

# Compliance Maintenance Annual Report

My Wastewater Treatment Facility

Last Updated: Reporting For:  
3/30/2020 **2019**

## Ponds And Lagoon Leakage

### 1. Pond Lining

1.1 What material was used to line your ponds?

### 2. Flow Measurements

2.1 Did you measure influent flow to your wastewater ponds or lagoons?

- Yes (0 points)   
 No (40 points) (Go to question 6)

2.1.1 Method of influent flow measurement:

2.2 Did you measure effluent flow discharged from your wastewater system either to the land disposal system or to the receiving stream?

- Yes (0 points)   
 No (40 points) (Go to question 6)   
 No Discharge (0 points)

2.2.1 Method of effluent flow measurement:

0

### 3. Total Flow Volumes

3.1 Total monthly influent and effluent flow volumes from the pond/lagoon system during the last calendar year.

Total Monthly Influent Volume		Total Monthly Effluent Volume
2.9799	JANUARY	3.1269
2.6774	FEBRUARY	3.2781
2.766583	MARCH	2.9522
2.491865	APRIL	3.3133
2.584027	MAY	2.9855
2.234828	JUNE	2.4413
1.307991	JULY	2.4978
2.978751	AUGUST	2.4811
2.973182	SEPTEMBER	2.6654
3.701501	OCTOBER	3.4207
3.196495	NOVEMBER	3.0537
3.148952	DECEMBER	3.3331
<b>33.0415</b>	<b>YEARLY TOTAL</b>	<b>35.5491</b>

3.2 From the Yearly Total influent and effluent volumes above, total effluent is divided by total influent and converted to a percent of volume loss.

$$\begin{array}{rclcl}
 \text{Total effluent, MG} & \Rightarrow & 35.5491 & & \\
 \text{-----} & & \text{-----} & = & 1.076 <= \text{effl / infl ratio} \\
 \text{Total influent, MG} & \Rightarrow & 33.0415 & & 
 \end{array}$$

Conversion to a percent of volume loss:

$$(1 - \text{effl/infl ratio}) * 100 = -7.6 \quad \% \text{ of influent lost and not discharged with effluent}$$

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## 4. Surface Area

4.1 What was the total wastewater surface area of the ponds/lagoons at operating level (do not include seepage cells)?

Acres

## 5. Leakage Rate Estimation

5.1 Total influent volume (in MG) minus total effluent volume (in MG) plus or minus the change in pond/lagoon storage (in MG) is the net wastewater loss. The net loss divided by 0.000365 equals the estimated leakage amount in gpd.

Total Annual Influent (MG)	33.0415	
Total Annual Effluent (MG)	35.5491	
Estimated Net Loss (MG)	-2.5076	
Estimated Leakage Amount (gpd)		-6870

If you have a \*Department approved\* method for determining a change in storage volume, enter the storage change last year in MG below.

o Storage Increase: Enter amount in MG ->

o Storage Decrease: Enter amount in MG ->

5.2 CMAR Estimated Leakage Rate in gallons per acre per day (gpac): The CMAR Estimated Leakage Rate in gpac is the leakage amount in gpd (from part 5.1) divided by the total pond surface area (from question 4).

Leakage Amount (gpd)		Acres		CMAR Estimated Leakage Rate
-6870	divided by		=	

## 6. On Site Leakage Testing

6.1 Did you conduct an on-site, field water balance/leakage test on your ponds or lagoons that was approved by the Department and is still valid?

o Yes Year

o No

If yes, what was the field Test Calculated Leakage Rate for your ponds/lagoons?

gpac

NOTE: if 6.1 is answered Yes, the value entered above in gpac will be used in 7.1 to compute points generated.

6.2 Leakage Rate Comments:

## 7. Estimated Leakage Rate and Points

7.1 The CMAR Estimated Leakage Rate (from 5) is used to determine the points generated in the table below.

If an approved field test was conducted and the results are still valid and accepted by the Department, the Field Calculated Leakage rate (from 5.2) is used to determine the points earned from the table below

gpac	points
0 - 1,000	0
1,001 - 2,000	10
2,001 - 4,000	20
4,001 - 7,000	30
> 7,000	40

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Based on the leakage rate in gpad, the points earned are:	<b>0</b>
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<b>Total Points Generated</b>	
<b>Score (100 - Total Points Generated)</b>	
<b>Section Grade</b>	