

**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* = -1) _____ *
- 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

Select Filter Type

IV. Filtration

Note: Scores doubled if Filter Type is "Membrane"

(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)

* _____ (Conventional Only)

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

* _____ (Conventional Only)

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

* _____ (Conventional Only)

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)

_____ (Conventional Only)

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 VI 0.00**VII. Extra Equipment****(Score)**

(1 Point Each)

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 VII 0.00

VIII. Maintenance & Operation Records**(Answer)****(Score)**

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

Total for section VIII 0.00

IX. Safety**(Answer)****(Score)**

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)

Total for section IX 0.00**X. Laboratory & Laboratory Equipment****(Answer)****(Score)**

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)

Total for section X 0.00

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 Performance Ratio Results Reported to ADEM 1.0 or Greater
(2 points) _____

- 7. DBP in Compliance for the Last Year
(2 points) _____

Total for section XI 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 XII 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 XIII 0.00

Total Score 0.00