



**Environmental
Protection Agency**

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korteski, Director

Re: Erie County
Kelleys Island
Village Pump
NPDES Permit

October 4, 2010

Mr. Gary Finger, Owner
The Village Pump
P.O. Box 76
Kelleys Island, Ohio 43440

Dear Mr. Finger:

On September 21, 2010, an inspection was made of the wastewater treatment facilities serving The Village Pump. In general, both operation and maintenance of the plant appeared good. All major treatment components were in operation, and a clear final effluent was observed being discharged from the plant. The sand filters were drained, and disinfection and dechlorination tablets were present in the tube feeders. An experimental post aeration unit consisting of a residential fish tank aerator was installed to address low dissolved oxygen levels in July. Permanent post aeration facilities should be installed prior to next season.

Monthly discharge monitoring reports are being received and violations were reported in July and August. A copy of the violations is enclosed to review with your operator.

Your NPDES permit draft renewal has been issued. You should review it carefully, as there is a 30 day comment period to respond to any permit conditions. Once issued as a final document, it will remain in effect for another five year period.

Please find enclosed my inspection report. If you have any questions, please call me at (419) 373-3020 or email at rick.zuzik@epa.state.oh.us.

Sincerely,



Richard A. Zuzik, MSE
Division of Surface Water

/lb

pc: Rob Strahm, Bluffton Aeration Service
Erie County Health Department

~~NWDO file~~

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION
 WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PRO0083

Facility Name Village Pump Expiration Date Draft renewal issued

Facility Address Lakeshore/Downtown Date 9-21-10 Time 1:20 am pm

City Kelleys Island County Erie Township -

Name and Address of Owner Gary Finger

Person Contacted Gary Owner Phone (419) 746-2241

Flow: Design 14,000 GPD Present GPD (metered - estimated)

Trib. Pop. Pump/By the Moor (actual - estimated) Weather at time of inspection: Temp 80° Clear

OEPA Personnel Rick Zuzik District NWDO

1. Plant Effluent - Mark Severity No. - In Sampling MH

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
<input checked="" type="radio"/> 0	None	<input checked="" type="checkbox"/>	Clear	<input checked="" type="checkbox"/>	None	<input checked="" type="checkbox"/>	Colorless
<input type="radio"/> 1	Mild	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="radio"/> 2	Moderate	<input type="checkbox"/>	Light Solids	<input type="checkbox"/>	Musty	<input type="checkbox"/>	Grey
<input type="radio"/> 3	Serious	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="radio"/> 4	Extreme	<input type="checkbox"/>	Heavy Solids	<input type="checkbox"/>	Septic	<input type="checkbox"/>	Black

2. Effect of effluent on Receiving Stream Name: L. Erie - Not Observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
<input type="radio"/> 0	None	<input type="checkbox"/>	Clear	<input type="checkbox"/>	None	<input type="checkbox"/>	Colorless
<input type="radio"/> 1	Mild	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="radio"/> 2	Moderate	<input type="checkbox"/>	Light Solids	<input type="checkbox"/>	Musty	<input type="checkbox"/>	Grey
<input type="radio"/> 3	Serious	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
<input type="radio"/> 4	Extreme	<input type="checkbox"/>	Heavy Solids	<input type="checkbox"/>	Septic	<input type="checkbox"/>	Black

3. a. Plant has excellent good fair poor operation
 b. Plant has excellent good fair poor maintenance
 c. Sand filters have excellent good fair poor maintenance

d. Not operating at expected efficiency due to:

Disinfection: (Required May 1 thru Oct. 31)

IN	OUT	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Chlorination Tablets
<input type="checkbox"/>	<input type="checkbox"/>	Dechlorination Tablets
<input type="checkbox"/>	<input type="checkbox"/>	Ultraviolet (U.V.)

Yes No (May 1 - Aug 28)

4. Compliance with NPDES Permit
 Periodic Violations N Parameters: Ammonia, TSS, D.O, Cl2
 Chronic Violations

5. Adequate plant safety
 6. Operation and Maintenance Service Name Bluffton Aeration
 Frequency of Visits 1/WK

Facility Name: Village Pump

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	2	Trash Trap	Pumping Frequency
	2	Grease Trap	Pumping Frequency
		Bar Screen	
		Comminutor	
	1	Flow Equalization	<i>IN</i>
Aeration Equipment		Plant Timer ___ Y ___ N	Cycle Time:
	2	Motor / Blower Unit	
Secondary Treatment	2	Aeration Tank	Color: <i>Brown</i> Adequate Aeration Y <input checked="" type="checkbox"/> N
Final Settling	1	Clarifier	OK
	2	Sludge Return	In <input checked="" type="checkbox"/> Out
	2	Surface Skimmer	In <input checked="" type="checkbox"/> Out
		Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	<i>Good</i>
		Polishing Pond	
		Other	
Disinfection	2	Contact Tank / <i>De Chlor</i>	
	1	Chlorine Tube Feeder	<i>IN</i>
	1	Dechlorination Tube Feeder	<i>IN</i>
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps	1	Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	<input checked="" type="checkbox"/>	Post Aeration	<i>Temp fish aerator</i>
		Spray Irrigation	
	1	Other <i>Sampling MH</i>	

5/0 - 8/28/10

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00083*CD	July 2010	001	50060	Chlorine, Total Residu	1D Conc	0.038	.05	7/15/2010
2PR00083*CD	July 2010	001	00300	Dissolved Oxygen	1D Conc	5.0	4.	7/15/2010
2PR00083*CD	August 2010	001	00530	Total Suspended Solids	30D Conc	12	20.	8/1/2010
2PR00083*CD	August 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	2	3.78	8/1/2010
2PR00083*CD	August 2010	001	00530	Total Suspended Solids	1D Conc	18	20.	8/3/2010
2PR00083*CD	August 2010	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	3	3.78	8/3/2010
2PR00083*CD	August 2010	001	50060	Chlorine, Total Residu	1D Conc	0.038	7.9	8/24/2010



**Environmental
Protection Agency**

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korfeski, Director

Re: Erie County
Kelleys Island
Village Pump
NPDES Permit

August 18, 2010

Mr. Gary Finger, Owner
The Village Pump
P.O. Box 76
Kelleys Island, Ohio 43440

Dear Mr. Finger:

On July 21, 2010, an inspection was made of the wastewater treatment facilities serving The Village Pump. In general, both operation and maintenance of the plant appeared good. All major treatment components were in operation, and a clear final effluent was observed being discharged from the plant. The sand filters were drained, and disinfection and dechlorination tablets were present in the tube feeders. You indicated that operations have improved since the feed rate of the flow equalization had been adjusted last fall.

Monthly discharge monitoring reports are being received and have indicated full compliance since the beginning of the year. This is a dramatic improvement over past years, and directly attributable to the flow equalization adjustments and ability to handle flow surges.

Your NPDES permit renewal has been drafted and you will be receiving a draft copy of the permit renewal. You should review it carefully, as there is a 30 day comment period to respond to any permit conditions. Once issued as a final document, it will remain in effect for another five year period.

Please find enclosed my inspection report. If you have any questions, please call me at (419) 373-3020 or email at rick.zuzik@epa.state.oh.us.

Sincerely,



Richard A. Zuzik, MSE
Division of Surface Water

/lb

pc: Rob Strahm, Bluffton Aeration Service
Erie County Health Department

INWDO file

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION
WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PR00083

Facility Name Village Pump Expiration Date 8-31-10

Facility Address Lake Shore / Downtown Date 7-21-10 Time 1:00 am pm

City Kelleys Island County Erie Township ---

Name and Address of Owner Gary Finger

Person Contacted Gary Owner Phone (919) 746-2291

Flow: Design 14,000 GPD Present --- GPD (metered - estimated)

Trib. Pop. Pump / Bag the Man (actual - estimated) Weather at time of inspection: Temp 90° Clear

OEPA Personnel Bick Zuzik District NWDO

1. Plant Effluent - Mark Severity No. - In decolor tank

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
<u>0</u>	None		Clear		None		Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

2. Effect of effluent on Receiving Stream Name: L. Erie - Not Observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

3. a. Plant has --- excellent ✓ good --- fair --- poor operation
 b. Plant has --- excellent ✓ good --- fair --- poor maintenance
 c. Sand filters have --- excellent ✓ good --- fair --- poor maintenance
 d. Not operating at expected efficiency due to:

- (1) --- hydraulic overload
 (2) --- organic/solids overload
 (3) --- personnel inefficiency
 (4) --- equipment failure
 (5) --- wastes
 (6) ---

Disinfection: (Required May 1 thru Oct. 31)

IN	OUT	
<u>✓</u>	<u>---</u>	Chlorination Tablets
<u>✓</u>	<u>---</u>	Dechlorination Tablets
<u>---</u>	<u>---</u>	Ultraviolet (U.V.)

Yes No (1/10 - 7/10)

4. Compliance with NPDES Permit
 Periodic Violations Y N Parameters: ---
 Chronic Violations ---

5. Adequate plant safety
 6. Operation and Maintenance Service Name Blufflow Aeration
 Frequency of Visits 1/wk

Facility Name: Village Pump

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	2	Trash Trap	Pumping Frequency
	2	Grease Trap	Pumping Frequency
		Bar Screen	
		Comminutor	
	1	Flow Equalization	IN Adjusted feed rate
Aeration Equipment		Plant Timer ___Y ___N	Cycle Time:
	2	Motor / Blower Unit	
Secondary Treatment	2	Aeration Tank	Color: Brown Adequate Aeration Y <input checked="" type="checkbox"/> N
Final Settling	1	Clarifier	clear, some scum
	2	Sludge Return	In <input checked="" type="checkbox"/> Out
	2	Surface Skimmer	In Out
		Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	Good, No ponding
		Polishing Pond	
		Other	
Disinfection	2	Contact Tank / Dechlor tank	IN very clear
	1	Chlorine Tube Feeder	IN
	1	Dechlorination Tube Feeder	IN
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps	1	Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	
Sludge Handling	1	Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	<input checked="" type="checkbox"/>	Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	