



State of Ohio Environmental Protection Agency

Northeast District Office

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Ted Strickland, Governor
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October 30, 2009

RE: MEDINA COUNTY
WESTFIELD CENTER WWTP
(NPDES NO. 3PB00023)

Mayor and Council
Village of Westfield Center
PO Box 750
Westfield Center, OH 44251

Dear Mayor and Council:

On September 29, 2009, a Compliance Evaluation Inspection (CEI) was conducted at the Westfield Center Wastewater Treatment Plant (WWTP), located at 9286 Leroy Road, in Westfield Center, Ohio. Present during the inspection were Mr. Dave Pitsenbarger, representing the Village of Westfield Center, and this writer.

Evaluated during the inspection were the treatment plant processes, effluent discharge quality, and general compliance with the intent of the NPDES permit. The last CEI conducted at the Westfield Center WWTP was on May 31, 2007.

At the time of the September 29th inspection, the following observations were made, and information obtained:

- 1) Raw flow enters the WWTP through bar screens, and then passes through a comminutor. At the time of the inspection, the comminutor was in operation.
- 2) Flow enters the headworks, where 3 raw influent pumps pump the flow to the primary screens. One of the raw influent pumps operates during normal flow, with a second pump being utilized during high flows.
- 3) Influent is pumped to two primary rotary fine screens, of which one operates at flows up to approximately 700 gpm. The second rotary fine screen is added when flows exceed the 700 gpd.
- 4) Following fine screening, the flow enters grit removal tanks. Grit removed from the wastewater travels via mechanical screw and conveyor to a 4' x 4' geotextile bag, where it is dewatered. Grit and screenings are disposed of at the Medina Recycle Center.
- 5) During rain events, excessive flows are diverted to 4 stormwater flow equalization tanks. Total storage capacity of the equalization tanks is approximately 750,000 gallons. The equalization tanks have not overflowed since approximately 1997.
- 6) Wastewater enters a flow splitter box then into the 4 aeration tanks. Contents of the aeration tanks were medium brown in color, with no foam or odor present. Typical MLSS concentrations in the warmer months are maintained in the 3200 ppm range.

- 7) From the aeration tanks, flow enters 2 newer circular clarifiers for settling. Alum is mixed into the wastewater prior to entering the settling tanks. The alum is added as an aid for phosphorus removal and solids settling.

Water in the clarifier was clear, and the effluent troughs were clean and free of solids or algae. Effluent troughs in the settling tanks are covered to prevent excessive algal growth.
- 8) Following the clarifiers, the flow enters the high rate effluent filters for tertiary treatment. There are 4 filter cells, of which one unit was in operation. One unit is kept in standby mode, and the remaining 2 units are added if needed during periods of high flow.
- 9) Disinfection is accomplished with Ultra Violet (UV) light. The UV system consists of 2 banks of lights, with 6 racks of UV lights and 6 UV bulbs per rack (72 total bulbs). Disinfection of the effluent is conducted from May 1st through October 31st.
- 10) The effluent was visually clear, and free of solids and foam. Final flow is measured at the end of the old chlorination tank. The flow meter was last calibrated in June 2009. Effluent is post aerated prior to discharge to Camel Creek.
- 11) Sludge generated at the WWTP is digested in 3 aerobic digesters. Digested sludge is dewatered by a 1 meter Ashbrook sludge press. The sludge press is operated approximately 1 day per month. Sludge enters the press at approximately 2.5% solids, and is dewatered to approximately 20% solids.

Filter cake from the sludge press is kept in a storage building until it is hauled away for disposal, approximately once per year in the spring.
- 12) Sludge generated at the Westfield Center WWTP is hauled and land applied by Berry Farm and Septic, in Seville, Ohio. Backup sludge disposal is landfilling at PPG Lime Lakes in Barberton.
- 13) Dissolved Oxygen, temperature, and pH measurements, and suspended solid, CBOD, phosphorous, and fecal coliform analyses are conducted by plant personnel at the WWTP. All other samples (heavy metals, low level mercury) are analyzed by MASI labs.
- 14) There are 3 full time employees at the Westfield Center WWTP, with coverage being provided 7:00 a.m. – 3:30 p.m., M-F. Weekend coverage is by one employee for 7 hours each day. The Westfield Center WWTP is continuously monitored by a SCADA system.
- 15) ADDF of the WWTP is approximately 0.635 MGD. Average dry weather flow seen at the WWTP is approximately 0.250 to 0.300 MGD. There is an I/I problem in the collection system, and wet weather flows at the WWTP can approach 0.900 MGD.

- 16) The Village has purchased a camera system for televising the sewer system in search of I/I sources. Consideration is being given to lining portions of the sewer system which are made of Vitrified Clay Pipe.
- 17) As required in Part II, W., by January 1, 2008, the Village was to have posted a permanent marker on the stream bank at the WWTP outfall to the receiving stream. The marker was to consist of, at a minimum, the name of the establishment to which the permit was issued, the Ohio EPA permit number, and the outfall number and a contact telephone number.

According to Mr. Pitsenbarger, the outfall sign was never installed as required by the NPDES Permit.

Please note, the signage information shall be printed in letters not less than two inches in height. The marker shall be a minimum of 2 feet by 2 feet and shall be a minimum of 3 feet above ground level. The sign shall not be obstructed such that persons in boats or persons swimming on the river or someone fishing or walking along the shore cannot read the sign.

Vegetation is to be periodically removed to keep the sign visible. If the outfall is normally submerged, the sign shall indicate such. If the outfall is a combined sewer outfall, then the sign shall indicate that untreated human sewage may be discharged from the outfall during wet weather and that harmful bacteria may be present in the water.

A review of the electronic Discharge Monitoring Reports (eDMR's) submitted for the Westfield Center WWTP for the period of May 1, 2007 through September 1, 2009, found the following final effluent limit numeric violations:

**Westfield Center WWTP
 NPDES Permit No. 3PB00023
 Numeric Effluent Violations
 (May 1, 2007 – Sep. 1, 2009)**

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
May 2007	001	Phosphorus, Total (P)	30D Conc	1.0	2.61	5/1/2007
May 2007	001	Phosphorus, Total (P)	30D Qty	2.40	3.27583	5/1/2007
May 2007	001	Phosphorus, Total (P)	7D Conc	1.5	2.61	5/8/2007
June 2007	001	Phosphorus, Total (P)	30D Conc	1.0	2.94	6/1/2007
June 2007	001	Phosphorus, Total (P)	30D Qty	2.40	3.7215	6/1/2007
June 2007	001	Phosphorus, Total (P)	7D Conc	1.5	2.94	6/8/2007
June 2007	001	Phosphorus, Total (P)	7D Qty	3.60	3.7215	6/8/2007
July 2007	001	Phosphorus, Total (P)	30D Conc	1.0	3.09	7/1/2007
July 2007	001	Phosphorus, Total (P)	30D Qty	2.40	3.06426	7/1/2007
July 2007	001	Phosphorus, Total (P)	7D Conc	1.5	3.09	7/8/2007
August 2007	001	Phosphorus, Total (P)	30D Conc	1.0	3.12	8/1/2007
August 2007	001	Phosphorus, Total (P)	30D Qty	2.40	4.14243	8/1/2007

Reporting Period	Station	Parameter	Limit Type	Limit	Reported Value	Violation Date
August 2007	001	Phosphorus, Total (P)	7D Conc	1.5	3.12	8/8/2007
August 2007	001	Phosphorus, Total (P)	7D Qty	3.60	4.14243	8/8/2007
September 2007	001	Phosphorus, Total (P)	30D Conc	1.0	3.62	9/1/2007
September 2007	001	Phosphorus, Total (P)	30D Qty	2.40	3.4394	9/1/2007
September 2007	001	Phosphorus, Total (P)	7D Conc	1.5	3.62	9/8/2007
October 2007	001	Phosphorus, Total (P)	30D Conc	1.0	2.63	10/1/2007
October 2007	001	Phosphorus, Total (P)	7D Conc	1.5	2.63	10/8/2007
December 2007	581	Arsenic, Total In Sludge	1D Conc	75	19.	12/1/2007
December 2007	581	Cadmium, Total In Sludge	1D Conc	85	1.	12/1/2007
December 2007	581	Copper, Total In Sludge	1D Conc	4300	500.	12/1/2007
December 2007	581	Lead, Total In Sludge	1D Conc	840	13.	12/1/2007
December 2007	581	Nickel, Total In Sludge	1D Conc	420	13.	12/1/2007
December 2007	581	Zinc, Total In Sludge	1D Conc	7500	631.	12/1/2007
December 2007	581	Selenium, Total In Sludge	1D Conc	100	5.	12/1/2007
December 2007	581	Molybdenum In Sludge	1D Conc	75	6.	12/1/2007
March 2008	001	Phosphorus, Total (P)	30D Qty	2.40	2.64637	3/1/2008
December 2008	581	Arsenic, Total In Sludge	1D Conc	75	26.	12/1/2008
December 2008	581	Cadmium, Total In Sludge	1D Conc	85	2.	12/1/2008
December 2008	581	Copper, Total In Sludge	1D Conc	4300	701.	12/1/2008
December 2008	581	Lead, Total In Sludge	1D Conc	840	18.	12/1/2008
December 2008	581	Nickel, Total In Sludge	1D Conc	420	19.	12/1/2008
December 2008	581	Zinc, Total In Sludge	1D Conc	7500	1010.	12/1/2008
December 2008	581	Selenium, Total In Sludge	1D Conc	100	6.	12/1/2008
December 2008	581	Mercury, Total In Sludge	1D Conc	57	5.7	12/1/2008
December 2008	581	Molybdenum In Sludge	1D Conc	75	7.	12/1/2008

A review of the eDMRs for the same period also found the following reporting frequency violations for the Westfield Center WWTP:

**Westfield Center WWTP
NPDES Permit No. 3PB00023
Reporting Frequency Violations
(May 1, 2007 – Sep. 1, 2009)**

Reporting Period	Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
June 2007	581	Sludge Fee Weight	2/Year	1	0	06/01/2007
June 2007	001	Total Suspended Solids	2/Week	2	1	06/22/2007
June 2007	001	CBOD 5 day	2/Week	2	1	06/22/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/01/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/01/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/02/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/02/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/03/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/03/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/04/2007

Reporting Period	Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
July 2007	001	pH, Minimum	1/Day	1	0	07/04/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/05/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/05/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/06/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/06/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/07/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/07/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/08/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/08/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/09/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/09/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/10/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/10/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/11/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/11/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/12/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/12/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/13/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/13/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/14/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/14/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/15/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/15/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/16/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/16/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/17/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/17/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/18/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/18/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/19/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/19/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/20/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/20/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/21/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/21/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/22/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/22/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/23/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/23/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/24/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/24/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/25/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/25/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/26/2007
July 2007	001	pH, Minimum	1/Day	1	0	07/26/2007
July 2007	001	pH, Maximum	1/Day	1	0	07/27/2007

Reporting Period		Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
July	2007	001	pH, Minimum	1/Day	1	0	07/27/2007
July	2007	001	pH, Maximum	1/Day	1	0	07/28/2007
July	2007	001	pH, Minimum	1/Day	1	0	07/28/2007
July	2007	001	pH, Maximum	1/Day	1	0	07/29/2007
July	2007	001	pH, Minimum	1/Day	1	0	07/29/2007
July	2007	001	pH, Maximum	1/Day	1	0	07/30/2007
July	2007	001	pH, Minimum	1/Day	1	0	07/30/2007
July	2007	001	pH, Maximum	1/Day	1	0	07/31/2007
July	2007	001	pH, Minimum	1/Day	1	0	07/31/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/01/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/01/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/02/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/02/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/03/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/03/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/04/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/04/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/05/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/05/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/06/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/06/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/07/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/07/2007
August	2007	001	Total Suspended Solids	2/Week	2	1	08/08/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/08/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/08/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/09/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/09/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/10/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/10/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/11/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/11/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/12/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/12/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/13/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/13/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/14/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/14/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/15/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/15/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/16/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/16/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/17/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/17/2007
August	2007	001	pH, Maximum	1/Day	1	0	08/18/2007
August	2007	001	pH, Minimum	1/Day	1	0	08/18/2007

Reporting Period	Station	Parameter	Sample Frequency	Expected	Reported	Violation Date
August 2007	001	pH, Maximum	1/Day	1	0	08/19/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/19/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/20/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/20/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/21/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/21/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/22/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/22/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/23/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/23/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/24/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/24/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/25/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/25/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/26/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/26/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/27/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/27/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/28/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/28/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/29/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/29/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/30/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/30/2007
August 2007	001	pH, Maximum	1/Day	1	0	08/31/2007
August 2007	001	pH, Minimum	1/Day	1	0	08/31/2007
December 2007	581	Sludge Fee Weight	1/Year	1	0	12/01/2007

Westfield Center should continue current operation and maintenance practices, which allow their WWTP to consistently meet its NPDES Permit limits.

If you have any comments or questions regarding this correspondence, you may contact me at (330) 963-1110.

Respectfully,



Charles E. Allen
 Environmental Engineer
 Division of Surface Water

CEA/mt

File: Public/Westfield Center/P&C