

ALABAMA WATER & POLLUTION CONTROL ASSOCIATION
WASTEWATER PLANT EVALUATION REPORT
AWARDS COMMITTEE

FACILITY _____

OWNER _____

LOCATION _____

TYPE OF PLANT _____

AVERAGE DESIGN FLOW _____

Total Points _____

Total Items Evaluated _____

Final Score _____

Evaluator: _____ Date: _____

SECTION I Treatment Facility Operation & Maintenance

Rate each applicable item in this section by the following numbers:
Above Average (4 points), Average (3 points),
Fair (2 points), Poor (1 point)

A.) **Preliminary Treatment**

- 1. Pump Station (at treatment plant only) _____
- 2. Ventilation _____
- 3. Bar Screen (automatic and manual) _____
- 4. Disposal of Screenings (incineration, burial, landfill, etc.) _____
- 5. Comminutor _____
- 6. Grit Chamber (type _____) _____
- 7. Disposal of Grit (incineration, burial, etc.) _____
- 8. Other (odor control, rag collection etc.)
_____ _____

B.) **Primary Treatment**

- 1. Settling Tanks _____
- 2. Scum removal _____
- 3. Sludge Removal _____
- 4. Effluent _____
- 5. Other _____

C.) Secondary Treatment

- 1. Aeration Basins _____
- 2. Stabilization Lagoon
(Aerobic, Anaerobic, Facultative) _____
- 3. Aerated Lagoon _____
- 4. Trickling Filters _____
- 5. Settling Tanks _____
- 6. Sludge Removal _____
- 7. Effluent (percent removal BOD and/or S.S.)
(85% to 89 % = 2 Points, 90% to 94% = 3 Points,
95% to 99% = 4 Points) _____
- 8. Other _____

D.) Advanced Treatment

- 1. Settling Tanks _____
- 2. Nutrient removal (Nh₃, **Nitrates**, Phosphorous, etc.) _____
- 3. Sand Filter, Rotating Drum Filter, Fine Screen Filter,
Other Filter _____
- 4. Other _____

E.) Sludge Processing

1. Thickening (Type: Gravity Settling, Dissolved Air Flotation, etc.) _____
2. Digester (Aerobic , Anaerobic) _____
3. Dewatering (Heat-Electric or, Drying beds, Press, type _____ Centrifugal Force, etc.) _____
4. Other type (Digesters, Thickener, or Dewatering Process) _____
5. Process Control and Monitoring data maintained (pH, MLSS, Temperature, % Solids, D. O., Gas Production, Etc.) _____
6. Equipment maintained (Blowers, Aerators, Pumps, Press, Centrifugal, etc.) _____
7. Other _____

F.) Sludge Disposal

1. Disposal of Sludge (Land Application, Surface Disposal, Subtitle " D " Landfill, Incineration, etc.) _____
2. Process Control and Monitoring data maintained (TCLP's 503 Metals, etc.) _____
3. Equipment maintained (Pumps, Trucks, etc.) _____
4. Other _____

G.) Disinfection Process

Chlorination, Ozone, Ultraviolet Light, Other _____

1. Process Control and Monitoring data maintained (Chlorine Residual, Fecal Coliform, Other _____) _____
2. Disinfection Method Effective _____
3. Chlorine Testing Equipment meets NPDES permit requirements (Amperometric Titration Method or DPD Colorimetric Method) _____
4. Contact Tank _____
5. Disinfection Rooms _____
6. Equipment maintained (Chlorinators, U.V. unit, Pumps, etc.) _____
7. Full Face Shield (100 %) U. V. Block out for U. V. lights _____

H.) De-Chlorination Process

Sulfur Dioxide, Other _____

1. Process Control and Monitoring data maintained (Chlorine Residual, Fecal Coliform or E.coli, Other _____) _____
2. De-Chlorination Method Effective _____
3. Chlorine Testing Equipment meets NPDES permit requirements (Amperometric Titration Method or DPD Colorimetric Method) _____
4. De-Chlorination Rooms _____
5. Equipment maintained (De-Chlorinators, Pumps, etc.) _____

I.) Control Procedure

1. Process Control and Monitoring data maintained _____

Examples:

(MLSS, SVI, F/M Ratio, MCRT, Sludge Age, Detention Time, Waste, Return, Recirculation, Influent & Effluent Flows, Organic Loading, Percent Removal, (BOD, S. S. Nh3-N) etc.)

A. NPDES Monitoring data only (2 points)

B. NPDES and Process Control data only (3 points)

C. NPDES and Process Control data with Trend Charts (4 points)
(Graphs)

2. Laboratory: Sampling, Testing & Quality Control (4 points max) _____

A. Quality Control checks (Duplicate Test), Equipment and Chemical Quality Control Program (1 points)

B. All of (A) plus a sampling and Preservative Program and a Chain Of custody record for all outside Lab testing. (2 points)

C. All of (A & B) plus participating in the U. S. (EPA) Environmental Protection Agency and State (QA) Quality Assurance Program . (3 points)

D. Are operators tested for proficiency of laboratory sampling and testing (performance efficiency testing by a third party laboratory) (4 points)

3. Laboratory Equipment Maintained _____

4. Other _____

J.) Records Inventory and Calibration

1. Records (Laboratory, Maintenance, etc.) _____

2. Spare Parts _____

3. Maintenance Schedules _____

4. Meters & Balance (Calibrated, etc.) _____

GENERAL INFORMATION

SECTION II

Rate each item by the following number:
Above Average (4 points), Average (3 points), Fair (2 point),
Poor (1 point)

K.) Appearance & Attitude

- 1. Interior of Facilities _____
- 2. Exterior of facilities _____
- 3. Attitude of operators _____
- 4. Overall operations _____
- 5. Overall Maintenance _____

L.) Safety

- 1. One point for in house safety meetings held regularly _____
Four points for certified classes taught by outside instructors _____
- 2. Appropriate warning signs posted _____
(Entrance gates, and throughout the plant, etc.)
- 3. Life ropes & life preservers or shepherd hooks provided _____
- 4. Self-Contained Breathing Apparatus provided _____
- 5. Material Safety Data Sheets (MSDS) provided _____
- 6. Written Emergency Preparedness Plan _____

M.) Certification & AWPCA Affiliation

- 1. Is plant staffed according to ADEM requirements
(certified operators: YES= 4 points – NO = 0 points) _____
- 2. One point for each short Course school attended in the last four years
(maximum 4 points) _____
- 3. One point for each member of AWPCA
(maximum 4 points) _____

N.) General

- 1. Standby power provided _____
- 2. Alarm system provided _____
- 3. NPDES permit available _____
- 4. Current (last 12 months) Discharge Monitoring Reports
available _____
- 5. Current Water Pollution Prevention (MWPP) Report
available (Score according to point total on MWPP;
0 points = 4, 1-70 points = 3, 71-120 points = 2,
121-783 points = 1) _____
- 6. Sample points clearly marked _____
- 7. Operation & Maintenance Manual available _____

Bonus Energy Efficient Initiatives and Facility Age

- Co-Generation (methane production and reuse, etc.) (4 points)
- Energy efficient lighting (LED, T5 Florescent lights, and
occupancy sensors) (4 points)
- Energy efficient equipment (blowers, pumps, VFD, etc.) (4 points)

- Assign the following points accordingly:
- If facility operating greater than: 20 years (4 points)
 - Plant age is counted from startup: or if 16 - 20 years (3 points)
 - There has been a major upgrade from the 10 - 15 years (2 points)
 - Time the construction was completed. 6 - 9 years (1 point)
 - 3 - 5 years (0 points)

Date began operation: _____ Current Year _____ Year Began _____

Scoring Sheet Lagoon

1. Write in the score and number of items inspected for each sub-part of section I. Divide the total points in section I by the total number of items evaluated in Section I, multiply by 100, then divide by 5. This is the score for section I.
2. Write in the score and number of items inspected for each sub-part of section II. Take the total points for section II and divide by 2 to get the score for section II.
3. Add the score for section I and section II to obtain final score and place all totals and scores on the front page where indicated.

Section I	Score	Number of items
A	_____	_____
B	_____	_____
C	_____	_____
D	_____	_____
E	_____	_____
Total	_____	_____
Divide Score by Number of Items Evaluated		_____
Multiply by 100		_____
Divide By 5. This is the score for section I.		_____

Section II	Score	
F	_____	
G	_____	
I	_____	
J	_____	
Total		_____
Divide by 2. This is the score for section II.		_____

Section I Total _____
Section II Total _____

Plant Score Is:

Scoring Sheet

Write in the score and number of items inspected for each section. Total the score and total the items. Divide the score by the items. Multiply that result by 100. Add the bonus points to that number and divide by 4. This will be the final result for the plant score.

Section	Score	Number of Items
A.	_____	_____
B.	_____	_____
C.	_____	_____
D.	_____	_____
E.	_____	_____
F.	_____	_____
G.	_____	_____
H.	_____	_____
I.	_____	_____
J.	_____	_____
K.	_____	_____
L.	_____	_____
M.	_____	_____
N.	_____	_____
Total	_____	_____

Divide Score By Item:

Multiply by 100

Add Bonus Points:

Divide By 4

PLANT SCORE IS