



Environmental
Protection Agency

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

Re: Richland County
Village of Plymouth WWTP
NPDES Permit

May 19, 2011

Mr. Bill Sexton, Administrator
Village of Plymouth
48 West Broadway
Plymouth, Ohio 44865

Dear Mr. Sexton:

On May 5, 2011, an inspection was made of the Village of Plymouth wastewater treatment plant (WWTP). The new treatment plant was online and functioning normally. There still remains several punch list items to complete as part of the construction, however the plant is mostly complete. A representative from the plant manufacturer was onsite during the inspection adjusting the cycle times for the SBRs in an attempt to maximize the flow through the plant.

During the inspection I met with Adam Beverly and Wayne Baker, the Village's wastewater operators. The operators seem to have really taken to the operations of the new treatment plant and appear to have a good basic knowledge of the technology. The treatment plant was operating extremely well and producing a very clear effluent. The equalization lagoon was almost full. Flow rates to the treatment plant have reached 1.0 MGD during rain periods. These high flows underscore the need for the Village to continue removing sources of I/I as well as separating the Willow Drive area.

A review of the discharge monitoring reports submitted to our office for November 2010, through April 2011, revealed numerous **violations** of the limits contained in your National Pollutant Discharge Elimination System (NPDES) permit. The majority of these violations occurred prior to the new plant being placed into service. Few violations have occurred since the new plant was brought online.

During the inspection we discussed the fecal coliform sampling required by the NPDES permit. The sample type for this parameter should have been grab and not composite as it is written in the permit. Our Agency will initiate a minor modification to correct the error. You will receive documentation from us once this is complete.

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If you have any questions please call me at 419-373-3070.

Sincerely,



Walter Ariss, P.E.
Environmental Specialist II
Division of Surface Water

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pc: DSW-NWDO 
Keith Hebble, Mayor, Village of Plymouth

Plymouth WWTP 5-5-2011
VISUAL OBSERVATION - UNIT PROCESS

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation

CONDITION OR APPEARANCE		RATING	COMMENTS
General	Grounds	S	Still need to complete seeding throughout plant area
	Buildings	S	
	Potable Water Supply Protection	-	
	Safety Features	S	
	Laboratory	S	Have purchased balance and basic lab equipment.
	Alternate Power Source	OUT	Generator exercised regularly
	Maintenance of Collection Systems	M	Large amounts of I/I. Willow Drive area still combined.
Preliminary	Influent Pump Station	IN	
	Ventilation	S	
	Mechanical Bar Screen	IN	1 Mechanical
	Disposal of Screenings	S	Landfill, One container full every three days
	Vortex valve	S	
	EQ Lagoon	IN	Lagoon very full. Currently bringing flow back into the plant.
Secondary	Sequencing Batch Reactors	IN	Both tanks in service
	SBR blowers	OUT	3 blowers; one tank in fill cycle, other was in decant
	SBR mixers	IN	Mix flow within tanks
	Post Aeration	IN	Tank very clear
Sludge Disposal	Aerated holding ponds	IN	Both ponds in use
	Sludge decant pump station	OUT	Currently not decanting
	Sludge Pumps	OUT	One pump in each SBR, wastes after each SBR cycle
	Disposal of Sludge	S	Land applied
	Sludge holding blowers		One in use/ one standby
Other	Flow Meter and Recorder	IN	
	Records	S	
	Process Controls	S	Manufacturer onsite adjusting SBR cycle timing
Disinfection	Effluent	S	
	UV Disinfection System	IN	

Get New Data

Plymouth WWTP NPDES permit limit violations November 2010 through April 2011

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PB00014*GD	November 2010	001	00530	Total Suspended Solids	30D Conc	12.0	58.125	11/1/2010
2PB00014*GD	November 2010	001	00530	Total Suspended Solids	7D Conc	18.0	56.	11/1/2010
2PB00014*GD	November 2010	001	00530	Total Suspended Solids	7D Conc	18.0	61.	11/8/2010
2PB00014*GD	November 2010	001	00530	Total Suspended Solids	7D Conc	18.0	61.5	11/15/2010
2PB00014*GD	November 2010	001	00530	Total Suspended Solids	7D Conc	18.0	54.	11/22/2010
2PB00014*GD	November 2010	001	00530	Total Suspended Solids	30D Qty	20.5	37.6787	11/1/2010
2PB00014*GD	November 2010	001	00530	Total Suspended Solids	7D Qty	30.7	35.3254	11/8/2010
2PB00014*GD	November 2010	001	00530	Total Suspended Solids	7D Qty	30.7	40.0377	11/15/2010
2PB00014*GD	November 2010	001	00530	Total Suspended Solids	7D Qty	30.7	45.0793	11/22/2010
2PB00014*GD	November 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	12.91	11/1/2010
2PB00014*GD	November 2010	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	13.33	11/1/2010
2PB00014*GD	November 2010	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	12.49	11/15/2010
2PB00014*GD	November 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	5.11	7.92535	11/1/2010
2PB00014*GD	November 2010	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	7.67	7.71947	11/1/2010
2PB00014*GD	November 2010	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	7.67	8.13124	11/15/2010
2PB00014*GD	November 2010	001	80082	CBOD 5 day	30D Conc	10.0	43.7625	11/1/2010
2PB00014*GD	November 2010	001	80082	CBOD 5 day	7D Conc	15.0	34.35	11/1/2010
2PB00014*GD	November 2010	001	80082	CBOD 5 day	7D Conc	15.0	37.1	11/8/2010
2PB00014*GD	November 2010	001	80082	CBOD 5 day	7D Conc	15.0	46.15	11/15/2010
2PB00014*GD	November 2010	001	80082	CBOD 5 day	7D Conc	15.0	57.45	11/22/2010
2PB00014*GD	November 2010	001	80082	CBOD 5 day	30D Qty	17.1	30.0508	11/1/2010
2PB00014*GD	November 2010	001	80082	CBOD 5 day	7D Qty	25.6	30.0445	11/15/2010
2PB00014*GD	November 2010	001	80082	CBOD 5 day	7D Qty	25.6	50.3350	11/22/2010
2PB00014*GD	December 2010	001	00530	Total Suspended Solids	30D Conc	12.0	30.3	12/1/2010
2PB00014*GD	December 2010	001	00530	Total Suspended Solids	7D Conc	18.0	39.	12/1/2010
2PB00014*GD	December 2010	001	00530	Total Suspended Solids	7D Conc	18.0	41.	12/8/2010
2PB00014*GD	December 2010	001	00530	Total Suspended Solids	7D Conc	18.0	27.5	12/15/2010
2PB00014*GD	December 2010	001	00530	Total Suspended Solids	7D Conc	18.0	25.5	12/22/2010
2PB00014*GD	December 2010	001	00530	Total Suspended Solids	30D Qty	20.5	25.1782	12/1/2010
2PB00014*GD	December 2010	001	00530	Total Suspended Solids	7D Qty	30.7	61.7106	12/1/2010
2PB00014*GD	December 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	13.4766	12/1/2010
2PB00014*GD	December 2010	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	11.87	12/1/2010
2PB00014*GD	December 2010	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	11.65	12/15/2010
2PB00014*GD	December 2010	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	5.11	11.5134	12/1/2010
2PB00014*GD	December 2010	001	00610	Nitrogen, Ammonia (NH3)	7D Qty	7.67	19.7233	12/1/2010
2PB00014*GD	December 2010	001	80082	CBOD 5 day	30D Conc	10.0	29.33	12/1/2010
2PB00014*GD	December 2010	001	80082	CBOD 5 day	7D Conc	15.0	24.8	12/1/2010
2PB00014*GD	December 2010	001	80082	CBOD 5 day	7D Conc	15.0	31.35	12/8/2010
2PB00014*GD	December 2010	001	80082	CBOD 5 day	7D Conc	15.0	37.05	12/15/2010
2PB00014*GD	December 2010	001	80082	CBOD 5 day	7D Conc	15.0	36.65	12/22/2010
2PB00014*GD	December 2010	001	80082	CBOD 5 day	30D Qty	17.1	21.3549	12/1/2010
2PB00014*GD	December 2010	001	80082	CBOD 5 day	7D Qty	25.6	39.0937	12/1/2010
2PB00014*GD	January 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	12.855	1/1/2011
2PB00014*GD	January 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	13.78	1/1/2011
2PB00014*GD	January 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	11.93	1/15/2011
2PB00014*GD	January 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Qty	5.11	6.78422	1/1/2011
2PB00014*GD	January 2011	001	80082	CBOD 5 day	30D Conc	10.0	10.5125	1/1/2011
2PB00014*GD	February 2011	001	00610	Nitrogen, Ammonia (NH3)	30D Conc	3.0	3.25	2/1/2011
2PB00014*GD	February 2011	001	00610	Nitrogen, Ammonia (NH3)	7D Conc	4.5	6.5	2/1/2011