



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

December 30, 2008

RE: CITY OF EUCLID WWTP
CUYAHOGA COUNTY
COMPLIANCE EVALUATION INSPECTION
NPDES PERMIT 3PE00003 (OH0031062)

Mr. Hank Gulich, Service Director
City Hall
585 East 222nd Street
Euclid, OH 44123

Dear Mr. Gulich:

On December 16, 2008, this office met with Mr. Robert Gall, Superintendent and Messrs. Bill Donner and John Hall and Ms. Jeannie Fresenko to conduct an inspection of the City of Euclid Wastewater Treatment Plant (WWTP). The purpose of the inspection was to obtain and review information in anticipation of renewal of the National Pollutant Discharge Elimination System (NPDES) permit. The NPDES permit for this facility will expire on January 31, 2009. Receipt of the renewal application by Ohio EPA authorizes the permittee to discharge beyond the expiration date.

The City of Euclid WWTP provides treatment to an average design flow of 22 million gallons per day. The treatment process consists of a pure oxygen activated sludge process, secondary clarification, alum addition for phosphorous removal, microstrainers, chlorination and dechlorination. The treated effluent is discharged to Lake Erie via NPDES outfall 3PE00003001.

During wet weather events flow at the headworks can be diverted to the wet weather auxiliary treatment facility (WWATF) consisting of swirl concentrators and chlorination. The effluent from the WWATF is discharged to Lake Erie via NPDES outfall 3PE00003002.

Waste activated sludge is transferred to the solids handling facility located on Lakeland Boulevard via a dedicated pipeline. An evaluation of the solids handling facility was not conducted as part of this inspection.

The following is a report of the findings from this inspection.

Wastewater Treatment Plant

At the time of the inspection the WWTP appeared to be well maintained and operated. All components necessary for the treatment of current flows were in service. The City continues to implement an effective preventative maintenance program. As discussed, plant improvement projects for calendar year 2008 include but are not limited to:

- Installed new dewatering pumps for both detritus tanks;
- Installed a new drive gear set on the number 2 detritus tank;
- Installed two new sodium bisulfite feed pump systems;
- Rebuilt the number 1 barscreen and in the process of rebuilding the number 2 barscreen;

Mr. Hank Gulich
City of Euclid WWTP
December 30, 2008
Page 2

- Replaced the level sensor for the number 2 swirl tank;
- Replaced the entire polymer feed system with new equipment and a new polymer surge tank;
- Replaced a broken drive shaft in the number 7 settling tank with an in-house designed telescopic shaft;
- Replaced roller bushings on all four microstrainers; and,
- Replaced the stainless steel support cradle on the number 2 microstrainer.

The operator certification rule, Ohio Administrative Code (OAC) Chapter 3745-7 has changed effective December 21, 2006. As discussed, the rule now requires the owner and the operator of record to maintain operation and maintenance records. These records shall be accessible on site for twenty-four hour inspection. Please refer to this rule for the information required to be maintained.

Discharge Monitoring Reports

Discharge monitoring reports (DMR) received by Ohio EPA for the period May 2004 through November 2008, were reviewed for compliance with the final effluent limitations and monitoring requirements of the NPDES permit. A summary of the specific violations are cited in Attachment A (enclosed). The violations were discussed as part of this inspection.

Final effluent limitation violations appear to have been resolved and were addressed by the City through correspondence to this office as required by Part III, item 12 of the NPDES permit. No additional information is required.

The frequency violations appear to have been a failure to collect the appropriate number of samples within a given week or the use of an incorrect reporting code or the failure to recognize a reporting requirement. As discussed, a week starts with the first day of the month and ends seven days later (i.e. Week 1: days 1 – 7; Week 2: days 8 – 14, etc.). Sampling and reporting protocols were changed accordingly to avoid recurring violations. As a result frequency violations have not occurred since 2005. No additional information is required.

As noted by Attachment A, numerous reporting code violations have occurred. Please be advised, the use of an "A" code does not provide relief from a monitoring requirement. The more repetitive use of the "A" code for flow and pH reporting appears to have been corrected since the purchase of a new flow meter and new pH probe. As explained by the City, "A" codes have been used in lieu of providing data when a 24-hour composite sample could not be obtained. This office recognizes the fact that the NPDES permit requires a 24-hour composite sample on a daily basis for several parameters. As discussed, reporting analytical data for parameters that do not meet the sampling period criterion can still be analyzed and reported on the DMR with a comment to explain the circumstances.

Laboratory

The laboratory area appeared to be clean and well kept. Replacement of the ceiling tiles in the laboratory area was in progress. Samples required by the NPDES permit are collected by plant personnel and analyzed by the in-house laboratory except for metals and cyanide which are sent to a contract commercial laboratory. Samples sent to the commercial laboratory are

Mr. Hank Gulich
City of Euclid WWTP
December 30, 2008
Page 3

submitted under a Chain of Custody. Analytical procedures are documented in writing and maintained in bound documents at the appropriate analytical station. The Performance Evaluation Report DMR-QA study number 28 indicates all analyses reported were within the "acceptable" range of analytical precision.

In accordance with Part III, item 6 of the NPDES permit the laboratory's Quality Assurance/Quality Control (QA/QC) program must include a written procedure for the proper collection, preservation and handling of all samples. This would include the procedure for tracking samples that are analyzed in-house. Log books with information such as, but not limited to, location, date, time and person collecting the sample would satisfy this QA/QC criterion. Completion of a written procedure must be confirmed in writing to this office.

Pretreatment Program

A reconnaissance inspection of the pretreatment program was conducted. No program deficiencies were noted.

Collection System

The Ohio Administrative Code 3745-7-02 requires the designation of an operator of record (the individual identified as the on-site certified operator) to oversee the technical operation of the sewerage system. The operator of record must have a valid certificate. By definition a sewerage system includes pipes, pump stations and force mains that collect and convey wastes to a point of treatment. In accordance with OAC 3745-7-04, Euclid's collection system is classified as a Class II sewerage system requiring an operator of record with a Class II wastewater collection operator certificate or a Class II, III or IV wastewater works operator certificate. Based upon this inspection it is our understanding that WWTP personnel are not the designated operator of record for the collection system. Provide the name and certification of the individual serving as the operator of record for the City of Euclid collection system as required by OAC Chapter 3745-7.

The Brandywine pump station which serves both the cities of Euclid and Richmond Heights was replaced under permit-to-install number 02-21001 in 2005. Since its replacement, the City of Euclid has reported overflow events during wet weather conditions. Dye testing and smoke testing of the sewer system has been performed in both cities in an effort to identify sources of infiltration and inflow. It is our understanding that residential cross connections have been identified in both cities; however, the elimination of these connections has not been addressed. A schedule for eliminating the cross connections must be established and confirmed in writing to this office. This schedule should then be updated when submitting the Sanitary Sewer Overflow 5-Day Follow-Up Report (Ohio EPA Form 4237).

Conclusion

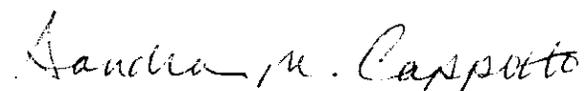
This office will proceed with drafting a renewal NPDES permit for the City of Euclid WWTP which will be sent under separate cover. Any comments regarding the draft permit must be submitted in writing during the public notice period.

Mr. Hank Gulich
City of Euclid WWTP
December 30, 2008
Page 4

A response to collection certification, the laboratory QA/QC procedure and the schedule for eliminating cross connections tributary to the Brandywine pump station must be submitted in writing to this office within fifteen days of the above date of this letter.

If you should have any questions, please contact this office at (330) 963-1124.

Sincerely,



Sandra M. Cappotto
Environmental Scientist
Division of Surface Water

SMC/mt

Enclosure: Attachment A

cc: Robert Gall, Superintendent, City of Euclid (w/enclosure)
Mayor and Council, City of Euclid (w/enclosure)

CITY OF EUCLID WWTP
 NPDES PERMIT NUMBER 3PE00003*HD
 FINAL EFFLUENT LIMITATION and MONITORING VIOLATIONS

ATTACHMENT A

Final Effluent Limitation Violations

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	80082	CBOD 5 day	30D Conc	15	15.2	9/1/2005
001	80082	CBOD 5 day	30D Conc	15	20.1904	3/1/2007
001	80082	CBOD 5 day	7D Conc	23	24.4	3/1/2007
001	80082	CBOD 5 day	30D Qty	1249	1803.21	3/1/2007
001	80082	CBOD 5 day	7D Qty	1915	2214.28	3/1/2007
001	80082	CBOD 5 day	7D Conc	23	31.	3/8/2007
001	80082	CBOD 5 day	7D Qty	1915	2713.67	3/8/2007
001	50060	Chlorine, Total Residual	1D Conc	0.038	.166	5/20/2004
001	50060	Chlorine, Total Residual	1D Conc	0.038	.457	7/8/2004
001	50060	Chlorine, Total Residual	1D Conc	0.038	.078	6/1/2005
001	31616	Fecal Coliform	7D Conc	2000	2383.15	6/1/2004
001	31616	Fecal Coliform	7D Conc	2000	2553.38	9/1/2006
001	31616	Fecal Coliform	7D Conc	2000	6328.75	9/8/2006
001	00552	Oil and Grease, Hexane	1D Conc	10	13.3	6/2/2004
001	00552	Oil and Grease, Hexane	1D Conc	10	10.2	4/7/2005
001	00552	Oil and Grease, Hexane	1D Conc	10	13.7	4/13/2005
001	00552	Oil and Grease, Hexane	1D Conc	10	11.5	7/1/2005
001	00552	Oil and Grease, Hexane	1D Conc	10	18.6	8/26/2005
001	00552	Oil and Grease, Hexane	1D Conc	10	12.	7/28/2006
001	00552	Oil and Grease, Hexane	1D Conc	10	12.1	10/4/2006
001	00552	Oil and Grease, Hexane	1D Conc	10	14.2	12/14/2006
001	00552	Oil and Grease, Hexane	1D Conc	10	12.8	2/20/2007
001	00552	Oil and Grease, Hexane	1D Conc	10	30.3	3/14/2007
001	00552	Oil and Grease, Hexane	1D Conc	10	17.7	4/9/2007
001	00552	Oil and Grease, Hexane	1D Conc	10	19.3	4/16/2007
001	00552	Oil and Grease, Hexane	1D Conc	10	15.1	4/23/2007
001	00665	Phosphorus, Total (P)	7D Conc	1.5	1.595	3/8/2007
001	00665	Phosphorus, Total (P)	7D Qty	125	149.806	3/8/2007
001	00530	Total Suspended Solids	30D Qty	1666	1902.55	3/1/2007
001	00530	Total Suspended Solids	7D Conc	30	34.	3/8/2007
001	00530	Total Suspended Solids	7D Qty	2498	3099.63	3/8/2007

Monitoring Code Violations

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	80082	CBOD 5 day			AD	9/8/2004
001	80082	CBOD 5 day			AD	8/7/2005
001	00300	Dissolved Oxygen			AJ	5/5/2004
001	00300	Dissolved Oxygen			AJ	5/6/2004
001	00300	Dissolved Oxygen			AJ	5/7/2004
001	00300	Dissolved Oxygen			AJ	5/8/2004
001	00300	Dissolved Oxygen			AJ	5/9/2004
001	00300	Dissolved Oxygen			AJ	5/18/2004
001	00300	Dissolved Oxygen			AJ	5/19/2004
001	00300	Dissolved Oxygen			AJ	5/24/2004
001	00300	Dissolved Oxygen			AJ	7/26/2004
001	00300	Dissolved Oxygen			AJ	7/27/2004
001	00300	Dissolved Oxygen			AJ	7/28/2004
001	00300	Dissolved Oxygen			AJ	7/29/2004
001	00300	Dissolved Oxygen			AJ	7/30/2004
001	00300	Dissolved Oxygen			AJ	7/31/2004
001	00300	Dissolved Oxygen			AJ	8/5/2004
001	00300	Dissolved Oxygen			AJ	9/10/2004
001	00300	Dissolved Oxygen			AJ	9/11/2004
001	00300	Dissolved Oxygen			AJ	9/12/2004
001	00300	Dissolved Oxygen			AJ	9/13/2004
001	00300	Dissolved Oxygen			AJ	9/14/2004
001	00300	Dissolved Oxygen			AJ	9/15/2004
001	00300	Dissolved Oxygen			AJ	9/18/2004
001	00300	Dissolved Oxygen			AJ	9/19/2004
001	00300	Dissolved Oxygen			AD	11/5/2004
001	00300	Dissolved Oxygen			AD	11/6/2004
001	00300	Dissolved Oxygen			AD	11/7/2004
001	00300	Dissolved Oxygen			AD	11/29/2004
001	00300	Dissolved Oxygen			AD	11/30/2004
001	00300	Dissolved Oxygen			AD	12/1/2004
001	00300	Dissolved Oxygen			AD	12/2/2004
001	00300	Dissolved Oxygen			AD	12/3/2004
001	00300	Dissolved Oxygen			AD	12/4/2004
001	00300	Dissolved Oxygen			AD	12/5/2004
001	00300	Dissolved Oxygen			AD	12/6/2004
001	00300	Dissolved Oxygen			AD	12/7/2004
001	00300	Dissolved Oxygen			AJ	12/11/2004
001	00300	Dissolved Oxygen			AJ	12/12/2004
001	00300	Dissolved Oxygen			AD	12/19/2004
001	00300	Dissolved Oxygen			AJ	12/22/2004
001	00300	Dissolved Oxygen			AJ	12/23/2004
001	00300	Dissolved Oxygen			AJ	12/24/2004

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	00300	Dissolved Oxygen			AJ	12/25/2004
001	00300	Dissolved Oxygen			AJ	12/26/2004
001	00300	Dissolved Oxygen			AJ	12/27/2004
001	00300	Dissolved Oxygen			AJ	12/28/2004
001	00300	Dissolved Oxygen			AJ	12/29/2004
001	00300	Dissolved Oxygen			AJ	12/30/2004
001	00300	Dissolved Oxygen			AJ	1/15/2005
001	00300	Dissolved Oxygen			AJ	1/16/2005
001	00300	Dissolved Oxygen			AD	1/22/2005
001	00300	Dissolved Oxygen			AD	1/23/2005
001	00300	Dissolved Oxygen			AJ	1/25/2005
001	00300	Dissolved Oxygen			AJ	1/26/2005
001	00300	Dissolved Oxygen			AJ	1/27/2005
001	00300	Dissolved Oxygen			AJ	1/28/2005
001	00300	Dissolved Oxygen			AD	1/31/2005
001	00300	Dissolved Oxygen			AJ	2/7/2005
001	00300	Dissolved Oxygen			AJ	2/9/2005
001	00300	Dissolved Oxygen			AJ	2/10/2005
001	00300	Dissolved Oxygen			AJ	2/11/2005
001	00300	Dissolved Oxygen			AJ	2/24/2005
001	00300	Dissolved Oxygen			AJ	2/25/2005
001	00300	Dissolved Oxygen			AJ	2/26/2005
001	00300	Dissolved Oxygen			AJ	3/3/2005
001	00300	Dissolved Oxygen			AJ	3/4/2005
001	00300	Dissolved Oxygen			AJ	3/5/2005
001	00300	Dissolved Oxygen			AJ	3/6/2005
001	00300	Dissolved Oxygen			AD	5/14/2005
001	00300	Dissolved Oxygen			AD	5/15/2005
001	00300	Dissolved Oxygen			AD	7/10/2005
001	00300	Dissolved Oxygen			AD	9/18/2005
001	00300	Dissolved Oxygen			AD	1/24/2006
001	00300	Dissolved Oxygen			AD	11/25/2006
001	00300	Dissolved Oxygen			AD	11/26/2006
001	00300	Dissolved Oxygen			AD	2/3/2007
001	00300	Dissolved Oxygen			AD	2/4/2007
001	00300	Dissolved Oxygen			AD	2/5/2007
001	00300	Dissolved Oxygen			AD	2/11/2007
001	31616	Fecal Coliform			AK	10/17/2006
001	50050	Flow Rate			AD	10/31/2005
001	50050	Flow Rate			AD	1/4/2006
001	50050	Flow Rate			AD	1/5/2006
001	50050	Flow Rate			AD	1/6/2006
001	50050	Flow Rate			AD	1/7/2006
001	50050	Flow Rate			AD	1/8/2006
001	50050	Flow Rate			AD	1/9/2006

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	50050	Flow Rate			AD	1/10/2006
001	50050	Flow Rate			AD	1/11/2006
001	50050	Flow Rate			AD	1/12/2006
001	50050	Flow Rate			AD	1/13/2006
001	50050	Flow Rate			AD	1/14/2006
001	50050	Flow Rate			AD	1/15/2006
001	50050	Flow Rate			AD	1/16/2006
001	50050	Flow Rate			AD	1/17/2006
001	50050	Flow Rate			AD	1/18/2006
001	50050	Flow Rate			AD	7/25/2006
001	50050	Flow Rate			AD	7/26/2006
001	50050	Flow Rate			AD	7/27/2006
001	50050	Flow Rate			AD	7/28/2006
001	50050	Flow Rate			AD	7/29/2006
001	50050	Flow Rate			AD	7/30/2006
001	50050	Flow Rate			AD	7/31/2006
001	50050	Flow Rate			AD	8/1/2006
001	50050	Flow Rate			AD	8/2/2006
001	50050	Flow Rate			AD	8/3/2006
001	50050	Flow Rate			AD	1/22/2007
001	50050	Flow Rate			AD	5/14/2007
001	50050	Flow Rate			AD	5/15/2007
001	50050	Flow Rate			AD	11/3/2007
001	50050	Flow Rate			AD	11/5/2007
001	50050	Flow Rate			AD	11/27/2007
001	50050	Flow Rate			AD	12/14/2007
001	50050	Flow Rate			AD	12/15/2007
001	50050	Flow Rate			AD	12/16/2007
001	50050	Flow Rate			AD	12/17/2007
001	50050	Flow Rate			AD	12/18/2007
001	50050	Flow Rate			AD	12/19/2007
001	50050	Flow Rate			AD	12/20/2007
001	50050	Flow Rate			AD	12/21/2007
001	50050	Flow Rate			AD	4/1/2008
001	50050	Flow Rate			AD	5/20/2008
001	50050	Flow Rate			AD	6/9/2008
001	50050	Flow Rate			AD	10/25/2008
001	00610	Nitrogen, Ammonia (NH3)			AD	9/8/2004
001	00610	Nitrogen, Ammonia (NH3)			AD	8/7/2005
001	61941	pH, Maximum			AD	7/10/2005
001	61941	pH, Maximum			AD	1/10/2006
001	61941	pH, Maximum			AD	1/11/2006
001	61941	pH, Maximum			AD	1/12/2006
001	61941	pH, Maximum			AD	1/13/2006
001	61941	pH, Maximum			AD	1/14/2006

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	61941	pH, Maximum			AD	1/15/2006
001	61941	pH, Maximum			AD	1/16/2006
001	61941	pH, Maximum			AD	1/17/2006
001	61941	pH, Maximum			AD	1/18/2006
001	61941	pH, Maximum			AD	1/19/2006
001	61941	pH, Maximum			AD	1/20/2006
001	61941	pH, Maximum			AD	1/21/2006
001	61941	pH, Maximum			AD	1/22/2006
001	61941	pH, Maximum			AD	12/13/2007
001	61941	pH, Maximum			AD	12/14/2007
001	61941	pH, Maximum			AD	12/15/2007
001	61941	pH, Maximum			AD	12/16/2007
001	61941	pH, Maximum			AD	12/17/2007
001	61941	pH, Maximum			AD	12/18/2007
001	61941	pH, Maximum			AD	12/19/2007
001	61941	pH, Maximum			AD	12/20/2007
001	61941	pH, Maximum			AD	12/21/2007
001	61941	pH, Maximum			AD	12/22/2007
001	61941	pH, Maximum			AD	12/23/2007
001	61941	pH, Maximum			AD	12/24/2007
001	61941	pH, Maximum			AD	12/25/2007
001	61941	pH, Maximum			AD	12/26/2007
001	61941	pH, Maximum			AD	12/27/2007
001	61941	pH, Maximum			AD	12/28/2007
001	61941	pH, Maximum			AD	12/29/2007
001	61941	pH, Maximum			AD	12/30/2007
001	61941	pH, Maximum			AD	12/31/2007
001	61942	pH, Minimum			AD	7/10/2005
001	61942	pH, Minimum			AD	1/10/2006
001	61942	pH, Minimum			AD	1/11/2006
001	61942	pH, Minimum			AD	1/12/2006
001	61942	pH, Minimum			AD	1/13/2006
001	61942	pH, Minimum			AD	1/14/2006
001	61942	pH, Minimum			AD	1/15/2006
001	61942	pH, Minimum			AD	1/16/2006
001	61942	pH, Minimum			AD	1/17/2006
001	61942	pH, Minimum			AD	1/18/2006
001	61942	pH, Minimum			AD	1/19/2006
001	61942	pH, Minimum			AD	1/20/2006
001	61942	pH, Minimum			AD	1/21/2006
001	61942	pH, Minimum			AD	1/22/2006
001	61942	pH, Minimum			AD	12/13/2007
001	61942	pH, Minimum			AD	12/14/2007
001	61942	pH, Minimum			AD	12/15/2007
001	61942	pH, Minimum			AD	12/16/2007

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
001	61942	pH, Minimum			AD	12/17/2007
001	61942	pH, Minimum			AD	12/18/2007
001	61942	pH, Minimum			AD	12/19/2007
001	61942	pH, Minimum			AD	12/20/2007
001	61942	pH, Minimum			AD	12/21/2007
001	61942	pH, Minimum			AD	12/22/2007
001	61942	pH, Minimum			AD	12/23/2007
001	61942	pH, Minimum			AD	12/24/2007
001	61942	pH, Minimum			AD	12/25/2007
001	61942	pH, Minimum			AD	12/26/2007
001	61942	pH, Minimum			AD	12/27/2007
001	61942	pH, Minimum			AD	12/28/2007
001	61942	pH, Minimum			AD	12/29/2007
001	61942	pH, Minimum			AD	12/30/2007
001	61942	pH, Minimum			AD	12/31/2007
001	00530	Total Suspended Solids			AD	9/8/2004
001	00530	Total Suspended Solids			AD	8/7/2005
001	00010	Water Temperature			AD	7/10/2005
001	00010	Water Temperature			AD	2/9/2006
002	80082	CBOD 5 day			AF	7/27/2006
002	80082	CBOD 5 day			AD	6/9/2008
002	50060	Chlorine, Total Residual			AD	6/9/2006
002	50060	Chlorine, Total Residual			AD	9/12/2006
002	50060	Chlorine, Total Residual			AD	9/13/2006
002	50060	Chlorine, Total Residual			AD	9/14/2006
002	31616	Fecal Coliform			AK	7/15/2004
002	31616	Fecal Coliform			AK	10/25/2005
002	31616	Fecal Coliform			AK	9/12/2006
002	31616	Fecal Coliform			AK	9/13/2006
002	31616	Fecal Coliform			AK	9/14/2006
002	31616	Fecal Coliform			AK	10/11/2006
002	31616	Fecal Coliform			AK	10/17/2006
002	31616	Fecal Coliform			AK	10/18/2006
002	31616	Fecal Coliform			AK	7/19/2007
002	31616	Fecal Coliform			AK	8/7/2007
002	31616	Fecal Coliform			AK	8/9/2007
002	31616	Fecal Coliform			AK	8/20/2007
002	50050	Flow Rate			AD	7/17/2005
002	50050	Flow Rate			AD	11/15/2006
002	50050	Flow Rate			AD	11/16/2006
002	50050	Flow Rate			AD	11/17/2006
002	50050	Flow Rate			AD	11/18/2006
002	50050	Flow Rate			AD	11/19/2006
002	50050	Flow Rate			AD	11/20/2006
002	50050	Flow Rate			AD	11/21/2006

Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value	Violation Date
002	50050	Flow Rate			AD	6/9/2008
002	00530	Total Suspended Solids			AF	7/27/2006
002	00530	Total Suspended Solids			AD	6/9/2008
601	61941	pH, Maximum			AD	10/19/2005
601	61941	pH, Maximum			AD	10/20/2005
601	61941	pH, Maximum			AD	10/21/2005
601	61941	pH, Maximum			AD	10/22/2005
601	61941	pH, Maximum			AD	10/23/2005
601	61941	pH, Maximum			AD	10/26/2005
601	61941	pH, Maximum			AD	10/27/2005
601	61941	pH, Maximum			AD	8/7/2006
601	61941	pH, Maximum			AD	8/6/2006
601	61941	pH, Maximum			AD	8/15/2006
601	61941	pH, Maximum			AD	7/13/2007
601	61941	pH, Maximum			AD	7/14/2007
601	61941	pH, Maximum			AD	7/15/2007
601	61941	pH, Maximum			AD	7/21/2007
601	61941	pH, Maximum			AD	7/22/2007
601	61942	pH, Minimum			AD	10/19/2005
601	61942	pH, Minimum			AD	10/20/2005
601	61942	pH, Minimum			AD	10/21/2005
601	61942	pH, Minimum			AD	10/22/2005
601	61942	pH, Minimum			AD	10/23/2005
601	61942	pH, Minimum			AD	10/26/2005
601	61942	pH, Minimum			AD	10/27/2005
601	61942	pH, Minimum			AD	8/7/2006
601	61942	pH, Minimum			AD	8/8/2006
601	61942	pH, Minimum			AD	8/15/2006
601	61942	pH, Minimum			AD	7/13/2007
601	61942	pH, Minimum			AD	7/14/2007
601	61942	pH, Minimum			AD	7/15/2007
601	61942	pH, Minimum			AD	7/21/2007
601	61942	pH, Minimum			AD	7/22/2007

Frequency Violations

Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
001	50092	Mercury, Total (Low Level)	1/Month	1	0	05/01/2004
001	50092	Mercury, Total (Low Level)	1/Month	1	0	10/01/2004
001	00552	Oil and Grease, Hexane	1/Week	1	0	04/15/2005
001	00552	Oil and Grease, Hexane	1/Week	1	0	07/22/2005
001	00552	Oil and Grease, Hexane	1/Week	1	0	09/15/2005
001	00552	Oil and Grease, Hexane	1/Week	1	0	11/15/2005
001	00552	Oil and Grease, Hexane	1/Week	1	0	12/22/2005
001	00665	Phosphorus, Total (P)	2/Week	2	1	06/08/2004
001	00665	Phosphorus, Total (P)	2/Week	2	0	09/01/2004
001	00665	Phosphorus, Total (P)	2/Week	2	1	11/01/2004
001	00665	Phosphorus, Total (P)	2/Week	2	1	11/22/2004
001	00665	Phosphorus, Total (P)	2/Week	2	0	12/08/2004
001	00665	Phosphorus, Total (P)	2/Week	2	0	06/15/2005
001	00665	Phosphorus, Total (P)	2/Week	2	1	11/22/2005
002	31616	Fecal Coliform	1/Day	1	0	05/01/2004
002	31616	Fecal Coliform	1/Day	1	0	05/02/2004
002	31616	Fecal Coliform	1/Day	1	0	05/03/2004
002	31616	Fecal Coliform	1/Day	1	0	05/04/2004
002	31616	Fecal Coliform	1/Day	1	0	05/05/2004
002	31616	Fecal Coliform	1/Day	1	0	05/06/2004
002	31616	Fecal Coliform	1/Day	1	0	05/07/2004
002	31616	Fecal Coliform	1/Day	1	0	05/08/2004
002	31616	Fecal Coliform	1/Day	1	0	05/09/2004
002	31616	Fecal Coliform	1/Day	1	0	05/10/2004
002	31616	Fecal Coliform	1/Day	1	0	05/11/2004
002	31616	Fecal Coliform	1/Day	1	0	05/12/2004
002	31616	Fecal Coliform	1/Day	1	0	05/13/2004
002	31616	Fecal Coliform	1/Day	1	0	05/14/2004
002	31616	Fecal Coliform	1/Day	1	0	05/15/2004
002	31616	Fecal Coliform	1/Day	1	0	05/16/2004
002	31616	Fecal Coliform	1/Day	1	0	05/17/2004
002	31616	Fecal Coliform	1/Day	1	0	05/18/2004
002	31616	Fecal Coliform	1/Day	1	0	05/19/2004
002	31616	Fecal Coliform	1/Day	1	0	05/20/2004
002	31616	Fecal Coliform	1/Day	1	0	05/21/2004
002	31616	Fecal Coliform	1/Day	1	0	05/22/2004
002	31616	Fecal Coliform	1/Day	1	0	05/23/2004
002	31616	Fecal Coliform	1/Day	1	0	05/24/2004
002	31616	Fecal Coliform	1/Day	1	0	05/25/2004
002	31616	Fecal Coliform	1/Day	1	0	05/26/2004
002	31616	Fecal Coliform	1/Day	1	0	05/27/2004
002	31616	Fecal Coliform	1/Day	1	0	05/28/2004
002	31616	Fecal Coliform	1/Day	1	0	05/29/2004

Station	Reporting Code	Parameter	Sample Frequency	Expected	Reported	Violation Date
002	31616	Fecal Coliform	1/Day	1	0	05/30/2004
002	31616	Fecal Coliform	1/Day	1	0	05/31/2004
601	50092	Mercury, Total (Low Level)	1/Month	1	0	05/01/2004
601	50092	Mercury, Total (Low Level)	1/Month	1	0	09/01/2004
601	50092	Mercury, Total (Low Level)	1/Month	1	0	10/01/2004