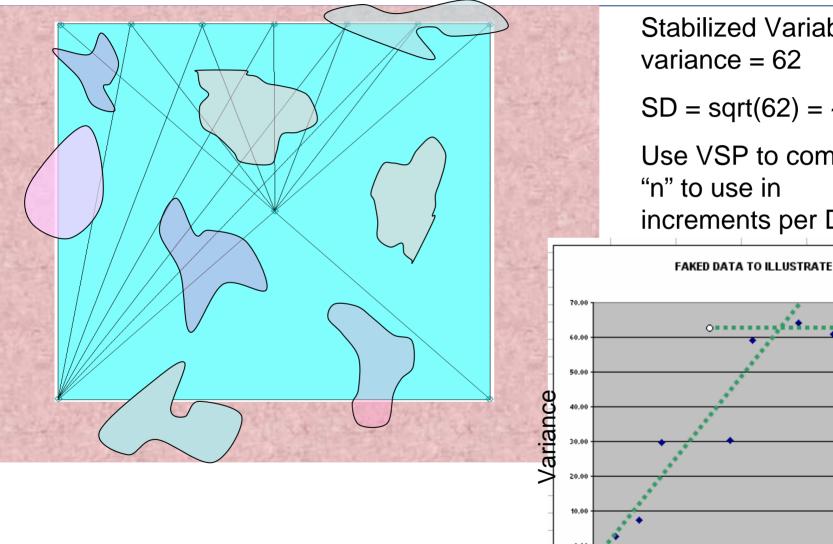
## Some auto-correlation exists, but distance to reach spatial randomness is found

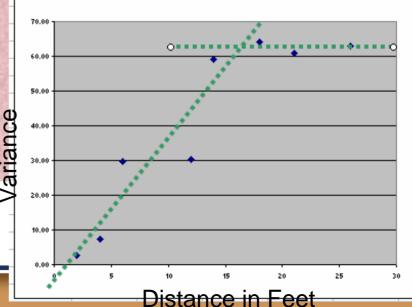


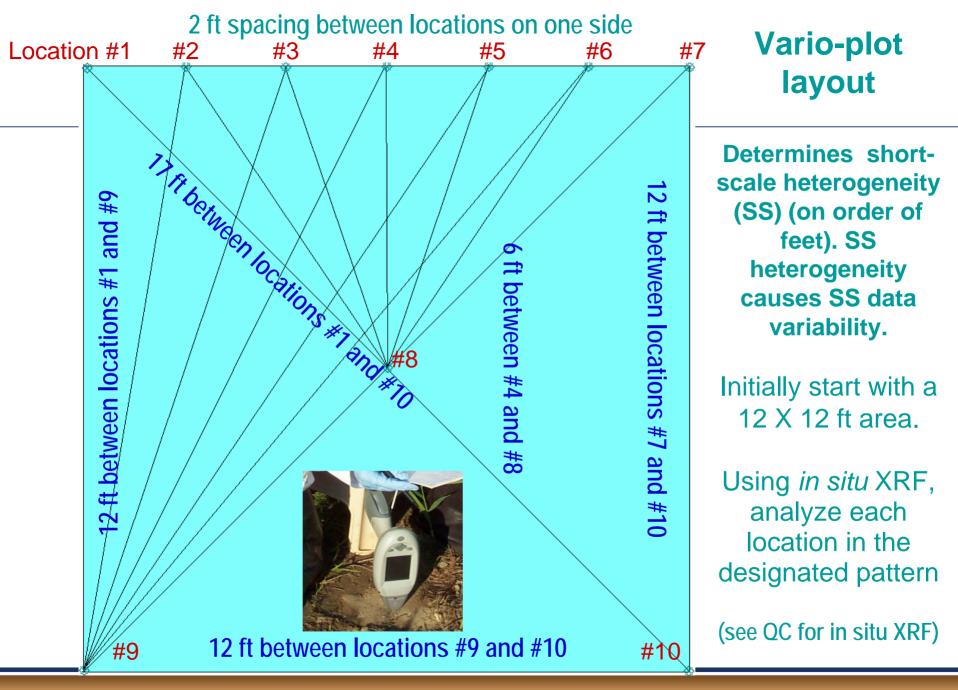
May 24-28, 2010 • Potomac Yard • Arlington, Virginia

Stabilized Variability as

SD = sqrt(62) = ~8

Use VSP to compute increments per DU.





## **Spreadsheets Developed to Calculate Variance at Multiple Distances**

- Calculate variance at distance (2, 4, 6-8.5, 12-14, 14-17 feet)
- Calculate standard deviation of points across each distance

Location				1/2	CI width	ave	upper limit						
			RPD	ABS value	RPD to RSD	)	if want mean +10%		46.51	465.14	558.17		
1 Pair #1-2 = 2ft	485	569	-4.0	4.0	0.028								
2 Pair #2-3	569	485	4.0	4.0	0.028								
3 Pair #3-4	485	495	-0.5	0.5	0.004								
4 Pair #4-5	495	406	4.9	4.9	0.035								
5 Pair #5-6	406	436	-1.8	1.8	0.013	ave of tot Pb for		Ave SD from ave RSD					
6 Pair#6-7	436	380	3.4	3.4	0.024	samples #1 to #7		o #7	(SD of differences between data poir			ints spaced	at 2 ft)
	Ave R	PD for 2-ft	spacing =	3.11	0.0220		465.14			10.213		•	

F	airings	for 14 <sup>4</sup>	to 17-f	ı spaci	ing								
				RPD	ABS value	RPD to RSD	)						
1 Pa	air #10-1 17 ft	387	485	-5.6	5.6	0.040							
2 Pa	air #10-2 14 <b>+f</b> t	387	569	-9.5	9.5	0.067	if want mean +10%		42.66	426.6	512.0		
3 Pa	air #10-3 14+ft	387	485	-5.6	5.6	0.040							
4 Pa	air #9-7 17 ft	265	380	-8.9	8.9	0.063							
5 Pa	air #9-514+ft	265	406	-10.5	10.5	0.074	ave of tot Pb for		Ave S	SD from ave F	RSD		
6 Pa	air #9-614 <b>+f</b> t	265	436	-12.2	12.2	0.086	samples #1 t	o #7	(SD of diff	erences ben	veen data po	ints spaced	at 14 to 17 ft
	Av	ve RPD for 1	14 to 17-ft s	pacings =	8.73	0.0617	426.63			26.334			

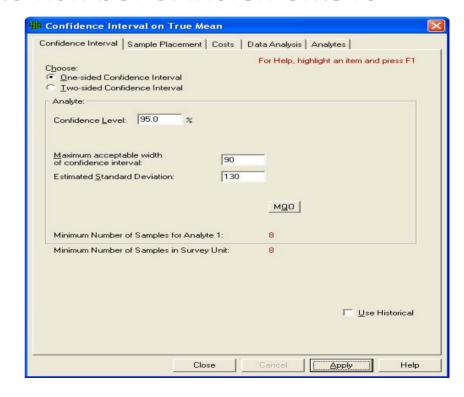
## **Visual Sampling Plan**

Conservative approach

Use largest standard deviation to plug into VSP

VSP Calculates appropriate number of increments for

each 1/4 acre decision unit



## VarioPlot Example – RR Lot 3

