



State of Ohio Environmental Protection Agency

Northeast District Office

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Twinsburg, Ohio 44087

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

August 14, 2008

RE: STARK COUNTY
VILLAGE OF BREWSTER
SHEARER'S FOODS, INC.
IDP #3DP00031

Mr. Scott Smith, President
Shearer's Foods, Inc.
692 North Wabash Ave.
P.O. Box 116
Brewster, OH 44613

CERTIFIED MAIL

Dear Mr. Smith:

On August 12, 2008, this office conducted an inspection of the wastewater treatment system which serves Shearer's Foods, Inc. The inspection was conducted in response to recent odor complaints that have been received by our office. Present during the inspection were this writer, Scott Weyandt and Randy Hall, Shearer's Foods, Inc.

At the time of the inspection, the mixed liquor in the sequencing batch reactors (SBRs) was black. The contents of the tanks were septic, and the odors emanating from the tanks were severe. The treatment plant effluent being discharged to the Village of Brewster was black. An oily sheen was present on the dissolved air flotation (DAF) effluent.

A review of operating data provided by Mr. Hall revealed that the dissolved oxygen (DO) levels in the SBRs have been well below 1.0 mg/l since July 19, 2008. Normally, the dissolved oxygen levels in these tanks are from 3.0 to 5.0 mg/l. A review of the data for chemical oxygen demand (COD) revealed that the organic strength of the SBR influent has increased. The increased organic load has driven the DO levels down in the SBRs, resulting in the septic conditions and excessive odors.

Approximately 40 gallons of hydrogen peroxide is added to the SBRs each day as an oxygen source. On August 11, 2008, approximately 250 gallons of peroxide was added to the tanks. Mr. Weyandt believes this may have adversely affected the bacteria in the system.

Mechanical aerators will be added to the SBRs in the near future to assist with oxygen levels in the tanks. A chemical misting system was added in July 2008 to aid in odor control. The system emits a chemical masking agent around the sludge press, sludge dumpster and aeration tanks. This system has little effect under the current odor conditions.

The sludge digester is currently aerated daily, beginning at 5 p.m. The odors from this tank are worse during the first half hour of aeration. Therefore, this cycle will be changed to begin at 9 a.m. to help reduce the impact of these odors on the community.

Since dissolved oxygen levels in the SBRs are a significant factor for the proper operation of this system, a continuous recorder should be added to the dissolved oxygen meters so that these

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levels can be tracked. Also, sampling of your raw wastewater before and after the DAFs for oil and grease and COD is recommended to determine the efficiency of these treatment units. Characterization of your raw wastewater will aid in identifying the cause of the recent increase in organic load to the system.

A review of your Discharge Monitoring Reports (DMRs) covering the period June 2006 through June 2008 revealed the following effluent violations:

Permit No	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	1073.	7/13/2006
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	643.773	7/13/2006
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	795.	8/3/2006
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	566.452	8/3/2006
3DP00031*DP	001	CBOD 5 day	1D Conc	450	552.	8/10/2006
3DP00031*DP	001	CBOD 5 day	1D Qty	341	379.999	8/10/2006
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	880.	8/15/2006
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	585.191	8/15/2006
3DP00031*DP	001	CBOD 5 day	1D Conc	450	1027.	8/15/2006
3DP00031*DP	001	CBOD 5 day	1D Qty	341	682.945	8/15/2006
3DP00031*DP	001	CBOD 5 day	1D Conc	450	472.	8/17/2006
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	1248.	8/24/2006
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	732.397	8/24/2006
3DP00031*DP	001	CBOD 5 day	1D Conc	450	490.	8/24/2006
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	1120.	8/29/2006
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	622.988	8/29/2006
3DP00031*DP	001	CBOD 5 day	1D Conc	450	574.	8/29/2006
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	1280.	9/7/2006
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	731.337	9/7/2006
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	1010.	9/21/2006
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	576.940	9/21/2006
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	810.	10/5/2006
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	825.	10/26/2006
3DP00031*DP	001	CBOD 5 day	1D Conc	450	492.	10/26/2006
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	1183.	2/6/2007
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	755.644	2/6/2007
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	827.	2/8/2007
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	597.156	2/8/2007
3DP00031*DP	001	Oil and Grease, Total	1D Conc	20	21.	2/27/2007
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	780.	3/8/2007
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	2120.	3/20/2007
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	1320.18	3/20/2007
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	813.	4/5/2007
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	1480.	4/10/2007

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Permit No	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	962.663	4/10/2007
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	1140.	4/17/2007
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	707.591	4/17/2007
3DP00031*DP	001	Total Suspended Solids	1D Conc	746	1815.	5/15/2007
3DP00031*DP	001	Total Suspended Solids	1D Qty	566	1308.63	5/15/2007

Upon completion of the treatment plant inspection, Scott Weyandt and Scott Smith met with this writer. During this meeting both Mr. Weyandt and Mr. Smith stated that production levels in the manufacturing facility have remained consistent throughout the summer. The wastewater flows received at the treatment plant have been below 200,000 gallons per day during this time.

The elimination of the excessive odors will require a reduction of the organic load to the wastewater treatment system. You are directed to respond to this office, in writing, within 10 days receipt of this letter as to the measures that will be taken to rectify this situation. A long term plan for ensuring minimum dissolved oxygen levels in the SBRs during the summer months must be included with your submittal.

Should you have any questions or comments regarding this letter, please feel free to contact this office at (330) 963-1197.

Sincerely,



Dean W. Stoll, P.E.
Environmental Engineer
Division of Surface Water

DSW/mlh

pc: Mayor & Council, Village of Brewster
Steve Hartman, Village of Brewster
Mike Maybaugh, Village of Brewster
Scott Weyandt, Shearer's Foods, Inc.
Denny Tan, Canton City Health Department

File: Industrial User/Shearer's Foods, Inc.

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Sent To **MR. SCOTT SMITH, PRESIDENT**
 Street, Apt. No., or PO Box No. **SHEARERS' FOODS, INC.**
692 NORTH WABASH AVENUE
 City, State, ZIP+4 **P.O. BOX 116 BREWSTER, OH 44613**

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