



PARTICLE ANALYSIS REPORT

University of Arkansas
Fayetteville

Sampling Source: Cooling Tower Basin Water

Electro Cell System: *XCell-4000 Particle Precipitator*



**99%
particle
reduction
in 30 days**

TEST METHOD:

All tests completed by independent third-party laboratory. Samples analyzed by electro-optical particle analyzer employing the light scattering principle of operation with filtered water and particle data corrected. Stirring was continuous.

BASELINE SAMPLE - **Prior to ElectroCell Start-up - 24-Oct-2022**

PARTICLE COUNTS PER 100mL TEST PORTION

1 - 3 micron:	157,414
3 - 5 micron:	69,580
5 - 10 micron:	96,822
10 - 15 micron:	41,916
15 - 25 micron:	54,986
Over 25 micron:	<u>127,370</u>
TOTAL / 100mL:	548,088

SOLIDS PER 100 LITERS OF SYSTEM VOLUME (mm³)

1 - 5 micron:	5.71
5 - 10 micron:	40.86
Over 10 micron:	<u>85,776.04</u>
TOTAL / 100 Liters:	85,822.61

858 ppm

AFTER 30 DAYS **with ElectroCell System -**

PARTICLE COUNTS PER 100mL TEST PORTION

1 - 3 micron:	16,700
3 - 5 micron:	4,353
5 - 10 micron:	4,653
10 - 15 micron:	1,610
15 - 25 micron:	1,191
Over 25 micron:	<u>1,371</u>
TOTAL / 100mL:	29,878

SOLIDS PER 100 LITERS OF SYSTEM VOLUME (mm³)

1 - 5 micron:	0.41
5 - 10 micron:	1.96
Over 10 micron:	<u>928.31</u>
TOTAL / 100 Liters:	930.68

9 ppm

Electro Cell Systems

3320 Nazareth Road, Easton, PA 18045

Phn: (800) 949-3445 Fax: (610) 438-4472 email: info@electrocellsystems.com