



**Environmental
Protection Agency**

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

RE: Marion County
Prospect WWTP
NPDES Permit

December 23, 2011

Mayor and Council
Village of Prospect
139 North Main Street
Prospect, Ohio 43342

Dear Mayor and Council:

This will acknowledge our December 12, 2011, compliance inspection at your wastewater treatment plant (WWTP), which is located on State Route 23 South in Prospect. This inspection was conducted to evaluate compliance with your facility's National Pollutant Discharge Elimination System (NPDES) permit No. 2PA00041.

At the time of the inspection, all major treatment components were in service. The mixed liquor in the "new" oxidation ditch had a healthy brown color, but the mixed liquors in the "old" oxidation ditches were of a weak color. The final discharge from the plant was visually clear.

Our review of your Discharge Monitoring Reports (10/1/2010 to 12/1/2011) indicated numerous effluent violations. Please refer to the enclosed violation table. At this time, the WWTP is in Significant Non-Compliance with the NPDES permit effluent limits, and in order to avoid escalated enforcement action, steps must be taken to eliminate these violations immediately. Please inform this office in writing within 30 days as to the steps taken or proposed to prevent further violations. If these violations continue to occur and if satisfactory progress is not made, we will have no choice but to recommend escalated enforcement action to achieve compliance.

The WWTP is still receiving excessive flow during rain events caused by clean water infiltration/inflow (I/I) in the collection system. In our inspection letter dated November 19, 2008, we noted that the WWTP received excessive I/I and advised the Village to remove I/I. Again, we very strongly recommend the Village investigate the I/I problems throughout the entire collection system. The findings and recommendations from on-going smoke testing and video inspections should be incorporated into a comprehensive rehabilitation program with the goal of minimizing the I/I from the collection system. Elimination of large sources of clean water infiltration could help delay another costly treatment plant expansion.

Our completed inspection report is included for your review. If you have any questions, please call Mr. Ko at 419-373-3021.

Yours truly,

Elizabeth Wick, PE
Section Manager/Environmental Engineer
Division of Surface Water

JK/jlm

Enclosures

pc: Ken Blue, Village Administrator
ec: Inspection Tracking

NPDES COMPLIANCE INSPECTION REPORT

Section A: National Data System Coding

Permit #	NPDES	Yr/Mo/Day	Inspection Type	Inspector	FacType
2PA00041	OH0047902	2011/12/12	C	S	P

Section B: Facility Data

Name and Location of Facility Inspected Prospect WWTP State Route 203 South Prospect, OH 43342	Entry Time	Permit Effective Date
	9:45 A.M.	11/1/2010
	Exit Time	Permit Expiration Date
	10:45 A.M.	10/31/2015

Name(s) and Title(s) of On-Site Representative(s)	Phone Number(s)
Mr. Ken Blue, Village Administrator	(740) 494-2223

Name, Address and Title of Responsible Official	Phone Number
Mayor & Council Village of Prospect 139 N. Main Street Prospect, OH 43342	(740) 494-2115

Section C: Areas Evaluated During Inspection (S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

<u>S</u> Permit	<u>S</u> Flow Measurement	<u>--</u> Pretreatment
<u>S</u> Records/Reports	<u>S</u> Laboratory	<u>S</u> Compliance Schedules
<u>S</u> Operations & Maintenance	<u>S</u> Effluents	<u>S</u> Self-Monitoring Program
<u>S</u> Facility Site Review	<u>S</u> Sludge Storage/Disposal	<u>-</u> Other

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

- * WWTP is in Significant Non-Compliance with the NPDES effluent limits
- * WWTP effluent was visually clear during our inspection
- * Current NPDES permit will expire on 10/31/2015
- * Strongly recommend the village to start investigating the Infiltration/Inflow (I/I) in the sewer collection system
- * A review of your Discharge Monitoring Reports (7/1/2010 to 12/1/2011) indicated numerous effluent violations


 Jason Ko, Ohio EPA, Northwest District Office
 Name(s) and Signature(s) of Inspector(s) _____ Date 12/22/11


 Thomas Poffenbarger, P.E., Ohio EPA, Northwest District Office
 Name and Signature of Reviewer _____ Date 12/22/11

F. GUIDE - VISUAL OBSERVATION - UNIT PROCESS

158-R0035

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

CONDITION OR APPEARANCE		RATING	COMMENTS
General	Grounds	S	
	Buildings	S	
	Potable Water Supply Protection	S	
	Safety Features	S	Fenced
	Bypasses	-	
	Stormwater Overflows	-	
	Alternate Power Source	OUT	Standby generator
Preliminary	Maintenance of Collection Systems	S	Recommend I/I study to reduce excessive flow per the 11/19/2008 letter
	Pump Station	IN	2 lift stations
	Ventilation	-	
	Bar Screen	-	
	Disposal of Screenings	-	
	Comminutor	IN	At pump station before WWTP
	Grit Chamber	-	
	Disposal of Grit	-	
Primary	Settling Tanks	-	
	Scum Removal	-	
	Sludge Removal	-	
	Effluent	-	
Sludge Disposal	Digesters (Aerobic)	-	2 tanks; 1 in use
	Temperature and pH	-	
	Gas Production	-	
	Heating Equipment	-	
	Sludge Pumps	IN	3 airlift pumps – RAS/WAS
	Drying Beds	-	
	Vacuum Filter	-	
	Disposal of Sludge	S	Land apply on the 38 acre field next door
	Sludge Blower	IN	3 units ; 1 in use
Other	Flow Meter and Recorder	IN	Ultrasonic & weir
	Records	S	
	Lab Controls	-	
	Chemical Treatment	-	
Secondary-Tertiary List items as required	Oxidation Ditch	IN	1 "new" w/ dark brown & 2 "old" w/ lighter brown color
	Final Settling	IN	1 "new" & 2 "old"
Disinfection	Effluent	IN	Clear
	Disinfection System	OUT	UV system
	Effective Dosage	-	
	Contact Time	-	
	Contact Tank	IN	
	Post Air	IN	

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PA00041*ID	February 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	10.885	2/1/2011
2PA00041*ID	February 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	15.96	2/1/2011
2PA00041*ID	February 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	2.7	6.51325	2/1/2011
2PA00041*ID	February 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	4.1	8.63843	2/1/2011
2PA00041*ID	February 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	13.05	2/8/2011
2PA00041*ID	February 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	4.1	5.43337	2/8/2011
2PA00041*ID	February 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	11.56	2/15/2011
2PA00041*ID	February 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	4.1	9.01345	2/15/2011
2PA00041*ID	March 2011	001	00530	Total Suspended Solids	30D Conc	12.0	17.7222	3/1/2011
2PA00041*ID	March 2011	001	00530	Total Suspended Solids	7D Conc	18.0	51.5	3/1/2011
2PA00041*ID	March 2011	001	00530	Total Suspended Solids	30D Qty	10.9	58.0124	3/1/2011
2PA00041*ID	March 2011	001	00530	Total Suspended Solids	7D Qty	16.3	211.011	3/1/2011
2PA00041*ID	March 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	3.0	3.17333	3/1/2011
2PA00041*ID	March 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	2.7	4.44134	3/1/2011
2PA00041*ID	March 2011	001	80082	CBOD 5 day	30D Qty	9.1	14.8153	3/1/2011
2PA00041*ID	March 2011	001	80082	CBOD 5 day	7D Qty	13.6	38.9098	3/1/2011
2PA00041*ID	March 2011	001	00530	Total Suspended Solids	7D Qty	16.3	31.7656	3/8/2011
2PA00041*ID	March 2011	001	80082	CBOD 5 day	7D Qty	13.6	13.8322	3/8/2011
2PA00041*ID	March 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	4.5	5.3	3/15/2011
2PA00041*ID	March 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	4.1	7.3622	3/15/2011
2PA00041*ID	May 2011	001	00530	Total Suspended Solids	7D Qty	16.3	17.0060	5/1/2011
2PA00041*ID	May 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.9	.96258	5/1/2011
2PA00041*ID	May 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	1.4	3.30173	5/1/2011
2PA00041*ID	May 2011	001	80082	CBOD 5 day	7D Qty	13.6	20.4503	5/1/2011
2PA00041*ID	May 2011	001	31648	E. coli	7D Conc	284	700.	5/22/2011
2PA00041*ID	June 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	2.22	6/1/2011
2PA00041*ID	June 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	1.4	2.57123	6/1/2011
2PA00041*ID	July 2011	001	00610	Nitrogen, Ammonia (NH3	30D Conc	1.0	6.985	7/1/2011
2PA00041*ID	July 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	13.3	7/1/2011
2PA00041*ID	July 2011	001	00610	Nitrogen, Ammonia (NH3	30D Qty	0.9	3.21029	7/1/2011
2PA00041*ID	July 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	1.4	6.3429	7/1/2011
2PA00041*ID	July 2011	001	00610	Nitrogen, Ammonia (NH3	7D Conc	1.5	14.16	7/8/2011
2PA00041*ID	July 2011	001	00610	Nitrogen, Ammonia (NH3	7D Qty	1.4	6.27069	7/8/2011

2PA00041*ID	October 2011	001	31648	E. coli	7D Conc	284	2420.	10/8/2011
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