



State of Ohio Environmental Protection Agency

**Northwest District Office**

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Ted Strickland, Governor  
Lee Fisher, Lieutenant Governor  
Chris Korleski, Director

Re: Ottawa County  
Village of Put-In-Bay  
NPDES Permit

September 24, 2007

Mr. Doug Knauer, Village Administer  
Village of Put-in-Bay  
P.O. Box 481  
Put-in-Bay, Ohio 43456

Dear Mr. Knauer:

On August 28, 2007, an inspection was made of the wastewater treatment plant serving the Village. Mr. Dave Gruet, WWTP Supervisor was present and provided information on facility operations. At the time of my visit, both batch reactors were in service, and a clear final effluent was observed being discharged from the plant. Our comments and recommendations are as follows:

1) We recently received your letter responding to our concerns over plant capacity. Plans are to submit a permit to install for an additional SBR basin and retrofit of the two existing basins which would double treatment capacity to 0.5 mgd. Other improvements include switching to ultraviolet disinfection, improved sludge handling capabilities and a much needed back up generator. Please be aware that due to Antidegradation public notice requirements and mandatory public hearing for new or increased discharges into Lake Erie, the permitting process can take up to 6 months.

The Ohio State, Stone Lab on Gibraltar Island and the Langram Road sanitary sewer projects are scheduled to be completed this fall.

2) Mr. Mike Mewhorter who has a Class III Wastewater Operator's license will be the responsible person in charge of the plant as of October 1st. The new automatic sampler is now in use; however, there are concerns over freezing during the dead of winter. Manual composite samples may be taken during this period as outline in Part II of the permit, and the sampler should be reinstalled as soon as possible in the spring. A review of NPDES permit monthly operating reports since November 2006 indicated a number of Chlorine residual violations. (enclosed) Mr. Gruet attributed this to the batch discharge nature of SBR's. The switch to ultraviolet disinfection will resolve this issue.

3) Grey water from the laboratory sink at the water treatment plant is now being collected in a bucket and transported to the WWTP. Thank you for addressing this issue.

Mr. Doug Knauer, Village Administrator

September 24, 2007

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Our completed inspection report is enclosed. If any of the above is in error, or if you have any questions, please feel free to call me at (419) 373-3020 or email at [rick.zuzik@epa.state.oh.us](mailto:rick.zuzik@epa.state.oh.us).

Yours truly,



~~Rick Zuzik, MSE~~  
Division of Surface Water

/llr

pc: Ottawa County Health Department  
CDSW-NWDO File

OF ATION AND MAINTENANCE INSPEC N  
0.025 to 1.0 MGD

Application No. OH 1022522  
 Ohio Permit No. 2PAC0067  
 Date 8-2-07 Time 3:00  
 Facility Name Put-in-Bay WTP  
 Facility Address Concord Ave  
 City S. Bass Island County Cittawa Township \_\_\_\_\_  
 Name and Address of Owner Village of PIB, P.O. Box 431  
Day Knowlton, State Phone (419) 385-8545  
 Person Contacted Dave Gwert Phone \_\_\_\_\_  
 Flow: Design \_\_\_\_\_ GPD Present 160 cfm GPD (metered - estimated)  
 Trib. Pop. 130+ (10K) (actual - estimated) Weather at time of inspection 80° Clear  
 OEPA Personnel Rick Zuzik District NW

STORET I.D. No. 39 \_\_\_\_\_

NOTATIONS BY EVALUATOR							
1. OPERATION AND MAINTENANCE PROBLEMS DEFICIENCIES							
CHECK EACH OF THE FOLLOWING ITEMS IN TERMS OF THEIR ESTIMATED ADVERSE EFFECTS ON THE PERFORMANCE OF THE PLANT							
ITEM	MAJOR	MINOR	NONE	ITEM	MAJOR	MINOR	NONE
STAFF COMPLEMENT			✓	OVERLOADS (type)			
PERSONNEL TRAINING			✓	HYDRAULIC			
OPERATOR BUDGET			✓	PERIODIC	✓		
LABORATORY CONTROL			✓	CONTINUOUS			
INSTRUMENTATION			✓	ORGANIC			
INDUSTRIAL WASTE			✓	PERIODIC	✓		
PLANT OBSOLESCENCE			✓	CONTINUOUS			
EQUIPMENT FAILURE			✓	OVERLOAD CAUSES:			
TREATMENT PROCESSES			✓	INFILTRATION			
SLUDGE HANDLING AND PROCESSING		✓		COMBINED SEWERS			
				INDUSTRIAL GROWTH			
EQUIPMENT MAINTENANCE			✓	RAPID POPULATION GROWTH			
SPARE PARTS INVENTORY			✓	INCREASED SERVICE AREA			
POWER FAILURE	✓			OTHER:	✓		
<u>NW BACK UP GENERATOR</u>				<u>Seasonal Turnies</u>			
				OTHER:			

2. PLANT PERSONNEL INVENTORY								
PERSONNEL CLASSIFICATION (a)	EMPLOYMENT (b)				CERTIFICATION (c)		TRAINING REQUIRED NEXT 12 MONTHS (d)	
	ACTUAL		NUMBER BUDGETED	NO. RECOMMENDED	NO. RECOMMENDED OR REQUIRED BY STATE	ACTUAL NO. CERTIFIED	NEW HIRES	UPGRADE (Promotion or skill improvement)
	MANHOURS PER WEEK	NUMBER						
1. MANAGEMENT SUPERVISOR		1						
2. OPERATOR		1			1	1/1		
3. LABORATORY								
4. MAINTENANCE								
5. OTHER PLANT WORKERS								
6. OTHER OFFICE WORKERS								
7. TOTAL		3						

3. PURPOSE OF INSPECTION				4. GENERAL RATING			
<input type="checkbox"/> GRANT COMPLIANCE		<input type="checkbox"/> FOLLOW-UP		ACCEPTABLE		✓	
<input checked="" type="checkbox"/> PERMIT COMPLIANCE		<input type="checkbox"/> OTHER:		CONDITIONAL ACCEPTANCE			
<input type="checkbox"/> OTHER:				UNACCEPTABLE			
EVALUATION PERFORMED BY		TITLE		ORGANIZATION		DATE	
Rick Zuzik		EST II		CEM, NWDO		8-2-07	
INFORMATION FURNISHED BY		TITLE		ORGANIZATION		DATE	
Dave Gwert		WTP Engineer		PIB		8-28-07	

GUIDE - 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	
	BUILDINGS	S	
	POTABLE WATER SUPPLY PROTECTION	S	
	SAFETY FEATURES	S	
	BYPASSES	-	
	STORMWATER OVERFLOWS	-	
PRELIMINARY	MAINTENANCE OF COLLECTION SYSTEMS	S	
	PUMP STATION	S	1 main at plant, 7 on system
	VENTILATION	S	
	BAR SCREEN		
	DISPOSAL OF SCREENINGS		
	COMMINUTOR		
	GRIT CHAMBER		
	DISPOSAL OF GRIT		
PRIMARY	SETTLING TANKS	/	
	SCUM REMOVAL	/	
	SLUDGE REMOVAL	/	
	EFFLUENT	/	
SLUDGE DISPOSAL	DIGESTERS	IN	aerobic
	TEMPERATURE AND PH	/	
	GAS PRODUCTION	/	
	HEATING EQUIPMENT	/	
	SLUDGE PUMPS	/	
	DRYING BEDS	/	
	VACUUM FILTER	/	
	INCINERATION	/	
DISPOSAL OF SLUDGE	S	land applied by Keith Edwards Haul 3X/WK during summer	
OTHER	FLOW METER AND RECORDER	IN	
	RECORDS	S	
	LAB CONTROLS	S	
	New Automatic Sampler		
SECONDARY-TERTIARY (LIST ITEMS AS REQUIRED)	Sequencing Batch Reactors (2)	IN	Both in use during summer 4 hr cycles Char. Brown mixed liquor
CHLORINE	EFFLUENT	S	clear
	CHLORINATORS / Dechlor	IN	
	EFFECTIVE DOSAGE	S	
	CONTACT TIME	S	
	CONTACT TANK	IN	
	Post aeration	IN	in contact tank

ANNUAL BUDGET FOR MAINTAINING AND OPERATING PLANT

SALARIES & WAGES	ELECTRICITY	CHEMICALS	MAINTENANCE	STAFFING & TRAINING	OTHER	TOTAL

Get New Data

Permit No	Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
2PA00067*HD	May 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.05	5/18/2007
2PA00067*HD	May 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.05	5/27/2007
2PA00067*HD	May 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.05	5/29/2007
2PA00067*HD	June 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.08	6/4/2007
2PA00067*HD	June 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.05	6/5/2007
2PA00067*HD	June 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.08	6/17/2007
2PA00067*HD	June 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.05	6/25/2007
2PA00067*HD	July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.05	7/1/2007
2PA00067*HD	July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.1	7/3/2007
2PA00067*HD	July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.06	7/4/2007
2PA00067*HD	July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.07	7/6/2007
2PA00067*HD	July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.06	7/7/2007
2PA00067*HD	July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.05	7/14/2007
2PA00067*HD	July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.05	7/17/2007
2PA00067*HD	July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.09	7/18/2007
2PA00067*HD	July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.14	7/24/2007
2PA00067*HD	July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.05	7/29/2007
2PA00067*HD	July 2007	001	50060	Chlorine, Total Residu	1D Conc	0.038	.08	7/30/2007