



**Environmental
Protection Agency**

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

Re: Erie County
Kelleys Island
Island Venture
NPDES Permit

June 20, 2012

Mr. Ray Bauman
Muirwood Village
101 Lands Rush
Sandusky, Ohio 44870

Dear Mr. Bauman:

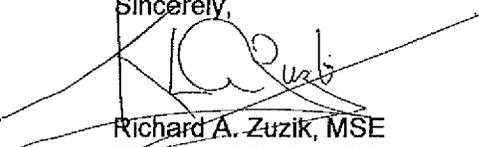
On May 22, 2012, an inspection was made of the sewerage facilities serving the Island Venture resort. At the time of my visit, all major treatment components were in operation and a clear final effluent was observed being discharged from the plant. One of the sand filters was ponded and should be switched, and the post aeration was out of service. Your National Pollutant Discharge Elimination System (NPDES) permit was recently issued, effective July 1, 2012, and will remain in effect for another five year period.

NPDES permit discharge monitoring reports are being received and a review of the 2011 system indicated numerous ammonia violations throughout the primary tourist season. Deficiencies in the equalization tank and pump station were corrected and the pool backwash line was relocated last fall. I discussed the ammonia violation issue with Derrick Chennault, your operator, during the NPDES permit renewal process, and he agreed to also begin monitoring the impact of the laundry. If the violations continue, he indicated that it may be necessary to feed Sodium Bicarbonate, a chemical to enhance ammonia removal. I will closely monitor this situation. Enclosed is a copy of the violations to review with your operator.

Your NPDES permit now includes new operator certification rules that require visits two days/week for a minimum of one hour/week. Documentation in the form of a logbook must be kept on-site for Ohio EPA review.

I will be making additional visits during the summer season to observe the plant under midseason operating conditions. Enclosed is our 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

/jlm

Enclosures

pc: Erie County Health Department
Eastwood Environmental

ec: Tracking

OHIO ENVIRONMENTAL PROTECTION AGENCY

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

NPDES Permit No. 2PR00242
 Facility Name Island Venture Resort Expiration Date 6-30-17
 Facility Address W. Lakeshore & Cameron Date 5-22-12 Time 2:15 am pm
 City Kelleys Island County Erie Township _____
 Name and Address of Owner Ray Bouman
 Person Contacted none Owner Phone (419) 706-0637
 Flow: Design 5000 GPD Present _____ GPD (metered - estimated)
 Trib. Pop. 31 unit motel/laundry (actual - estimated) Weather at time of inspection: Temp 70° cloudy
 OEPA Personnel Rick Zuzik District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
<input checked="" type="radio"/> 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: L. Erie

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
<input checked="" type="radio"/> 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 (2 ponded)

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

Yes No (2011)
 4. Compliance with NPDES Permit

Periodic Violations Y _____ N _____ TSS Parameters: _____
 Chronic Violations _____ Ammonia _____

5. Adequate plant safety

6. Operation and Maintenance Service

Name Castwood Env.

7. logbook on-site

Frequency of Visits Class A / 2x/week

Facility Name: Island Venture

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	1	Flow Equalization	IN
Aeration Equipment		Plant Timer <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Cycle Time:
	2	Motor/ Blower Unit	
Secondary Treatment	1	Aeration Tank	Color: dilute Adequate Aeration: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Final Settling	1	Clarifier	turbid
	1	Sludge Return	In <input checked="" type="checkbox"/> Out <input type="checkbox"/>
	1	Surface Skimmer	In <input checked="" type="checkbox"/> Out <input type="checkbox"/>
		Fixed Media Clarifier	
Tertiary Treatment	2	Surface Sand Filter	1 ponded
		Polishing Pond	
		Other	
Disinfection	1	Contact Tank	
	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)	
	1	Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal	<input checked="" type="checkbox"/>	Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	1	Post Aeration	OUT
		Spray Irrigation	
		Other	

Get New Data								
Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00242*AD	May 2011	001	00530	Total Suspended Solids	30D Conc	12	26.	5/1/2011
2PR00242*AD	May 2011	001	00530	Total Suspended Solids	30D Qty	0.228	.24603	5/1/2011
2PR00242*AD	May 2011	001	31648	E. coli	30D Conc	126	1100.	5/1/2011
2PR00242*AD	May 2011	001	00530	Total Suspended Solids	1D Conc	18	26.	5/18/2011
2PR00242*AD	June 2011	001	80082	CBOD 5 day	30D Conc	10	11.	6/1/2011
2PR00242*AD	July 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	6.7125	7/1/2011
2PR00242*AD	July 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.019	.03009	7/1/2011
2PR00242*AD	July 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	3.18	7/6/2011
2PR00242*AD	July 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.0284	.03009	7/6/2011
2PR00242*AD	July 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	11.97	7/11/2011
2PR00242*AD	July 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	2.	7/19/2011
2PR00242*AD	July 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	9.7	7/27/2011
2PR00242*AD	August 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	33.15	8/1/2011
2PR00242*AD	August 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	0.019	.08895	8/1/2011
2PR00242*AD	August 2011	001	31648	E. coli	30D Conc	126	383.405	8/1/2011
2PR00242*AD	August 2011	001	00530	Total Suspended Solids	30D Conc	12	12.5	8/1/2011
2PR00242*AD	August 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Qty	0.0284	.08895	8/2/2011
2PR00242*AD	August 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	9.4	8/2/2011
2PR00242*AD	August 2011	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	56.9	8/16/2011
2PR00242*AD	September 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	1.3	9/1/2011