



**WATER TREATMENT PLANT
PROCESS DIAGRAM
Hannibal, MO**

**Brennfloc
CP92186 Polymer
1 mg/L**

**Copper Sulfate
1 mg/L
(as needed for
algae control)**

**Alum
30 – 50 mg/L Carbon
10 – 44 mg/L**

Mississippi
River Water

River Intake

Pump House

Pre-sedimentation
Basin
3.5 Million Gallons

Primary
Flocculation &
Settling Basin
2.5 Million Gallons

Sludge Discharge
Trash Pump Daily to Weekly
& Annual Cleaning

Annual
Sludge Discharge

Sludge Discharged
Bi-annually

Sludge Discharged
3 Min. in 8 Hours
100,000 gal/day

**Lime
20 – 25 mg/L**

**Alum
5 mg/L
Fluoride
1 mg/L**

**Sodium Hypochlorite
1.25 mg/L**

**Polymer
2.4 mg/L**

**Sodium Hypochlorite
2.75 mg/L**

**Ammonia Sulfate
0.5 mg/L**

Secondary
Settling Basin
1 Million Gallons

Sludge Discharge
Twice Annually

Filter Feed Basin
500,000 Gallons

Filter Feed Basin
500,000 Gallons

Basin Cleaning
Twice Annually

FILTER

FILTER

FILTER

FILTER

UV
Reactor

Finish Water
Storage
2.5 Million Gallons

To Outfall 3,000'

Basin Wash
50,000 Gal/Filter
Approx. 3 Filters/Day

LEGEND

S Outfall Samples

**C
L** Indicates Sample Point
For Chlorine Residual,
Fluoride, & pH

