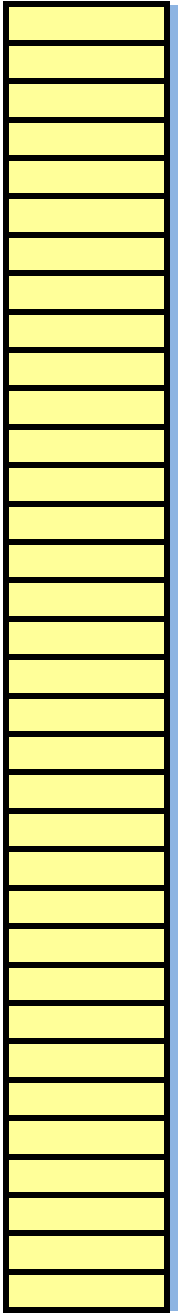
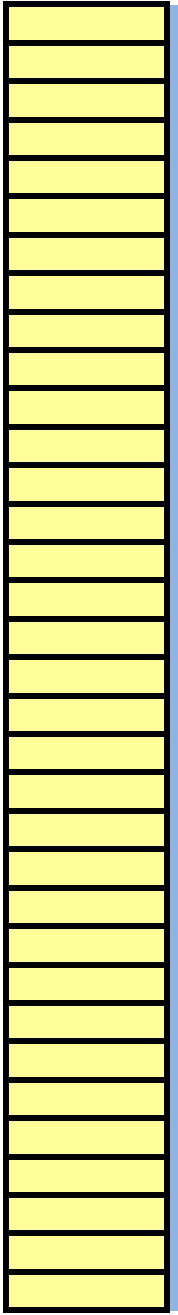


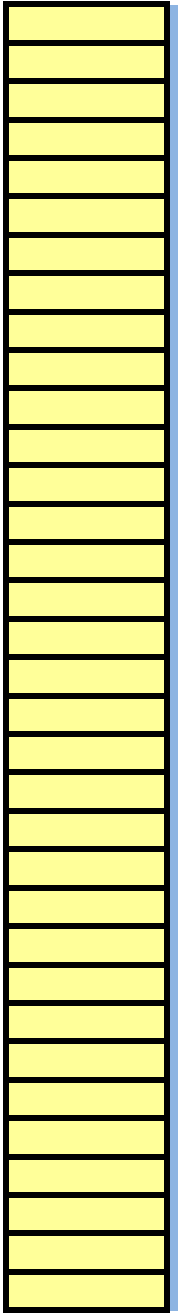
## CALCULATING THE 95th PERCENTILE AND PREDICTING POSSIBLE OUTLIERS

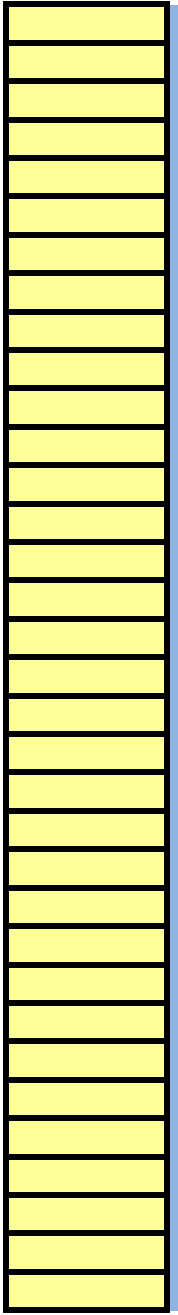
Data Set	ln(x)		
277	5.624		
180	5.193	Number of Data Points* <input style="width: 50px;" type="text" value="54"/>	COLOR KEY <span style="background-color: yellow; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span> User Inputs
435	6.075		
125	4.828	Enter Percentile <input style="width: 50px;" type="text" value="0.95"/>	(Note: Enter in decimal form, e.g. 0.95)
404	6.001		
159	5.069	Allowable Limit** <input style="width: 50px;" type="text" value="847.150"/>	" For a normal distribution"
475	6.163		
254	5.537	ln(x) value at percentile <input style="width: 50px;" type="text" value="6.71941"/>	
244	5.497		
130	4.868	Allowable Limit** <input style="width: 50px;" type="text" value="828.329"/>	"For a lognormal distribution"
258	5.553		
273	5.609		
487	6.188	*Enter the data in column A starting with Cell A5; the spreadsheet will count the number of entries.	
345	5.844	Enter up to 200 data points. Data can be entered at random in any cell in the column.	
691	6.538		
237	5.468	**This calculated value indicates the limit which will have the entered percentage (percentile) of data points below the "Allowable Limit". In other words, this limit represents the "confidence" that a permittee will be capable of compliance based on the percentile.	
194	5.268		
711	6.567		
617	6.425		
187	5.231	***Possible Outliers: Any Data Set values more than two standard deviations from the Mean (Ref: Chauvenet's criterion) will be formatted with a RED BACKGROUND. These values should be reviewed for possible exclusion from the data.	
259	5.557		
239	5.476		
94.9	4.553		
1190	7.082		
156	5.05	Permit Engineer: _____	Date: _____
285	5.652		
218	5.384		
221	5.398	Reviewing Engineer: _____	Date: _____
60.1	4.096		
529	6.271	DATA SOURCE: _____	











## ***E OUTLIERS***

***Outliers\*\*\****

Mean = 398.2

Std Dev ( $\sigma$ ) = 254.6

Min Value = 1.2

Mean -  $2\sigma$  = -111

Max Value = 1190

Mean +  $2\sigma$  = 907.5