

Irwin Creek WWTP - NPDES Permit #NC0024945

Month in the Fiscal Year	Permit Limit Violations	Reporting Requirement Violations	Resolution of Permit Limit Violations	Resolution of Reporting Requirement Violations
July 2000	Quarterly violation for Chronic Toxicity	None	Will do additional testing in August	
August 2000	None	None		
September 2000	None	None		
October 2000	None	None		
November 2000	Weekly average violation for Mercury (10/30/00-11/3/00)	None	This violation may be the result of contamination in the sample collection process. New sampling procedures were initiated in February, 2001.	
December 2000	Weekly average violation for Mercury (12/4/00-12/8/00)	None	This violation may be the result of contamination in the sample collection process. New sampling procedures were initiated in February, 2001.	
January 2001	Weekly average violation for Cyanide (1/2/01-1/5/01)	None	The source of the cyanide violation is not known. It is suspected that an industrial user may of discharged a slug discharge of cyanide and that the detection limits for cyanide during this week are showing false postivies.	
February 2001	None	None		
March 2001	None	Sampling frequency violation because of a construction mandated shut down of the plant		Composite samples were taken, but grab samples for pH, Fecal, Total Residual Chlorine, and Dissolved Oxygen were not taken
April 2001	None	None		
May 2001	None	None		
June 2001	daily violation of pH on 8/1/2001	None	The facility was diverting flows to test the new equalization tank, this flow diversion may have caused the alkalinity to drop in the aeration tanks resulting in the pH violation.	

Mallard Creek WRF - NPDES Permit #NC0030210

Month in the Fiscal Year	Permit Limit Violations	Reporting Requirement Violations	Resolution of Permit Limit Violations	Resolution of Reporting Requirement Violations
July 2000 Pipe 001	None	None		
July 2000 Pipe 002	None	None		
August 2000 Pipe 001	None	None		
August 2000 Pipe 002	None	None		
September 2000 Pipe 001	None	None		
September 2000 Pipe 002	None	Once a month monitoring requirement for Nitrate		The nitrate sample was analyzed outside of the required holding time.
October 2000 Pipe 001	None	Did not have sufficient sample to run Total Suspended Residue (10/5/00)		Operators now pour an extra Liter of sample to be kept on site (refrigerated at 4° C +/- 2° C) for 5 days
October 2000 Pipe 002	None	Did not have sufficient sample to run Total Suspended Residue (10/5/00)		Operators now pour an extra Liter of sample to be kept on site (refrigerated at 4° C +/- 2° C) for 5 days
November 2000 Pipe 001	None	None		
November 2000 Pipe 002	None	None		
December 2000 Pipe 001	None	Fecal coliform samples collected on 12/2, 12/3, 12/25, and 12/26/00 received by lab past holding time; BOD5 sample collected on 12/25/00 analyzed past holding time		The courier's used to take the samples to the McAlpine Lab have been reviewed and better procedures put into place to make sure samples arrive at the lab in a timely manner.
December 2000 Pipe 002	Daily maximum violation for Total Suspended Residue (12/1/00)	Fecal coliform samples collected on 12/2, 12/3, 12/25, and 12/26/00 received by lab past holding time; BOD5 sample collected on 12/25/00 analyzed past holding time	Cause is unknown	The courier's used to take the samples to the McAlpine Lab have been reviewed and better procedures put into place to make sure samples arrive at the lab in a timely manner.
January 2001 Pipe 001	None	Nitrate sample was analyzed outside of the recommended holding time		The plant staff failed to collect and turn into the McAlpine lab the required samples to do this analysis. Sampling procedures have been reinforced through further training
January 2001 Pipe 002	None	None		
February 2001 Pipe 001	Daily maximum violation for Mercury (2/27/01); Daily pH violation (2/28/01)	Missed Quarterly Chronic Toxicity test because of ice storm, then because of a construction accident at the influent pump station	The treatment plant failed to follow the new sampling procedures, since the new procedures have been in place no further violations have occurred; A dry lime slurry feed system is used to augment the alkalinity, a temporary caustic feed system is to be completed by May 2001	The Chronic Toxicity sample will be collected and analyzed in March 2001
February 2001 Pipe 002	None	None		

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Month in the Fiscal Year	Permit Limit Violations	Reporting Requirement Violations	Resolution of Permit Limit Violations	Resolution of Reporting Requirement Violations
March 2001 Pipe 001	None	Missed Weekly Metals samples (3/11/01-3/17/01)		Sampling procedures have been reinforced through further training
March 2001 Pipe 002	Daily maximum violation for Fecal Coliform (3/10/01, 3/11/01, 3/12/01, 3/16/01, 3/25/01, 3/26/01, 3/28/01, 3/29/01)	None	Cleaning procedures on the final clarifiers and sand filters have been altered to lessen the chance of loosened algae growth being caught on the UV bulbs which leads to high fecal numbers	
April 2001 Pipe 001	Weekly violation for Fecal Coliform (4/2/01-4/6/01 and 4/9/01-4/12/01); Monthly Fecal Coliform violation; Monthly average violation for Ammonia	None	Violations all related to the ongoing plant recovery from the lift station flooding in February as well as the preexisting process limitations currently being corrected through plant expansion	
April 2001 Pipe 002	Daily maximum violation for Fecal Coliform (4/2/01, 4/5/01, 4/8/01, 4/9/01, 4/11/01, 4/12/01, 4/20/01, 4/22/01, 4/23/01); Monthly average violation for Fecal Coliform; Daily maximum violation for Total Suspended Residue (4/5/01)	None	Fecal counts are believed to be because of poor sample collection. The reuse wet well was chlorinated to ensure no regrowth before delivery to the re-use line.	
May 2001 Pipe 001	None	Missed Quarterly Chronic Toxicity test		Sample will be collected in June 2001
May 2001 Pipe 002	Daily maximum violation (5/4/01, 5/8-18/01, 5/21/01, 5/22/01) and Monthly average violation for Total Suspended Residue; Daily maximum violation (5/7/01, 5/8/01, 5/10-12/01, 5/14/01, 5/25/01, 5/28/01, 5/29/01, 5/31/01) and monthly average violation for Fecal Coliform	None	Fecal counts are believed to be because of poor sample collection. The reuse wet well was chlorinated to ensure no regrowth before delivery to the re-use line.	
June 2001 Pipe 001	None	Stream Sampling Frequency		The permit requires sampling in the Creek above and below the treatment plant, three times a week in June - Sept. This sampling frequency was not put in place until the last week of June.

Mallard Creek WRF - NPDES Permit #NC0030210

Month in the Fiscal Year	Permit Limit Violations	Reporting Requirement Violations	Resolution of Permit Limit Violations	Resolution of Reporting Requirement Violations
June 2001 Pipe 002	cBOD daily limit for 9-days	turbidity recording on June 4th and 5th.	<p>The treatment plant cBOD results for Pipe 001 show the plant in compliance with the daily cBOD limit for the reuse line. However, monitoring on the re-use line show violations of this limit. It is unknown where the contamination is occurring. The plant re-use was shut down on 6/17/01 and put on potable water.</p>	<p>The turbidity meter computer failed for two days on June 4th and 5th. The plants are now reading the meter manually as well as keeping the continuous readings to meet this requirement.</p>

McAlpine Creek WMF - NPDES Permit #NC0024970

Month in the Fiscal Year	Permit Limit Violations	Reporting Requirement Violations	Resolution of Permit Limit Violations	Resolution of Reporting Requirement Violations
July 2000	None	Missed weekly Ammonia, NOX, TKN, Total Phosphorous, and ortho-Phosphorus samples on the Sugar Creek monitoring point SC5 (7/2/01-7/8/01)		The lab developed a sampling schedule for all creek sampling to prevent another occurrence.
August 2000	None	None		
September 2000	None	None		
October 2000	None	None		
November 2000	None	None		
December 2000	Weekly average violation for Cyanide (12/3/00-12/9/00)	None	Positive interference with cyanide is occurring in the analyses. In March, 2001, a revised detection limit was approved by the State and no further cyanide problems have been detected since that point.	
January 2001	Daily maximum violation for Cyanide (1/7/01); Weekly average violation for Cyanide (1/7/01-1/13/01)	None	Positive interference with cyanide is occurring in the analyses. In March, 2001, a revised detection limit was approved by the State and no further cyanide problems have been detected since that point.	
February 2001	Weekly average violation for Cyanide (2/26/01-2/28/01)	Sample bottle for Total Nitrogen had Nitric Acid as the preservative but was labeled as Sulfuric Acid	There was a wide range in the test results between labs, these results were not consistent	Laboratory personnel have changed their procedure for bottle preparation
March 2001	None	None		
April 2001	None	None		
May 2001	None	CBOD sample collected on 5/23/01 was accidentally dechlorinated with sulfuric acid		Employee responsible was made aware of the severity of the situation.
June 2001	None	None		

McDowell Creek WWTP - NPDES Permit #NC0036277

Month in the Fiscal Year	Permit Limit Violations	Reporting Requirement Violations	Resolution of Permit Limit Violations	Resolution of Reporting Requirement Violations
July 2000	None	None		
August 2000	None	None		
September 2000	None	None		
October 2000	Quarterly violation for Chronic Toxicity	None	Changing to glass sample containers and doing additional testing to determine why the test failed	
November 2000	Quarterly violation for Chronic Toxicity on first retest; Second retest passed	None	Replaced plastic sample containers with glass containers and retest passed	
December 2000	None	None		
January 2001	None	None		
February 2001	None	None		
March 2001	None	None		
April 2001	None	None		
May 2001	None	None		
June 2001	None	None		

Sugar Creek WWTP - NPDES Permit #NC0024937

Month in the Fiscal Year	Permit Limit Violations	Reporting Requirement Violations	Resolution of Permit Limit Violations	Resolution of Reporting Requirement Violations
July 2000	Weekly average violation for Cadmium (7/24/00-7/28/00)	None	Cause of the cadmium violation is unknown. It is suspected that the contamination may of occurred when a contractor was cleaning the old sludge storage tanks.	
August 2000	Daily maximum violation for cadmium (8/3/01), Weekly average violation for Cadmium (8/1/01-8/4/01)	None	Cause of the cadmium violation is unknown. It is suspected that the contamination may of occurred when a contractor was cleaning the old sludge storage tanks.	
September 2000	None	None		
October 2000	None	None		
November 2000	None	Effluent sampler failed to collect samples on 11/24/00		Sampler was changed out and sample were collected 11/25/01
December 2000	None	None		
January 2001	None	None		
February 2001	None	None		
March 2001	None	None		
April 2001	None	None		
May 2001	Weekly average violation for Fecal Coliform (5/14/01-5/19/01)	None	Chlorine Solution line was broken prior to Fecal sample being taken which caused a high Fecal count, this line has been repaired	
June 2001	None	None		

McDowell Park WWTP - NPDES Permit #NC0029220

Month in the Fiscal Year	Permit Limit Violations	Reporting Requirement Violations	Resolution of Permit Limit Violations	Resolution of Reporting Requirement Violations
July 2000	None	None		
August 2000	None	None		
September 2000	None	None		
October 2000	None	None		
November 2000	None	None		
December 2000	None	None		
January 2001	None	None		
February 2001	None	None		
March 2001	None	None		
April 2001	None	None		
May 2001	None	None		
June 2001	None	None		