



Environmental
Protection Agency

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

Re: Sandusky County
Adams Acres Subdivision
Sewerage

April 11, 2011

Mr. Steve Shiets
Sandusky County Sanitary Engineer
2100 Countryside Place
Fremont, Ohio 43420-9574

Dear Mr. Shiets:

On March 1, 2011, an inspection was made of the wastewater treatment facility which serves the Adams Acres Subdivision. In addition to yourself, Mr. Clay Schwochow, operator of this facility, Mr. Tom Fry, and Zack Mulder (intern), from your office, were also present. Observations and recommendations noted during the inspection are as follows:

1. It was indicated that very high flows were received at the plant the previous day, as Northwest Ohio experienced heavy rains and rapid snow melt. (DMR reported flow of 0.2264 MGD on 2/28/11)
2. The high flows caused the level of the aeration and clarifier tanks to surcharge to the top of the tanks. It was indicated that at least one of the aeration tanks had overflowed.
3. The wastewater treatment plant (WWTP) consists of two parallel package plants, which are dosed alternately. Each half includes a 'manual clean' bar screen.
4. The plant was operating, however, due to the aeration being provided at only one end of the tanks, very little aeration reaches the far end of each tank. The aeration tanks should be checked for accumulation of solids. The solids should be removed as necessary.
5. The sludge returns and surface skimmers were all operational.
6. Higher than normal flows were still apparent as the flow from the clarifiers was above the effluent discharge weir. The discharge from the clarifier was observed to contain floating solids and visible flock. (pictures enclosed)
7. The two east beds of the four sand filters were in use and flooded. The southwest bed needs to be cleaned.
8. The north side of the sand filters appeared to have overflowed with signs of channelized flow to the stream. It was indicated that freezing conditions resulted in overflowing the filters during the winter and during the recent high flows.
9. Disinfection is required to be provided from May through October.

Operator Log Requirements

Required record keeping and documentation at the facility must be implemented immediately. A log book must be developed to keep an up to date record for wastewater system operations and maintenance, which contains at a minimum, the following information:

- Identification of the sewerage system, or treatment works;
- date and times of arrival and departure for the operator of record;
- specific operation and maintenance activities that affect or have the potential to affect the quality or quantity of sewage received and/or effluent produced;
- results of tests performed and samples taken, unless documented on a laboratory bench sheet;
- performance of preventative maintenance and repairs or requests for repair of the equipment that affect or have the potential to affect the quality or quantity of sewage conveyed, effluent produced;
- and identification of the persons making entries.

The records must be kept up to date, contain a minimum of three months data at all times, and be maintained on site for at least three years.

OAC Chapter 3745-7-09: Operator Certification for Public Water Systems and Wastewater Treatment Works (copy enclosed) is available at: <http://www.epa.state.oh.us/ddagw/rules.aspx>.

Infiltration and Inflow Study

The Infiltration and Inflow Study was received on April 1, 2008, as required by the NPDES permit schedule of compliance. The plan was acceptable as submitted. It was indicated that the plan has been implemented and that a few items have yet to be completed. At this time, please submit an update to item #6 *Implementation Schedule for future I/I Work*; to include the date the item was completed and details of the items and dates for the completion of the remaining items. This update should be submitted as soon as possible, but no later than June 1, 2011.

As evident by the high flows and overflowing treatment tanks noted above, additional efforts are still needed to address the I/I received at this facility.

E-DMR – NOV

A review of your discharge monitoring reports (DMRs) has been conducted. A list of permit violations (04/2006 thru 02/2011) is enclosed.

If there are any questions, please advise.

Yours truly,


Mary Beth Cohen
Division of Surface Water

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pc: Sandusky County Commissioners
Sandusky County Health Department
(DSW-NWDO File)

Adams Acres Subdivision 2PG00082

Limit Violations (April 2006 thru February 2011)

Reporting Period	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
April 2006	001	00300	Dissolved Oxygen	1D Conc	5.0	3.7	4/5/2006
April 2006	001	00300	Dissolved Oxygen	1D Conc	5.0	4.2	4/13/2006
April 2006	001	00300	Dissolved Oxygen	1D Conc	5.0	2.7	4/20/2006
April 2006	001	00300	Dissolved Oxygen	1D Conc	5.0	2.4	4/26/2006
May 2006	001	00300	Dissolved Oxygen	1D Conc	5.0	2.7	5/4/2006
May 2006	001	00300	Dissolved Oxygen	1D Conc	5.0	1.1	5/11/2006
May 2006	001	00300	Dissolved Oxygen	1D Conc	5.0	4.6	5/18/2006
May 2006	001	00300	Dissolved Oxygen	1D Conc	5.0	.8	5/26/2006
June 2006	001	00300	Dissolved Oxygen	1D Conc	5.0	1.	6/1/2006
June 2006	001	00300	Dissolved Oxygen	1D Conc	5.0	1.4	6/8/2006
August 2006	001	00530	Total Suspended Solids	30D Conc	12	13.675	8/1/2006
August 2006	001	00530	Total Suspended Solids	7D Conc	18	26.6	8/15/2006
August 2006	001	00530	Total Suspended Solids	7D Conc	18	20.1	8/22/2006
October 2006	001	50060	Chlorine, Total Residu	1D Conc	0.019	.1	10/6/2006
March 2007	001	80082	CBOD 5 day	7D Qty	2.0	2.89098	3/1/2007
May 2007	001	00300	Dissolved Oxygen	1D Conc	5.0	2.6	5/11/2007
March 2008	001	00300	Dissolved Oxygen	1D Conc	5.0	4.6	3/20/2008
June 2008	001	31616	Fecal Coliform	30D Conc	1000	10000.	6/1/2008
June 2008	001	00300	Dissolved Oxygen	1D Conc	5.0	3.8	6/12/2008
June 2008	001	31616	Fecal Coliform	7D Conc	2000	10000.	6/15/2008
June 2008	001	31616	Fecal Coliform	7D Conc	2000	10000.	6/22/2008
July 2008	001	00300	Dissolved Oxygen	1D Conc	5.0	4.	7/9/2008
May 2009	001	31616	Fecal Coliform	30D Conc	1000	10000.	5/1/2009
May 2009	001	31616	Fecal Coliform	7D Conc	2000	10000.	5/22/2009
June 2010	001	31616	Fecal Coliform	30D Conc	1000	4200.	6/1/2010
June 2010	001	31616	Fecal Coliform	7D Conc	2000	4200.	6/15/2010

Frequency Violations (April 2006 thru February 2011)

Reporting Period	Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
November 2006	001	80082	CBOD 5 day	1/Month	1	0	11/01/2007
October 2007	001	31616	Fecal Coliform	1/Month	1	0	10/01/2007
December 2007	001	00300	Dissolved Oxygen	1/Week	1	0	12/22/2007
June 2008	001	50050	Flow Rate	1/Day	1	0	06/30/2008
November 2008	001	00010	Water Temperature	1/Week	1	0	11/08/2008
November 2008	001	00300	Dissolved Oxygen	1/Week	1	0	11/08/2008
June 2010	001	50060	Chlorine, Total Residu	1/2Weeks	1	0	06/15/2010

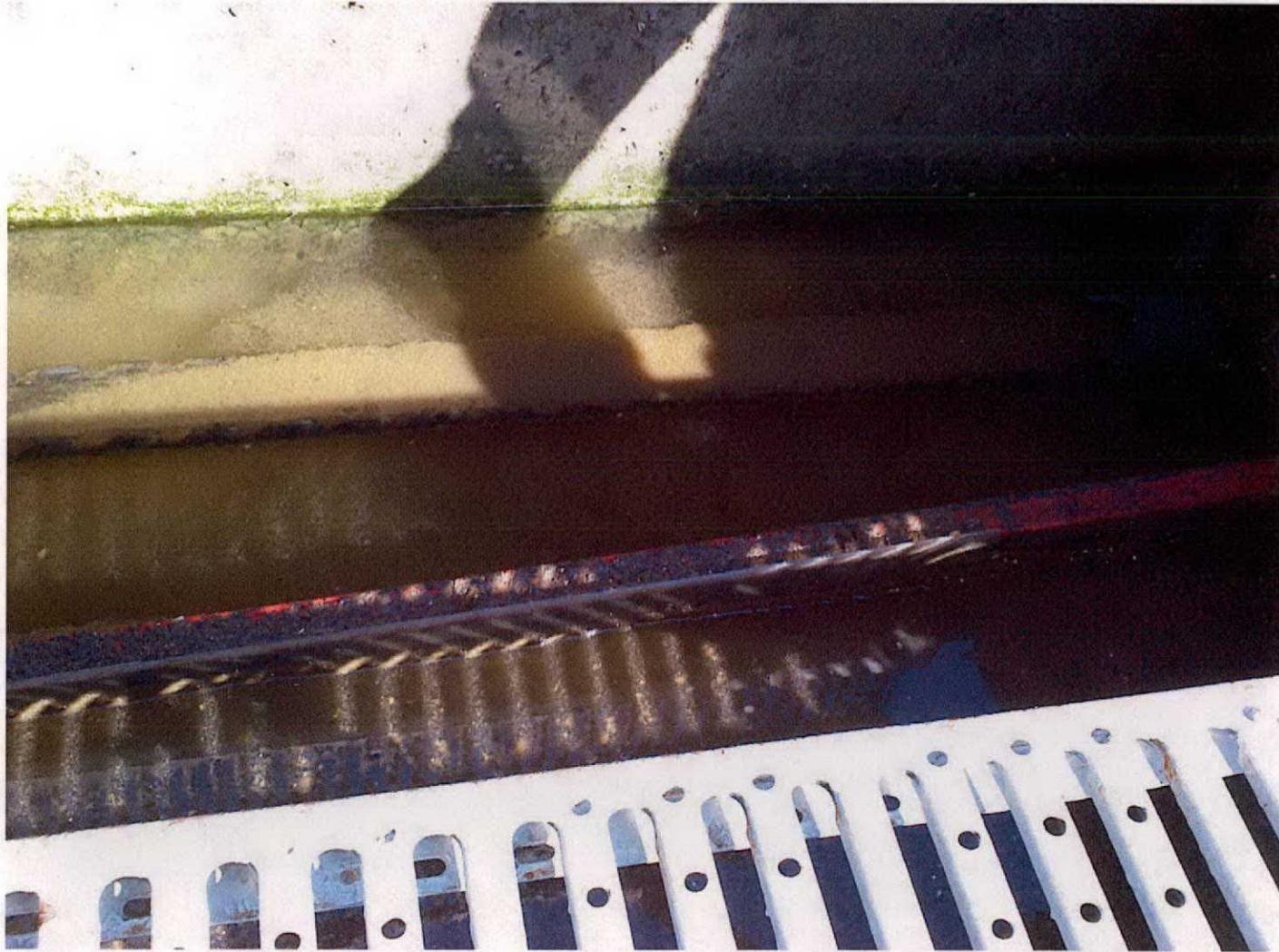
Adams Acres Subdivision WWTP

03/01/2011 Pictures taken by M.B.Cohen

Clarifier effluent weir

page 1 of 3





Adams Acres Subdivision WWTP
Clarifier effluent weir

