

**ALABAMA WATER & POLLUTION CONTROL ASSOCIATION'S  
SURFACE WATER SYSTEM "BEST OPERATED PLANT" GRADE SHEET**

Name of Plant or System: \_\_\_\_\_

**I. Raw Water Intake Equipment**

Total for Section I 0.00

**II. Flash Mixer / Flocculation**

Total for Section II 0.00

**III. Sedimentation Basins**

Total for Section III 0.00

**IV. Filtration**

Total for Section IV 0.00

**V. Clearwell**

Total for Section V 0.00

**VI. Chemical Feed Equipment**

Total for Section VI 0.00

**VII. Extra Equipment**

Total for Section VII 0.00

**VIII. Maintenance & Operation Records**

Total for Section VIII 0.00

**IX. Safety**

Total for Section IX 0.00

**X. Laboratory & Laboratory Equipment**

Total for Section X 0.00

**XI. Water Quality Performance**

Total for Section XI 0.00

**XII. Appearance**

Total for Section XII 0.00

**XIII. General**

Total for Section XIII 0.00

Total Score 0.00 (100 Possible Points)

Inspector: \_\_\_\_\_

Date of Inspection: \_\_\_\_\_

**I. Raw Water Intake Equipment****(Answer)****(Score)**

1. Has Generator  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

2. Operable Raw Water Flow Meter  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

3. Is Facility Visited Daily  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

4. Overall Condition  
(excellent = 1 good = .75 fair = .50 poor = 0)

\_\_\_\_\_

\_\_\_\_\_

**Total for section I** 0.00**II. Flash Mixer / Flocculation****(Answer)****(Score)**

1. Is Area Lighted  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

2. Is Area Free of Chemical Build Up  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

3. Floc Formation  
(excellent = 1 good = .75 fair = .50 poor = 0)

\_\_\_\_\_

\_\_\_\_\_

4. Overall Condition  
(excellent = 1 good = .75 fair = .50 poor = 0)

\_\_\_\_\_

\_\_\_\_\_

**Total for section II** 0.00**III. Sedimentation Basins****(Answer)****(Score)**

1. Is Area Lighted  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

2. Has Continuous Sludge Removal  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

3. Basin Free of Sludge Build-Up  
(yes = 1 no\* = -1)

\_\_\_\_\_

\* \_\_\_\_\_

4. Floc Settlement  
(excellent = 1 good = .75 fair = .50 poor = 0)

\_\_\_\_\_

\_\_\_\_\_

5. Overall Condition  
(excellent = 1 good = .75 fair = .50 poor = 0)

\_\_\_\_\_

\_\_\_\_\_

**Total for section III** 0.00

**IV. Filtration****(Answer)****(Score)**

1. All Loss of Head (DP) Indicators Operable  
(yes = 1 no\* = -1)

\_\_\_\_\_

\* \_\_\_\_\_

2. All Rate of Flow Indicators Operable  
(yes = 1 no\* = -1)

\_\_\_\_\_

\* \_\_\_\_\_

3. All Wash Water Agitators Operable  
(yes = 1 no\* = -1)

\_\_\_\_\_

\* \_\_\_\_\_

4. Surface of Media Clean  
(yes = 1 no\* = -1)

\_\_\_\_\_

\* \_\_\_\_\_

5. Media Level Checked During the previous 12 months  
at the Proper Level  
(yes = 1 no\* = -1)

\_\_\_\_\_

\* \_\_\_\_\_

6. Are Rake & Hookgagge or other Advanced Flow  
Rate Equipment Available  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

7. Is There a Standard Operating Procedure for  
Backwash  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

8. Are Rate of Flow Indicators Checked Using a  
Hookgagge  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

**Total for section IV** 0.00**V. Clearwell****(Answer)****(Score)**

1. Is Clearwell Properly Protected  
(yes = 1 no\* = -1)

\_\_\_\_\_

\* \_\_\_\_\_

2. Is Clearwell Level Indicator Working Properly  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

3. Overall Condition  
(excellent = 1 good = .75 fair = .50 poor = 0)

\_\_\_\_\_

\_\_\_\_\_

**Total for section V** 0.00

**VI. Chemical Feed Equipment**

**(Answer)**

**(Score)**

1. Spare Disinfectant Feeder  
(yes = 1 no\* = -1)

\_\_\_\_\_

\* \_\_\_\_\_

2. Spare Corrosion Control Feeder  
(yes = 1 no\* = -1)

\_\_\_\_\_

\* \_\_\_\_\_

3. Spare Coagulant Feeder  
(yes = 1 no\* = -1)

\_\_\_\_\_

\* \_\_\_\_\_

4. Is Weight of Chemical Usage Recorded  
(yes = 1 no = 0)

\_\_\_\_\_

\_\_\_\_\_

5. Overall Condition  
(excellent = 1 good = .75 fair = .50 poor = 0)

\_\_\_\_\_

\_\_\_\_\_

**Total for section VII** 0.00

**VII. Extra Equipment**

(1 Point Each)

**(Score)**

1. Fluoride Being Feed

\_\_\_\_\_

2. Corrosion Inhibitor Other Than Lime, Soda Ash,  
etc. Being Used

\_\_\_\_\_

3. Powdered Activated Carbon, Potassium Permanganate  
or other Oxidation Chemical is Being Feed

\_\_\_\_\_

4. Particle Counters or Advanced Turbidity Equipment  
Being Used

\_\_\_\_\_

**Total for section VIII** 0.00

**VIII. Maintenance & Operation Records**

**(Answer)**

**(Score)**

- |   |       |         |
|---|-------|---------|
| 1. Produces Monthly Operating Report for previous year<br>(yes = 1 no = 0)                                    | _____ | _____   |
| 2. Makes Monthly Determination of Unaccounted<br>for Water<br>(yes = 1 no* = -1)                              | _____ | * _____ |
| 3. Is Unaccounted for Water 15% or Less for the<br>Past Twelve (12) Months<br>(yes = 1 no = 0)                | _____ | _____   |
| 4. Are Turbidimeters Verified Daily & Calibrated<br>Quarterly<br>(yes = 1 no* = -1)                           | _____ | * _____ |
| 5. Records Indication Monthly Rate of Flow<br>Measurements on Each Filter<br>(yes = 1 no* = -1)               | _____ | * _____ |
| 6. Produces Bacteriological & Chemical Results for<br>previous year<br>(yes = 1 no = 0)                       | _____ | _____   |
| 7. Produces Standard Operating Jar Test Procedure for Facility<br>(yes = 1 no* = -1)                          | _____ | * _____ |
| 8. Produces Consumer Confidence Report for previous year<br>(yes = 1 no = 0)                                  | _____ | _____   |
| 9. Has Raw & Finished Water Flow Meters Been Calibrated<br>in the Past Twelve (12) Months<br>(yes = 1 no = 0) | _____ | _____   |
| 10. Does System Have a Cross-Connection Policy<br>(yes = 1 no = 0)  | _____ | _____   |
| 11. Calibration Charts for Feeders Updated Within<br>the Past Six (6) Months<br>(yes = 1 no = 0)              | _____ | _____   |

**Total for section IX 0.00**

<b>IX. Safety</b>	<b>(Answer)</b>	<b>(Score)</b>
1. Has Safety Displays & Posters (yes = 1 no = 0)	_____	_____
2. Gas Mask with Unexpired Canister or SCBA, or comparable Safety Equipment if Feeding Disinfectant Other Than Chlorine (yes = 1 no* = -1)	_____	* _____
3. Are all Areas of the Plant Safe to Work Except as Noted by Appropriate Signs (yes = 1 no = 0)	_____	_____
4. Can Produce Evidence of Completing any Safety or First Aid Seminar or Class (yes = 1 no = 0)	_____	_____
5. Does Disinfectant Rooms Have Proper Ventilation (yes = 1 no = 0)	_____	_____
6. Is an Operable Shower Available Near the Fluoride Area (yes = 1 no = 0)	_____	_____
<b>Total for section X</b>		<b><u>0.00</u></b>

<b>X. Laboratory &amp; Laboratory Equipment</b>	<b>(Answer)</b>	<b>(Score)</b>
1. Has Operable pH Meter (yes = 1 no* = -1)	_____	* _____
2. DPD Chlorine Test Kit or ADEM Approved Method for Chlorine Testing (yes = 1 no* = -1)	_____	* _____
3. Operable Zeta Meter or Streaming Current Monitor (yes = 1 no* = -1)	_____	* _____
4. Dated & Un-Expired Chemical Reagents (yes = 1 no* = -1)	_____	* _____
5. All Process Control & Tank Level Monitoring Equipment Operable & Calibrated Within the Past Year (yes = 1 no* = -1)	_____	* _____
6 Is There Equipment for Continuously Monitoring Turbidity (yes = 1 no = 0)	_____	_____
7. Overall Condition (excellent = 1 good = .75 fair = .50 poor = 0)	_____	_____
<b>Total for section XI</b>		<b><u>0.00</u></b>

**XI. Water Quality Performance (January - December)**

**(Score)**

- 1. Maximum Filter Effluent Turbidity is 0.10 NTU or Less  
(2 points) \_\_\_\_\_
- 2. "A" = Maximum Monthly Filtered Water Turdity: \_\_\_\_\_ NTU  
1.0 - "A" = "B" x 5 = Total Points \_\_\_\_\_
- 3. Fluoride Concentration Averaged Between 0.9 mg/L & 1.10 mg/L  
(2 points) \_\_\_\_\_
- 4. Settled Water Turbidity Averaged Less Than 1.0 NTU  
(2 points) \_\_\_\_\_
- 5. Plant is Approved for High Rate Filtration  
(1 Point) \_\_\_\_\_
- 6. TOC Results Reported to ADEM 1.0 or Greater  
(2 points) \_\_\_\_\_
- 7. DBP in Compliance for the Last Year  
(2 points) \_\_\_\_\_

**Total for section XII** 0.00

**XII. Appearance**

**(Answer)**

**(Score)**

- 1. Interior of the Plant  
(excellent = 5 good = 4 fair = 3 poor = 0) \_\_\_\_\_
- 2. Exterior of the Plant  
(excellent = 5 good = 4 fair = 3 poor = 0) \_\_\_\_\_
- 3. Overall Rating of the Plant  
(excellent = 5 good = 4 fair = 3 poor = 0) \_\_\_\_\_

**Total for section XIII** 0.00

**XIII. General**

**(Answer)**

**(Score)**

- 1. One Point for Each AWPCA Conference Attended in the Past  
Three (3) Years by Plant Personnel  
(Maximum of 3 Points) \_\_\_\_\_
- 2. One Point for Each Member of AWPCA  
(Maximum of 4 Points) \_\_\_\_\_
- 4. Overall Rating of Plant Operations  
(excellent = 5 good = 4 fair = 3 poor = 0) \_\_\_\_\_

**Total for section XIV** 0.00

**Total Score** 0.00