5%		43.1
0.5%		43.0
0.0%	minimum	43.0



Test Mean=value	
Hypothesized Value	74
Actual Estimate	138.795
df	43
Std Dev	471.026

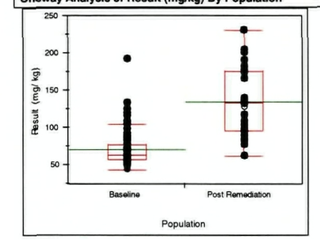
	t Test	Signed-Rank
Test Statistic	0.9125	-153
Prob > |t|	0.3666	0.074
Prob > t	0.1833	0.963
Prob < t	0.8167	0.037

Quantile Test		
k (Critical)	r	k (Observed)
4	5	N/A

Test Conclusion: Test Not Conducted

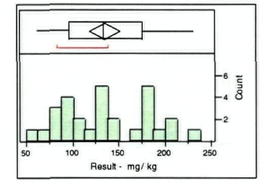
House=13, Address=562 Reservoir

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation Quantiles		
100.0%	maximum	231.00
99.5%		231.00
97.5%		231.00
90.0%		201.00
75.0%	quartile	176.00
50.0%	median	134.00
25.0%	quartile	96.50
10.0%		77.00
2.5%		62.00
0.5%		62.00
0.0%	minimum	62.00



Test Mean=value	
Hypothesized Value	74
Actual Estimate	134.828
df	28
Std Dev	45.9387

	t Test	Signed-Rank
Test Statistic	7.1305	209.000
Prob > |t|	<.0001	0.000
Prob > t	<.0001	0.000
Prob < t	1.0000	1.000

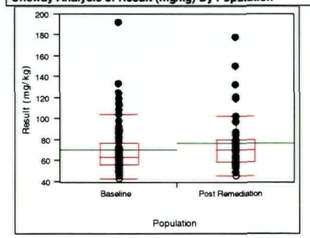
Quantile Test		
k (Critical)	r	k (Observed)
2	2	2

Test Conclusion: Property > Baseline

0.45

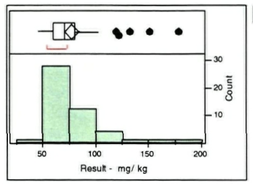
House=17, Address=416 Thurwell

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation Quantiles		
100.0%	maximum	179.00
99.5%		179.00
97.5%		172.70
90.0%		120.20
75.0%	quartile	81.00
50.0%	median	71.00
25.0%	quartile	60.00
10.0%		54.00
2.5%		46.90
0.5%		46.00
0.0%	minimum	46.00



Test Mean=value	
Hypothesized Value	74
Actual Estimate	77.5208
df	47
Std Dev	27.1364

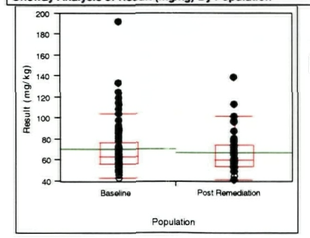
	t Test	Signed-Rank
Test Statistic	0.8989	-56.000
Prob > |t|	0.3733	0.546
Prob > t	0.1866	0.727
Prob < t	0.8134	0.273

Quantile Test		
k (Critical)	r	k (Observed)
3	3	2

Test Conclusion: Property ≤ Baseline

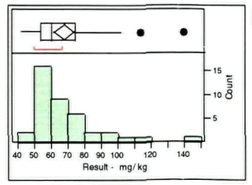
House=21, Address=295 Broadway

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation Quantiles		
100.0%	maximum	140.00
99.5%		140.00
97.5%		139.35
90.0%		97.90
75.0%	quartile	74.50
50.0%	median	60.50
25.0%	quartile	54.00
10.0%		50.00
2.5%		42.08
0.5%		42.00
0.0%	minimum	42.00



Test Mean=value	
Hypothesized Value	74
Actual Estimate	67.55
df	39
Std Dev	20.0268

	t Test	Signed-Rank
Test Statistic	-2.0369	-193.5
Prob > |t|	0.0485	0.008
Prob > t	0.9758	0.996
Prob < t	0.0242	0.004

Quantile Test		
k (Critical)	r	k (Observed)
5	8	N/A

Test Conclusion: Test Not Conducted

FIGURE 2 (CONTINUED)

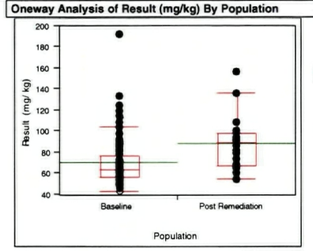
BOX PLOTS AND RESULTS OF STATISTICAL TESTS COMPARING THE BASELINE DATA SET TO THE POST-REMEDIATION DATA SET FOR INDIVIDUAL PROPERTIES ORDERED BY INCREASING DISTANCE FROM THE SMELTER

Distance From Smelter (miles)

0.50-0.54

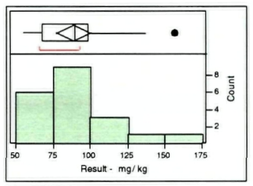
House=2, Address=446 Thurwell

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation Quantiles		
100.0%	maximum	157.00
99.5%		157.00
97.5%		157.00
90.0%		134.20
75.0%	quartile	98.75
50.0%	median	89.50
25.0%	quartile	67.50
10.0%		61.50
2.5%		55.00
0.5%		55.00
0.0%	minimum	55.00



Test Mean=value

Hypothesized Value		74
Actual Estimate		88.9
df		19
Std Dev		24.9482
	t Test	Signed-Rank
Test Statistic	2.6709	66.000
Prob > |t|	0.0151	0.012
Prob > t	0.0076	0.006
Prob < t	0.9924	0.994

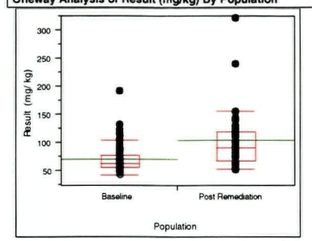
Quantile Test

k (Critical)	r	k (Observed)
3	5	2

Test Conclusion: Property ≤ Baseline

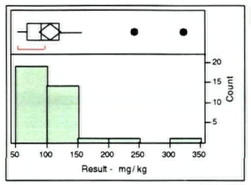
House=9, Address=454 Hill

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation Quantiles		
100.0%	maximum	323.00
99.5%		323.00
97.5%		323.00
90.0%		148.30
75.0%	quartile	120.00
50.0%	median	91.50
25.0%	quartile	68.25
10.0%		56.70
2.5%		53.00
0.5%		53.00
0.0%	minimum	53.00



Test Mean=value

Hypothesized Value		74
Actual Estimate		104.667
df		35
Std Dev		52.8902
	t Test	Signed-Rank
Test Statistic	3.4789	224.500
Prob > |t|	0.0014	0.000
Prob > t	0.0007	0.000
Prob < t	0.9993	1.000

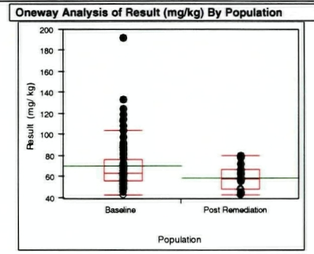
Quantile Test

k (Critical)	r	k (Observed)
4	6	5

Test Conclusion: Property > Baseline

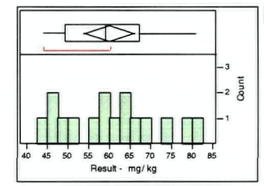
House=14, Address=440 Thurwell

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation Quantiles		
100.0%	maximum	81.000
99.5%		81.000
97.5%		81.000
90.0%		79.600
75.0%	quartile	67.250
50.0%	median	59.000
25.0%	quartile	49.250
10.0%		44.700
2.5%		44.000
0.5%		44.000
0.0%	minimum	44.000



Test Mean=value

Hypothesized Value		74
Actual Estimate		59.9375
df		15
Std Dev		11.5266
	t Test	Signed-Rank
Test Statistic	-4.8800	-62.000
Prob > |t|	0.0002	0.000
Prob > t	0.9999	1.000
Prob < t	<.0001	0.000

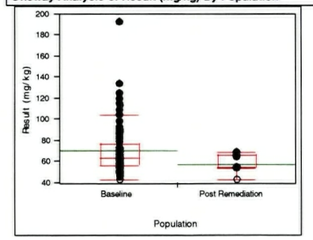
Quantile Test

k (Critical)	r	k (Observed)
2	3	0

Test Conclusion: Property ≤ Baseline

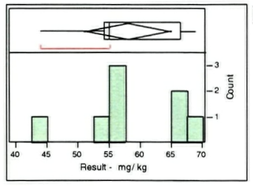
House=15, Address=453 Thurwell

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation Quantiles		
100.0%	maximum	69.000
99.5%		69.000
97.5%		69.000
90.0%		69.000
75.0%	quartile	66.500
50.0%	median	55.000
25.0%	quartile	54.250
10.0%		44.000
2.5%		44.000
0.5%		44.000
0.0%	minimum	44.000



Test Mean=value

Hypothesized Value		74
Actual Estimate		58
df		7
Std Dev		8.3666
	t Test	Signed-Rank
Test Statistic	-5.4090	-18.000
Prob > |t|	0.0010	0.008
Prob > t	0.9995	0.996
Prob < t	0.0005	0.004

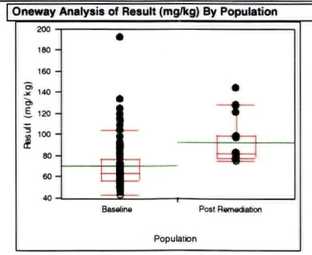
Quantile Test

k (Critical)	r	k (Observed)
2	5	0

Test Conclusion: Property ≤ Baseline

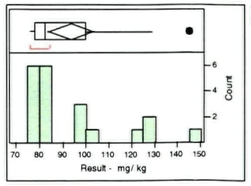
House=16, Address=695 Joachim

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation Quantiles		
100.0%	maximum	145.00
99.5%		145.00
97.5%		145.00
90.0%		128.90
75.0%	quartile	99.75
50.0%	median	82.50
25.0%	quartile	78.25
10.0%		76.10
2.5%		76.00
0.5%		76.00
0.0%	minimum	76.00



Test Mean=value

Hypothesized Value		74
Actual Estimate		93.65
df		19
Std Dev		21.1019
	t Test	Signed-Rank
Test Statistic	4.1644	105.000
Prob > |t|	0.0005	0.000
Prob > t	0.0003	0.000
Prob < t	0.9997	1.000

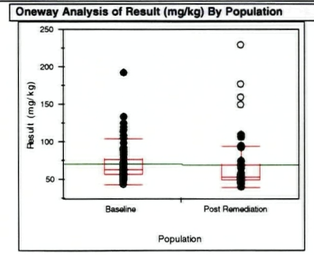
Quantile Test

k (Critical)	r	k (Observed)
3	5	0

Test Conclusion: Property > Baseline

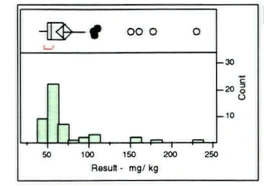
House=19, Address=407 Hill

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation Quantiles		
100.0%	maximum	230.00
99.5%		230.00
97.5%		218.07
90.0%		114.00
75.0%	quartile	69.75
50.0%	median	54.00
25.0%	quartile	50.25
10.0%		46.00
2.5%		40.90
0.5%		40.00
0.0%	minimum	40.00



Test Mean=value

Hypothesized Value		74
Actual Estimate		70.1458
df		47
Std Dev		38.2278
	t Test	Signed-Rank
Test Statistic	-0.6985	-224.5
Prob > |t|	0.4883	0.016
Prob > t	0.7558	0.992
Prob < t	0.2442	0.008

Quantile Test

k (Critical)	r	k (Observed)
3	3	N/A

Test Conclusion: Test Not Conducted

FIGURE 2 (CONTINUED)

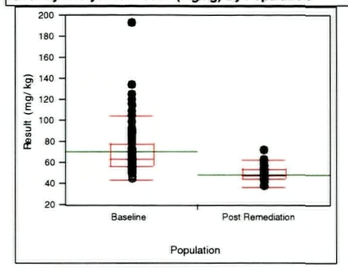
BOX PLOTS AND RESULTS OF STATISTICAL TESTS COMPARING THE BASELINE DATA SET TO THE POST-REMEDIATION DATA SET FOR INDIVIDUAL PROPERTIES ORDERED BY INCREASING DISTANCE FROM THE SMELTER

Distance From Smelter (miles)

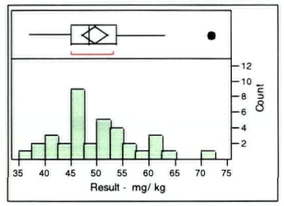
0.60

House=4, Address=438 Washington

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles			Post-Remediation Quantiles		
100.0%	maximum	193.00	100.0%	maximum	72.000
99.5%		193.00	99.5%		72.000
97.5%		131.07	97.5%		72.000
90.0%		103.20	90.0%		60.000
75.0%	quartile	77.75	75.0%	quartile	53.750
50.0%	median	64.00	50.0%	median	48.500
25.0%	quartile	57.00	25.0%	quartile	45.000
10.0%		51.00	10.0%		40.100
2.5%		46.33	2.5%		37.000
0.5%		44.00	0.5%		37.000
0.0%	minimum	44.00	0.0%	minimum	37.000



Test Mean=value

Hypothesized Value	74	
Actual Estimate	49.4722	
df	35	
Std Dev	7.7293	
	t Test	**Signed-Rank**
Test Statistic	-19.04	-333
Prob > |t|	<.0001	0.000
Prob > t	1.0000	1.000
Prob < t	<.0001	0.000

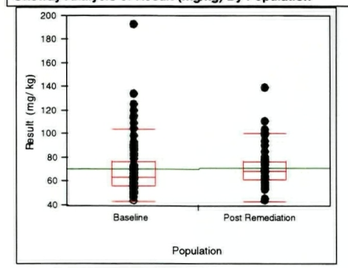
Quantile Test

k (Critical)	r	k (Observed)
4	6	0

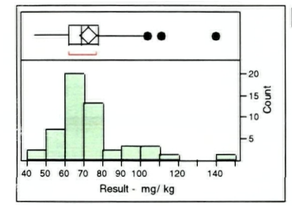
Test Conclusion: Property ≤ Baseline

House=18, Address=422 Reservior

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles			Post-Remediation Quantiles		
100.0%	maximum	193.00	100.0%	maximum	140.00
99.5%		193.00	99.5%		140.00
97.5%		131.07	97.5%		130.57
90.0%		103.20	90.0%		98.20
75.0%	quartile	77.75	75.0%	quartile	77.75
50.0%	median	64.00	50.0%	median	69.00
25.0%	quartile	57.00	25.0%	quartile	62.00
10.0%		51.00	10.0%		54.30
2.5%		46.33	2.5%		44.33
0.5%		44.00	0.5%		44.00
0.0%	minimum	44.00	0.0%	minimum	44.00



Test Mean=value

Hypothesized Value	74	
Actual Estimate	72.3077	
df	51	
Std Dev	17.3268	
	t Test	**Signed-Rank**
Test Statistic	-0.7043	-173
Prob > |t|	0.4844	0.085
Prob > t	0.7578	0.957
Prob < t	0.2422	0.043

Quantile Test

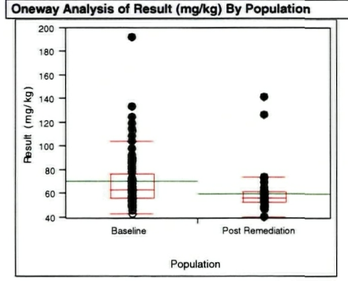
k (Critical)	r	k (Observed)
4	5	1

Test Conclusion: Property ≤ Baseline

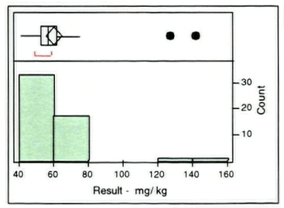
0.75

House=3, Address=441 Main

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles			Post-Remediation Quantiles		
100.0%	maximum	193.00	100.0%	maximum	142.00
99.5%		193.00	99.5%		142.00
97.5%		131.07	97.5%		137.12
90.0%		103.20	90.0%		70.00
75.0%	quartile	77.75	75.0%	quartile	62.00
50.0%	median	64.00	50.0%	median	57.00
25.0%	quartile	57.00	25.0%	quartile	53.00
10.0%		51.00	10.0%		49.00
2.5%		46.33	2.5%		42.95
0.5%		44.00	0.5%		41.00
0.0%	minimum	44.00	0.0%	minimum	41.00



Test Mean=value

Hypothesized Value	74	
Actual Estimate	60.0577	
df	51	
Std Dev	16.5842	
	t Test	**Signed-Rank**
Test Statistic	-6.0624	-561
Prob > |t|	<.0001	0.000
Prob > t	1.0000	1.000
Prob < t	<.0001	0.000

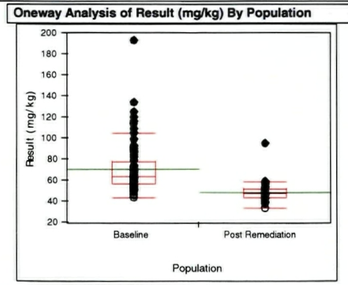
Quantile Test

k (Critical)	r	k (Observed)
4	5	2

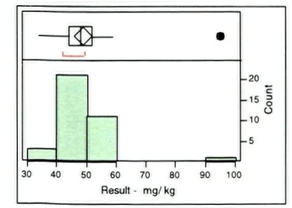
Test Conclusion: Property ≤ Baseline

House=10, Address=485 St. Joseph

Oneway Analysis of Result (mg/kg) By Population



Baseline Quantiles			Post-Remediation Quantiles		
100.0%	maximum	193.00	100.0%	maximum	95.000
99.5%		193.00	99.5%		95.000
97.5%		131.07	97.5%		95.000
90.0%		103.20	90.0%		56.300
75.0%	quartile	77.75	75.0%	quartile	52.000
50.0%	median	64.00	50.0%	median	48.000
25.0%	quartile	57.00	25.0%	quartile	44.250
10.0%		51.00	10.0%		39.700
2.5%		46.33	2.5%		34.000
0.5%		44.00	0.5%		34.000
0.0%	minimum	44.00	0.0%	minimum	34.000



Test Mean=value

Hypothesized Value	74	
Actual Estimate	48.75	
df	35	
Std Dev	9.5898	
	t Test	**Signed-Rank**
Test Statistic	-15.798	-327
Prob > |t|	<.0001	0.000
Prob > t	1.0000	1.000
Prob < t	<.0001	0.000

Quantile Test

k (Critical)	r	k (Observed)
4	6	0

Test Conclusion: Property ≤ Baseline

FIGURE 2 (CONTINUED)

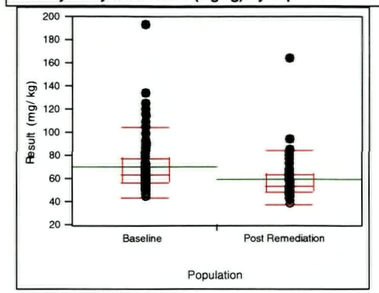
BOX PLOTS AND RESULTS OF STATISTICAL TESTS COMPARING THE BASELINE DATA SET TO THE POST-REMEDIATION DATA SET FOR INDIVIDUAL PROPERTIES ORDERED BY INCREASING DISTANCE FROM THE SMELTER

Distance From Smelter (miles)

0.80

House=7, Address=434 Sherman

Oneway Analysis of Result (mg/kg) By Population

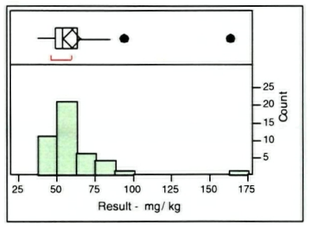


Baseline

Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation

Quantiles		
100.0%	maximum	164.00
99.5%		164.00
97.5%		155.25
90.0%		81.50
75.0%	quartile	63.75
50.0%	median	54.00
25.0%	quartile	49.25
10.0%		43.50
2.5%		38.38
0.5%		38.00
0.0%	minimum	38.00



Test Mean=value

Hypothesized Value	74	
Actual Estimate	59.5682	
df	43	
Std Dev	20.3543	
	t Test	**Signed-Rank**
Test Statistic	-4.7032	-408.5
Prob > |t|	<.0001	0.000
Prob > t	1.0000	1.000
Prob < t	<.0001	0.000

Quantile Test

k (Critical)	r	k (Observed)
4	5	1

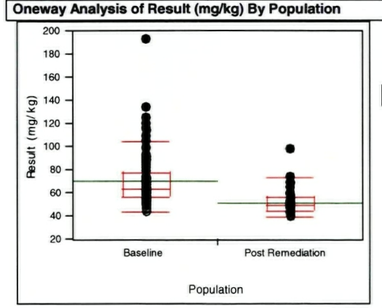
Test Conclusion:

Property ≤ Baseline

1.00

House=8, Address=157 Joachim

Oneway Analysis of Result (mg/kg) By Population

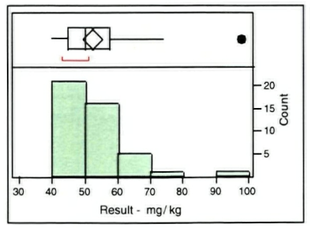


Baseline

Quantiles		
100.0%	maximum	193.00
99.5%		193.00
97.5%		131.07
90.0%		103.20
75.0%	quartile	77.75
50.0%	median	64.00
25.0%	quartile	57.00
10.0%		51.00
2.5%		46.33
0.5%		44.00
0.0%	minimum	44.00

Post-Remediation

Quantiles		
100.0%	maximum	98.000
99.5%		98.000
97.5%		95.000
90.0%		67.000
75.0%	quartile	57.500
50.0%	median	50.000
25.0%	quartile	45.000
10.0%		42.000
2.5%		40.000
0.5%		40.000
0.0%	minimum	40.000



Test Mean=value

Hypothesized Value	74	
Actual Estimate	52.2727	
df	43	
Std Dev	10.6014	
	t Test	**Signed-Rank**
Test Statistic	-13.595	-453
Prob > |t|	<.0001	0.000
Prob > t	1.0000	1.000
Prob < t	<.0001	0.000

Quantile Test

k (Critical)	r	k (Observed)
4	5	0

Test Conclusion:

Property ≤ Baseline