



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

Re: **Notice of Violation**
Ottawa County
Paradise Acres Campground
NPDES Permit

August 9, 2013

Mr. Jack Glass, Owner
Paradise Acres Campground
4225 North Rider Road
Oak Harbor, Ohio 43449

Dear Mr. Glass:

On July 17, 2013, an inspection was made of the wastewater treatment plant (WWTP) serving Paradise Acres. In general, both operation and maintenance were fair. At the time of my visit, all major treatment components were in operation and a clear final effluent was observed in the contact tank. There were no chlorine tablets in the tube feeder.

A review of the self-monitoring reports that are submitted under the National Pollutant Discharge Elimination System (NPDES) permit for Paradise Acres shows that this facility is in significant non-compliance (SNC) for the following parameters at outfall number 001: Nitrogen, Ammonia (NH₃). I am enclosing a list of violations for this facility for the period of January 1, 2013, through July 28, 2013.

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.

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. These actions and timetable may also be submitted by email to me at rick.zuzik@epa.ohio.gov.

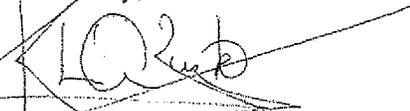
Your NPDES permit expires November 30, 2013, and we have received the required renewal application. Prior to the expiration date, you will be receiving a draft copy of the NPDES permit renewal. It should be reviewed carefully, as there is a 30 day comment period to respond to any permit conditions. Once issued as a final action, the renewed NPDES permit will remain in effect for another five year period.

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The NPDES permit renewal will include references to operator certification rules that require visits three days/week for a minimum of 1.5 hours/week. Documentation of visits and maintenance in the form of a logbook must be kept on-site for Ohio EPA review.

Please find enclosed our completed inspection report and information to assist Mr. Genzman in returning the plant to compliance. 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.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Zuzik", is written over a horizontal line. The signature is somewhat stylized and overlaps the line.

Richard A. Zuzik, MSE
Division of Surface Water

/jlm

Enclosures

pc: Ottawa County Health Department
Randy Genzman, ORC

ec: Tracking

New Data								
Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PR00192*BD	May 2013	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	3.18	5/7/2013
2PR00192*BD	June 2013	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	2.3	6/21/2013
2PR00192*BD	June 2013	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	1.69	6/23/2013
2PR00192*BD	June 2013	001	00610	Nitrogen, Ammonia (NH3)	1D Conc	1.5	2.33	6/24/2013
2PR00192*BD	June 2013	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	1.0	1.07375	6/1/2013
2PR00192*BD	June 2013	001	50060	Chlorine, Total Residu	1D Conc	0.019	.1	6/23/2013

5 - Things Needed for Nitrification

Ammonia Troubleshooting Guide

1. Do you have enough air (O₂)?
 - a. You should have over 2 mg/L in aeration tank.
 - b. Diffusers need cleaned?
 - c. Air leaks?
 - d. Air blower timer programming off?
 - e. Power outage?

2. Do you have enough bacteria?
 - a. Over wasting sludge...
 - b. Susceptible to rain event – wash outs?
 - c. Sand filters covered in sludge?
 - d. Sand filter dosing tank – check the dosing tank with a core sampler...
 - e. Aeration tanks look very light brown in color?
 - f. RAS pump plugged – check the clarifier with a core sampler...

3. Do you have enough Alkalinity?
 - a. It should be ≥ 120 total alkalinity...
 - b. High raw Ammonia (>40 mg/L) can indicate a potential shortage.
 - c. Raw NH₃ X 10 should be greater than Raw Alkalinity.
 - d. Softened water, low flow toilets, tight collection system, mostly urine (ex: schools, Highway rest stops, stores)...

4. Temperature
 - a. Should be $\geq 10^{\circ}\text{C}$.
 - b. Game over as you approach 5°C .
 - c. Insulated grates will correct this issue – 1" thick blue board.

5. Detention Time
 - a. Periodic high flows slugging the plant (EQ pumps, influent pump station, I&I).
 - b. If you have an EQ tank, compare gpm from flow control box with design flow in gpm.
 - c. Compare average daily flow with design flow

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

NPDES Permit No. 2PRO0192 #BD

Facility Name Paradise Acres Campground Expiration Date 11-30-13
 Facility Location 4225 N. Rider Rd Date 7-17-13 Time 11:00 am
 City - County Ottawa Township Carroll
 Name of Owner Jack Glass Owner Phone (419)-898-8066
 Person Contacted - Operator of Record Randy Genzman
 Flow Design 31,500 GPD WWTP Classification: A or 1
 Trib. Pop. 245 RV sites (actual estimated) Weather at time of inspection: Temp 85° Clear
 OEPA Personnel Rick Zuzik District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	Turbidity	Odor	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: Bee'f Creek - Not Observed

<input type="checkbox"/>	None	<input type="checkbox"/>	Mild	<input type="checkbox"/>	Moderate	<input type="checkbox"/>	Serious
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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	
<u> </u>	<u> </u>	Chlorination Tablets
<u> </u>	<u> </u>	Dechlorination Tablets
<u> </u>	<u> </u>	Ultraviolet (U.V.)

Yes No

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

Periodic Violations Y N Parameters:

Chronic Violations SNC-Ammonia

5. O & M logbook kept and available on site: Location

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: Paradise Acres

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	1	Trash Trap	Pumping Frequency
		Grease Trap	Pumping Frequency
		Bar Screen	
		Comminutor	
	2	Flow Equalization	8745 GAL
Aeration Equipment		Plant Timer ___Y ___N	Cycle Time:
		Motor / Blower Unit	
Secondary Treatment	3	Aeration Tank	Color: <u>Brown</u> Adequate Aeration Y / N
Final Settling	1	Clarifier	
	2	Sludge Return	In / Out
	2	Surface Skimmer	In / Out
	1	Fixed Media Clarifier	IN
Tertiary Treatment	2	Surface Sand Filter	<u>Well Kept</u>
		Polishing Pond	
		Other	
Disinfection	1	Contact Tank	<u>clear</u>
	1	Chlorine Tube Feeder	<u>IN - NO TABS</u>
	1	Dechlorination Tube Feeder	<u>IN</u>
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps	2	Raw Wastewater (type)	
	2	Sand Filter Effluent Dosing	
Sludge Handling	1	Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	1	Post Aeration	<u>IN</u>
		Spray Irrigation	
		Other	