In-Place PCB Samples
Aspire School Site
Oakland, California

Sample ID	Date Sampled	PCBs mg/kg
EXC-PCB-1 W-SIDEWALL 2' NORTH 2	11/10/2009	< 0.050
EXC-PCB-1 N-SIDEWALL 2' WEST 2	11/10/2009	0.069
EXC-PCB-1 S-SIDEWALL 2' EAST	11/4/2009	< 0.050
EXC-PCB-1 S-SIDEWALL 2' WEST	11/4/2009	< 0.050
EXC-PCB-1 N-SIDEWALL 2' WEST	11/6/2009	< 0.050
EXC-PCB1 N-SDWALL-2'-EAST2	11/11/2009	< 0.050
EXC-PCB-1 E-SIDEWALL 2' NORTH	11/6/2009	< 0.050
EXC-PCB-1 E-SIDEWALL 2' SOUTH	11/6/2009	< 0.050
EXC-PCB1 E-SDWALL-2'-NORTH2	11/11/2009	< 0.050
EXC-PCB-1 NW2 BOTTOM 4'	11/10/2009	< 0.050
EXC PCB1-NW-BOTTOM4'-R2	11/23/2009	< 0.050
EXC-PCB-1 NE BOTTOM 4'	11/6/2009	< 0.050
EXC-PCB1E-NE2-BOTTOM 4'	11/11/2009	< 0.050
EXC-PCB1E-NE3-BOTTOM 4'	11/11/2009	< 0.050
EXC-PCB-1 CENTER BOTTOM 4'	11/6/2009	0.074
EXC-PCB-1 SW BOTTOM 4'	11/6/2009	0.058
EXC-PCB-1 SE BOTTOM 4'	11/6/2009	< 0.050
EXC TPH/PCB1-SW-BOTTOM6'-R2	11/23/2009	0.720
EXC TPH/PCB1 SE-BOTTOM 4'*	11/12/2009	0.680
EXC TPH/PCB1 SE-BOTTOM 4'-R	11/17/2009	< 0.050
EXC TPH/PCB1 NW-BOTTOM 4'	11/17/2009	< 0.050
EXC TPH/PCB1W-BOTTOM4'-R	11/24/2009	< 0.050
EXC TPH/PCB1 S-SDWALL2'-EAST-R	11/18/2009	< 0.050
EXC TPH/PCB1 N-SDWALL2'-WEST-R	11/21/2009	< 0.049
EXC TPH/PCB1 S-SDWALL2'-WEST-R	11/18/2009	< 0.050
EXC TPH/PCB1 W-SDWALL2'-SOUTH-R2	11/24/2009	< 0.050
EXC TPH/PCB1 W-SDWALL2'-NORTH	11/19/2009	0.220
EXC TPH/PCB1W-SDWALL2'-NORTH-R	11/24/2009	< 0.050
EXC-PCB-2 W-SIDEWALL 2'	11/4/2009	< 0.050
EXC-PCB-2 E2-SIDEWALL 2'	11/10/2009	< 0.050
EXC-PCB-2 SO-SIDEWALL 2'	11/4/2009	< 0.050
EXC-PCB-2 N-SIDEWALL 2'	11/4/2009	< 0.050
EXC-PCB-2 CENTER BOTTOM 4'	11/5/2009	< 0.050
EXC PCB3 N-BOTTOM4'	11/21/2009	< 0.050
EXC PCB3 S-BOTTOM4'	11/21/2009	< 0.050
EXC PCB3-SE-CORNER4'	11/23/2009	< 0.049
EXC PCB3-NE-CORNER3'R1	12/8/2009	0.270
EXC PCB3-E1-SDWALL2'R1	12/8/2009	< 0.050
EXC PCB3-E2-SDWALL2'	11/23/2009	< 0.050
EXC PCB3-NW-Corner 4'	5/26/2010	0.047

EXC PCB3-SW-CORNER4'	11/23/2009	< 0.050
EXC PCB3-W2-SDWALL4'	5/26/2010	2.500
EXC PCB3-W3-SDWALL2'	11/23/2009	< 0.050
EXC PCB3-W3-SDWALL4'	5/26/2010	NA
EXC PCB4-N-SDWALL2'	11/21/2009	0.084
EXC-PCB4-N2-SDWALL2'	11/21/2009	< 0.050
EXC PCB4-S1-SDWALL2' R1	12/8/2009	0.230
EXC-PCB4-S2-SDWALL2'	11/21/2009	0.200
EXC PCB4-W-SDWALL2' R1	12/8/2009	0.066
EXC PCB4-E-SDWALL2'	11/21/2009	0.120
EXC-PCB4-W-BOTTOM6' R1	12/8/2009	< 0.049
EXC-PCB4-E-BOTTOM4'	11/21/2009	< 0.049
EXC4-25' NORTH1-SDWALL3' R1	06/04/10	0.015
EXC4-25' NORTH2-SDWALL1'	11/30/09	2.600
EXC4-50' NORTH1-SDWALL3'-R2	06/04/10	0.135
EXC4-50' NORTH2-SDWALL3'-R2	06/04/10	0.160
EXC4-50' NORTH3-SDWALL3'-R2	06/04/10	0.029
EXC4-50' NORTH3-SDWALL1'-R	11/30/09	0.250
EXC4-SOUTH3-SDWALL1'	11/21/09	< 0.050
EXC4-SOUTH4-SDWALL1'	11/21/09	< 0.048
EXC4-SOUTH5-SDWALL1'	11/21/09	< 0.049
EXC4-SOUTH6-SDWALL1'	11/21/09	< 0.049
EXC4-SOUTH7-SDWALL1'	11/21/09	< 0.050
EXC-4-South-4A-SDWALL1'	11/30/09	< 0.050
EXC-4-South-4B-SDWALL1'	11/30/09	< 0.050
EXC4-EAST6-SDWALL1'	11/21/09	< 0.049
EXC4-EAST7-SDWALL1'	11/21/09	< 0.050
EXC4-EAST8-SDWALL1'	11/21/09	< 0.050
PD-1	05/28/10	0.37
PD-2	05/28/10	0.94
PD-3	05/28/10	0.34
PD-4	05/28/10	0.32
PD-5	05/28/10	0.21
PD-6	05/28/10	0.54
PD-7	05/28/10	0.10
		< 0.050
		< 0.050
		< 0.050
		< 0.050
		< 0.050
		< 0.050
		< 0.050
PD3-EXC-NORTH 2'	10/27/2010	< 0.012
PD3-EXC-SOUTH 2'	10/27/2010	< 0.012
PD3-EXC-EAST 2'	10/27/2010	< 0.012
PD3-EXC-WEST 2'	10/27/2010	< 0.012

PD3-EXC-BOTTOM 2'	10/27/2010	< 0.012
PD3-EXC-NORTH 2'	10/27/2010	< 0.012
PD4-EXC-SOUTH 2'	10/27/2010	< 0.012
PD4-EXC-EAST 2'	10/27/2010	< 0.012
PD4-EXC-WEST 2'	10/27/2010	< 0.012
PD4-EXC-BOTTOM 2'	10/27/2010	< 0.012
PD5-EXC-NORTH 2'	10/27/2010	< 0.012
PD5-EXC-SOUTH 2'	10/27/2010	0.02
PD5-EXC-EAST 2'	10/27/2010	0.06
PD5-EXC-WEST 2'	10/27/2010	0.03
PD5-EXC-BOTTOM 2'	10/27/2010	0.03

General UCL Statistics for Full Data Sets

User Selected Options	
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Aspire in-place PCBs w/ Nov 2010 data

General Statistics			
Number of Valid Observations	94	Number of Distinct Observations	24
Number of Missing Values	3		
Raw Statistics		Log-transformed Statistics	
Minimum	0.01	Minimum of Log Data	-4.605
Maximum	0.94	Maximum of Log Data	-0.0619
Mean	0.098	Mean of log Data	-2.889
Median	0.05	SD of log Data	0.97
SD	0.153		
Coefficient of Variation	1.559		
Skewness	3.597		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.381	Lilliefors Test Statistic	0.299
Lilliefors Critical Value	0.0914	Lilliefors Critical Value	0.0914
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	0.124	95% H-UCL	0.111
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	0.134
95% Adjusted-CLT UCL (Chen-1995)	0.13	97.5% Chebyshev (MVUE) UCL	0.154
95% Modified-t UCL (Johnson-1978)	0.125	99% Chebyshev (MVUE) UCL	0.193
Gamma Distribution Test		Data Distribution	

k star (bias corrected)	0.992	Data do not follow a Discernable Distribution (0.05)	
Theta Star	0.0987		
MLE of Mean	0.098		
MLE of Standard Deviation	0.0984		
nu star	186.5		
Approximate Chi Square Value (.05)	155.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0474	95% CLT UCL	0.124
Adjusted Chi Square Value	155.5	95% Jackknife UCL	0.124
		95% Standard Bootstrap UCL	0.125
Anderson-Darling Test Statistic	11.13	95% Bootstrap-t UCL	0.136
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	0.135
Kolmogorov-Smirnov Test Statistic	0.359	95% Percentile Bootstrap UCL	0.125
Kolmogorov-Smirnov 5% Critical Value	0.095	95% BCA Bootstrap UCL	0.131
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	0.167
		97.5% Chebyshev(Mean, Sd) UCL	0.196
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	0.255
95% Approximate Gamma UCL	0.117		
95% Adjusted Gamma UCL	0.118		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	0.167

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95%
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

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