Sprinkler System Review

Project Name		Date	
Address		Auditor	
City, State		Page	of

Abbreviation Key: S = Spray, fixed nozzle R = Rotor, MSMT nozzles I = Impact X = Needs correction ✓ = Correction completed

Controller ID/Name										
Station #										
Sprinkler type (choose one)										
Station flow		gpm		gpm		gpm		gpm		gpm
High pressure		psi		psi		psi		psi		psi
Low pressure		psi		psi		psi		psi		psi
Action Required	X	✓	X	✓	X	✓	X	✓	X	✓
Broken pipes										
Missing/broken heads										
Missing nozzle										
psi adjustment needed										
Clogged nozzle										
Heads not turning										
Arc misalignment:										
Low head drainage										
Leaking seals/fittings										
Spray deflected/blocked										
Sunken head										
Tilted heads										
Mismatched heads										
Spray/rotor separation										
Spacing uneven										
Valve malfunction										

Observations on Maintenance Frequency

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Test Area Map

Project Name		Date	
Address		Auditor	
City, State		Page	of

Test Area/Station								
Test Run Time		min	Wind		mph	Pressure		psi
Meter Start			Meter Stop			Total		

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Catch Can Test

Project Name		Date	
Address		Auditor	
City, State		Page	of

Test Area/Station					
Catch Device Area (A_{CD})		$in.^2$	Test Run Time (t_R)		min

Catch Device Volumes

#1		#13		#25		#37		#49		#61		#73	
#2		#14		#26		#38		#50		#62		#74	
#3		#15		#27		#39		#51		#63		#75	
#4		#16		#28		#40		#52		#64		#76	
#5		#17		#29		#41		#53		#65		#77	
#6		#18		#30		#42		#54		#66		#78	
#7		#19		#31		#43		#55		#67		#79	
#8		#20		#32		#44		#56		#68		#80	
#9		#21		#33		#45		#57		#69		#81	
#10		#22		#34		#46		#58		#70		#82	
#11		#23		#35		#47		#59		#71		#83	
#12		#24		#36		#48		#60		#72		#84	
Sub-total		**Sub-total**		**Sub-total**		**Sub-total**		**Sub-total**		**Sub-total**		**Sub-total**	

Total Catch Volume		**Total Low Quarter**	
Average Volume		**Average Low Quarter**	

Calculate Distribution Uniformity	Calculate Net Precipitation Rate
$DU_{LQ} = \frac{\text{avg catch in low quarter}}{\text{avg catch volume}}$	$PR_{net} = \frac{3.66 \times V_{avg}}{t_R \times A_{CD}}$
$= \frac{\text{mL}}{\text{mL}}$	$= \frac{3.66 \times (\quad \text{mL})}{(\quad \text{min}) \times (\quad in.^2)}$
$= \_\_\_\_\_$	$= \_\_\_\_\_$ in./h