



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

Re: **Notice of Violation**  
Erie County  
Cottages of Beulah Beach  
NPDES Permit

September 13, 2013

Mr. Brian Boesch, Director  
Beulah Beach Christian Community  
6101 West Lake Road  
Vermilion, Ohio 44089

Dear Mr. Boesch:

On September 3, 2013, an inspection was made of the wastewater treatment plant (WWTP) serving Beulah Beach Cottages. My comments and recommendations are as follows:

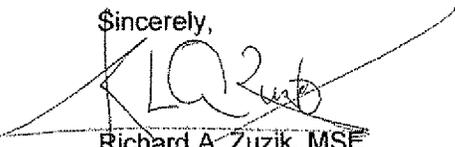
Both operation and maintenance were poor. The plant was operating; however, the clarifier was very turbid, with bulking solids on the surface and in the weir. The sand filter in use was ponded. The dechlorination unit cover was missing and should be replaced. Final effluent quality was marginal. Monthly discharge monitoring reports are being received in a timely manner and multiple violations of your National Pollutant Discharge Elimination System (NPDES) permit were reported for the June 2013 quarterly reporting period. A copy of the violations is enclosed to review with your operator.

I am concerned over this facility, as each year operational issues appear resulting in a deteriorated effluent quality. Also enclosed are copies of last year's August 8, 2012, inspection letter indicating the plant's poor condition and December 27, 2012, letter informing you that the plant is in significant non-compliance with your NPDES permit.

The main treatment facility serving Beulah Beach was abandoned approximately two years ago and tapped into the Erie County regional sanitary sewer system. Due to the age of the facility and ongoing operational issues, I am asking you to explore the abandonment of this smaller plant and also connect into the sanitary sewer. Please notify me within 14 days of your intentions to address this issue.

Please find enclosed a copy of my inspection report. If there are any errors, or if you have any questions, please call me at (419) 373-3020 or email at [rick.zuzik@epa.ohio.gov](mailto:rick.zuzik@epa.ohio.gov).

Sincerely,



Richard A. Zuzik, MSE  
Division of Surface Water

/jlm  
Enclosures  
pc: Eastwood Environmental  
Erie County Health Department  
ec: Tracking

Get New Data								
Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00168*CD	June 2013	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	27.5	6/1/2013
2PR00168*CD	June 2013	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	27.5	6/8/2013
2PR00168*CD	June 2013	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.015	.15613	6/1/2013
2PR00168*CD	June 2013	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.023	.15613	6/8/2013
2PR00168*CD	June 2013	001	31648	E. coli	30D Conc	126	150.	6/1/2013

OHIO ENVIRONMENTAL PROTECTION AGENCY  
 OPERATION AND MAINTENANCE INSPECTION  
 WWTP'S LESS THAN 150,000 GPD

NPDES Permit No. 2PRO0168\*CD

Facility Name Cottages of Beulah Beach Expiration Date 5-31-17  
 Facility Location 5919 West Lake Rd Date 9-3-13 Time 11:40 AM  
 City \_\_\_\_\_ County Erie Township Vermilion  
 Name of Owner Beulah Beach Church Community Owner Phone (440) 967-4861  
 Person Contacted none Operator of Record Eastwood Env.  
 Flow: Design 4000 GPD WWTP Classification:  A or  I  
 Trib. Pop. 28 Cottages (actual) (estimated) Weather at time of inspection: Temp 60° Cloudy  
 OEPA Personnel Rick Zuzik District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	Turbidity	Odor	Color
0	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: Trib to Lake Erie

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
None	Mild	Moderate	Serious

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- N/A

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

Yes No

4.  Compliance with NPDES Permit - Time Period: 1/13 to 8/13

Periodic Violations  Y  N Parameters: Ammonia, Bacteria

Chronic Violations \_\_\_\_\_

5.  O & M logbook kept and available on site; Location PVC Pipe

6.  Staffing Requirement Met (Class A - 2 days per week for minimum 1 hour per week)  
 (Class I - 3 days per week for minimum 1.5 hours per week)

7.  Adequate Plant Safety: Deficiencies \_\_\_\_\_

Facility Name: Cottages of Beach Beach

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



John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Reilly, Director

Re: Notice of Violation  
Erie County  
Cottages at Beulah Beach  
Ohio EPA Permit No.2PR00168\*CD

December 27, 2012

Mr. Ralph Trainer, Executive Director  
The Cottages at Beulah Beach  
6101 West Lake Road  
Vermilion, Ohio 44089

Dear Mr. Trainer:

A review of the self-monitoring reports that are submitted under the National Permit Discharge Elimination System (NPDES) permit for The Cottages at Beulah Beach wastewater treatment plant (WWTP) shows that this facility is in significant non-compliance (SNC) for Total Suspended Solids, COD5, and Nitrogen, Ammonia at final outfall Number 001. I am enclosing a list of violations for this facility for the period of January 1, 2012, through November 30, 2012.

A facility becomes SNC when it exceeds the effluent limit for four or more months in two consecutive quarters or exceeds the effluent limit significantly in any two months in two consecutive quarters. Achieving compliance with Ohio's environmental laws is a primary focus of Ohio EPA in order to reduce risks to public health and welfare.

Before we initiate enforcement action, we would like to work with you to achieve satisfactory progress to bring this facility back into compliance. Within 21 days of the date of this letter, please submit, in writing, the actions that you propose to undertake in order to return your facility into compliance with your NPDES permit. You will also need to provide us a timetable to implement these actions within a reasonable timeframe. These actions and timetable may also be submitted by email to me at [rick.zuzik@epa.ohio.gov](mailto:rick.zuzik@epa.ohio.gov).

If you wish to meet with us to discuss this matter, please contact me at 419-373-3020 within 10 days of receiving this letter in order to set up a meeting.

Sincerely,

  
Richard A. Zuzik, MSE  
Division of Surface Water

/jlm

Enclosure

pc: Eastwood Environmental- ORC  
ec: Tracking

Sample ID	Reported Date	Sample	Parameter	Unit	Value	Reported Value	Collection Date
2PR00168*CD	June 2012	001	00530	Total Suspended Solids	30D Conc	12.0	23.
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	71.3
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.015	.15192
2PR00168*CD	June 2012	001	80082	CBOD 5 day	30D Conc	10.0	48.
2PR00168*CD	June 2012	001	00530	Total Suspended Solids	7D Conc	18.0	23.
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	71.3
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.023	.15192
2PR00168*CD	June 2012	001	80082	CBOD 5 day	7D Conc	15.0	48.
2PR00168*CD	July 2012	001	00530	Total Suspended Solids	30D Conc	12.0	27.
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	66.5
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.015	.15102
2PR00168*CD	July 2012	001	80082	CBOD 5 day	30D Conc	10.0	20.
2PR00168*CD	July 2012	001	00530	Total Suspended Solids	7D Conc	18.0	27.
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	66.5
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.023	.15102
2PR00168*CD	July 2012	001	80082	CBOD 5 day	7D Conc	15.0	20.
2PR00168*CD	August 2012	001	00530	Total Suspended Solids	30D Conc	12.0	72.
2PR00168*CD	August 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	29.3
2PR00168*CD	August 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.015	.06654
2PR00168*CD	August 2012	001	80082	CBOD 5 day	30D Conc	10.0	77.
2PR00168*CD	August 2012	001	80082	CBOD 5 day	30D Qty	0.15	.17487
2PR00168*CD	August 2012	001	00530	Total Suspended Solids	7D Conc	18.0	72.
2PR00168*CD	August 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	29.3
2PR00168*CD	August 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.023	.06654
2PR00168*CD	August 2012	001	80082	CBOD 5 day	7D Conc	15.0	77.
2PR00168*CD	September 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	7.8
2PR00168*CD	September 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	12.3
2PR00168*CD	September 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.015	.02793
2PR00168*CD	September 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.023	.02793
2PR00168*CD	September 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	3.3
2PR00168*CD	October 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	1.3
2PR00168*CD	October 2012	001	31648	E. coli	30D Conc	126	356.931
2PR00168*CD	October 2012	001	31648	E. coli	7D Conc	284	2600.



Environmental  
Protection Agency

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Naily, Director

Re: Erie County  
Cottages of Beulah Beach  
NPDES Permit

August 28, 2012

Mr. Brian Boesch, Director  
Beulah Beach Christian Community  
6101 West Lake Road  
Vermilion, Ohio 44089

Dear Mr. Boesch:

On August 8, 2012, an inspection was made of the wastewater treatment plant (WWTP) serving Beulah Beach Cottages. The main treatment plant serving Beulah Beach was tied into the Erie County sanitary sewer last year, and has been properly abandoned. My comments and recommendations are as follows:

I was disappointed to once again find unacceptable conditions at this facility. Both operation and maintenance were poor. The plant was operating; however, the clarifier was turbid grey, with large solids on the surface, and in the weir. The sand filter in use was three-quarters full of septic effluent with mosquito larvae present. The dechlorination unit was missing and final effluent quality very turbid.

I informed Eastwood Environmental, your contract operator, of the poor condition of the facility and to provide service as soon as possible. I was later informed of and provided pictures of improvements made to address the above noted deficiencies. The plant aeration and settling tanks, trash trap and chlorine contact tank and sand filter beds were all pumped, and the dechlorination unit was replaced. The motor/blower unit, which was deemed inadequate and a major factor contributing to the poor operation, was replaced with a larger unit to provide additional oxygen.

Monthly discharge monitoring reports are being received in a timely manner and indicate multiple violations of your National Pollutant Discharge Elimination System (NPDES) permit thus far this year. A copy of the violations is enclosed to review with your operator. I will accept the above improvements as your action to improve compliance; however, a more proactive approach needs to be developed to prevent the reoccurrence of these conditions.

Please find enclosed a copy of my inspection report. If there are any errors, or if you have any questions, please call me at (419) 373-3020 or email at [rick.zuzik@epa.state.oh.us](mailto:rick.zuzik@epa.state.oh.us).

Sincerely,



Richard A. Zuzik, MSE  
Division of Surface Water

/jlm

Enclosures

pc: Eastwood Environmental  
Erie County Health Department  
ec: Tracking

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PRO0168\*CD

Facility Name Cottages of Beulah Branch Expiration Date 5-31-17  
 Facility Address 5919 West Lake Rd Date 8-8-12 Time 12<sup>00</sup> am/pm (am)  
 City - County Erie Township Vermilion  
 Name and Address of Owner Beulah Branch Church Community, Brian Baesch, Exec. Dir.  
 Person Contacted None Owner Phone (440) 967-9861  
 Flow: Design 4000 GPD Present \_\_\_\_\_ GPD (metered - estimated)  
 Trib. Pop. 28 Cottages (actual - estimated) Weather at time of inspection: Temp 80 ° Clear  
 OEPA Personnel Rick Zuzik District NWDO

1. Plant Effluent - Mark Severity No.

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

2. Effect of effluent on Receiving Stream Name: Trib to 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	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Chlorination Tablets
<input type="checkbox"/>	<input type="checkbox"/>	Dechlorination Tablets - <i>New unit provided after inspection</i>
<input type="checkbox"/>	<input type="checkbox"/>	Ultraviolet (U.V.)

Yes No

(1/12 - 7/28/12)

4.  Compliance with NPDES Permit

Periodic Violations Y N Parameters: \_\_\_\_\_

Chronic Violations  Ammonia, TSS, C BOD<sub>5</sub>

5.  Adequate plant safety

6.  Operation and Maintenance Service

Name Eastwood Env.  
 Frequency of Visits 2x/week  
Class A

Facility Name: Cottages of Beulah Beach

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	/	Trash Trap	Pumping Frequency
		Grease Trap	Pumping Frequency
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	/	Piant Timer ____Y ____N	Cycle Time:
		Motor / Blower Unit	<i>New larger unit installed after visit</i>
Secondary Treatment	/	Aeration Tank	Color: <i>grey</i> - Adequate Aeration Y N <input checked="" type="checkbox"/>
Final Settling	/	Clarifier	<i>Very poor - grey solids</i>
		Sludge Return	In <input checked="" type="checkbox"/> Out
		Surface Skimmer	In <input type="checkbox"/> Out <input checked="" type="checkbox"/>
		Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	<i>1 ponded w/ mosquito</i>
		Polishing Pond	<i>- cleaned after visit</i>
		Other	
Disinfection	/	Contact Tank	<i>very turbid</i>
		Chlorine Tube Feeder	<i>in</i>
		Dechlorination Tube Feeder	<i>Replaced after visit</i>
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
		Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

1/12 - 7/28/12

Form No.	Reporting Date	Station	Reporting Code	Parameter	Unit	Value	Reported Value	Reported Date
2PR00168*CD	June 2012	001	00530	Total Suspended Solids	30D Conc	12.0	23.	6/1/2012
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	71.3	6/1/2012
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.015	.16192	6/1/2012
2PR00168*CD	June 2012	001	80082	CBOD 5 day	30D Conc	10.0	48.	6/1/2012
2PR00168*CD	June 2012	001	00530	Total Suspended Solids	7D Conc	18.0	23.	6/22/2012
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	71.3	6/22/2012
2PR00168*CD	June 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.023	.16192	6/22/2012
2PR00168*CD	June 2012	001	80082	CBOD 5 day	7D Conc	15.0	48.	6/22/2012
2PR00168*CD	July 2012	001	00530	Total Suspended Solids	30D Conc	12.0	27.	7/1/2012
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	66.5	7/1/2012
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.015	.15102	7/1/2012
2PR00168*CD	July 2012	001	80082	CBOD 5 day	30D Conc	10.0	20.	7/1/2012
2PR00168*CD	July 2012	001	00530	Total Suspended Solids	7D Conc	18.0	27.	7/22/2012
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	1.5	66.5	7/22/2012
2PR00168*CD	July 2012	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	0.023	.15102	7/22/2012
2PR00168*CD	July 2012	001	80082	CBOD 5 day	7D Conc	15.0	20.	7/22/2012