



State of Ohio Environmental Protection Agency

**Northwest District Office**

347 North Dunbridge Road  
Bowling Green, OH 43402-9398

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

Re: Richland County  
Village of Shiloh WWTP  
NPDES Permit

November 21, 2007

Rick Reeder, Village Administrator  
Village of Shiloh  
P.O. Box 242  
Shiloh, OH 44878

Dear Mr. Reeder,

On November 1, 2007, an inspection was made of the wastewater treatment facilities serving the Village of Shiloh, located at the intersection of Euclid and Noble Road, Shiloh, Richland County. You were present to provide a tour of the facilities and answer questions.

At the time of the inspection all major treatment units were in operation. No major concerns were noted. A clear final effluent was being discharged to the receiving stream.

The sludge drying beds were almost full and should be cleaned out immediately. The need to dispose of the sludge in the beds was mentioned during our previous inspection in March 2007. Please contact Andrew Gall of our office with any questions regarding sludge disposal.

You mentioned that the Village had completed smoke testing of the sewer system as well as manhole inspections. The majority of the manholes were in good condition, however a few were in need of repairs. The manhole located upstream of the Petit Street lift station was replaced. You stated that a summary of the smoke testing and manhole inspection would be submitted for our review. The summary will need to include a timeline for eliminating the two remaining sanitary sewer overflows (SSOs) located in the Village. This report should be submitted **within 60 days** of receipt of this letter. Our office has requested a timeline for elimination of the SSOs on several occasions. A firm action plan will need to be submitted in order to avoid legal action from our Agency to address these overflows.

A review of the monthly operating reports (MORs) submitted to our office for the months of March through October 2007 revealed numerous *violations* of the limits contained in your NPDES permit. The majority of these violations were for exceedences of the residual chlorine and fecal coliform limits. The plant continues to have problems meeting these limits. Possible changes to the disinfection system may be required by our Agency if continued non-compliance occurs. It was also observed that samples for BOD and TSS were not reported for September as

Mr. Rick Reeder  
November 21, 2007  
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required by the permit. Weekly values for the second, third, and fourth weeks were not reported. You shall provide a written explanation to our office **within 10 days** of receipt of this letter indicating the reason these samples were not collected.

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

Sincerely,



Walter Ariss  
Environmental Specialist II  
Division of Surface Water

/lb

Enclosed

pc: ~~NWDC-DSW File~~  
Lonnie McGhee, McGhee's Technical Water Services

OPERATION AND MAINTENANCE INSPECTION  
0.025 to 1.0 MGD

Facility Name Shiloh WWTP Application No. OH  
 Ohio Permit No. 2 PB00017  
 Facility Address \_\_\_\_\_ Date 11/1/07 Time 10:00am  
 City Shiloh County Richland Township \_\_\_\_\_  
 Name and Address of Owner \_\_\_\_\_ Phone \_\_\_\_\_  
 Person Contacted Rick Reeder Phone \_\_\_\_\_  
 Flow: Design 120,000 GPD Present ~110,000 GPD (metered - estimated)  
 Trib. Pop. \_\_\_\_\_ (actual-estimated) Weather at time of inspection 60° Sunny  
 OEPA Personnel Walter Ariss District NW00

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  |       |                                     | <input checked="" type="checkbox"/> | OVERLOADS (type)        |                                     |       |                                     |
| PERSONNEL TRAINING  |       |                                     | <input checked="" type="checkbox"/> | HYDRAULIC               | <input checked="" type="checkbox"/> |       |                                     |
| OPERATOR BUDGET   |       |                                     | <input checked="" type="checkbox"/> | PERIODIC                | <input checked="" type="checkbox"/> |       |                                     |
| LABORATORY CONTROL  |       |                                     | <input checked="" type="checkbox"/> | CONTINUOUS              |                                     |       |                                     |
| INSTRUMENTATION   |       |                                     | <input checked="" type="checkbox"/> | ORGANIC                 |                                     |       | <input checked="" type="checkbox"/> |
| INDUSTRIAL WASTE  |       |                                     | <input checked="" type="checkbox"/> | PERIODIC                |                                     |       |                                     |
| PLANT OBSOLESCENCE  |       |                                     | <input checked="" type="checkbox"/> | CONTINUOUS              |                                     |       |                                     |
| EQUIPMENT FAILURE:  |       |                                     | <input checked="" type="checkbox"/> | OVERLOAD CAUSES:        |                                     |       |                                     |
| TREATMENT PROCESSES   |       |                                     | <input checked="" type="checkbox"/> | INFILTRATION            | <input checked="" type="checkbox"/> |       |                                     |
| SLUDGE HANDLING AND PROCESSING  |       | <input checked="" type="checkbox"/> |                                     | COMBINED SEWERS         |                                     |       |                                     |
|   |       |                                     |                                     | INDUSTRIAL GROWTH       |                                     |       |                                     |
| EQUIPMENT MAINTENANCE   |       |                                     | <input checked="" type="checkbox"/> | RAPID POPULATION GROWTH |                                     |       |                                     |
| SPARE PARTS INVENTORY   |       |                                     | <input checked="" type="checkbox"/> | INCREASED SERVICE AREA  |                                     |       |                                     |
| POWER FAILURE   |       |                                     | <input checked="" type="checkbox"/> | OTHER:                  |                                     |       |                                     |
|   |       |                                     |                                     | OTHER:                  |                                     |       |                                     |

| 2. PLANT PERSONNEL INVENTORY - <i>Not evaluated</i> |                    |        |                 |                                      |                      |  |  |
|---|--------------------|--------|-----------------|--------------------------------------|----------------------|--|--|
| PERSONNEL CLASSIFICATION<br>(a.)                    | EMPLOYMENT<br>(b.) |        |                 | CERTIFICATION<br>(c.)                |                      | TRAINING REQUIRED NEXT 12 MONTHS<br>(d.) |  |
|   | ACTUAL             |        | NUMBER BUDGETED | NO. RECOMMENDED OR REQUIRED BY STATE | ACTUAL NO. CERTIFIED | NEW HIRES                                | UPGRADE (Promotion or skill improvement) |
|   | MANHOURS PER WEEK  | NUMBER |                 |                                      |                      |  |  |
| 1. MANAGEMENT SUPERVISOR                            |                    |        |                 |                                      |                      |  |  |
| 2. OPERATOR   |                    |        |                 |                                      |                      |  |  |
| 3. LABORATORY                                       |                    |        |                 |                                      |                      |  |  |
| 4. MAINTENANCE                                      |                    |        |                 |                                      |                      |  |  |
| 5. OTHER PLANT WORKERS                              |                    |        |                 |                                      |                      |  |  |
| 6. OTHER OFFICE WORKERS                             |                    |        |                 |                                      |                      |  |  |
| 7. TOTAL  |                    |        |                 |                                      |                      |  |  |

| 3. PURPOSE OF INSPECTION                   |  |  |  | 4. GENERAL RATING        |  |                                     |  |
|--|--|--|--|--------------------------|--|-------------------------------------|--|
| <input type="checkbox"/> GRANT COMPLIANCE  |  | <input type="checkbox"/> FOLLOW-UP         |  | ACCEPTABLE               |  | <input checked="" type="checkbox"/> |  |
| <input type="checkbox"/> PERMIT COMPLIANCE |  | <input checked="" type="checkbox"/> OTHER: |  | CONDITIONAL ACCEPTANCE   |  |                                     |  |
| UNACCEPTABLE                               |  |  |  |                          |  |                                     |  |
| EVALUATION PERFORMED BY                    |  | TITLE                                      |  | ORGANIZATION             |  | DATE                                |  |
| <u>Walter Ariss</u>                        |  | <u>ES II</u>                               |  | <u>Ohio EPA</u>          |  |                                     |  |
| INFORMATION FURNISHED BY                   |  | TITLE                                      |  | ORGANIZATION             |  | DATE                                |  |
| <u>Rick Reeder</u>                         |  | <u>Administrator</u>                       |  | <u>Village of Shiloh</u> |  |                                     |  |

GUIDE - VISUAL OBSERVATION - UNIT PROCESS

RATING CODES: S = Satisfactory; U = Unsatisfactory; M = Marginal; IN = In Operation; OUT = Out of Operation. *NE - not evaluated*

|  |  | CONDITION OR APPEARANCE           | RATING | COMMENTS  |
|--|--|-----------------------------------|--------|---|
| GENERAL  |  | GROUNDS                           | S      |   |
|  |  | BUILDINGS                         | S      |   |
|  |  | POTABLE WATER SUPPLY PROTECTION   | NE     |   |
|  |  | SAFETY FEATURES                   | NE     |   |
|  |  | BYPASSES                          | Out    |   |
|  |  | STORMWATER OVERFLOWS              | Out    |   |
| PRELIMINARY                                    |  | MAINTENANCE OF COLLECTION SYSTEMS | M      |   |
|  |  | PUMP STATION                      | S      |   |
|  |  | VENTILATION                       | S      |   |
|  |  | BAR SCREEN                        | S      |   |
|  |  | DISPOSAL OF SCREENINGS            | S      |   |
|  |  | COMMINUTOR                        | —      |   |
|  |  | GRIT CHAMBER                      | —      |   |
|  |  | DISPOSAL OF GRIT                  | —      |   |
| PRIMARY  |  | SETTLING TANKS - <i>Inhoff</i>    | S      |   |
|  |  | SCUM REMOVAL                      |        |   |
|  |  | SLUDGE REMOVAL                    |        |   |
|  |  | EFFLUENT                          | S      |   |
|  |  | <i>Rock Filter</i>                | S      |   |
| SLUDGE DISPOSAL                                |  | DIGESTERS                         | —      |   |
|  |  | TEMPERATURE AND PH                | —      |   |
|  |  | GAS PRODUCTION                    | —      |   |
|  |  | HEATING EQUIPMENT                 | —      |   |
|  |  | SLUDGE PUMPS                      | —      |   |
|  |  | DRYING BEDS                       | U      | <i>need to have sludge hauled immediately</i>                               |
|  |  | VACUUM FILTER                     | —      |   |
|  |  | INCINERATION                      | —      |   |
|  |  | DISPOSAL OF SLUDGE                | —      |   |
| OTHER  |  | FLOW METER AND RECORDER           | S      | <i>recently calibrated</i>  |
|  |  | RECORDS                           | S      | <i>very good record keeping of daily maintenance</i>                        |
|  |  | LAB CONTROLS                      |        |   |
| SECONDARY-TERTIARY<br>(LIST ITEMS AS REQUIRED) |  | <i>Nitrification Tower</i>        | S      |   |
|  |  | <i>Secondary Clarifier</i>        | S      | <i>effluent very clear</i>  |
| CHLORINE                                       |  | EFFLUENT                          | S      |   |
|  |  | CHLORINATORS                      | Out    |   |
|  |  | EFFECTIVE DOSAGE                  | U      | <i>having problems meeting local limit to Cl<sub>2</sub> residual level</i> |
|  |  | CONTACT TIME                      |        |   |
|  |  | CONTACT TANK                      | S      |   |

ANNUAL BUDGET FOR MAINTAINING AND OPERATING PLANT

| SALARIES & WAGES | ELECTRICITY | CHEMICALS | MAINTENANCE | STAFFING & TRAINING | OTHER | TOTAL |
|------------------|-------------|-----------|-------------|---------------------|-------|-------|
|                  |             |           |             |                     |       |       |