EXHIBIT B-3

MALCOLM PIRNIE

COMBINED SEWER SYSTEM INLINE STORAGE ASSESSMENT STUDY

TECHNICAL MEMORANDUM NO. 1.2

CITY OF FORT WAYNE, INDIANA

NOVEMBER 2004 (Technical Memorandum No. 1)

Revised: MARCH 2005 (Technical Memorandum No. 1.1)

Revised: AUGUST 2005 (Technical Memorandum No. 1.2)

Revised: SEPTEMBER 2007

1.0 STUDY OBJECTIVES

The Environmental Protection Agency (EPA) and the Indiana Department of Environmental Management (IDEM) have established Nine Minimum Controls (NMCs) that Combined Sewer Overflow (CSO) communities should employ to optimize operation of the collection system and reduce overflows. The Nine Minimum Controls form the basis for the City of Fort Wayne's Combined Sewer System Operational Plan (CSSOP). Maximum use of collection system storage is one of the NMCs. Under NMC requirements, maximizing use of the collection system for storage can include incorporating relatively simple modifications to the collection system to store wet weather flows to reduce CSO discharges, if those modifications do not create hydraulic or system flooding concerns.

The overall goal of this project is to perform an assessment of the inline storage capacity of the trunk sewers that serve the combined sewer subbasins in Fort Wayne. The assessment will identify the subbasins whose combined trunk sewers have the ability to store ample wet weather flows without causing any detrimental surcharges or basement flooding, and the resulting benefit in terms of reduction in overflow volume. The first phase of this effort is to assess the potential for inline storage using simple screening methodologies, and identify critical locations in the subbasins that control the allowable surcharge. The second phase of this study investigates the operation of the inline storage, and the impact of the filling/dewatering process, through annual model simulations. These simulations provide estimates of reductions in annual overflow volumes with assumed inline storage. The third and final phase predicts the reductions in number of annual overflow events and overflow volumes with increase in weir heights at regulators of selected subbasins. This technical memorandum presents the methodology used to perform these three phases, the details of the evaluation using XP SWMM modeling, and results of the evaluation.

2.0 METHODOLOGY USED TO ASSESS POTENTIAL FOR INLINE STORAGE

The following method was used to evaluate the storage potential for the combined trunk sewers in subbasins:

Step 1. Identify subbasins with trunk sewer sizes larger than 36 inches in diameter. The subbasins with smaller trunk sewer sizes (i.e. less than or equal to 36-inch diameter) were eliminated from further evaluation. It was assumed that subbasins that have trunk sewer size less than 36-inch diameter are not likely to have viable inline storage volume to store adequate wet weather flows.

Step 2. For the subbasins that have trunk sewer sizes greater than 36-inch diameter, the full volume of trunk sewers greater than 36-inch diameter was calculated.

Step 3. Using results from completed annual continuous model simulations (performed as part of the LTCP development by Malcolm Pirnie in 2001 using XP SWMM), the maximum total annual volume that could be stored in the trunk sewers was estimated. Using the model-predicted overflow hydrographs, the volume of each overflow event was calculated and compared to the available in-line storage. If the overflow volume was less than the available storage, then the event was assumed to be captured in its entirety. If the overflow volume was more than the available storage, then the portion in excess of the available storage was assumed to overflow. It was also assumed that the full storage volume was available for each storm event, i.e., dewatering of the storage was not accounted for.

This methodology intentionally provides an estimate of the maximum total annual volume that could be stored. A maximum estimate was desired because the estimated stored volumes were subsequently used in Step 4 to eliminate basins that were clearly not candidates for inline storage. Two

assumptions cause the estimate to represent the maximum total annual volume that could be stored:

- First, as noted above, dewatering of storage was not accounted for. Therefore, in a situation with back-to-back overflow events, it was assumed that the full inline storage volume was available for both events. In reality, the full volume may not be available for the second event, if the overflow from the first event is still being dewatered from storage.
- Second, it was assumed that the full inline storage volume could be used. In reality, the surcharge necessary to fill the full inline storage volume may be unacceptable, i.e., cause basement flooding conditions in the subbasin.

Step 4. If the estimated maximum total annual stored volume is less than 20 percent of the total annual overflow volume, then the associated subbasin was eliminated from further evaluation. This 20 percent cut off point was based on engineering judgment; given that the estimate of benefit in the screening step is conservatively maximized (see above), a 20 percent threshold is considered appropriate

Step 5. The subbasins identified above (trunk sewers greater than 36 inches in diameter [Step 1] and meeting the 20 percent criteria [Steps 2, 3 & 4]) are considered viable candidates for inline storage. However, fully assessing the estimated benefit (in terms of reduction in annual overflow volume) from inline storage must also account for the maximum allowable hydraulic grade lines in each subbasin, and the impact from the filling/dewatering process on the capture of sequential overflow events. Step 5 used a design storm analysis to provide a first indication of the wet-weather conditions that trigger an unacceptable hydraulic grade line condition in the trunk sewers under existing conditions.

Step 6. The previous step studied the effect of a single rain event on the combined sewer system of the above identified subbasins. As part of Step 6, annual model simulations were performed on these subbasins, incorporating dynamic controls to induce inline storage while maintaining HGL set points.

Step 7. The changes to the annual overflow volumes and the number of annual overflow events from existing conditions were documented.

Step 8. Subbasins with the ability to pass large rainfall events, and hence the potential ability to store relatively significant volumes were selected as part of Step 8. Annual model simulations were again performed, incorporating increased weir heights as a simpler method of inducing inline storage while maintaining HGL set points.

Step 9. The changes to the annual overflow volumes and the number of annual overflow events from existing conditions were again documented.

3.0 ASSESSMENT OF INLINE STORAGE POTENTIAL

The City of Fort Wayne has a total of 40 combined sewer subbasins. Out of the 40, 38 subbasins were analyzed for inline storage potential in their respective combined trunk sewers. Subbasins M10120 and Q14025A were not included in the inline storage assessment study because the subbasin models were not calibrated and construction of sewer separation projects has been completed.

3.1 SUBBASINS ELIMINATED BASED ON TRUNK SEWER DIAMETER SIZE (STEP 1)

From the total of 38 subbasins, 13 subbasins were eliminated based on the criteria set by Step 1 (Section 2). Table 3-1 lists the subbasins that were eliminated and the largest trunk sewer diameter for the corresponding subbasin.

TABLE 3-1

SUBBASINS ELIMINATED BASED ON TRUNK SEWER DIAMETER SIZE

Subbasin	Largest Diameter of Trunk Sewer
J02089	30-inch
K15112	24-inch
K19071	18-inch
L06079	18-inch
M14007	12-inch
M18256	24-inch
M18261	21-inch
N22005	24-inch
O06017	36-inch
O22061B	24-inch
Q06002	24-inch
Q06049	24-inch
S02008	24-inch

3.2 SUBBASINS ELIMINATED BASED ON ANNUAL STORED OVERFLOW VOLUME (STEPS 2 TO 4)

Table 3-2 lists the subbasins that were eliminated based on the criteria set by Steps 2 through 4 (Section 2) and the total assumed annual stored overflow volume for these subbasins as percent of the total annual overflow volume.

TABLE 3-2

SUBASINS ELIMINATED FOR LACK OF STORAGE CAPACITY

Subbasin	Total Assumed Annual Stored Overflow Volume as Percent of the Total Annual Overflow Volume
M10237	13%
O22092	12%
M18271	15%
R14075	15%
N23078	14%

3.3 CANDIDATE SUBBASINS FOR INLINE STORAGE ASSESSMENT STUDY

Twenty subbasins remained after the two screening steps described above and so were identified as "candidate" subbasins for a full assessment of inline storage. Table 3-3 lists the candidate subbasins and their corresponding trunk sewer diameter sizes.

TABLE 3-3

CANDIDATE SUBBASINS AND ASSOCIATED TRUNK SEWER DIAMETERS

Subbasin	**Trunk Sewer Diameters**
J03012	42-inch to 60-inch
K06290A	72-inch
K06290B	60-inch to 72-inch
K07026	42-inch
K11004	54-inch to 66-inch
K11010	72-inch to 126-inch
K15009	42-inch to 72-inch
L06078	42-inch to 48-inch
L06086	48-inch
L06087/L06438	42-inch to 72-inch
L19252	48-inch to 66-inch
M06044	42-inch
M06711	42-inch to 60-inch
M10250	42-inch to 48-inch
N06007	60-inch
O10101	42-inch to 66-inch
P06014	48-inch to 96-inch
P06119	48-inch
R14033	42-inch to 48-inch

3.4 ESTABLISHING HGL SET POINTS FOR CANDIDATE SUBBASINS

As noted above, assessing the benefit of inline storage requires definition of the HGL set points necessary to protect the subbasin from unacceptable surcharge. Knowledge of the local system combined with XP SWMM model results were used to identify the HGL set points. The set points are made up of two measures:

- First, the locations where the set points are applied. These are manholes that are predicted to exhibit the worst surcharging during simulated design storms.
- Second, the depth set point that must be maintained. This depth set point was defined based on:

  1). For sewers where the depth of pipe crown is greater than 8 feet from grade: Maintain 8 feet of freeboard.

  2). For sewers where the depth of pipe crown is less than 8 feet from grade: Maintain non-surcharged conditions.

For the remainder of this Technical Memorandum, any discussion of HGL set points refers to the HGL set points identified through the above procedure.

3.5 DESIGN STORM ANALYSIS

As an initial indicator of the benefit from inline storage, Malcolm Pirnie performed design storm simulations for the candidate subbasins under existing conditions. The synthetic design storms used for this analysis were defined during the City's LTCP development. The design storms return periods, durations, and rainfall depths are as follows:

1) 3-month, 6-hour storm (1.04 inches)
2) 6-month, 6-hour storm (1.31 inches)
3) 9-month, 6-hour storm (1.49 inches)
4) 1-year, 6-hour storm (1.62 inches)

5) 2-year, 6-hour storm (1.89 inches)

6) 5-year, 6-hour storm (2.28 inches)

7) 10-year, 6-hour storm (2.64 inches)

8) 25-year, 6-hour storm (3.22 inches)

For each subbasin, the smallest design storm that violated the HGL set points described in Section 3.4 was identified. This design storm is referred to as the critical, or threshold, design storm. It is important to recognize that these simulations were performed assuming existing conditions, i.e., no inline storage. Therefore, they identify the largest design storm for which some level of inline storage can be used. They do not identify the largest design storm that can be fully captured using inline storage.

3.6 RESULTS OF DESIGN STORM ANALYSIS

As presented in Sections 3.4 and 3.5, the HGL set points and the threshold design storm that violated the set points were determined for each candidate subbasin. The XP SWMM model simulation results for these subbasins are presented in Table 3-4 under two scenarios:

1) For Sewers with Diameter ≥ 42-inch Only (Trunk Sewers) – This section of the table presents the results based on the critical HGL set point identified in the 42-inch or greater diameter trunk sewers in the subbasin. Under this scenario, the critical HGL set point may still be violated in smaller-diameter tributary systems within the subbasins.

2) For Entire Subbasin (Trunk Sewers and Sewers with Diameter < 42-inch) – This section of the table presents the results based on the critical HGL set point identified for any sewer in the subbasin (including the sewers that are less than 42-inch diameter in size). There could be possible local bottleneck points in the

smaller diameter sewers which would surcharge or flood for a smaller storm even though the trunk sewers have the capacity to handle a much larger storm.

The model results presented in Table 3-4 indicate the following assuming an HGL set point in the 42-inch or greater diameter sewers:

- Five subbasins (Subbasins K11004, L06078, L06086, N06007 and L19252) do not violate the critical HGL set points under existing conditions even during a 25-year, 6-hour design storm.
- Eight subbasins (Subbasins K07026, K15009, L06087/L06438, K06290B, M06711, M10250 and P06014) do not violate the critical HGL set points under existing conditions during a 10-year, 6-hour design storm.
- Subbasin M06044 does not violate the critical HGL set points under existing conditions during a 5-year, 6-hour design storm.

The 25-year and 10-year design storms indicate the varying degree of risk (basement backups & flooding) associated with them. It should be noted while interpreting the above results, that the subbasins that are predicted to have storage potential for a 25-year storm would provide storage for a 10-year storm at a lesser risk level.

TABLE 3-4

FORT WAYNE CSSOP INLINE STORAGE ASSESSMENT STUDY

THRESHOLD DESIGN STORMS

SUBBASIN[1]	FOR SEWERS WITH DIAMETER ≥42-INCH ONLY (TRUNK SEWERS)			FOR ENTIRE SUBBASIN (TRUNK SEWERS AND SEWERS WITH DIAMETERS <42-INCH ONLY)		
	Set Point Node	Set Point HGL Elevation[2]	Threshold Design Storm	Set Point Node	Set Point HGL Elevation[2]	Threshold Design Storm
J03012	J03113	746.39	6-Month, 6-Hour	J03113	746.39	6-Month, 6-Hour
K07026	K07171.2	746.57	25-Year, 6-Hour	K07006	758.87	9-Month, 6-Hour
K11004	--	--	>25-Year, 6-Hour	--	--	>25-Year, 6-Hour
K15009	L15302	767.18	25-Year, 6-Hour	L15256	768.90	2-Year, 6-Hour
L06078	--	--	>25-Year, 6-Hour	--	--	>25-Year, 6-Hour
L06086	--	--	>25-Year, 6-Hour	--	--	>25-Year, 6-Hour
L06087/L06438	L02415	761.70	25-Year, 6-Hour	L02415	761.70	25-Year, 6-Hour
L19252	--	--	>25-Year, 6-Hour	--	--	>25-Year, 6-Hour
M06044	M10309	748.19	10-Year, 6-Hour	M10309	748.19	10-Year, 6-Hour
M06711	M06673	755.90	25-Year, 6-Hour	M06673	755.90	25-Year, 6-Hour
M10250	M10256.2	752.01	25-Year, 6-Hour	M10256.2	752.01	25-Year, 6-Hour
O10101	N14106	742.77	5-Year, 6-Hour	O18246	753.32	< 3-Month, 6-Hour

TABLE 3-4 (Continued)

FORT WAYNE CSSOP INLINE STORAGE ASSESSMENT STUDY

THRESHOLD DESIGN STORMS

SUBBASIN[1]	FOR SEWERS WITH DIAMETERS ≥42-INCH ONLY (TRUNK SEWERS)			FOR ENTIRE SUBBASIN (TRUNK SEWERS AND SEWERS WITH DIAMETERS <42-INCH ONLY)		
	Set Point Node	Set Point HGL Elevation[2]	Threshold Design Storm	Set Point Node	Set Point HGL Elevation[2]	Threshold Design Storm
P06014	P06073	760.00	25-Year, 6-Hour	P06073	760.00	25-Year, 6-Hour
P06119	P06124	759.40	5-Year, 6-Hour	P06124	759.40	5-Year, 6-Hour
R14033	S18071	783.36	5-Year, 6-Hour	S18071	783.36	5-Year, 6-Hour
K06290A	K03101	751.11	5-Year, 6-Hour	K03101	751.11	5-Year, 6-Hour
K06290B	K10389	750.96	25-Year, 6-Hour	K10381	758.00	25-Year, 6-Hour
N06007	N02071	--	>25-Year, 6-Hour	N02206	780.00	5-Year, 6-Hour
K11010	K11099	774.00	NA[3]	K11099	774.00	NA[3]

1) Subbasins with trunk sewer diameter greater than 36-inch and storage volume greater than 20 % of annual overflow storage volume

2) Set point HGL equal the larger of the ground elevation minus 8' or the pipe crown elevation

3) Subbasin K11010 contains several manholes at the down stream end of the basin with little to no cover. Therefore, under any design storm the minimum 8' freeboard rule is violated. Due to the flooding that occurs at the downstream end, the set point HGL cannot be reached

- Four subbasins (Subbasins K06290A, R14033, P06119 and O10101) do not violate the critical HGL set points under existing conditions during a 2-year, 6-hour design storm.
- Subbasin J03012 does not violate the critical HGL set points under existing conditions during events smaller than a 6-month, 6-hour storm.
- Subbasin K11010 contains several manholes at the downstream end of the basin with little or no cover. Therefore, under any design storm the minimum 8-feet freeboard is violated as the sewer experiences surcharged conditions.

The overall conclusions derived from the model results are that 13 subbasins are predicted to have the inline capacity to store some of the overflows from virtually all storms, even storms equivalent to 25-year and 10-year design storms. The model also predicts that certain sections of sewers with diameter less than 42-inch in Subbasins K07026, K15009, O10101 and N06007 experience unacceptable surcharge conditions for smaller design storms. This indicates that even though the larger diameter trunk sewers in these subbasins could have the capacity to store some of the overflows from events smaller than or equal to the threshold storms, certain sections of the sewers that are less than 42-inch diameter in size experience capacity issues (surcharged or flooding conditions) for such storms.

As noted earlier, it is important to recognize that these results identify the threshold events that violate the HGL set points under existing conditions, i.e., with no inline storage. Therefore, they identify the largest design storm for which some level of inline storage can be used; they do not identify the largest design storm that can be fully captured using inline storage. Since available inline storage volume will depend on the actual flow conditions in the sewer, the sequence of storm events through the year, and the need to dewater the stored flow after events, a continuous annual simulation incorporating inline storage is necessary to fully assess the benefit in terms of reduction in overflow volume.

3.7 ANNUAL MODEL SIMULATION DESCRIPTION – INLINE STORAGE

In order to further evaluate the impact of inline storage, Malcolm Pirnie performed a typical annual continuous simulation for each of the subbasins shown in Table 3-4. The annual continuous rainfall event for this analysis was defined during the City's LTCP development. The goals of the simulation included the following:

- Run continuous simulations incorporating dynamic control to maintain HGL set points.
- Document changes in *annual overflow volumes* from continuous simulation results for existing conditions.
- Document changes in the *number of annual overflow events* from continuous simulation results for existing conditions.
- Document the *maximum 6-hour design storm* that can successfully be stored without producing an overflow event.

3.8 ANNUAL CONTINUOUS SIMULATION MODEL RESULTS – INLINE STORAGE

The results from the annual continuous simulation were analyzed for several key comparisons as noted in Section 3.7. The model results presented in Table 3-5 compare the total overflow volume under existing conditions (no inline storage) and with inline storage controls. As expected, when storage controls are in place, the total overflow volume decreases. It should be noted that subbasin J03012 was removed from this portion of the analysis as this subbasin reported no overflow under existing conditions.

Table 3-6 presents the annual number of overflow events under existing conditions and with inline storage controls. In most subbasins the presence of inline storage controls reduces the number of annual overflow events, as expected. But, in two subbasins (Subbasins K07026 and O10101) the number actually increases, although as shown in Table 3-5, the total volumes decrease.

TABLE 3-5 FORT WAYNE CSSOP - INLINE STORAGE ASSESSMENT STUDY OVERFLOW VOLUME COMPARISON				
Subbasin	**Under Existing Conditions**		**With Storage Controls**	
	Overflow Link	**Total Overflow Volume (MG)**	**Overflow Link**	**Total Overflow Volume (MG)**
K07026	LK07171.0	13.50	LK07171.0	9.75
K11004	LJ11163.0	20.98	LJ11163.0	16.40
K15009	LK15009.0	26.96	LK15009.0	18.33
L06078	LL06102.0	2.31	LL06102.0	1.74
L06086	LL06086.1	0.06	LL06086.1	0.00
L06087/L06438	LL06087.2	15.57	LL06087.2	1.20
L06087/L06438	LL06203	31.93	LL06203	11.13
L19252	LL19018.0	17.07	LL19018.0	6.91
M06044	LM10309.0	1.10	LM10309.0	0.94
M06711	LM06706.1	2.52	LM06706.1	0.39
M10250	LM10256.0	0.85	LM10256.0	0.76
O10101	L010311.0	30.01	L010311	20.25
O10101	L010312.0	56.24	L010312	40.29
P06014	LP06014.0	57.22	LP06014.0	33.13
P06119	LP06119.0	34.05	LP06119.0	24.01
R14033	LS18082.0	11.76	LS18082.0	10.23
K06290A	LK06285.0	62.92	LK06285.0	35.01
K06290B	LK06231.0	22.92	LK06231	14.67
N06007	LN06007.2	21.41	LN06022d	9.64

TABLE 3-6 FORT WAYNE CSSOP - INLINE STORAGE ASSESSMENT STUDY ANNUAL NUMBER OF OVERFLOW EVENTS COMPARISON				
Subbasin	**Under Existing Conditions**		**With Storage Controls**	
	Overflow Link	**Annual Number of Overflow Events**	**Overflow Link**	**Annual Number of Overflow Events**
K07026	LK07171.0	41	LK07171.0	54
K11004	LJ11163.0	58	LJ11163.0	56
K15009	LK15009.0	65	LK15009.0	23
L06078	LL06102.0	20	LL06102.0	13
L06086	LL06086.1	1	LL06086.1	0
L06087/L06438	LL06087.2	27	LL06087.2	3
L19252	LL19018.0	72	LL19018.0	15
M06044	LM10309.0	7	LM10309.0	4
M06711	LM06706.1	10	LM06706.1	3
M10250	LM10256.0	11	LM10256.0	3
O10101	L010311.0	43	L010311	23
O10101	L010312.0	46	L010312	47
P06014	LP06014.0	38	LP06014.0	12
P06119	LP06119.0	53	LP06119.0	38
R14033	LS18082.0	18	LS18082.0	12
K06290A	LK06285.0	40	LK06285.0	16
K06290B	LK06231.0	34	LK06231	19
N06007	LN06007.2	34	LN06022d	7

These increases in events are due to the simplified configuration of the storage controls in the model, and the dewatering methodology utilized by the model. In implementation, it is expected that more sophisticated control mechanisms and logic could eliminate these increases in activation.

It is important to note that the annual results for existing conditions (no inline storage) shown in Tables 3-5 and 3-6 are based on new simulations performed as part of the current effort. Because of this, these existing condition results are not identical to the existing condition results presented in the City's 2001 LTCP. The existing condition simulations were re-run as part of the current effort for two reasons:

- First, the XP-SWMM model has improved since 2001. Because the current XP-SWWM version is required to simulate the dynamic controls for the inline storage scenario, the existing condition baseline had to be re-run with this same model version for a consistent comparison.
- Second, several of the subbasin models have been improved since 1999 (the period of the original LTCP modeling) through the City's CSCIP program. These improvements were incorporated in the current analysis, and so required re-running of the existing condition baseline.

Table 3-7 documents the maximum design storm that each subbasin can store completely (i.e., eliminate overflow) using inline storage, with dynamic controls in place and operated to maintain the defined HGL set points. This scenario is much different than the one summarized in Table 3-4; Table 3-4 presents the maximum 6-hour design storm that can be passed through the existing system without violating the HGL set point, while Table 3-7 presents the maximum 6-hour design storm that can be stored completely with dynamic controls in place without violating the HGL set point. Note the largest design storm that can be stored is a 3-month, 6-hour event in subbasins L06087/L06438 and M06711. Five subbasins (Subbasins L06086, M06044, M10250, N06007 and R14033) can store a 1-month, 6-hour design storm. The remaining subbasins can not store even a 1-month, 6-hour design storm. These results are not surprising; note that even a 1-month event will be equaled or exceeded only 12 times per year, meaning that there are

approximately 110 smaller events per year in Fort Wayne. The decrease in annual overflow volume through inline

TABLE 3-7 FORT WAYNE CSSOP - INLINE STORAGE ASSESSMENT STUDY MAXIMUM DESIGN STORM STORED WITH STORAGE CONTROLS		
Sub-basin	**Overflow Link**	**Maximum Design Storm**
K06290A	LK06285.0	<1-month, 6-hour
K06290B	LK06231	<1-month, 6-hour
K07026	LK07171.0	<1-month, 6-hour
K11004	LJ11163.0	<1-month, 6-hour
K15009	LK15009.0	<1-month, 6-hour
L06078	LL06102.0	<1-month, 6-hour
L06086	LL06086.1	1-month, 6-hour
L06087/L06438	LL06087.2	3-month, 6-hour
L19252	LL19018.0	<1-month, 6-hour
M06044	LM10309.0	1-month, 6-hour
M06711	LM06706.1	3-month, 6-hour
M10250	LM10256.0	1-month, 6-hour
N06007	LN06022d	1-month, 6-hour
O10101	L010311	<1-month, 6-hour
O10101	L010312	<1-month, 6-hour
P06014	LP06014.0	<1-month, 6-hour
P06119	LP06119.0	<1-month, 6-hour
R14033	LS18082.0	1-month, 6-hour

storage is achieved through capture of many small events, rather than capture of any significant portion of larger events.

3.9 ANNUAL MODEL SIMULATION DESCRIPTION – RAISED WEIRS

In order to evaluate an alternative method of inducing inline storage, overflow weir heights were increased for select subbasins. This analysis assessed the potential benefit of simple passive storage controls implemented by raising fixed weir crests. Subbasins were selected based on the results presented in Table 3-4, as these results are strong indicators of the potential for inline storage using passive controls. Only those subbasins with 10-year, 6-hour and 25-year, 6-hour threshold design storms were included in this analysis, as the ability to pass these large events through the existing system without violating the established HGL set points suggests that there may be inline storage capacity for the multitude of small events that occur in a typical year. Subbasins in Table 3-4 with a smaller threshold design storm would likely have very limited benefits and therefore were not included in this portion of the study.

Each overflow weir was evaluated to calculate the maximum potential increase in weir height that did not compromise the regulators ability to pass the identified threshold design storm, i.e., did not result in a violation of the established upstream HGL set point during the design storm. The maximum increase in weir height is presented in Table 3-8. Then, a typical annual continuous simulation with the increased weirs for each of the subbasins was performed. As mentioned in Section 3.7, the typical annual rainfall record for this analysis was defined during the City's LTCP development. The goals of the simulation included the following:

- Run continuous simulations incorporating increased weir heights while maintaining HGL set points.
- Document changes in *annual overflow volumes* from continuous simulation results for existing conditions.

- Document changes in the *number of annual overflow events* from continuous simulation results for existing conditions.

TABLE 3-8

FORT WAYNE CSSOP – INLINE STORAGE ASSESSMENT STUDY

MAXIMUM POTENTIAL INCREASE IN WEIR HEIGHTS

Subbasin	Overflow Link	Weir Link	Existing Weir Height (ft) (Above Manhole Invert)	Maximum Proposed Increase In Weir Height (ft)
K07026	LK07171.0	LK07171.W	1.60	0.10
K11004	LJ11163.0	LJ11163.1	0.83	1.50
K15009	LK15009.0	LK15009.W	0.66	2.04
L06078	LL06102.0	LL06102.W [1]	1.08	1.54
L06086	LL06086.1	LL06086.W	1.16	1.00
L06087/L06438	LL06087.2	LL06087.W	1.00	1.19
L19252	LL19018.0	LL19018.W	0.77	0.70
M06711	LM06706.1	LM06706.W	1.33	0.86
M10250	LM10256.0	LM10256.W	1.00	0.38
P06014	LP06014.0	LP06014.W	1.06	5.34
K06290B	LK06231.0	LK06231.W	2.50	0.50
N06007	LN06007.2	LN06007.W	2.00	3.98

1 - Regulator L06102 has a sliding aluminum plate mechanism to direct the wet weather flows.

3.10 ANNUAL CONTINUOUS SIMULATION MODEL RESULTS – RAISED WEIRS

The results from the annual continuous simulation were analyzed for several key comparisons as noted in Section 3.9. The model results presented in Table 3-9 compare the total overflow volume under existing conditions (no raised weirs) and with weir raised. As expected, when the weirs are raised, the total overflow volume decreases.

Table 3-10 presents the annual number of overflow events under existing conditions and with raised weirs. In most subbasins the presence of passive weir storage controls reduces the number of annual overflow events, as expected. But, in four subbasins (Subbasins K07026, L06086, M06711 and K06290B) the number remains the same, although as shown in Table 3-9, the total overflow volumes decrease.

In addition, the HGL set point goals identified in Table 3-4 were maintained in all subbasins. The increased weir heights did not negatively impact upstream HGL conditions.

TABLE 3-9
FORT WAYNE CSSOP – INLINE STORAGE ASSESSMENT STUDY
TOTAL ANNUAL OVERFLOW VOLUME COMPARISON

	Under Existing Conditions		With Weirs Raised		
Subbasin	**Overflow Link**	**Total Annual Overflow Volume (MG)**	**Overflow Link**	**Total Annual Overflow Volume (MG)**	**% Reduction in Total Annual Overflow Volume**
K07026	LK07171.0	13.50	LK07171.0	No Change	0
K11004	LJ11163.0	20.98	LJ11163.0	18.64	11
K15009	LK15009.0	26.96	LK15009.0	19.51	28
L06078	LL06102.0	2.31	LL06102.0	1.21	47
L06086	LL06086.1	0.06	LL06086.1	0.03	54
L06087/L06438	LL06087.2	15.57	LL06087.2	12.84	18
L19252	LL19018.0	17.07	LL19018.0	14.51	15
M06711	LM06706.1	2.52	LM06706.1	2.00	21
M10250	LM10256.0	0.98	LM10256.0	0.85	13
P06014	LP06014.0	57.22	LP06014.0	42.93	25
K06290B	LK06231.0	22.92	LK06231	19.86	13
N06007	LN06007.2	21.41	LN06022d	11.93	44

TABLE 3-10

FORT WAYNE CSSOP – INLINE STORAGE ASSESSMENT STUDY

ANNUAL NUMBER OF OVERFLOW EVENTS COMPARISON

Subbasin	Under Existing Conditions		With Weirs Raised		
	Overflow Link	Annual No of Overflow Events	Overflow Link	Annual No of Overflow Events	% Reduction in Annual No of Overflow Events
K07026	LK07171.0	42	LK07171.0	No Change	0
K11004	LJ11163.0	58	LJ11163.0	48	17
K15009	LK15009.0	65	LK15009.0	34	48
L06078	LL06102.0	20	LL06102.0	17	15
L06086	LL06086.1	1	LL06086.1	No Change	0
L06087/L06438	LL06087.2	27	LL06087.2	18	33
L19252	LL19018.0	72	LL19018.0	47	35
M06711	LM06706.1	10	LM06706.1	No Change	0
M10250	LM10256.0	11	LM10256.0	6	45
P06014	LP06014.0	38	LP06014.0	31	18
K06290B	LK06231.0	34	LK06231	No Change	0
N06007	LN06007.2	34	LN06022d	9	74

4.0 COMBINED SEWER INLINE STORAGE TECHNOLOGIES

Inline storage uses the excess volume in the combined trunk sewer to store peak flows resulting from storm runoff. The stored flows will be gradually released as the trunk sewer regains adequate capacity.

The degree to which the existing trunk sewer system can be used for storage is a function of: pipe size; pipe or channel gradient (relatively flat sewers provide the most storage capacity without susceptibility to flooding low areas); suitable locations for installation of control devices; and the reliability of installation control.

4.1 INLINE STORAGE SYSTEMS

The following sections describe some of the available technologies that could provide inline storage in Fort Wayne's combined trunk sewers

A) Inline Storage Devices

Various devices have been used for storage in sewers, including throttle valves, inflatable dams, gates and weirs. The following devices may be apt for Fort Wayne's inline storage efforts:

1. Inflatable Dams

Inflatable dams are popular storage control measures whereby a rubberized fabric device is inflated and deflated to control flows and maximize storage in designated points in the combined sewer system. Inflatable dams are usually activated by automatic sensors that measure flow levels at specified points in the system. Generally very little maintenance is required for inflatable dams but periodic maintenance of the air and water supply connection to the inflatable dam is necessary.

2. Gates

Motor or hydraulically operated sluice gates can be used to store flows inside the sewer. These gates could be installed at potential storage locations in the trunk sewer. The installed gates can be activated by automatic flow sensors that measure flow levels at specified points in the system. Generally very little maintenance is required for gates but periodic cleaning and lubrication is essential for trouble free performance.

B) Control Concepts

There are two types of concepts that have been used for controlling the mechanical storage devices. They are:

1. Reactive Control

Reactive control is a concept where a dynamic control (gate or inflatable dam) reacts to a defined set point. For example, gates or inflatable dams could be attached to flow sensors that could provide the trigger to shut a gate or inflate a dam once the flow rises to a particular level in the trunk sewer and open the gate or deflate a dam as a controlling upstream HGL set point is reached.

Implementing a Reactive Control system can be relatively simple and cost effective. The operation and maintenance is also relatively easy, but would require additional resources in Fort Wayne's maintenance division. Hence, Reactive Control system is a viable inline storage concept that may be considered for implementation in Fort Wayne.

2. Predictive Control

Predictive control is a concept where a computer system with predictive models adjusts set points and flows within the sewer systems (which in our case is the trunk sewer). This control system operates the gates or inflatable dams at optimal variable set points prior to actual rainfall conditions, based on predictions a few hours in

advance from collection system models. Because it can constantly readjust its control set points according to updated field information, this control system is the most sophisticated and potentially the most efficient to control and minimize overflow and surcharges in the existing system.

Implementing a Predictive Control system can be relatively complex and costly compared to Reactive Control. The operation and maintenance is also complex. If a Predictive Control system were to be implemented, new modeling staff with adequate technical expertise, in addition to new maintenance staff, will be needed to operate this complex system.

The sophistication of a "Predictive Control" system is unlikely to offer a cost effective solution unless there is a. large in-line storage capacity. Hence the concept of "Predictive Control," though more efficient, may not be viable for implementation in Fort Wayne.

C) Other Measures to Maximize Inline Storage Potential – Raising Weir Heights at Regulators

Other measures such as raising existing weir heights when implemented alongside or in lieu of the above described storage devices and controls would augment inline storage in trunk sewers of Fort Wayne's Combined Sewer System**.** Raising weir heights at existing CSO regulators provides a passive means to induce storage in the combined sewer system. The modeling study (explained in sections 3.9 and 3.10) indicates that increasing weir heights results in inline storage for select subbasins.

4.2 TECHNICAL CONCLUSIONS

Increasing weir heights at CSO regulators has the potential to be a feasible, cost effective solution to reduce overflows, but provides desirable benefits only in select subbasins. Inflatable Dams and Sluice Gates are two mechanical devices that have been used widely

for inline storage in many cities. These two devices would be viable for Fort Wayne's inline storage efforts. The Capital and O&M costs are comparable for both devices. The decision to choose either one of these needs to be made based on the conditions at the proposed location of installation and any local factors that impact operation and maintenance requirements.

A Reactive Control system may be viable for Fort Wayne. This would be cost effective compared to the sophisticated Predictive Control system. Periodic sewer maintenance through flushing and storage at pump station wet wells could serve as effective secondary measures that could augment the primary inline storage efforts

5.0 OVERALL CONCLUSIONS

The analysis presented above provides valuable information related to the potential for inline storage in Fort Wayne's combined sewer subbasins. With this comprehensive technical evaluation completed, it is appropriate to re-visit the decision process completed by the City during development of the CSO LTCP in 1998. During this decision process, the project team considered the possibility of storing wet-weather flow in major trunk sewers. Assessing this possibility in terms of the components required for in-line storage proceeded as follows:

- It was recognized in 1998 that many trunk sewers do have the physical capacity for storage, e.g., the Rudisill Avenue Trunk Sewer. The current analysis confirms this.
- No trunk sewers had the type of flow control required to induce dynamic storage in 1998, nor do they today. Viable technologies for these controls have been identified as part of the current analysis and are described above. While the City could install these controls, the capital cost associated with the installations is arguably enough on its own to push potential trunk sewer storage beyond NMC

implementation. However, it could be considered as part of LTCP implementation.

- The model study (sections 3.9 & 3.10) indicates that there may be value in a pilot study to demonstrate the effect of increased weir heights on the inline storage potential in select subbasins. In 2005, the City acted on this potential benefit and implemented a pilot program by raising the fixed weir heights at six regulators. The six pilot regulators control flows discharged at CSOs 5, 17, 36, 39, 62, and 68. The City continues to monitor these locations to establish quantitative trends in overflow reduction. However, even before quantification, it is self-evident that a benefit in terms of overflow reduction has been realized.
- At the time of LTCP development, the City did not have the staff available to operate in-system flow controls to induce storage in trunk sewers. Furthermore, the City was hesitant at that time to commit to developing those resources. Since then, the City has shown the desire and ability to add wet-weather program staff, although it still must be done judiciously.

The most important factor in the City's 1998 decision process was that political and community leaders were (and continue to be) very sensitive to basement flooding concerns in the combined sewer subbasins. Therefore, while technically feasible (although likely beyond NMC implementation), using trunk sewers for storage of wet-weather flows was considered likely to be unacceptable to the community in 1998. Whether or not this controlling political factor has changed is a judgment that must be made by the City as part of deciding on implementation of inline storage.

EXHIBIT B-4

TECHNICAL MEMORANDUM

SUBJECT: CSO Ponds Nos. 1 & 2 Recycle Study

PREPARED BY: Patrick W. Callahan, P.E.

DATE PREPARED: 6/2004

1. PURPOSE AND SCOPE

This technical memorandum presents information addressing the releases of combined sewage from Ponds Nos. 1 & 2 and the capacity of the Water Pollution Control Plant (WPCP) during these releases. The purpose of this memorandum is to identify the potential benefits of returning the combined sewage stored in the ponds to the WPCP for treatment.

2. EXISTING CONDITIONS

The Wayne Street Interceptor conveys combined sewage to the City of Fort Wayne's WPCP through an 84-inch pipe. The flow from the Wayne Street Interceptor passes a Diversion Chamber before entering the WPCP. When the WPCP cannot take the entire flow from the Wayne Street Interceptor the flow backs up and surcharges the interceptor. When this interceptor surcharge exceeds 3 feet the flow is diverted to a pump station that can pump it into Ponds Nos. 1 & 2. The combined sewer overflows (CSOs) from the Glasgow regulator also enter this pump station and mix with the Wayne Street Interceptor flows. Thus, CSO flow is pumped into the Ponds after flow is maximized to the WPCP, storage in the Wayne Street Interceptor is maximized and the CSOs from the Wayne Street Interceptor and Glasgow Regulator begin to discharge to the pump station. One exception to this situation would where there is significant local rainfall in the Glasgow regulator subbasin, without rainfall in the remainder of the system. While physically possible, this rainfall pattern would be highly unusual.

The combined sewer overflows flow can be pumped into Pond 1, which can hold 152 million gallons. Pond 1 is connected to Pond 2, which can hold 138 million gallons, by a channel to the south and a 58" x 91" elliptical pipe to the north. A minimum of 5 ft of water is kept in the ponds to control odor and prevent fish kills in the ponds. This reduces the available capacity in each pond to 87.5 million gallons in Pond 1 and 90.6 million gallons in Pond 2. This loss in capacity is significant and of concern to the City, but operational experience has proven the necessity for a 5' minimum depth. The City has used Solar Bees that circulate the water at depth between the aerobic and anaerobic zone to help keep the D.O. levels high, therefore reducing odor in Ponds 1& 2. Even with these preventative measures in place, Pond 2 often experiences algae blooms that cause odor issues. The City also maintains a spray system for deodorizing the air. This

is system is utilized when odor is bad in an effort to mask the odor. It is assumed that the majority of the fish enter the collection system through the outfalls and are pumped into the ponds during wet weather, or through the CSO pump station gates when the river level is high. The D.O levels in Pond 2 are such that a fish could survive. As part of the LTCP, the City proposes to construct improvements to Ponds that will allow the Ponds to be more effectively used. The overall intent of these improvements will be to reduce the amount of grit and debris getting into the ponds as well as improve the City's ability to clean and maintain the Ponds. It is believed that with these improvements the ponds that the current 5' minimum depth may be reduced.

Currently, before combined sewage overflows are pumped into Pond 1, the gates between Pond 1 and Pond 2 are closed. Pond 1 is filled before any new overflows are put into Pond 2. If the volume of new overflows is small enough, all new overflows are stored in Pond 1. If the volume of new overflows is too large to store in Pond 1, overflows are released to Pond 2 after Pond 1 is full.

Overflows are held in Pond 1 as long as possible to allow the larger solids to settle. Overflows are then distributed equally between Ponds 1 & 2 and held as long as possible to allow bacteria to die off. When the solids and bacteria reach permit limits the flow is discharged into the Maumee River. If a wet weather even, that requires overflows to be pumped into Pond 1, occurs before the above process is completed, partially treated overflows may have to be discharged to the Maumee River to make room for new overflows.

3. PLANNING PARAMETERS

This study addresses short term operations of and modifications to the ponds. Long term operations of and modifications to the ponds is addressed in the City's CSO LTCP. Because of this the WPCP will be assumed to have a capacity of 60 million gallons per day (MGD) and the recorded discharges from the ponds during 2002 and 2003 will be assumed to be representative of the future short term operation of the ponds.

4. POND NOS. 1 & 2 DISCHARGE DATA RESULTS

The dates and volumes of discharges from the ponds were obtained from the MRO reports. The volume of WPCP influent for the same dates was also obtained from the MRO reports. The influents were subtracted from 60 to determine the remaining capacity in the WPCP. The potential for recycling is the smaller of the remaining WPCP capacity or the amount discharged from the ponds. These calculations made for both 2002 and 2003. See Attachments 1 and 2.

The benefits of recycling were expressed as reduction in discharge volume per year and reduction in discharge days. See Attachment 3.

Table 4.1

2002 - 60MGD CAPACITY							
	Pond #1	Pond #2	Total Pond	WPCP Plant	Remaining	Potential for	Potential
	Discharges	Discharges	Discharges	Influent Flow	Capacity	Recycling	Discharge
Date	MG	MG	MG	MG	MG	MG	MG
1/29/2002	37.2		37.2	49.86	10.14	10.14	27.06
2/1/2002	110.5		110.5	48.22	11.78	11.78	98.72
2/2/2002	38.8		38.8	55.89	4.11	4.11	34.69
2/3/2002	48		48	58.62	1.38	1.38	46.62
2/4/2002	46.2		46.2	43.28	16.72	16.72	29.48
2/5/2002	24.1		24.1	40.90	19.10	19.4	4.7
2/6/2002	20.3		20.3	40.51	19.49	19.48	0.82
2/7/2002	4.4		4.4	46.79	13.21	4.4	0
3/3/2002	4.24		4.24	67.54	-7.54	0	4.24
3/4/2002	10		10	67.55	-7.55	0	10
3/5/2002	6.55		6.55	60.22	-0.22	0	6.55
3/6/2002	6.55		6.55	59.47	0.53	0.53	6.02
3/7/2002	6.55		6.55	57.92	2.08	2.08	4.47
3/8/2002	3.82		3.82	56.20	3.80	3.8	0.02
3/30/2002		28.53	28.53	59.92	0.08	0.08	28.45
3/31/2002		32.39	32.39	53.21	6.79	6.79	25.6
4/1/2002		22.34	22.34	59.38	0.62	0.62	21.72
4/2/2002		39.58	39.58	58.99	1.01	1.01	38.57
4/3/2002		49.43	49.43	59.20	0.80	0.8	48.63
4/4/2002		23.98	23.98	61.40	-1.40	0	23.98
4/10/2002		88.81	88.81	66.20	-6.20	0	88.81
5/12/2002		41.6	41.6	66.52	-6.52	0	41.6
5/13/2002		38.3	38.3	66.48	-6.48	0	38.3
5/18/2002		11.1	11.1	68.87	-8.87	0	11.1
6/11/2002		66.9	66.9	48.99	11.01	11.01	55.89
6/12/2002		30.2	30.2	45.45	14.55	14.55	15.65
7/15/2002		12.4	12.4	42.14	17.86	12.4	0
7/16/2002		13.3	13.3	40.92	19.08	13.3	0
9/10/2002		5.34	5.34	40.83	19.17	5.34	0
9/11/2002		8.88	8.88	40.23	19.77	8.88	0
9/12/2002		8.88	8.88	40.74	19.26	8.88	0
9/13/2002		7.99	7.99	41.59	18.41	7.99	0
9/14/2002		15.1	15.1	42.37	17.63	15.1	0
9/15/2002		6.22	6.22	40.60	19.40	6.22	0

9/16/2002		4.97	4.97	40.82	19.18	4.97	0
9/17/2002		7.75	7.75	39.17	20.83	7.75	0
9/18/2002		8.18	8.18	39.04	20.96	8.18	0
9/19/2002		6.46	6.46	39.42	20.58	6.46	0
9/20/2002		9.81	9.81	54.15	5.85	5.85	3.96
9/21/2002		7.69	7.69	53.69	6.31	6.31	1.38
9/22/2002		7.69	7.69	40.81	19.19	7.69	0
9/23/2002		8.82	8.82	41.35	18.65	8.82	0
9/24/2002		6.67	6.67	42.40	17.60	6.67	0
9/25/2002		21.83	21.83	40.32	19.68	19.68	2.15
9/26/2002		5.17	5.17	40.98	19.02	5.17	0
10/2/2002		7.88	7.88	41.74	18.26	7.88	0
11/12/2002		29.73	29.73	51.92	8.08	8.08	21.65
11/13/2002		8.13	8.13	46.68	13.32	8.13	0
			1,059.26	2,409.49	470.51	318.43	740.83
			22.07	50.20	9.80	6.63	

Table 4.2

2003 - 60 MGD CAPACITY							
	Pond #1	Pond #2	Total Pond	WPCP Plant	Remaining	Potential for	Potential
	Discharges	Disgharges	Discharges	Influent Flow	Capacity	Recycling	Discharge
Date	MG	MG	MG	MG	MG	MG	MG
3/13/2003		63.60	63.60	60.36	-0.36	0.00	63.60
3/19/2003		16.45	16.45	59.10	0.90	0.90	15.55
3/20/2003		73.97	73.97	59.42	0.58	0.58	73.39
3/24/2003		86.62	86.62	59.05	0.95	0.95	85.67
3/25/2003		4.49	4.49	59.88	0.12	0.12	4.37
3/26/2003		23.92	23.92	57.79	2.21	2.21	21.71
3/27/2003		8.33	8.33	57.25	2.75	2.75	5.58
3/28/2003		30.42	30.42	55.37	4.63	4.63	25.79
3/29/2003		24.00	24.00	59.06	0.94	0.94	23.06
3/30/2003		4.11	4.11	58.38	1.62	1.62	2.49
3/31/2003		15.56	15.56	56.68	3.32	3.32	12.24
4/5/2003	1.00		1.00	62.87	-2.87	0.00	1.00
4/8/2003		135.90	135.90	64.75	-4.75	0.00	135.90
4/30/2003		13.88	13.88	47.77	12.23	12.23	1.65
5/6/2003		11.16	11.16	62.75	-2.75	0.00	11.16
5/7/2003		136.93	136.93	64.79	-4.79	0.00	136.93
5/10/2003		106.06	106.06	62.81	-2.81	0.00	106.06
5/11/2003		63.20	63.20	60.30	-0.30	0.00	63.20
5/12/2003		59.18	59.18	61.14	-1.14	0.00	59.18
5/13/2003		101.31	101.31	60.26	-0.26	0.00	101.31
5/16/2003		106.19	106.19	63.08	-3.08	0.00	106.19
5/17/2003		5.19	5.19	64.65	-4.65	0.00	5.19
5/28/2003		18.38	18.38	49.69	10.31	10.31	8.07
5/29/2003		15.56	15.56	48.66	11.34	11.34	4.22
5/30/2003		6.69	6.69	49.49	10.51	6.69	0.00
6/23/2003		24.50	24.50	42.52	17.48	17.48	7.02
6/25/2003		18.43	18.43	40.45	19.55	18.43	0.00
7/7/2003		67.13	67.13	59.76	0.24	0.24	66.89
7/8/2003		83.10	83.10	58.44	1.56	1.56	81.54
7/9/2003		90.89	90.89	58.45	1.55	1.55	89.34
7/10/2003		109.13	109.13	56.04	3.96	3.96	105.17
7/11/2003		117.46	117.46	55.40	4.60	4.60	112.86
7/12/2003		101.08	101.08	56.33	3.67	3.67	97.41
7/13/2003		74.29	74.29	57.30	2.70	2.70	71.59
7/14/2003		35.41	35.41	53.92	6.08	6.08	29.33
7/29/2003		57.99	57.99	62.66	-2.66	0.00	57.99
7/30/2003		45.83	45.83	58.11	1.89	1.89	43.94

7/31/2003		17.63	17.63	58.27	1.73	1.73	15.90
8/8/2003		61.99	61.99	60.44	-0.44	0.00	61.99
8/9/2003		29.53	29.53	62.35	-2.35	0.00	29.53
8/10/2003		22.12	22.12	57.44	2.56	2.56	19.56
8/19/2003		21.88	21.88	46.66	13.34	13.34	8.54
8/20/2003		18.21	18.21	48.36	11.64	11.64	6.57
9/2/2003		120.15	120.15	61.21	-1.21	0.00	120.15
9/16/2003		17.45	17.45	54.96	5.04	5.04	12.41
9/17/2003		12.14	12.14	48.80	11.20	11.20	0.94
9/18/2003		10.54	10.54	47.75	12.25	10.54	0.00
10/9/2003		19.28	19.28	46.80	13.20	13.20	6.08
10/10/2003		18.70	18.70	46.64	13.36	13.36	5.34
10/13/2003		43.24	43.24	44.53	15.47	15.47	27.77
12/23/2003		107.50	107.50	60.21	-0.21	0.00	107.50
12/26/2003		39.10	39.10	60.92	-0.92	0.00	39.10
			2,516.80	2,930.07	189.93	218.83	2,297.97
			48.40	56.35	3.65	4.21	44.19

Table 4.3

	60 MGD Plant	
	2002	**2003**
Discharge Days	48	52
Potential Reduction		
Days	19	3
%	40%	6%
Pond Discharges (MG)	1,059	2,517
Potential Reduction		
Volume (MG)	318	219
%	30%	9%

EXHIBIT B-5

TECHNICAL MEMORANDUM

TO: Mark Gensic, City of Fort Wayne

FROM: Ken Sedmak, Project Manager, Donohue & Associates, Inc.

SUBJECT: WPCP CSO Terminal Ponds Nos. 1 & 2 Recycle Study
Donohue Project Number 10725.000

PREPARED BY: Stacy Jones, Donohue & Associates, Inc.
Amber Smith, Donohue & Associates, Inc.

DATE PREPARED: September 17, 2007

1.0 PURPOSE AND SCOPE

This technical memorandum presents information addressing the pumping facilities associated with combined sewer overflow (CSO) and the terminal ponds north of the Water Pollution Control Plant (WPCP).

As a part of discharge permit negotiations, the City of Fort Wayne (City) as well as the Indiana Department of Environmental Management (IDEM) requested an evaluation to estimate the amount of flow and cost of returning terminal pond water to the WPCP after a CSO event. By constructing a CSO Bleedback Facility, the WPCP will be able to return CSO pond water back to the WPCP for further wastewater treatment when there is available plant capacity. This facility will also lower the water elevations in the terminal ponds which will allow for additional storage of CSO water during a wet-weather event. This facility is one of the key components of the City's long term control plan.

Workshop No. 1 was held on June 25, 2004 with City and Donohue personnel to discuss issues and requirements for the WPCP CSO Terminal Ponds Nos. 1 & 2 Recycle Study. A copy of the notes from Workshop No. 1 is included with this memorandum as Attachment 3.

The purpose of this technical memorandum (TM) is to summarize the results from the City of Fort Wayne's Monthly Report of Operation (MRO) data analysis and provide conceptual layouts and costs for three conveyance alternates to return terminal pond water back to the WPCP. It is important to note that all calculations and analysis were based on limited MRO data provided by the City.

2.0 EXISTING CONDITIONS

The City of Fort Wayne has a combined sewer system that has a Combined Sewer Overflow (CSO) Treatment Facility located on the north side of the Maumee River across from the Water Pollution Control Plant (WPCP). Raw wastewater flows to the plant through two 84-inch interceptors, the Wayne Street Interceptor and the North Maumee Interceptor. The Wayne Street Interceptor is a combined sewer and the North Maumee Interceptor is a sanitary sewer. The flow from the Wayne Street Interceptor passes a Diversion Chamber before connecting with the North Maumee Interceptor prior to entering the WPCP. When flow into the WPCP exceeds plant capacity, flow is diverted from the Wayne Street Interceptor to the Diversion Chamber and flows to the CSO Treatment Facility. The CSO Treatment Facility consists of a CSO Pump Station and two large terminal ponds. Terminal Ponds Nos. 1 and 2 were constructed in the 1970's. CSO is pumped from the CSO pump station into Terminal Pond No. 1, which holds 87.5 million gallons, and flows through an interconnection channel into Terminal Pond No. 2, which holds 90.6 million gallons.

Chlorine solution from the WPCP may be added to the CSO for odor control (This is not used because it is not effective in controlling odors). The CSO is pumped to Pond No. 1, overflows to Pond No. 2, and is ultimately discharged from Pond No. 2 to the Maumee River. Effluent disinfection at Pond No. 2 discharge does not exist. The flow is not metered, therefore, volumes are determined based upon fill and draw and not flow through. There is no facility to return stored CSO in the ponds to the interceptor sewer system for treatment at the plant. Although conveyance facilities are in place to direct CSO to Pond No. 3, the pond is not used for CSO treatment. Pond No. 3 is used as a final polishing step for plant effluent.

Pond Nos. 1 and 2 are intended to be a primary treatment system (for CSO treatment) and discharge to the river. The ponds are designed as flow through facilities with no wastewater return control structures. Flow through Pond No. 1 and Pond No. 2 are controlled by steel sheet baffles in each pond. These baffles direct flow in a serpentine pattern to prevent short-circuiting in the ponds.

Pond Nos. 1, 2 and 3 all have outfalls to the Maumee River. These outfalls allow for individual ponds to be drained independent of the remaining two ponds. Pond No. 1 has a special open channel interconnect structure utilizing three sluice gates to control flow from Pond No. 1 to Pond No. 2. The open channel structure maintains a minimum water level at elevation 745.50 feet in Pond No. 1. This minimum water level condition is critical to maintain in avoiding major fish kills within the ponds. This structure is normally used to allow CSO flow from Pond No. 1 to Pond No. 2. There is also a northern interconnect structure between Pond Nos. 1 and 2. This interconnect is a concrete structure using a sluice gate to control flow into a pipe which drains Pond No. 1 into Pond No. 2. This northern interconnect is not normally used. The CSO Pump Station also has a permitted overflow to the Maumee River, CSO No. 019, through a number of flap gates along the wetwell wall.

3.0 PLANNING PARAMETERS

Preliminary engineering was performed to evaluate facilities necessary to return stored, partially treated CSO flow from the terminal ponds to the interceptor sewer system for conveyance to the treatment plant. The flow that is returned to the treatment plant will be measured and controlled. Discharge from the ponds to the river will occur only if the ponds are full and the treatment plant is operating at its maximum capacity.

The surface area, storage depth and effective storage volume for Terminal Ponds Nos. 1 and 2 are as follows:

Terminal Pond No. 1:	35.9 acres	7.5 ft deep	87.5 million gallons
Terminal Pond No. 2:	32.9 acres	8.5 ft deep	90.6 million gallons

Analysis is to be based on three plant capacities:

Current Plant Capacity:	60 MGD
Planned Plant Capacity:	85 MGD Total (78 MGD Firm)
Future Plant Capacity:	100 MGD Total (92 MGD Firm)

4.0 POND NOS. 1 & 2 DISCHARGE DATA RESULTS

Data received within the MRO reports are for the outfalls to Terminal Pond No. 1 and Terminal Pond No. 2, including variables such as total flow of raw sewage, precipitation, flow from CSO ponds and duration of outfall to the river from the ponds. The MRO reports do not include data from the other CSO's throughout the City nor from CSO No. 019 at the CSO Pump Station. Based on the limited information provided by the City, an analysis of this data was performed to estimate the quantity of CSO that could be recycled back to the WPCP for treatment. Four major assumptions were made prior to the analysis of the CSO Terminal Ponds.

- The first assumption is that an increase in plant capacity will not affect the influent volume to the terminal ponds. Although the WPCP will be able to treat more wastewater as its capacity increases, the terminal ponds will see the same amount of water being diverted from the sewer system with fewer discharges at the other CSO outfalls throughout the City.
- The second assumption is that the potential amount of CSO recycled to the plant is based on the remaining capacity of the plant or the volume of discharge, whichever case is the limiting factor.
- The third assumption is that flow to the WPCP is equal to the maximum capacity of the WPCP before flow is diverted to the CSO Treatment Facilities.
- The last assumption is that the average yearly WPCP plant effluent flowrate will not change with respect to an increase in plant capacity at the WPCP. The average yearly plant effluent flow rate is the amount of water that the plant receives on an average day for that year (in this case 2002 or 2003). This number was held constant for each capacity alternate for two reasons. First, the plant effluent flow data includes days of wet-weather events where the flowrates were higher than normal. Second, increasing or decreasing the size of the collection system was not

calculated or predicted in this study. See Attachment 4 for the MRO data that was used to determine the values in Tables 1 through 3. The tables in Attachment 5 are for days when the Terminal Ponds received a discharge.

Analysis was based on the WPCP current plant capacity of 60 MGD, planned plant capacity of 85 MGD and future plant capacity of 100 MGD. Tables 1, 2, and 3 show the potential CSO recycled to WPCP.

TABLE 1: 60 MGD - CURRENT PLANT CAPACITY

Year	(1) WPCP Plant Effluent Flow Yearly Average (MG) *	(2) Pond Influent Flow Yearly Average (MG) ***	(3) Pond Discharge to River Yearly Average *	(4) Potential Recycled to Plant Yearly Average (MG) **	(5) Yearly Amount Recycled
2002	48.90	28.70	22.07	6.63	30.04%
2003	53.07	52.61	48.40	4.21	8.70%

* Based on MRO data obtained from WPCP personnel
** Calculated value obtained from plant effluent flow and ability to recycle CSO from the ponds
*** Potential amount recycled plus pond discharge to river

TABLE 2: 85 MGD - PLANNED PLANT CAPACITY

Year	(1) WPCP Plant Effluent Flow Yearly Average (MG) *	(2) Pond Influent Flow Yearly Average (MG) ***	(3) Pond Discharge to River Yearly Average *	(4) Potential Recycled to Plant Yearly Average (MG) **	(5) Yearly Amount Recycled
2002	48.90	37.95	22.07	15.88	71.96%
2003	53.07	68.92	48.40	20.52	42.40%

* Based on MRO data obtained from WPCP personnel
** Calculated value obtained from plant effluent flow and ability to recycle CSO from the ponds
*** Potential amount recycled plus pond discharge to river

TABLE 3: 100 MGD - FUTURE PLANT CAPACITY					
Year	**(1)** **WPCP Plant Effluent Flow Yearly Average** **(MG) ***	**(2)** **Pond Influent Flow Yearly Average** **(MG) ******	**(3)** **Pond Discharge to River Yearly Average ***	**(4)** **Potential Recycled to Plant Yearly Average** **(MG) **	**(5)** **Yearly Amount Recycled**
2002	48.90	40.85	22.07	18.78	85.11%
2003	53.07	75.84	48.40	27.44	56.70%

* Based on MRO data obtained from WPCP personnel
** Calculated value obtained from plant effluent flow and ability to recycle CSO from the ponds
*** Potential amount recycled plus pond discharge to river

For ease of discussion, the columns in Tables 1 through 3 have been numbered (1) through (5).

- Column 1, WPCP Plant Effluent Flow Yearly Average, indicates the average daily plant effluent flow over all 365 days in 2002 or 2003. This is important to note since the remaining columns are based solely on days where the Terminal Ponds recorded a discharge.
- Column 3, Pond Discharge to River Yearly Average, is the average of the summation of discharge from Terminal Pond No. 1 and Terminal Pond No. 2 throughout their respective years. The breakdown of this column can be seen in the Total Pond Discharge column in the tables in Attachment 5.
- Column 4, Potential Recycle to Plant Yearly Average, shows the average amount that could have been recycled back to the plant. This volume is based on the remaining capacity of the plant at the time of discharge, which can be seen in the Potential Amount Recycled column in Attachment 5. For example, on January 29, 2002, the total volume discharge from the Terminal Ponds was 37.2 million gallons (MG) and the flow into the plant was 49.86 MG, leaving 10.14 MG of potential recycle capacity. Only 10.14 MG of recycle would be possible for that particular day. On July 15, 2002, the total volume discharged from the Terminal Ponds was 12.40 MG and the flow into the plant was 42.12 MG, leaving 17.86 MG of potential recycle capacity. However, because only 12.40 MG was discharge from the ponds on that day, 12.40 MG is the value recorded in the potential amount recycled column in Attachment 5.
- Column 2, Pond Influent Flow Yearly Average, is the sum of columns 3 and 4.
- Column 5, Yearly Amount Recycled, is a percentage of CSO that could have been returned to the WPCP for further treatment. This value is calculated by taking Column 4 divided by Column 3.

More CSO was discharged and not measured by the plant staff through CSO No. 019. This CSO did not go to the ponds for measurement in this data. Therefore, the "Yearly Amount Recycled" percentages are high.

Over the two-year period analyzed in the study, 37,220 million gallons (MG) of wastewater was treated at the WPCP. If the plant were running at full capacity (60 MG) every day for those two years, the WPCP could have treated 43,800 MG of wastewater. The difference between running at full capacity and actual treated capacity is 6,581 MG. From the tables in Attachment 5, the sum of "Total Pond Discharge" of CSO for 2002 and 2003 was 3,576 MG. These calculations illustrate that 100% of the discharged CSO had the potential to be recycled to the WPCP for further treatment rather than being discharged to the river. However, when some of the CSO discharges occurred, the plant was already running either at capacity or close to its maximum capacity of 60 MGD.

The CSO Bleedback Facility should be designed to handle CSO return flows for the current and future capacities of the WPCP. Design the new facility with the following minimum parameters:

- CSO Bleedback flow to be recycled for study:
  - Minimum Flow: 3.0 MGD
  - Average Flow: 10 MGD
  - Maximum Flow: 30 MGD

- Magmeter sizing:
  - At Minimum Flow: 1.5 ft/sec
  - At Average Flow: 4.8 ft/sec
  - At Maximum Flow: 14.5 ft/sec

- Parshall Flume sizing:
  - Minimum Flow: 1.70 MGD
  - Maximum Flow: 66.9 MGD

The CSO Bleedback Facility should include options to return water from either Terminal Pond. Each terminal pond has different waste characteristics that can be used at the WPCP following a wet-weather event. Fresh CSO water pumped into Terminal Pond No. 1 will have a stronger waste than the partially treated CSO water in Terminal Pond No. 2. The current operation of the CSO Treatment Facilities will not change with this proposed facility during a wet-weather event.

5.0 ALTERNATES

Three alternate layouts for the conveyance of CSO from the terminal ponds back to the WPCP for treatment were considered. Each alternate includes devices to control and measure the recycled flow. Figure 1, in Attachment 1, presents the existing site plan highlighting the proposed project area. Each of the following alternates have an inlet structure for Terminal Pond Nos. 1 & 2 leading to a 6-foot by 12-foot manhole that connects to the existing 54-inch Baldwin Drain Area Sanitary Relief Sewer, herein after called the 54-inch sanitary sewer.

The 54-inch sanitary sewer was constructed as a combined sewer in 1971 and is still in service. It flows to the south to a junction structure upstream of its connection to the

84-inch Maumee Interceptor. At this structure, flow is regulated through a 48-inch pipe into Maumee Interceptor. This connection is located a few hundred feet upstream of the interceptor's river crossing. In the past few years, storm inlets have been removed from this portion of the sewer system and this sewer receives less combined sewer flow than previously designed. In 2006, the City viewed this sewer from a manhole located between Terminal Ponds No. 1 and 2 and it appears that it is in good condition.

Two diversion structures, the plant influent diversion structure and the Glasgow diversion structure, are located just upstream of the WPCP and downstream of the 54-inch sanitary sewer connection to the Maumee Interceptor. Both of these diversion structures divert flow from entering the WPCP to the CSO Pump Station which pumps the CSO to Terminal Pond No. 1.

Each alternate will have similar control strategies. See the proposed control strategy in Attachment 6.

CSO Bleedback from the Terminal Ponds will not occur unless these conditions are met:

- Wayne St. Interceptor will be below a certain level for a certain amount of time.
- Plant Influent flowmeter flow rate (bleedback shall not create plant to become overloaded).
- High level in 54-inch Sanitary Sewer Manhole

If any one of these conditions are not met, CSO will not be returned to the WPCP for further treatment. The upstream regulators on the 54-inch sanitary sewer will not cause any CSO's because the level is being monitored.

5.1 24" Magmeter with Electrically Actuated Plug Valves

Figure 2, in Attachment 1, shows a 36-inch diameter pipe leading from Terminal Pond No. 1 to an inlet structure containing a 24-inch magmeter to measure flow and a 24-inch electrically actuated plug valve to control flow. The CSO would then travel through a 36-inch diameter pipe where it would drop into a 6-foot by 12-foot manhole and connect to an existing 54-inch sanitary sewer. The 54-inch sanitary sewer connects to the Maumee Interceptor where the CSO would be directed to the WPCP for further treatment. An identical set-up leading from Terminal Pond No. 2 will flow into the same 6-foot by 12-foot manhole.

Figure 3, in Attachment 1, presents section cuts of the manhole structure and inlet structures. This drawing includes invert elevations with respect to high and low water levels in the terminal ponds.

The initial cost for the 24-inch Magmeter with Electrically Actuated Plug Valves alternate is estimated at about $1.09 million. See Attachment 2.

5.2 24" Magmeter with 54" by 54" Electrically Actuated Sluice Gate

Figure 4, in Attachment 1, shows a 36-inch diameter pipe leading from Terminal Pond No. 1 to an inlet structure containing a 24-inch magmeter to measure flow

and a 54-inch by 54-inch electrically actuated sluice gate to control flow into the structure. The CSO would then travel through a 36-inch diameter pipe where it would drop into a 6-foot by 12-foot manhole and connect to an existing 54-inch sanitary sewer. The 54-inch sanitary sewer connects to the Maumee Interceptor where the CSO would be transferred to the WPCP for further treatment. An identical set-up leading from Terminal Pond No. 2 will flow into the same 6-foot by 12-foot manhole.

Figure 5, in Attachment 1, presents section cuts of the manhole structure and inlet structures. This drawing includes invert elevations with respect to high and low water levels in the terminal ponds.

The initial cost for the 24-inch Magmeter with 54-inch by 54-inch Electrically Actuated Sluice Gate alternate is estimated at about $1 million. See Attachment 2.

5.3 6'-0" Parshall Flume with 54" by 54" Electrically Actuated Sluice Gate

Figure 6, in Attachment 1, shows a 36-inch diameter pipe leading from Terminal Pond No. 1 to an inlet structure containing a 54-inch by 54-inch electrically actuated sluice gate to control flow into the structure. The CSO would then travel through a 36-inch diameter pipe where it would enter a 90-foot long concrete channel leading to a 6-foot Parshall Flume to measure the flow. The CSO would then drop into a 6-foot by 12-foot manhole and enter a 48-inch diameter pipe leading to another 6-foot by 12-foot manhole which connects to an existing 54-inch sanitary sewer. The 54-inch sanitary sewer connects to the Maumee Interceptor where the CSO would be transferred to the WPCP for further treatment. An identical set-up leading from Terminal Pond No. 2 flows into the 90-foot concrete channel leading into the 6-foot by 12-foot manhole.

Figure 7, in Attachment 1, presents section cuts of the manhole structure, concrete channel with flume, and inlet structures. This drawing includes invert elevations with respect to high and low water levels in the terminal ponds.

The initial cost for the 6-foot Parshall Flume with 54-inch by 54-inch Electrically Actuated Sluice Gate alternate is estimated at about $1.1 million. See Attachment 2.

6.0 RECOMMENDATIONS

The study shows that Alternate No. 2 "24-inch Magmeter with 54-inch by 54-inch Electrically Actuated Sluice Gate" will provide the desired operation at the least cost. Based on cost effectiveness, minimal maintenance, ease of flow control and effectiveness in isolating the pond from the recycle area, Alternate No. 2 is recommended.

Based on discussions with WPCP personnel, it is recommended that further implementation of the WPCP CSO Terminal Ponds Nos. 1 & 2 Recycle Study be delayed until the Primary Clarifier Project has been completed. Also, if this study reaches the design phase, the uses of the northern interconnect between Terminal Pond Nos. 1 and 2 will be explored. The northern interconnect currently has a sluice gate to isolate Terminal

Pond No. 1 from Terminal Pond No. 2. With an additional sluice gate to isolate Terminal Pond No. 2 from this structure, a less expensive facility can be constructed to accomplish the City's goals by returning, sampling, and metering flow from either pond.

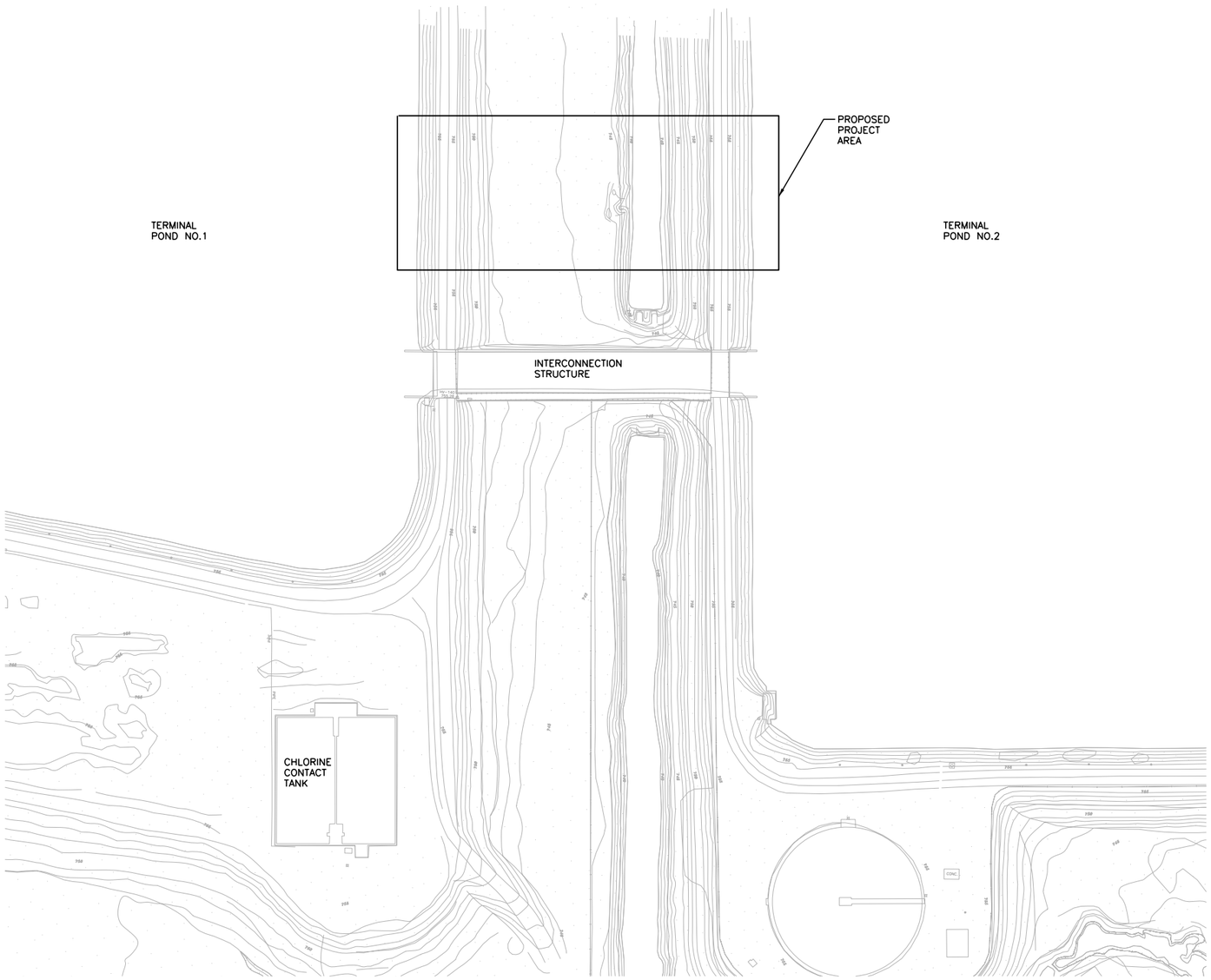
WPCP personnel brought up an additional concern with recycling CSO from the Terminal Ponds. If either terminal pond is drained to low pool level, there is a possibility of a large fish kill due to decreased levels of dissolved oxygen in the water. This will create odor problems.

Another option for the City to consider is a flow-through treatment system with post disinfection from Pond No. 2. The permit would need to be modified for bacteria levels rather than BOD and suspended solids. This option would be more controllable, provide CSO treatment to at least a primary treatment level and decrease the bacteria level in the river during a CSO event.

ATTACHMENT 1

Conceptual Layout Alternates

- **24-inch Magmeter with Electrically Actuated Plug Valves**
- **24-inch Magmeter with 54-inch by 54-inch Electrically Actuated Sluice Gate**
- **6-foot Parshall Flume with 54-inch by 54-inch Electrically Actuated Sluice Gate**



EXISTING SITE PLAN

0 100'

FIGURE 1
EXISTING SITE-NORTH
CITY OF FORT WAYNE
WPCP CSO TERMINAL POND NOS. 1 & 2 RECYLCE STUDY

FORT WAYNE, INDIANA

DONOHUE & ASSOCIATES

SEPTEMBER 2007

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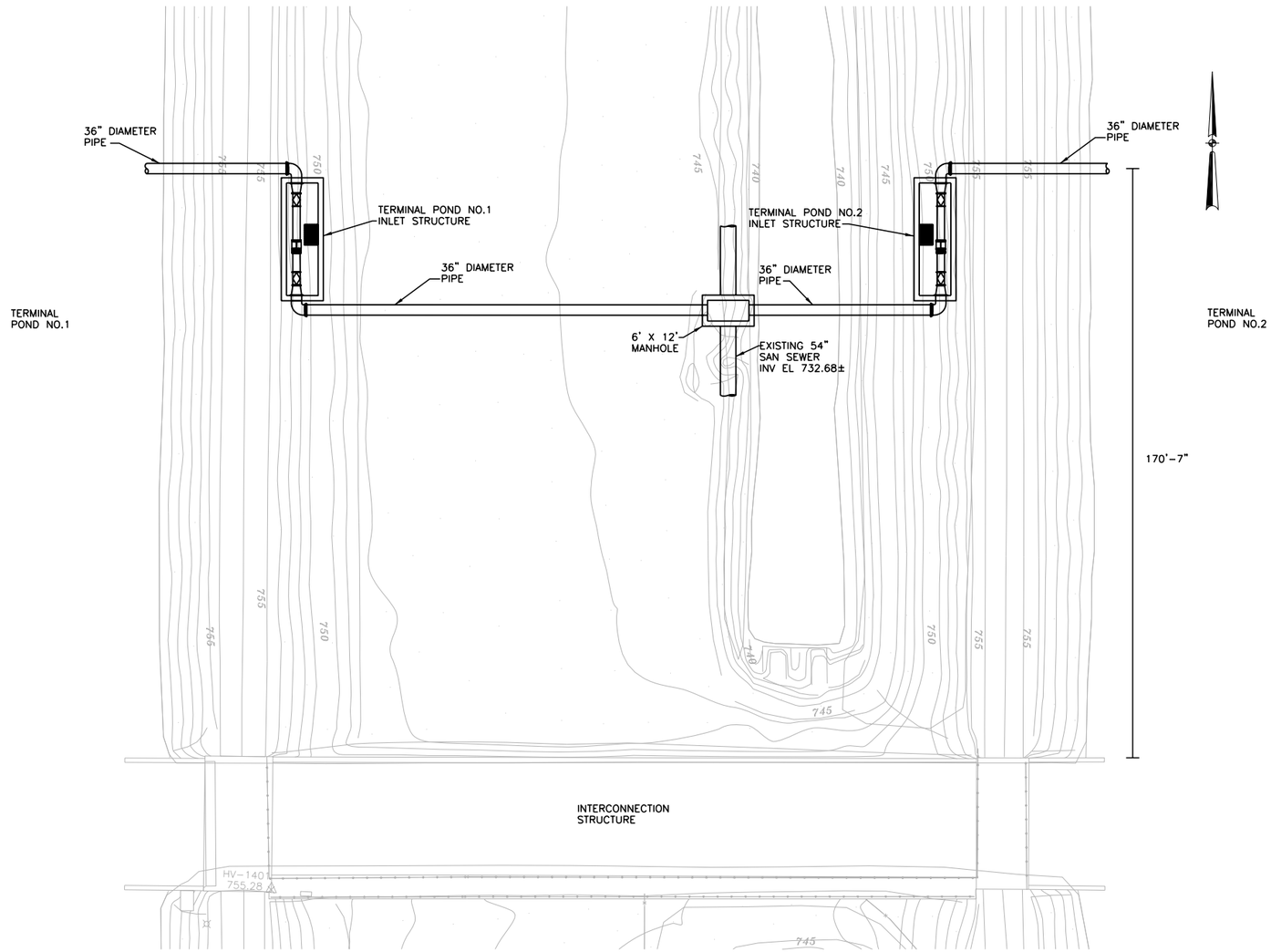

ALTERNATE NO. 1 SITE PLAN

0 40'

FIGURE 2

ALTERNATE NO. 1 PLAN: 24" MAGMETER WITH ELECTRICALLY ACTUATED PLUG VALVE

CITY OF FORT WAYNE

WPCP CSO TERMINAL POND NOS. 1 & 2 RECYLCE STUDY

FORT WAYNE, INDIANA

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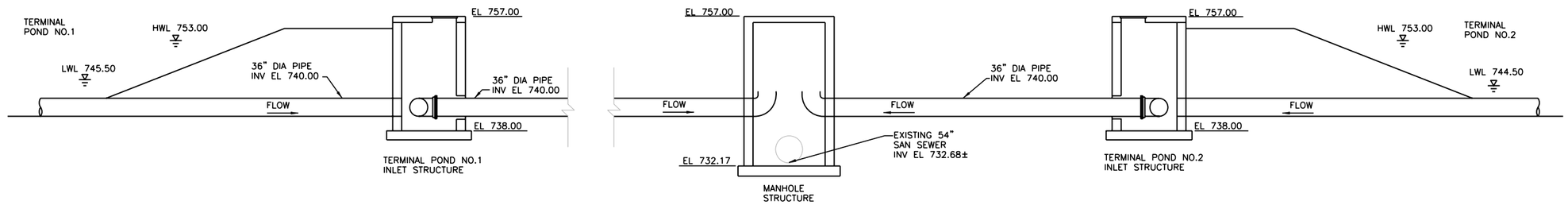

ALTERNATE NO. 1 SECTION A

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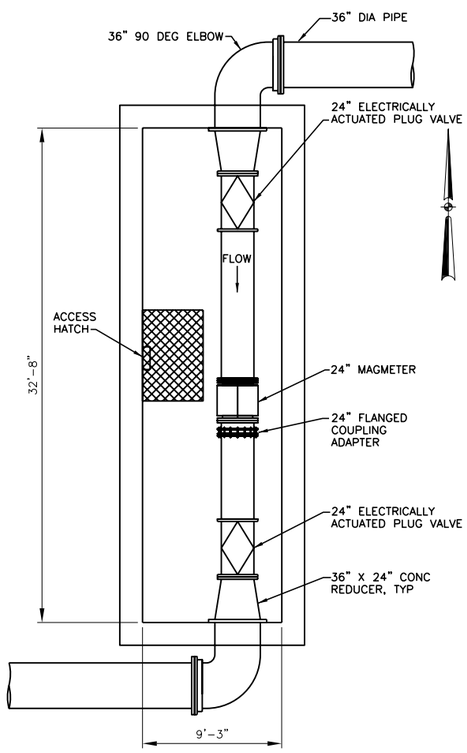

ALTERNATE NO. 1 PLAN

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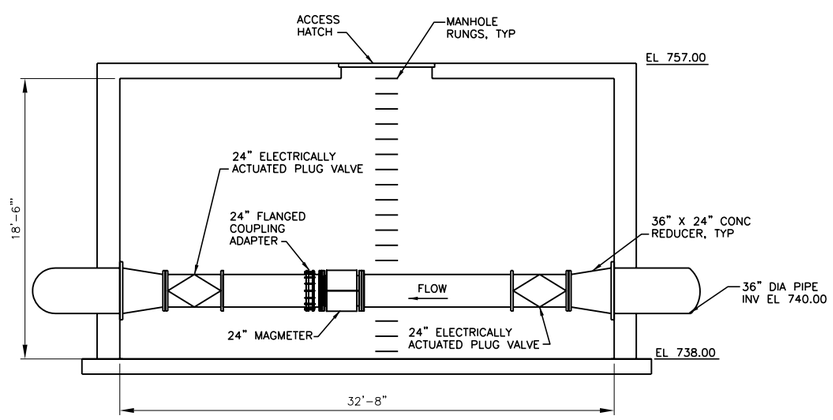

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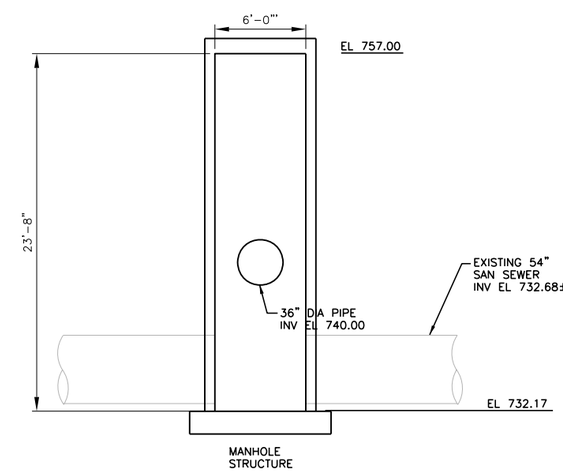

ALTERNATE NO. 1 SECTION C

0 10'

FIGURE 3

ALTERNATE NO. 1 SECTION: 24" MAGMETER WITH ELECTRICALLY ACTUATED PLUG VALVE

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WPCP CSO TERMINAL POND NOS. 1 & 2 RECYLCE STUDY

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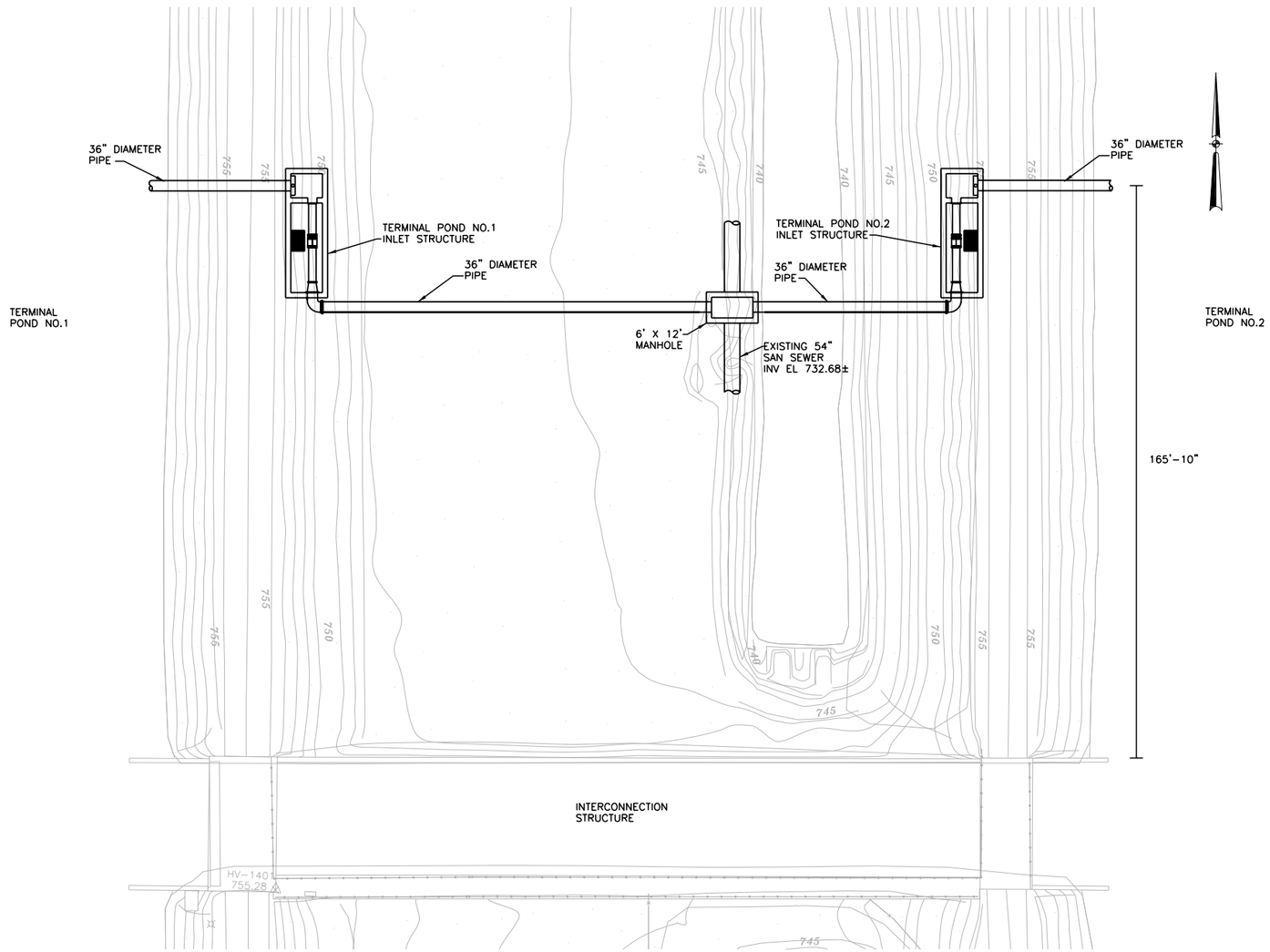

ALTERNATE NO. 2 SITE PLAN

0 40'

FIGURE 4

ALTERNATE NO. 2 PLAN: 24" MAGMETER WITH 54" X 54" ELECTRICALLY ACTUATED SLUICE GATE

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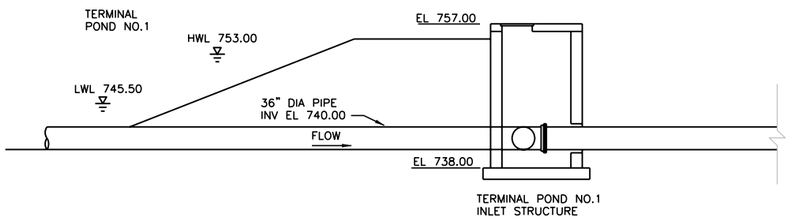

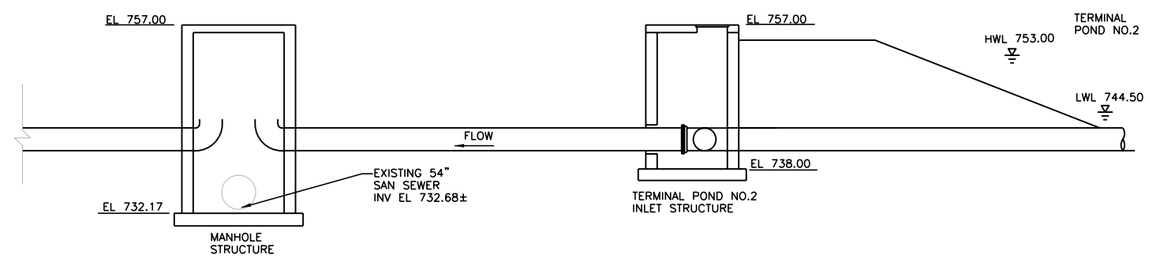

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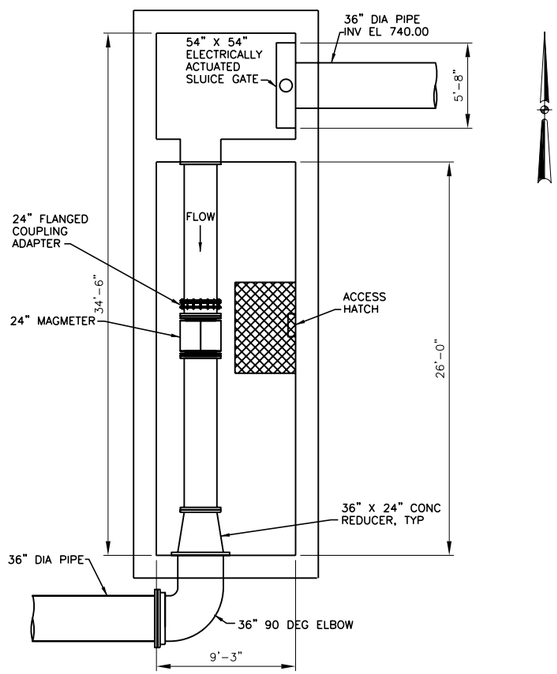

ALTERNATE NO. 2 PLAN

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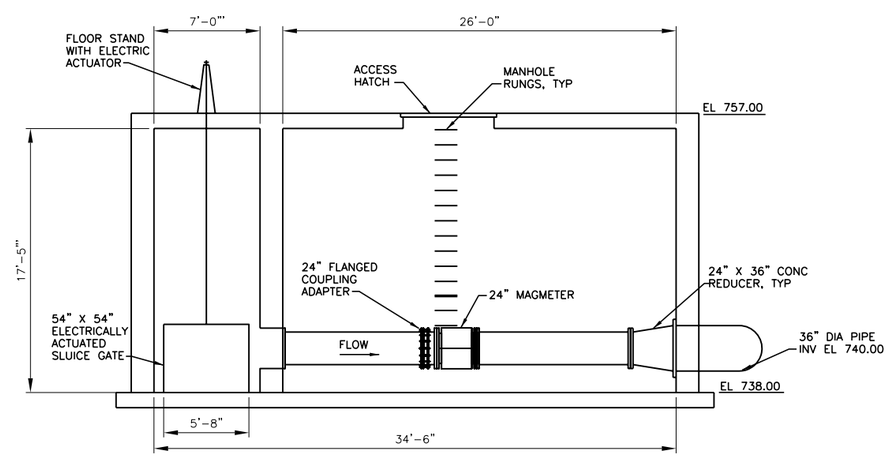

ALTERNATE NO. 2 SECTION B

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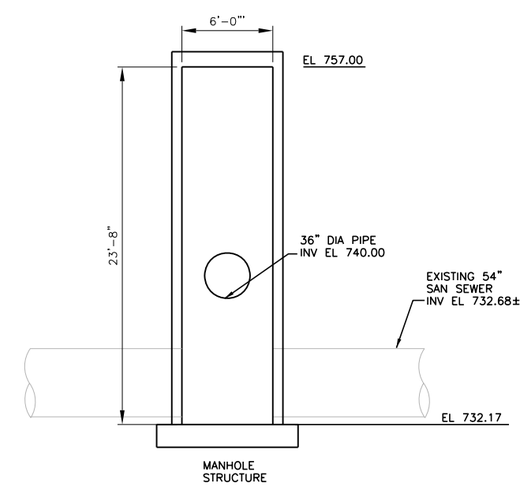

ALTERNATE NO. 2 SECTION C

0 10'

FIGURE 5
ALTERNATE NO. 2 SECTION: 24" MAGMETER WITH 54" X 54" ELECTRICALLY ACTUATED SLUICE GATE
CITY OF FORT WAYNE
WPCP CSO TERMINAL POND NOS. 1 & 2 RECYLCE STUDY

FORT WAYNE, INDIANA

DONOHUE & ASSOCIATES

SEPTEMBER 2007

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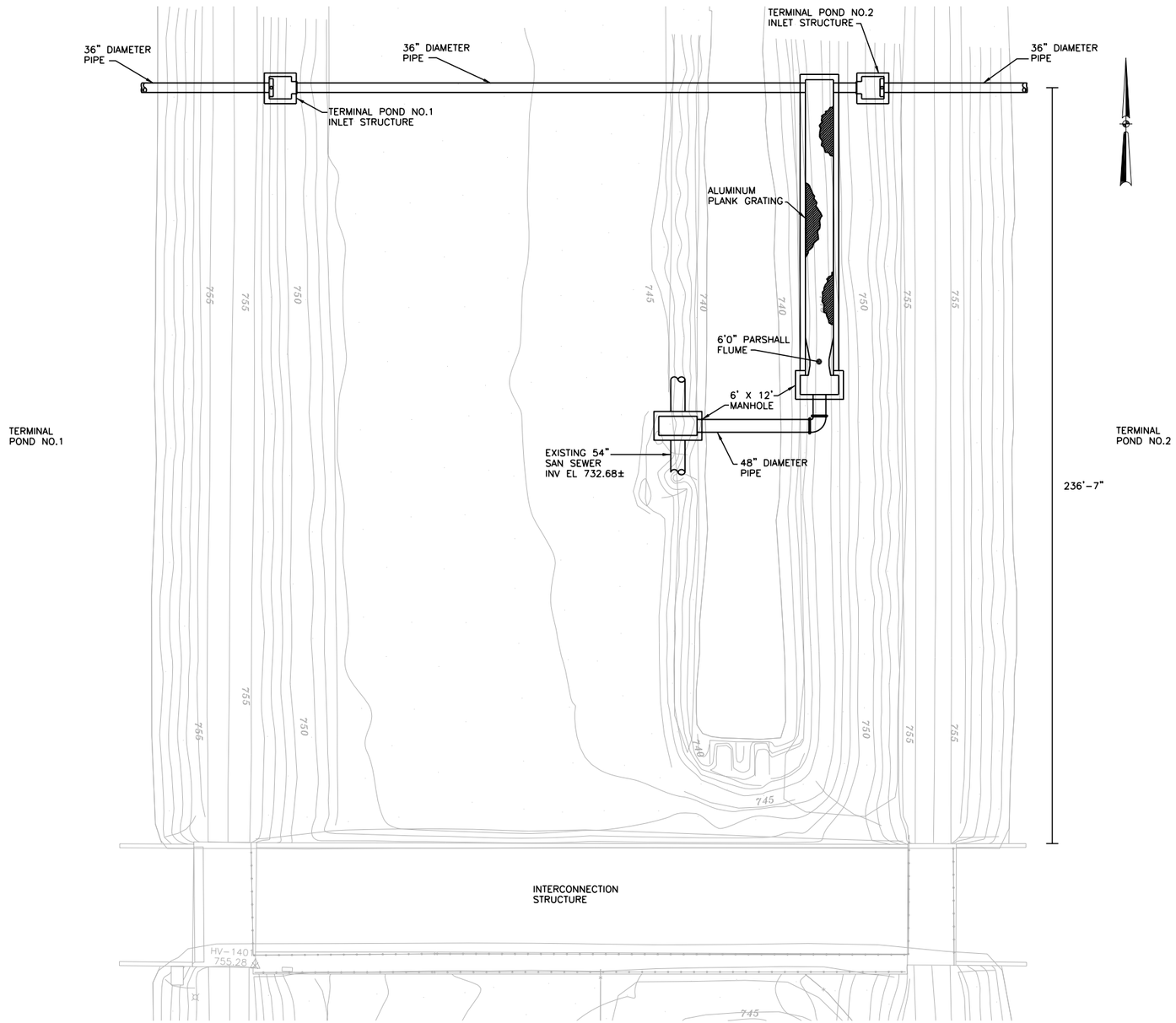

ALTERNATE NO. 3 SITE PLAN

0 40'

FIGURE 6

ALTERNATE NO. 3 PLAN: 6'0" PARSHALL FLUME W/ 54" X 54" ELECTRICALLY ACTUATED SLUICE GATE

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WPCP CSO TERMINAL POND NOS. 1 & 2 RECYLCE STUDY

FORT WAYNE, INDIANA

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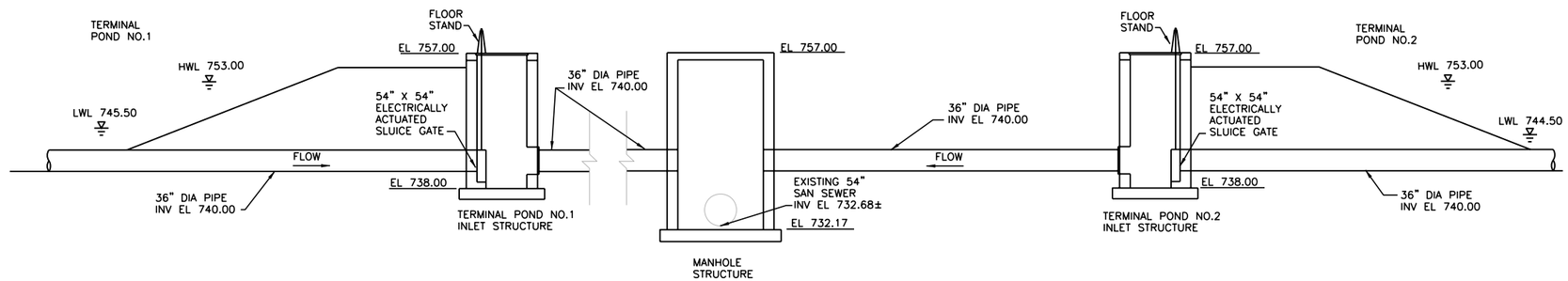

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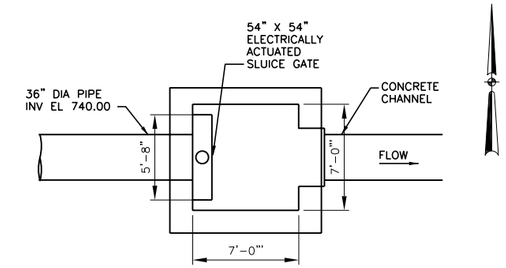

ALTERNATE NO. 3 PLAN

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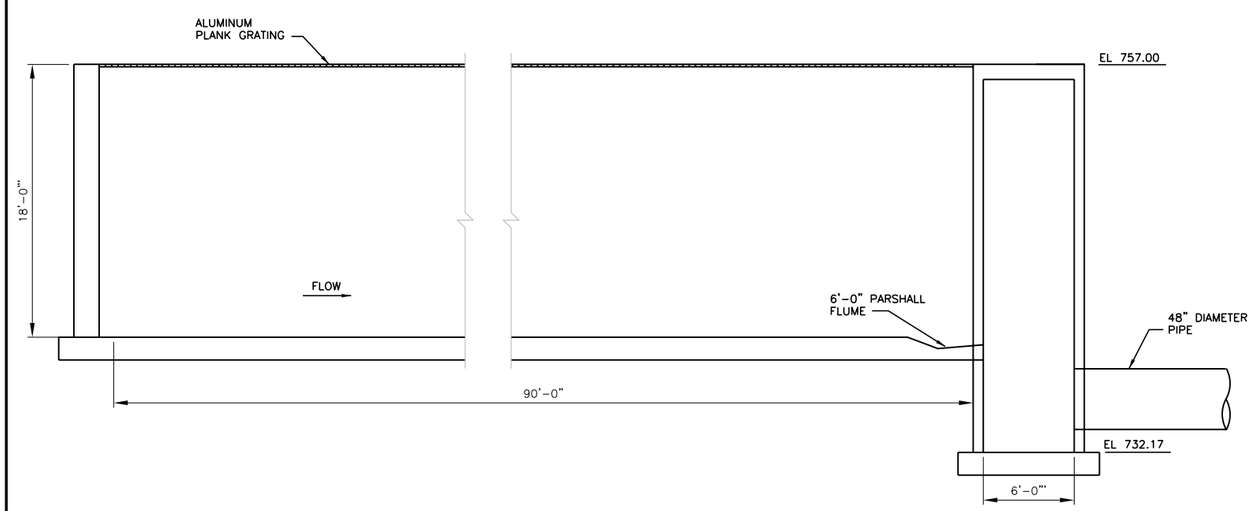

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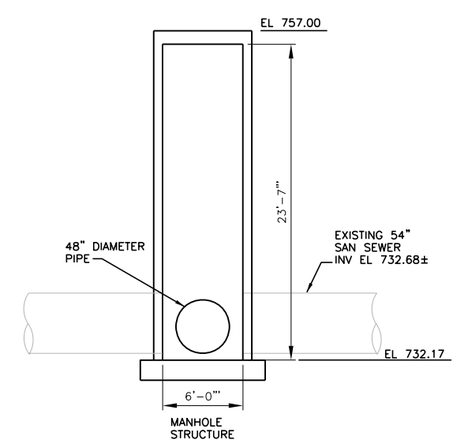

ALTERNATE NO. 3 SECTION C

0 10'

FIGURE 7

ALTERNATE NO. 3 SECTION: 6'0" PARSHALL FLUME W/ 54" X 54" ELECTRICALLY ACTUATED SLUICE GATE

CITY OF FORT WAYNE

WPCP CSO TERMINAL POND NOS. 1 & 2 RECYLCE STUDY

FORT WAYNE, INDIANA

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ATTACHMENT 2

Initial Cost Estimate

- **24-inch Magmeter with Electrically Actuated Plug Valves**
- **24-inch Magmeter with 54-inch by 54-inch Electrically Actuated Sluice Gate**
- **6-foot Parshall Flume with 54-inch by 54-inch Electrically Actuated Sluice Gate**

CITTY OF FORT WAYNE
WPCP CSO TERMINAL POND NOS. 1 & 2 RECYCLE STUDY
FT. WAYNE, INDIANA

SUMMARY

INITIAL COST ESTIMATE

General Description
To evaluate facilities necessary to return stored CSO flow from the terminal ponds to the interceptor sewer system for conveyance to the Water Pollution Control Plant (WPCP)

ITEM	Initial Cost ($)
ALTERNATE NO. 1: 24" Magmeter with Electrically Actuated Plug Valve	1,089,659
ALTERNATE NO. 2: 24" Magmeter with 54"x54" Electrically Actuated Sluice Gate	1,002,173
ALTERNATE NO. 3: 6'-0" Parshall Flume with 54"x54" Electrically Actuated Sluice Gate	1,100,986

CITTY OF FORT WAYNE
WPCP CSO TERMINAL POND NOS. 1 & 2 RECYCLE STUDY
FT. WAYNE, INDIANA

ALTERNATE NO. 1: 24" Magmeter with Electrically Actuated Plug Valve

INITIAL COST ESTIMATE

General Description

One inlet structure will be built for both Terminal Pond No. 1 and Terminal Pond No. 2. Within these structures, there will be a 24" magmeter and an electrically actuated plug valve. The plug valve will control the amount of CSO that will be recycled to the WPCP and the magmeter will measure the flow and return the signal to a PLC. The recycled CSO will then combine with the 54" sanitary sewer that runs under the Baldwin Ditch through a new manhole.

ITEM	Units	Quantity	Unit Cost ($)	Initial Cost ($)
Architectural/Structural				
Earthwork	See Worksheet for Detailed Cost Breakdown			125,300
Concrete	See Worksheet for Detailed Cost Breakdown			165,550
Metals	See Worksheet for Detailed Cost Breakdown			7,500
Buildings	See Worksheet for Detailed Cost Breakdown			0
Demoltion	See Worksheet for Detailed Cost Breakdown			5,000
Process				
Piping	LS	1	109,950	109,950
Plug Valves w/ electric actuator	Each	2	34,708	69,415
Plug Valves w/ handwheel	Each	2	17,500	35,000
Instrumentation & Control				
Equipment	LS	1	24,900	24,900
Programming	LS	1	4,940	4,940
Field Wiring	LS	1	440	440
Electrical				
Distribution Equipment	LS	1	1,100	1,100
Conduit, Wire, Handholes, and Site Work	LS	1	34,000	34,000
Subtotal				583,095
Contingency			30%	174,929
Subtotal				758,024
Contractor Overhead & Profit			25%	189,506
Total Construction Cost				**947,529**
Engineering			15%	142,129
Total Initial Cost				**1,089,659**

CITTY OF FORT WAYNE
WPCP CSO TERMINAL POND NOS. 1 & 2 RECYCLE STUDY
FT. WAYNE, INDIANA

ALTERNATE NO. 1: 24" Magmeter with Electrically Actuated Plug Valve

ARCHITECTURAL/STRUCTURAL WORKSHEET

ITEM	Units	Quantity	Unit Cost ($)	Initial Cost ($)
Earthwork: Excavation for Meter Vaults	cu yds	1,500	10	15,000
Earthwork: Excavation for Manhole	cu yds	150	10	1,500
Earthwork: Sheeting for Meter Vaults	sq ft	2,400	32	76,800
Earthwork: Sheeting for Manhole	sq ft	1,000	32	32,000
Earthwork: Flood Protection Levee	cu yds			
Earthwork: Flood Protection Gravel Road	sq yds			
Earthwork:				
Earthwork				**125,300**
Concrete: Base Slab for Meter Vaults	cu yds	70	270	18,900
Concrete: Base Slab for Manhole	cu yds	15	270	4,050
Concrete: Walls for Meter Vaults	cu yds	190	460	87,400
Concrete: Walls for Manhole	cu yds	60	460	27,600
Concrete: Structural Slab for Meter Vaults	cu yds	35	690	24,150
Concrete: Structural Slab for Manhole	cu yds	5	690	3,450
Concrete: Channels	cu yds			
Concrete: Precast Roof	ft			
Concrete				**165,550**
Metals: Aluminum Grating	sq ft			
Metals: Aluminum Handrail	ft			
Metals: Aluminum Stairway	risers			
Metals: Manhole Rungs	ea	52	75	3,900
Metals: Hatches	ea	3	1,200	3,600
Metals				**7,500**
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Buildings				**0**
Demolition: 54 inch Pipe in Manhole	lump sum	1	5,000	5,000
Demolition:	cu ft			
Demolition:	lump sum			
Demolition:	lump sum			
Demoltion				**5,000**

CITTY OF FORT WAYNE
WPCP CSO TERMINAL POND NOS. 1 & 2 RECYCLE STUDY
FT. WAYNE, INDIANA

ALTERNATE NO. 2: 24" Magmeter with 54"x54" Electrically Actuated Sluice Gate

INITIAL COST ESTIMATE

General Description

One inlet structure will be built for both Terminal Pond No. 1 and Terminal Pond No. 2. Within these structures, there will be a 24" magmeter and an electrically actuated sluice gate. The sluice gate will control the amount of CSO that will be recycled to the WPCP and the magmeter will measure the flow and return the signal to a PLC. The recycled CSO will then combine with the 54" sanitary sewer that runs under the Baldwin Ditch through a new manhole.

ITEM	Units	Quantity	Unit Cost ($)	Initial Cost ($)
Architectural/Structural				
Earthwork	See Worksheet for Detailed Cost Breakdown			125,300
Concrete	See Worksheet for Detailed Cost Breakdown			176,100
Metals	See Worksheet for Detailed Cost Breakdown			9,900
Buildings	See Worksheet for Detailed Cost Breakdown			0
Demoltion	See Worksheet for Detailed Cost Breakdown			5,000
Process				
Piping	LS	1	99,600	99,600
Sluice Gates	Each	2	27,500	55,000
Instrumentation & Control				
Equipment	LS	1	24,900	24,900
Programming	LS	1	4,940	4,940
Field Wiring	LS	1	440	440
Electrical				
Distribution Equipment	LS	1	1,100	1,100
Conduit, Wire, Handholes, and Site Work	LS	1	34,000	34,000
Subtotal				536,280
Contingency			30%	160,884
Subtotal				697,164
Contractor Overhead & Profit			25%	174,291
Total Construction Cost				**871,455**
Engineering			15%	130,718
Total Initial Cost				**1,002,173**

CITTY OF FORT WAYNE
WPCP CSO TERMINAL POND NOS. 1 & 2 RECYCLE STUDY
FT. WAYNE, INDIANA

ALTERNATE NO. 2: 24" Magmeter with 54"x54" Electrically Actuated Sluice Gate

ARCHITECTURAL/STRUCTURAL WORKSHEET

ITEM	Units	Quantity	Unit Cost ($)	Initial Cost ($)
Earthwork: Excavation for Meter Vaults	cu yds	1,500	10	15,000
Earthwork: Excavation for Manhole	cu yds	150	10	1,500
Earthwork: Sheeting for Meter Vaults	sq ft	2,400	32	76,800
Earthwork: Sheeting for Manhole	sq ft	1,000	32	32,000
Earthwork: Flood Protection Levee	cu yds			
Earthwork: Flood Protection Gravel Road	sq yds			
Earthwork:				
Earthwork				**125,300**
Concrete: Base Slab For Meter vaults	cu yds	75	270	20,250
Concrete: Base Slab for Manhole	cu yds	15	270	4,050
Concrete: Walls For Meter Vaults	cu yds	210	460	96,600
Concrete: Walls for Manhole	cu yds	60	460	27,600
Concrete: Structural Slabs For Meter Vaults	cu yds	35	690	24,150
Concrete: Structural Slab for Manhole	cu yds	5	690	3,450
Concrete: Channels	cu yds			
Concrete: Precast Roof	ft			
Concrete				**176,100**
Metals: Aluminum Grating	sq ft			
Metals: Aluminum Handrail	ft			
Metals: Aluminum Stairway	risers			
Metals: Manhole Rungs	ea	52	75	3,900
Metals: Hatches	ea	5	1,200	6,000
Metals				**9,900**
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Buildings				**0**
Demolition: 54 inch Pipe in Manhole	lump sum	1	5,000	5,000
Demolition:	lump sum			
Demolition:	lump sum			
Demolition:	lump sum			
Demoltion				**5,000**

CITTY OF FORT WAYNE
WPCP CSO TERMINAL POND NOS. 1 & 2 RECYCLE STUDY
FT. WAYNE, INDIANA

ALTERNATE NO. 3: 6'-0" Parshall Flume with 54"x54" Electrically Actuated Sluice Gate

INITIAL COST ESTIMATE

General Description

One inlet structure will be built for both Terminal Pond No. 1 and Terminal Pond No. 2. Within these structures, there will be an electrically actuated sluice gate which will control the amount of CSO that will be recycled to the WPCP. The recycled CSO will flow through a pipe into a concrete channel that contains a parshall flume that will measure the flow and send it to a PLC. The recycled CSO will then combine with the 54" sanitary sewer that runs under the Baldwin Ditch through a new manhole.

ITEM	Units	Quantity	Unit Cost ($)	Initial Cost ($)
Architectural/Structural				
Earthwork	See Worksheet for Detailed Cost Breakdown			140,200
Concrete: Structural Slab for Manhole	See Worksheet for Detailed Cost Breakdown			206,650
Metals	See Worksheet for Detailed Cost Breakdown			30,000
Buildings	See Worksheet for Detailed Cost Breakdown			0
Demoltion	See Worksheet for Detailed Cost Breakdown			5,000
Process				
Piping	LS	1	101,526	101,526
Sluice Gates	Each	2	27,500	55,000
Instrumentation & Control				
Equipment	LS	1	10,300	10,300
Programming	LS	1	4,940	4,940
Field Wiring	LS	1	440	440
Electrical				
Distribution Equipment	LS	1	1,100	1,100
Conduit, Wire, Handholes, and Site Work	LS	1	34,000	34,000
Subtotal				589,156
Contingency			30%	176,747
Subtotal				765,903
Contractor Overhead & Profit			25%	191,476
Total Construction Cost				**957,379**
Engineering			15%	143,607
Total Initial Cost				**1,100,986**

CITTY OF FORT WAYNE
WPCP CSO TERMINAL POND NOS. 1 & 2 RECYCLE STUDY
FT. WAYNE, INDIANA

ALTERNATE NO. 3: 6'-0" Parshall Flume with 54"x54" Electrically Actuated Sluice Gate

ARCHITECTURAL/STRUCTURAL WORKSHEET

ITEM	Units	Quantity	Unit Cost ($)	Initial Cost ($)
Earthwork: Excavation For Gate Vaults	cu yds	750	10	7,500
Earthwork: Excavation for Parshall Flume	cu yds	800	10	8,000
Earthwork: Excavation for Manhole	cu yds	150	10	1,500
Earthwork: Sheeting for Gate Vaults	sq ft	1,600	32	51,200
Earthwork: Sheeting for Parshall Flume	sq ft	1,250	32	40,000
Earthwork: Sheeting for Manhole	sq ft	1,000	32	32,000
Earthwork:				
Earthwork				**140,200**
Concrete: Base Slab for Gate Vaults	cu yds	20	270	5,400
Concrete: Base Slab for Parshall Flume	cu yds	100	270	27,000
Concrete: Base Slab for Manhole	cu yds	15	270	4,050
Concrete: Walls for Gate Vaults	cu yds	70	460	32,200
Concrete: Walls for Parshall Flume	cu yds	240	460	110,400
Concrete: Walls for Manhole	cu yds	30	460	13,800
Concrete: Structural Slabs for Gate Vaults	cu yds	10	690	6,900
Concrete: Structural Slabs for Parshall Flume	cu yds	5	690	3,450
Concrete: Structural Slab for Manhole	cu yds	5	690	3,450
Concrete: Precast Roof				**206,650**
Metals: Aluminum Grating	sq ft	850	30	25,500
Metals: Aluminum Handrail	ft			
Metals: Aluminum Stairway	risers			
Metals: Manhole Rungs	ea	12	75	900
Metals: Hatches	ea	3	1,200	3,600
Metals				**30,000**
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Building:	sq ft			
Buildings				**0**
Demolition: 54 inch Pipe at end of Parshall Flume	lump sum	1	5,000	5,000
Demolition:	lump sum			
Demolition:	lump sum			
Demolition:	lump sum			
Demoltion				**5,000**

ATTACHMENT 3

June 25, 2004 Workshop

Meeting Notes & Handouts

Date: Tuesday June 29, 2004

To: Mark Gensic City of Fort Wayne

From: Ken Sedmak Donohue

Attendees:

Cheryl Cronin	City of Fort Wayne
Brian Panzer	City of Fort Wayne
Chris Gach	City of Fort Wayne
Mark Gensic	City of Fort Wayne
Andrew Schipper	City of Fort Wayne
Stacy Jones	Donohue
Ken Sedmak	Donohue
Amber Smith	Donohue

Re: City of Fort Wayne
WPCP CSO Terminal Ponds Nos. 1 & 2 Recycle Study Workshop
Donohue Project No. 10725.100

Final

We met for a workshop to discuss the project on Friday June 25, 2004 at 9:30 a.m. at the Water Pollution Control Plant (WPCP) Conference Room. The purpose of the meeting was to discuss analysis results and alternatives to reach the project objective. An agenda was distributed with handouts. The handouts are not a part of these meeting notes.

Significant information and discussion is documented as a part of these notes.

Note No.	Action By	Note
		INTRODUCTIONS
1	Information	The design team introduced themselves and discussed their intentions.
		PURPOSE OF THE MEETING
2	Information	Ken Sedmak introduced the purpose of the meeting, which is to discuss the data analysis results and alternatives to reach the project objective. The project is to consider recycling CSO from the terminal ponds to the plant for treatment.
		PROJECT DESCRIPTION
3	Information	Ken Sedmak discussed the overall project elements for further discussion.
		POND NO. 1 AND POND NO. 2 DISCHARGE DATA RESULTS
4	Information	Stacy Jones discussed the discharge data results with respect to potential amounts of CSO recycled back to WPCP at 60 mgd, 85 mgd and 100 mgd. It is important to note that all calculations and analysis were based on limited data provided by MRO sheets.

Note No.	Action By	Note
		POND RECYCLE CONCEPTUAL LAYOUTS
5	Information	Stacy Jones discussed three alternate layouts for the conveyance of CSO from the terminal ponds back to the WPCP for treatment. Each alternate includes devices to control and measure the recycled flow. Alternate No. 1 consists of a 24" Magmeter with Electrically Actuated Plug Valves. Alternate No. 2 consists of a 24" Magmeter with 54" x 54" Electrically Actuated Sluice Gate. Alternate No. 3 consists of a 6'-0" Parshall Flume with 54" x 54" Electrically Actuated Sluice Gate. All three alternates have an inlet structure for Terminal Pond Nos. 1 & 2 leading to a 6'-0" x 12'-0" manhole. This manhole will be constructed of the existing 54" Baldwin Interceptor.
6	Information	Chris Gach recommended using the Northern Interconnect for inlet structures due to an existing sluice gate and MCC. Chris says that they do not use this structure anymore. This recommendation will be considered if this study progresses to a design phase.
7	Information	Cheryl Cronin brought up a concern about the 54" sewer. We may run into regulation violations if we use the 54" to transport CSO if it is classified strictly as a sanitary sewer.
8	Andrew Schipper	Andrew Schipper will provide Northern Intercept information to Donohue.
9	Information	Brian Panzer mentioned that the Terminal Ponds house many fish. We would not want to take the ponds to low pool as this would cause a dramatic decrease in dissolved oxygen which would cause a large fish kill.
10	Information	Ken Sedmak suggested that Terminal Ponds Nos. 1 & 2 be disinfected in a flow-through scenario rather than recycling CSO back to WPCP. The permit would then be based on coliform levels rather than BOD and suspended solids.
		PROBABLE CONSTRUCTION COST ESTIMATES
12	Information	Stacy Jones presented the initial cost estimate for each alternate.
		OTHER INFORMATION
13	Mark Gensic	Mark Gensic suggested delaying this project until the primary project is complete.

Please review these Final notes. Any comments please send to Ken Sedmak.

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POND NO. 1 AND POND NO. 2 DISCHARGE DATA RESULTS

Varying Discharge

TABLE 1: 60 MGD - CURRENT PLANT CAPACITY					
Year	**WPCP Plant Effluent Flow (MG)**	**Pond Influent Flow (MG)**	**Pond Discharge to River**	**Potential Recycled to Plant (MG)**	**Yearly Amount Recycled**
2002	48.90	28.70	22.07	6.63	30.04%
2003	53.07	52.61	48.40	4.21	8.70%

TABLE 2: 85 MGD - PLANNED PLANT CAPACITY					
Year	**WPCP Plant Effluent Flow (MG)**	**Pond Influent Flow (MG)**	**Pond Discharge to River**	**Potential Recycled to Plant (MG)**	**Yearly Amount Recycled**
2002	48.90	40.18	23.41	16.77	71.63%
2003	53.07	76.62	54.53	22.09	40.51%

TABLE 3: 100 MGD - FUTURE PLANT CAPACITY					
Year	**WPCP Plant Effluent Flow (MG)**	**Pond Influent Flow (MG)**	**Pond Discharge to River**	**Potential Recycled to Plant (MG)**	**Yearly Amount Recycled**
2002	48.90	44.16	24.49	19.67	80.33%
2003	53.07	79.23	47.51	31.72	66.77%

Assumptions:

- For planned and future plant capacity, increased plant capacity would cause less influent to terminal ponds.
- Potential amount recycled to plant is based on remaining capacity or volume of discharge.
- Assumed amounts to be recycled for study:
  - Minimum Flow: 3.0 MGD
  - Average Flow: 10 MGD
  - Maximum Flow: 60 MGD
- Magmeter sizing:
  - At Minimum Flow: 1.5 ft/sec
  - At Average Flow: 4.8 ft/sec
  - At Maximum Flow: 14.5 ft/sec
- Parshall Flume:
  - Minimum Flow: 1.70 MGD
  - Maximum Flow: 66.9 MGD

POND NO. 1 AND POND NO. 2 DISCHARGE DATA RESULTS (cont'd)

Same Discharge

TABLE 4: 60 MGD - CURRENT PLANT CAPACITY					
Year	**WPCP Plant Effluent Flow (MG)**	**Pond Influent Flow (MG)**	**Pond Discharge to River**	**Potential Recycled to Plant (MG)**	**Yearly Amount Recycled**
2002	48.90	28.70	22.07	6.63	30.04%
2003	53.07	52.61	48.40	4.21	8.70%

TABLE 5: 85 MGD - PLANNED PLANT CAPACITY					
Year	**WPCP Plant Effluent Flow (MG)**	**Pond Influent Flow (MG)**	**Pond Discharge to River**	**Potential Recycled to Plant (MG)**	**Yearly Amount Recycled**
2002	48.90	37.95	22.07	15.88	71.96%
2003	53.07	68.92	48.40	20.52	42.40%

TABLE 6: 100 MGD - FUTURE PLANT CAPACITY					
Year	**WPCP Plant Effluent Flow (MG)**	**Pond Influent Flow (MG)**	**Pond Discharge to River**	**Potential Recycled to Plant (MG)**	**Yearly Amount Recycled**
2002	48.90	40.85	22.07	18.78	85.11%
2003	53.07	75.84	48.40	27.44	56.70%

Assumptions:

- For planned and future plant capacity, increased plant capacity would <u>not</u> affect influent to terminal ponds.
- Potential amount recycled to plant is based on remaining capacity or volume of discharge.
- Assumed amounts to be recycled for study:
  - Minimum Flow: 3.0 MGD
  - Average Flow: 10 MGD
  - Maximum Flow: 60 MGD
- Magmeter sizing:
  - At Minimum Flow: 1.5 ft/sec
  - At Average Flow: 4.8 ft/sec
  - At Maximum Flow: 14.5 ft/sec
- Parshall Flume:
  - Minimum Flow: 1.70 MGD
  - Maximum Flow: 66.9 MGD

ATTACHMENT 4

MRO Data

					Pond #1			Pond #2		
		Day of Month	Precipitaion (in.)	Total Plant Flow (MGD)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)
Jan-02	1-Jan-2002	1	0	45.78						
	2-Jan-2002	2	t	46.94						
	3-Jan-2002	3	t	46.41						
	4-Jan-2002	4	0	45.06						
	5-Jan-2002	5	t	44.93						
	6-Jan-2002	6	0.09	44.97						
	7-Jan-2002	7	t	45.18						
	8-Jan-2002	8	0	44.52						
	9-Jan-2002	9	0	44.94						
	10-Jan-2002	10	0	42.86						
	11-Jan-2002	11	0	43.33						
	12-Jan-2002	12	t	42.88						
	13-Jan-2002	13	0	42.58						
	14-Jan-2002	14	0.01	44.03						
	15-Jan-2002	15	t	43.92						
	16-Jan-2002	16	t	43.53						
	17-Jan-2002	17	t	42.99						
	18-Jan-2002	18	0	43.40						
	19-Jan-2002	19	0	41.14						
	20-Jan-2002	20	0	39.97						
	21-Jan-2002	21	t	40.49						
	22-Jan-2002	22	0	42.45						
	23-Jan-2002	23	0.01	41.22						
	24-Jan-2002	24	0.05	43.09						
	25-Jan-2002	25	0	42.03						
	26-Jan-2002	26	0	42.31						
	27-Jan-2002	27	0	39.22						
	28-Jan-2002	28	0	43.01						
	29-Jan-2002	29	0.93	49.86	37.2		24			
	30-Jan-2002	30	0.44	61.52						
	31-Jan-2002	31	1.03	54.92						
Feb-02	1-Feb-2002	1	0.06	48.22	110.5		24			
	2-Feb-2002	2	0.00	55.89	38.8	47.4	24			
	3-Feb-2002	3	T	58.62	48		24			
	4-Feb-2002	4	T	43.28	46.2		24			
	5-Feb-2002	5	0.00	40.90	24.1		24			
	6-Feb-2002	6	0.00	40.51	20.3		24			
	7-Feb-2002	7	0.00	46.79	4.4		18.5			
	8-Feb-2002	8	0.00	55.20						
	9-Feb-2002	9	0.00	54.81		28.6				
	10-Feb-2002	10	0.13	52.38						
	11-Feb-2002	11	T	52.06						
	12-Feb-2002	12	0.01	52.18						
	13-Feb-2002	13	T	50.64						
	14-Feb-2002	14	0.00	48.73						
	15-Feb-2002	15	T	47.95						
	16-Feb-2002	16	0.03	46.83						
	17-Feb-2002	17	T	45.18						
	18-Feb-2002	18	0.00	46.29						
	19-Feb-2002	19	0.58	55.08			4.8			
	20-Feb-2002	20	0 0.31	66.78			5.5			
	21-Feb-2002	21	0 0.02	65.06						
	22-Feb-2002	22	0 T	61.80						
	23-Feb-2002	23	0 0.00	53.03						
	24-Feb-2002	24	0 0.00	50.83						
	25-Feb-2002	25	0 0.32	49.65						
	26-Feb-2002	26	0 0.34	66.06						
	27-Feb-2002	27	0 T	57.71						
	28-Feb-2002	28	0 0.00	46.69						
Mar-02	1-Mar-2002	1	0.00	53.24						
	2-Mar-2002	2	0.51	57.79						
	3-Mar-2002	3	0.02	67.54	4.2		4			
	4-Mar-2002	4	T	67.55	10.0		24			
	5-Mar-2002	5	T	60.22	6.6		24			
	6-Mar-2002	6	0.00	59.47	6.6		24			
	7-Mar-2002	7	0.02	57.92	6.6		24			
	8-Mar-2002	8	0.02	56.20	3.8		14			
	9-Mar-2002	9	0.65	68.99						
	10-Mar-2002	10	T	68.66		6.7				
	11-Mar-2002	11	0.00	68.26						
	12-Mar-2002	12	0.00	54.19						
	13-Mar-2002	13	0.00	58.25						
	14-Mar-2002	14	0.00	58.60						
	15-Mar-2002	15	0.11	54.51						
	16-Mar-2002	16	0.00	53.98						
	17-Mar-2002	17	0.01	50.07						
	18-Mar-2002	18	T	48.32						
	19-Mar-2002	19	T	47.70						
	20-Mar-2002	20	0.06	52.22						
	21-Mar-2002	21	T	48.19						
	22-Mar-2002	22	0.00	46.78						
	23-Mar-2002	23	0.00	45.94						
	24-Mar-2002	24	0.10	45.71						
	25-Mar-2002	25	0.17	47.66						
	26-Mar-2002	26	0.55	46.54						
	27-Mar-2002	27	0.00	53.68						
	28-Mar-2002	28	T	62.27						
	29-Mar-2002	29	0.31	61.28						
	30-Mar-2002	30	0.00	59.92				28.5		14.0
	31-Mar-2002	31	0.03	53.21				32.4		24.0

					Pond #1			Pond #2		
		Day of Month	Precipitaion (in.)	Total Flow (MGD)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)
Apr-02	1-Apr-2002	1	0.03	59.38				22.3		24
	2-Apr-2002	2	0.36	58.99				39.6		24
	3-Apr-2002	3	T	59.20				49.4		24
	4-Apr-2002	4	T	61.40				24.0		13
	5-Apr-2002	5	T	61.70						
	6-Apr-2002	6	0.00	60.36					34	
	7-Apr-2002	7	T	56.61						
	8-Apr-2002	8	0.78	57.97						
	9-Apr-2002	9	0.17	62.94						
	10-Apr-2002	10	0.00	66.20				88.8		8
	11-Apr-2002	11	0.00	70.59						
	12-Apr-2002	12	0.51	64.99						
	13-Apr-2002	13	T	71.32					89	
	14-Apr-2002	14	0.02	71.95						
	15-Apr-2002	15	0.00	71.24						
	16-Apr-2002	16	0.00	62.56						
	17-Apr-2002	17	0.00	61.30						
	18-Apr-2002	18	0.00	57.63						
	19-Apr-2002	19	0.58	56.36						
	20-Apr-2002	20	0.03	61.34						
	21-Apr-2002	21	0.19	62.83						
	22-Apr-2002	22	T	60.28						
	23-Apr-2002	23	0.00	52.44						
	24-Apr-2002	24	0.07	51.69						
	25-Apr-2002	25	0.01	49.33						
	26-Apr-2002	26	0.00	47.55						
	27-Apr-2002	27	0.93	54.22						
	28-Apr-2002	28	0.02	71.98						
	29-Apr-2002	29	T	63.38						
	30-Apr-2002	30	T	54.63						
May-02	1-May-2002	1	0.63	53.46						
	2-May-2002	2	T	70.73						
	3-May-2002	3	0.00	68.87						
	4-May-2002	4	0.00	57.32						
	5-May-2002	5	0.00	53.67						
	6-May-2002	6	0.14	56.68						
	7-May-2002	7	0.04	53.67						
	8-May-2002	8	0.44	55.70						
	9-May-2002	9	0.16	70.45						
	10-May-2002	10	0.00	63.64						
	11-May-2002	11	0.78	56.13						
	12-May-2002	12	0.63	66.52				41.6		18
	13-May-2002	13	0.13	66.48				38.3		24
	14-May-2002	14	0.00	66.64						
	15-May-2002	15	0.00	71.83						
	16-May-2002	16	0.24	67.39						
	17-May-2002	17	0.17	69.72						
	18-May-2002	18	0.00	68.87				11.1	30.3	5
	19-May-2002	19	T	65.81						
	20-May-2002	20	T	58.50						
	21-May-2002	21	0.00	55.85						
	22-May-2002	22	0.00	53.24						
	23-May-2002	23	0.00	51.10						
	24-May-2002	24	0.02	48.49						
	25-May-2002	25	1.84	52.68						
	26-May-2002	26	0.00	63.70						
	27-May-2002	27	0.00	52.70						
	28-May-2002	28	0.90	62.02						
	29-May-2002	29	0.17	63.71						
	30-May-2002	30	T	63.36						
	31-May-2002	31	T	53.45						
Jun-02	1-Jun-2002	1	0	50.25						
	2-Jun-2002	2	T	46.99						
	3-Jun-2002	3	T	50.03						
	4-Jun-2002	4	0.29	49.86						
	5-Jun-2002	5	0.79	62.50						
	6-Jun-2002	6	0.02	58.80						
	7-Jun-2002	7	0	48.96						
	8-Jun-2002	8	0	46.41						
	9-Jun-2002	9	0	45.32						
	10-Jun-2002	10	0	44.88						
	11-Jun-2002	11	0.2	48.99				66.9		24
	12-Jun-2002	12	T	46.18						
	13-Jun-2002	13	0.05	45.45				30.2		23
	14-Jun-2002	14	0.2	48.94						
	15-Jun-2002	15	0.29	45.17					48.6	
	16-Jun-2002	16	0.00	42.39						
	17-Jun-2002	17	0.09	42.29						
	18-Jun-2002	18	0.16	50.17						
	19-Jun-2002	19	0.00	45.50						
	20-Jun-2002	20	0.00	43.27						
	21-Jun-2002	21	0.00	43.71						
	22-Jun-2002	22	0.00	42.62						
	23-Jun-2002	23	0	41.75						
	24-Jun-2002	24	0	44.28						
	25-Jun-2002	25	0.59	50.12						
	26-Jun-2002	26	0.45	52.43						
	27-Jun-2002	27	0	69.83						
	28-Jun-2002	28	0	67.47						
	29-Jun-2002	29	0	67.74						
	30-Jun-2002	30	0	59.21						

					Pond #1			Pond #2		
		Day of Month	Precipitaion (in.)	Total Flow (MGD)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)
Jul-02	1-Jul-2002	1	0.00	53.83						
	2-Jul-2002	2	0.00	51.85						
	3-Jul-2002	3	0.00	48.51						
	4-Jul-2002	4	0.00	45.69						
	5-Jul-2002	5	0.00	44.14						
	6-Jul-2002	6	0.00	43.71						
	7-Jul-2002	7	0.00	42.83						
	8-Jul-2002	8	0.00	45.54						
	9-Jul-2002	9	0.18	46.79						
	10-Jul-2002	10	0.00	44.37						
	11-Jul-2002	11	0.00	42.76						
	12-Jul-2002	12	0.00	42.43						
	13-Jul-2002	13	0.00	41.85						
	14-Jul-2002	14	0.00	40.51						
	15-Jul-2002	15	0.00	42.14				12.4		24
	16-Jul-2002	16	0.00	40.92				13.3		24
	17-Jul-2002	17	0.00	40.66						
	18-Jul-2002	18	0.35	43.17						
	19-Jul-2002	19	T	47.03						
	20-Jul-2002	20	0.00	47.45						
	21-Jul-2002	21	0.00	39.36					12.9	
	22-Jul-2002	22	0.31	50.29						
	23-Jul-2002	23	0.11	51.00						
	24-Jul-2002	24	0.00	44.57						
	25-Jul-2002	25	0.00	43.44						
	26-Jul-2002	26	T	41.77						
	27-Jul-2002	27	0.01	40.10						
	28-Jul-2002	28	T	39.82						
	29-Jul-2002	29	1.44	49.45						
	30-Jul-2002	30	0.00	55.13						
	31-Jul-2002	31	0.00	53.86						
Aug-02	1-Aug-2002	1	0.00	43.43						
	2-Aug-2002	2	0.03	43.33						
	3-Aug-2002	3	0.00	40.52						
	4-Aug-2002	4	0.00	38.74						
	5-Aug-2002	5	0.05	40.53						
	6-Aug-2002	6	0.00	39.04						
	7-Aug-2002	7	0.00	39.40						
	8-Aug-2002	8	0.00	38.57						
	9-Aug-2002	9	0.00	39.56						
	10-Aug-2002	10	0.00	37.64						
	11-Aug-2002	11	0.00	36.53						
	12-Aug-2002	12	0.11	41.56						
	13-Aug-2002	13	0.12	42.85						
	14-Aug-2002	14	0.34	45.66						
	15-Aug-2002	15	T	40.67						
	16-Aug-2002	16	T	40.69						
	17-Aug-2002	17	0.00	38.35						
	18-Aug-2002	18	0.00	36.75						
	19-Aug-2002	19	0.92	54.83						
	20-Aug-2002	20	0.00	43.79						
	21-Aug-2002	21	0.00	39.57						
	22-Aug-2002	22	0.78	43.69						
	23-Aug-2002	23	0.44	61.97						
	24-Aug-2002	24	0.00	55.57						
	25-Aug-2002	25	0.00	43.58						
	26-Aug-2002	26	0.00	42.42						
	27-Aug-2002	27	0.00	41.15						
	28-Aug-2002	28	0.00	40.42						
	29-Aug-2002	29	0.00	41.65						
	30-Aug-2002	30	0.00	41.51						
	31-Aug-2002	31	0.00	43.46						
Sep-02	1-Sep-2002	1	0.00	39.98						
	2-Sep-2002	2	t	40.13						
	3-Sep-2002	3	0.00	39.09						
	4-Sep-2002	4	0.00	40.91						
	5-Sep-2002	5	0.00	41.29						
	6-Sep-2002	6	0.00	41.26						
	7-Sep-2002	7	0.00	40.60						
	8-Sep-2002	8	0.00	40.03						
	9-Sep-2002	9	t	40.55						
	10-Sep-2002	10	0.00	40.83				5.34		24
	11-Sep-2002	11	0.00	40.23				8.88		24
	12-Sep-2002	12	0.00	40.74				8.88		24
	13-Sep-2002	13	0.35	41.59				7.99		24
	14-Sep-2002	14	t	42.37				15.10	9.2	24
	15-Sep-2002	15	0.00	40.60				6.22		24
	16-Sep-2002	16	0.00	40.82				4.97		7
	17-Sep-2002	17	0.02	39.17				7.75		24
	18-Sep-2002	18	0.12	39.03				8.18		24
	19-Sep-2002	19	1.31	39.42				6.46		24
	20-Sep-2002	20	0.00	54.15				9.81		24
	21-Sep-2002	21	0.01	53.69				7.69	7.3	24
	22-Sep-2002	22	0.00	40.81				7.69		24
	23-Sep-2002	23	0.00	41.35				8.82		24
	24-Sep-2002	24	0.00	42.40				6.67		24
	25-Sep-2002	25	0.00	40.32	8.5		24.0	13.33		24
	26-Sep-2002	26	0.73	40.98				5.17		24
	27-Sep-2002	27	0.00	58.77						
	28-Sep-2002	28	0.00	46.79		8.5			8.3	
	29-Sep-2002	29	0.00	40.84						
	30-Sep-2002	30	0.00	41.91						

					Pond #1			Pond #2		
		Day of Month	Precipitaion (in.)	Total Flow (MGD)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)
Oct-02	1-Oct-2002	1	0.00	41.54						
	2-Oct-2002	2	0.00	41.74				7.9		24
	3-Oct-2002	3	T	42.38						
	4-Oct-2002	4	0.47	50.51						
	5-Oct-2002	5	0.00	45.93					7.9	
	6-Oct-2002	6	0.01	40.64						
	7-Oct-2002	7	0.00	40.79						
	8-Oct-2002	8	0.00	39.78						
	9-Oct-2002	9	0.00	36.44						
	10-Oct-2002	10	0.00	38.11						
	11-Oct-2002	11	0.00	40.27						
	12-Oct-2002	12	0.03	39.67						
	13-Oct-2002	13	0.02	40.35						
	14-Oct-2002	14	0.00	41.52						
	15-Oct-2002	15	0.00	49.99						
	16-Oct-2002	16	0.00	43.80						
	17-Oct-2002	17	T	34.87						
	18-Oct-2002	18	0.23	40.00						
	19-Oct-2002	19	0.13	49.95						
	20-Oct-2002	20	0.00	40.10						
	21-Oct-2002	21	0.00	40.18						
	22-Oct-2002	22	0.00	40.43						
	23-Oct-2002	23	0.00	40.74						
	24-Oct-2002	24	T	40.87						
	25-Oct-2002	25	0.55	49.49						
	26-Oct-2002	26	T	46.30						
	27-Oct-2002	27	0.00	39.76						
	28-Oct-2002	28	0.00	39.32						
	29-Oct-2002	29	0.14	41.17						
	30-Oct-2002	30	T	40.00						
	31-Oct-2002	31	0.00	41.43						
Nov-02	1-Nov-2002	1	0.00	38.26						
	2-Nov-2002	2	0.00	38.72						
	3-Nov-2002	3	t	37.56						
	4-Nov-2002	4	0.01	40.04						
	5-Nov-2002	5	0.31	43.79						
	6-Nov-2002	6	t	43.81						
	7-Nov-2002	7	0.00	38.98						
	8-Nov-2002	8	0.00	40.21						
	9-Nov-2002	9	0.07	35.54						
	10-Nov-2002	10	1.18	57.72						
	11-Nov-2002	11	0.00	58.18						
	12-Nov-2002	12	0.00	51.92				29.7		24
	13-Nov-2002	13	0.00	46.68				8.1		24
	14-Nov-2002	14	t	45.03						
	15-Nov-2002	15	0.13	48.30						
	16-Nov-2002	16	0.02	47.28					18.9	
	17-Nov-2002	17	t	42.82						
	18-Nov-2002	18	0.03	43.71						
	19-Nov-2002	19	0.11	46.91						
	20-Nov-2002	20	0.00	42.69						
	21-Nov-2002	21	0.19	45.24						
	22-Nov-2002	22	0.11	56.47						
	23-Nov-2002	23	0.00	51.14						
	24-Nov-2002	24	t	45.15						
	25-Nov-2002	25	0.03	46.81						
	26-Nov-2002	26	0.04	45.94						
	27-Nov-2002	27	0.00	47.16						
	28-Nov-2002	28	0.00	44.14						
	29-Nov-2002	29	0.00	42.95						
	30-Nov-2002	30	0.04	42.94						
Dec-02	1-Dec-2002	1	0.00	43.43						
	2-Dec-2002	2	0.04	43.79						
	3-Dec-2002	3	0.00	45.40						
	4-Dec-2002	4	0.00	45.18						
	5-Dec-2002	5	t	43.87						
	6-Dec-2002	6	t	43.33						
	7-Dec-2002	7	0.00	42.43						
	8-Dec-2002	8	0.00	43.17						
	9-Dec-2002	9	0.00	43.90						
	10-Dec-2002	10	0.00	43.37						
	11-Dec-2002	11	0.00	42.12						
	12-Dec-2002	12	0.00	44.07						
	13-Dec-2002	13	0.05	42.57						
	14-Dec-2002	14	t	42.68						
	15-Dec-2002	15	t	41.02						
	16-Dec-2002	16	0.00	42.75						
	17-Dec-2002	17	0.20	43.20						
	18-Dec-2002	18	0.10	48.73						
	19-Dec-2002	19	0.34	60.21						
	20-Dec-2002	20	0.02	58.93						
	21-Dec-2002	21	t	56.36						
	22-Dec-2002	22	t	46.92						
	23-Dec-2002	23	0.00	47.80						
	24-Dec-2002	24	0.23	46.28						
	25-Dec-2002	25	0.31	42.58						
	26-Dec-2002	26	t	45.68						
	27-Dec-2002	27	0.00	46.04						
	28-Dec-2002	28	0.00	45.06						
	29-Dec-2002	29	0.00	44.84						
	30-Dec-2002	30	t	51.80						
	31-Dec-2002	31	0.32	43.44						

				48.90	Pond #1			Pond #2		
		Day of Month	Precipitaion (in.)	Total Flow (MGD)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)
Jan-03	1-Jan-2003	1	0.00	63.16						
	2-Jan-2003	2	0.00	57.66						
	3-Jan-2003	3	0.00	53.38						
	4-Jan-2003	4	0.00	48.71						
	5-Jan-2003	5	0.00	51.38						
	6-Jan-2003	6	0.00	51.62						
	7-Jan-2003	7	0.00	50.13						
	8-Jan-2003	8	0.00	48.48						
	9-Jan-2003	9	0.00	57.71						
	10-Jan-2003	10	0.00	58.53						
	11-Jan-2003	11	0.00	53.89						
	12-Jan-2003	12	0.00	48.93						
	13-Jan-2003	13	0.00	48.35						
	14-Jan-2003	14	0.00	46.36						
	15-Jan-2003	15	0.00	44.97						
	16-Jan-2003	16	0.00	46.22						
	17-Jan-2003	17	0.00	44.55						
	18-Jan-2003	18	0.00	44.64						
	19-Jan-2003	19	0.00	41.92						
	20-Jan-2003	20	0.00	43.17						
	21-Jan-2003	21	0.00	41.88						
	22-Jan-2003	22	0.00	40.45						
	23-Jan-2003	23	0.00	42.65						
	24-Jan-2003	24	0.00	41.83						
	25-Jan-2003	25	0.00	41.79						
	26-Jan-2003	26	0.00	39.54						
	27-Jan-2003	27	0.00	40.55						
	28-Jan-2003	28	0.00	34.22						
	29-Jan-2003	29	0.00	39.89						
	30-Jan-2003	30	0.00	38.43						
	31-Jan-2003	31	0.00	41.51						
Feb-03	1-Feb-2003	1	0.01	44.44						
	2-Feb-2003	2	0.01	49.91						
	3-Feb-2003	3	0.21	53.35						
	4-Feb-2003	4	0.03	63.21						
	5-Feb-2003	5	t	56.10						
	6-Feb-2003	6	0.04	46.54						
	7-Feb-2003	7	t	43.26						
	8-Feb-2003	8	t	43.26						
	9-Feb-2003	9	t	41.73						
	10-Feb-2003	10	0.06	41.32						
	11-Feb-2003	11	0.07	47.32						
	12-Feb-2003	12	t	40.44						
	13-Feb-2003	13	0.00	39.50						
	14-Feb-2003	14	0.04	39.96						
	15-Feb-2003	15	0.11	40.51						
	16-Feb-2003	16	t	38.42						
	17-Feb-2003	17	0.04	39.09						
	18-Feb-2003	18	t	39.07						
	19-Feb-2003	19	0.00	50.90						
	20-Feb-2003	20	0.00	47.48						
	21-Feb-2003	21	0.00	43.42						
	22-Feb-2003	22	0.71	49.53						
	23-Feb-2003	23	0.01	55.35						
	24-Feb-2003	24	0.05	46.20						
	25-Feb-2003	25	0.00	43.86						
	26-Feb-2003	26	0.00	44.64						
	27-Feb-2003	27	0.00	44.14						
	28-Feb-2003	28	0.00	45.36						
Mar-03	1-Mar-2003	1	0.03	44.02						
	2-Mar-2003	2	T	46.03						
	3-Mar-2003	3	T	42.93						
	4-Mar-2003	4	T	48.64						
	5-Mar-2003	5	0.09	57.74						
	6-Mar-2003	6	0.06	58.62						
	7-Mar-2003	7	0.00	55.31						
	8-Mar-2003	8	0.05	54.56						
	9-Mar-2003	9	0.02	62.46						
	10-Mar-2003	10	0.00	61.18						
	11-Mar-2003	11	0.00	47.46						
	12-Mar-2003	12	0.00	62.38						
	13-Mar-2003	13	0.24	60.36				63.600		21
	14-Mar-2003	14	0.00	56.90						
	15-Mar-2003	15	0.00	56.67					63.600	
	16-Mar-2003	16	0.00	56.94						
	17-Mar-2003	17	0.00	58.24						
	18-Mar-2003	18	0.00	58.16						
	19-Mar-2003	19	0.09	59.10				16.450		8
	20-Mar-2003	20	0.27	59.42				73.970		6
	21-Mar-2003	21	0.07	58.08						
	22-Mar-2003	22	T	58.27					45.210	
	23-Mar-2003	23	0.00	60.04						
	24-Mar-2003	24	0.00	59.05				86.620		24
	25-Mar-2003	25	0.03	59.88				4.490		24
	26-Mar-2003	26	0.00	57.79				23.920		24
	27-Mar-2003	27	0.00	57.25				8.330		24
	28-Mar-2003	28	1.42	55.37				30.420		24
	29-Mar-2003	29	0.01	59.06				24.000	29.630	24
	30-Mar-2003	30	0.00	58.38				4.110		24
	31-Mar-2003	31	T	56.68				15.560		23

					Pond #1			Pond #2		
		Day of Month	Precipitaion (in.)	Total Flow (MGD)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)
Apr-03	1-Apr-2003	1	0.03	54.96						
	2-Apr-2003	2	0.00	57.45						
	3-Apr-2003	3	0.00	55.51						
	4-Apr-2003	4	1.60	58.47						
	5-Apr-2003	5	t	62.87	1.000		1			
	6-Apr-2003	6	0.00	63.05						
	7-Apr-2003	7	0.33	63.61						
	8-Apr-2003	8	t	64.75				135.9		19
	9-Apr-2003	9	0.00	59.57						
	10-Apr-2003	10	0.00	58.39						
	11-Apr-2003	11	0.00	61.56						
	12-Apr-2003	12	0.00	63.12					135.9	
	13-Apr-2003	13	0.00	58.78						
	14-Apr-2003	14	0.00	50.94						
	15-Apr-2003	15	0.00	57.18						
	16-Apr-2003	16	0.00	50.60						
	17-Apr-2003	17	t	49.79						
	18-Apr-2003	18	t	48.36						
	19-Apr-2003	19	0.00	47.16						
	20-Apr-2003	20	t	44.19						
	21-Apr-2003	21	0.00	46.77						
	22-Apr-2003	22	0.00	48.75						
	23-Apr-2003	23	0.00	47.13						
	24-Apr-2003	24	0.00	45.48						
	25-Apr-2003	25	0.00	49.93						
	26-Apr-2003	26	0.00	46.52						
	27-Apr-2003	27	0.00	44.07						
	28-Apr-2003	28	0.00	44.33						
	29-Apr-2003	29	0.00	45.20						
	30-Apr-2003	30	0.00	47.77				13.9		24
May-03	1-May-2003	1	0.77	58.02						
	2-May-2003	2	0.01	61.93						
	3-May-2003	3	0.00	47.73						
	4-May-2003	4	0.41	46.24						
	5-May-2003	5	1.82	62.60						
	6-May-2003	6	0.00	62.75				11.2		20
	7-May-2003	7	0.34	64.79				136.9		24
	8-May-2003	8	T	62.47						
	9-May-2003	9	1.51	63.30						
	10-May-2003	10	0.17	62.81				106.1	84.7	24
	11-May-2003	11	0.20	60.30				63.2		24
	12-May-2003	12	0.06	61.14				59.2		24
	13-May-2003	13	0.00	60.26				101.3		24
	14-May-2003	14	0.68	59.76						
	15-May-2003	15	0.15	62.17						
	16-May-2003	16	0.00	63.08				106.2		24
	17-May-2003	17	0.00	64.65				5.2	67.0	24
	18-May-2003	18	T	65.43						
	19-May-2003	19	T	62.98						
	20-May-2003	20	0.46	64.76						
	21-May-2003	21	0.00	67.08						
	22-May-2003	22	0.00	61.99						
	23-May-2003	23	0.00	55.44						
	24-May-2003	24	0.00	52.98						
	25-May-2003	25	0.00	51.66						
	26-May-2003	26	0.00	55.46						
	27-May-2003	27	0.00	50.42						
	28-May-2003	28	0.00	49.69				18.38		24
	29-May-2003	29	0.00	48.66				15.6		24
	30-May-2003	30	0.00	49.49				6.7		6
	31-May-2003	31	0.00	61.98					13.5	
Jun-03	1-Jun-2003	1	0.00	46.43						
	2-Jun-2003	2	0.09	48.73						
	3-Jun-2003	3	0.34	61.00						
	4-Jun-2003	4	T	48.45						
	5-Jun-2003	5	0.00	47.53						
	6-Jun-2003	6	0.10	49.99						
	7-Jun-2003	7	0.00	46.81						
	8-Jun-2003	8	0.16	51.78						
	9-Jun-2003	9	0.00	47.44						
	10-Jun-2003	10	0.02	48.73						
	11-Jun-2003	11	0.10	46.96						
	12-Jun-2003	12	0.01	61.57						
	13-Jun-2003	13	0.16	62.69						
	14-Jun-2003	14	T	61.37						
	15-Jun-2003	15	0.00	61.75						
	16-Jun-2003	16	0.00	61.51						
	17-Jun-2003	17	0.18	59.26						
	18-Jun-2003	18	0.00	61.88						
	19-Jun-2003	19	T	61.91						
	20-Jun-2003	20	0.00	62.25						
	21-Jun-2003	21	0.00	47.01						
	22-Jun-2003	22	0.00	39.52						
	23-Jun-2003	23	0.00	42.52				24.5		9
	24-Jun-2003	24	0.00	42.09						
	25-Jun-2003	25	0.00	40.45				18.4		24
	26-Jun-2003	26	0.14	45.42						
	27-Jun-2003	27	0.00	45.46						
	28-Jun-2003	28	0.17	38.69					21.5	
	29-Jun-2003	29	0.09	40.00						
	30-Jun-2003	30	0.10	43.58						

					Pond #1			Pond #2		
		Day of Month	Precipitaion (in.)	Total Flow (MGD)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)
Jul-03	1-Jul-2003	1	0.00	38.42						
	2-Jul-2003	2	0.12	40.30						
	3-Jul-2003	3	0.00	40.33						
	4-Jul-2003	4	1.77	44.33						
	5-Jul-2003	5	0.66	59.63						
	6-Jul-2003	6	2.67	61.07						
	7-Jul-2003	7	1.10	59.76				67.1		24
	8-Jul-2003	8	0.66	58.44				83.1		24
	9-Jul-2003	9	0.08	58.45				90.9		24
	10-Jul-2003	10	0.27	56.04				109.1		24
	11-Jul-2003	11	T	55.40				117.5		24
	12-Jul-2003	12	0.00	56.33				101.1	94.8	24
	13-Jul-2003	13	0.00	57.30				74.3		24
	14-Jul-2003	14	0.00	53.92				35.4		24
	15-Jul-2003	15	0.08	63.43						
	16-Jul-2003	16	0.00	63.10						
	17-Jul-2003	17	0.00	58.44						
	18-Jul-2003	18	T	55.78						
	19-Jul-2003	19	0.00	52.40					54.9	
	20-Jul-2003	20	T	48.76						
	21-Jul-2003	21	1.48	55.66						
	22-Jul-2003	22	0.51	60.09						
	23-Jul-2003	23	0.00	61.53						
	24-Jul-2003	24	0.00	61.15						
	25-Jul-2003	25	0.00	60.74						
	26-Jul-2003	26	0.00	61.44						
	27-Jul-2003	27	0.40	61.64						
	28-Jul-2003	28	T	60.91						
	29-Jul-2003	29	0.00	62.66				58.0	58.0	24
	30-Jul-2003	30	0.00	58.11				45.8	51.9	24
	31-Jul-2003	31	0.00	58.27				17.6	40.5	24
Aug-03	1-Aug-2003	1	0.83	56.98						
	2-Aug-2003	2	0.21	61.54						
	3-Aug-2003	3	T	62.93						
	4-Aug-2003	4	0.07	62.58						
	5-Aug-2003	5	0.00	61.94						
	6-Aug-2003	6	0.00	62.58						
	7-Aug-2003	7	0.00	60.68						
	8-Aug-2003	8	0.07	60.44				62.0		24
	9-Aug-2003	9	T	62.35				29.5	45.8	24
	10-Aug-2003	10	0.00	57.44				22.1		24
	11-Aug-2003	11	0.00	51.02						
	12-Aug-2003	12	0.07	54.26						
	13-Aug-2003	13	0.00	55.21						
	14-Aug-2003	14	0.00	49.71						
	15-Aug-2003	15	0.00	50.72						
	16-Aug-2003	16	T	50.06						
	17-Aug-2003	17	0.00	48.12						
	18-Aug-2003	18	0.00	47.03						
	19-Aug-2003	19	0.00	46.66				21.9		24
	20-Aug-2003	20	0.00	48.36				18.2		24
	21-Aug-2003	21	0.05	48.30						
	22-Aug-2003	22	0.33	51.72						
	23-Aug-2003	23	0.00	46.92					20.0	
	24-Aug-2003	24	0.00	44.38						
	25-Aug-2003	25	0.00	45.90						
	26-Aug-2003	26	1.25	55.66						
	27-Aug-2003	27	0.00	62.69						
	28-Aug-2003	28	0.00	55.51						
	29-Aug-2003	29	0.68	57.86						
	30-Aug-2003	30	0.00	57.61						
	31-Aug-2003	31	0.52	47.33						
Sep-03	1-Sep-2003	1	1.36	62.41						
	2-Sep-2003	2	0.01	61.21				120.2		24
	3-Sep-2003	3	0.00	61.79						
	4-Sep-2003	4	0.00	62.77						
	5-Sep-2003	5	0.00	63.36						
	6-Sep-2003	6	0.00	62.55					120.2	
	7-Sep-2003	7	0.00	58.75						
	8-Sep-2003	8	0.00	52.38						
	9-Sep-2003	9	0.00	52.90						
	10-Sep-2003	10	0.00	56.96						
	11-Sep-2003	11	0.00	51.12						
	12-Sep-2003	12	0.00	48.74						
	13-Sep-2003	13	0.00	48.10						
	14-Sep-2003	14	0.65	50.35						
	15-Sep-2003	15	0.17	66.84						
	16-Sep-2003	16	0.00	54.96				17.5		24
	17-Sep-2003	17	0.00	48.80				12.1		24
	18-Sep-2003	18	0.00	47.75				10.5		24
	19-Sep-2003	19	0.00	47.33						
	20-Sep-2003	20	0.00	45.38					13.4	
	21-Sep-2003	21	0.01	43.87						
	22-Sep-2003	22	1.24	59.18						
	23-Sep-2003	23	0.00	62.07						
	24-Sep-2003	24	0.76	63.07						
	25-Sep-2003	25	0.00	63.46						
	26-Sep-2003	26	1.04	62.76						
	27-Sep-2003	27	T	61.23						
	28-Sep-2003	28	0.20	62.55						
	29-Sep-2003	29	T	62.68						
	30-Sep-2003	30	0.00	62.12						

					Pond #1			Pond #2		
		Day of Month	Precipitaion (in.)	Total Flow (MGD)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)	Flow from CSO (MG)	CSO Weekly Average	Duration of Outfall (hrs.)
Oct-03	1-Oct-2003	1	0.00	60.14						
	2-Oct-2003	2	0.00	54.25						
	3-Oct-2003	3	0.24	52.41						
	4-Oct-2003	4	T	58.63						
	5-Oct-2003	5	0.00	50.81						
	6-Oct-2003	6	0.00	49.36						
	7-Oct-2003	7	0.00	48.09						
	8-Oct-2003	8	0.00	48.66						
	9-Oct-2003	9	0.00	46.80				19.3		24
	10-Oct-2003	10	0.00	46.64				18.7		6
	11-Oct-2003	11	0.00	45.27						
	12-Oct-2003	12	T	46.22						
	13-Oct-2003	13	0.00	44.53				43.2	27.1	24
	14-Oct-2003	14	0.84	55.71						
	15-Oct-2003	15	0.00	62.05						
	16-Oct-2003	16	0.21	57.18						
	17-Oct-2003	17	0.00	52.78						
	18-Oct-2003	18	0.00	50.10						
	19-Oct-2003	19	0.00	48.84						
	20-Oct-2003	20	0.00	48.01						
	21-Oct-2003	21	0.00	46.55						
	22-Oct-2003	22	T	44.92						
	23-Oct-2003	23	T	45.27						
	24-Oct-2003	24	0.00	43.68						
	25-Oct-2003	25	0.48	50.53						
	26-Oct-2003	26	0.01	52.64						
	27-Oct-2003	27	T	46.01						
	28-Oct-2003	28	0.13	46.79						
	29-Oct-2003	29	T	48.30						
	30-Oct-2003	30	0.00	45.92						
	31-Oct-2003	31	0.00	48.23						
Nov-03	1-Nov-2003	1	T	48.29						
	2-Nov-2003	2	T	45.66						
	3-Nov-2003	3	0.00	45.09						
	4-Nov-2003	4	0.00	44.03						
	5-Nov-2003	5	T	45.52						
	6-Nov-2003	6	T	43.67						
	7-Nov-2003	7	0.00	43.32						
	8-Nov-2003	8	0.00	42.86						
	9-Nov-2003	9	0.00	43.01						
	10-Nov-2003	10	T	43.17						
	11-Nov-2003	11	0.38	46.89						
	12-Nov-2003	12	0.11	47.80						
	13-Nov-2003	13	T	45.92						
	14-Nov-2003	14	T	44.66						
	15-Nov-2003	15	0.00	45.06						
	16-Nov-2003	16	0.00	43.69						
	17-Nov-2003	17	0.00	43.23						
	18-Nov-2003	18	0.66	55.47						
	19-Nov-2003	19	0.03	62.52						
	20-Nov-2003	20	0.00	60.41						
	21-Nov-2003	21	0.00	51.45						
	22-Nov-2003	22	0.00	49.42						
	23-Nov-2003	23	0.10	49.67						
	24-Nov-2003	24	0.36	60.71						
	25-Nov-2003	25	0.00	59.43						
	26-Nov-2003	26	T	54.47						
	27-Nov-2003	27	0.10	57.12						
	28-Nov-2003	28	0.37	57.91						
	29-Nov-2003	29	T	59.91						
	30-Nov-2003	30	0.00	59.78						
Dec-03	1-Dec-2003	1	0.00	59.14						
	2-Dec-2003	2	0.00	58.03						
	3-Dec-2003	3	0.00	53.43						
	4-Dec-2003	4	0.07	51.24						
	5-Dec-2003	5	0.36	54.53						
	6-Dec-2003	6	0.00	61.73						
	7-Dec-2003	7	0.00	60.97						
	8-Dec-2003	8	T	55.91						
	9-Dec-2003	9	0.06	60.62						
	10-Dec-2003	10	0.41	60.44						
	11-Dec-2003	11	T	60.80						
	12-Dec-2003	12	0.00	61.47						
	13-Dec-2003	13	0.01	61.29						
	14-Dec-2003	14	0.04	56.53						
	15-Dec-2003	15	T	56.61						
	16-Dec-2003	16	0.14	57.52						
	17-Dec-2003	17	T	61.00						
	18-Dec-2003	18	T	52.33						
	19-Dec-2003	19	0.14	50.12						
	20-Dec-2003	20	0.02	49.01						
	21-Dec-2003	21	0.00	49.71						
	22-Dec-2003	22	0.17	49.64						
	23-Dec-2003	23	0.85	60.21				107.5		24
	24-Dec-2003	24	0.01	59.08						
	25-Dec-2003	25	0.00	59.44						
	26-Dec-2003	26	0.00	60.92				39.1		8
	27-Dec-2003	27	0.00	61.89					73.3	
	28-Dec-2003	28	0.00	56.24						
	29-Dec-2003	29	0.34	57.61						
	30-Dec-2003	30	T	59.40						
	31-Dec-2003	31	0.00	60.61						

ATTACHMENT 5

Donohue & Associates, Inc.

Working Spreadsheets & Tables

Month	Date	WPCP Plant Influent Flow (MG)	Remaining Capacity (@ 60 MG)	Remaining Capacity (@ 85 MG)	Remaining Capacity (@ 100 MG)	Pond #1 Flow from CSO (MG)	Pond #2 Flow from CSO (MG)	Total Pond Discharge (@ 60MG)	Potential Amount Recycled (@ 60 MG)	Potential % Recycled to Plant (@ 60MG)	Monthly Amount Recycled (@ 60MG)	Total Pond Discharge (@ 85MG)	Potential Amount Recycled (@ 85 MG)	Potential % Recycled to Plant (@ 85MG)	Monthly Amount Recycled (@ 85MG)	Total Pond Discharge (@ 100MG)	Potential Amount Recycled (@ 100 MG)	Potential % Recycled to Plant (@ 100MG)	Monthly Amount Recycled (@ 100MG)
Jan-02	29-Jan-2002	49.86	10.14	35.14	50.14	37.2		37.2	10.14	27.27%	**27.27%**	37.20	35.14	94.47%	**94%**	37.20	37.20	100%	**100%**
Feb-02	1-Feb-2002	48.22	11.78	36.78	51.78	110.5		110.5	11.78	10.66%		110.50	36.78	33.29%		110.50	51.78	46.86%	
	2-Feb-2002	55.89	4.11	29.11	44.11	38.8		38.8	4.11	10.60%		38.80	29.11	75.03%		38.80	38.80	100%	
	3-Feb-2002	58.62	1.38	26.38	41.38	48		48	1.38	2.88%		48.00	26.38	54.97%		48.00	41.38	86.22%	
	4-Feb-2002	43.28	16.72	41.72	56.72	46.2		46.2	16.72	36.19%		46.20	41.72	90.30%		46.20	46.20	100%	
	5-Feb-2002	40.90	19.10	44.10	59.10	24.1		24.1	19.10	79.25%		24.10	24.10	100%		24.10	24.10	100%	
	6-Feb-2002	40.51	19.49	44.49	59.49	20.3		20.3	19.49	96.00%		20.30	20.30	100%		20.30	20.30	100%	
	7-Feb-2002	46.79	13.21	38.21	53.21	4.4		4.4	4.40	100%	**26.34%**	4.40	4.40	100%	**62.54%**	4.40	4.40	100%	**77.65%**
Mar-02	3-Mar-2002	67.54	-7.54	17.46	32.46	4.2		4.24	0.00	0%		4.24	4.24	100%		4.24	4.24	100%	
	4-Mar-2002	67.55	-7.55	17.45	32.45	10.0		10	0.00	0%		10.00	10.00	100%		10.00	10.00	100%	
	5-Mar-2002	60.22	-0.22	24.78	39.78	6.6		6.55	0.00	0%		6.55	6.55	100%		6.55	6.55	100%	
	6-Mar-2002	59.47	0.53	25.53	40.53	6.6		6.55	0.53	8.14%		6.55	6.55	100%		6.55	6.55	100%	
	7-Mar-2002	57.92	2.08	27.08	42.08	6.6		6.55	2.08	31.77%		6.55	6.55	100%		6.55	6.55	100%	
	8-Mar-2002	56.20	3.80	28.80	43.80	3.8		3.82	3.80	99.46%		3.82	3.82	100%		3.82	3.82	100%	
	30-Mar-2002	59.92	0.08	25.08	40.08		28.5	28.53	0.08	0.27%		28.53	25.08	87.90%		28.53	28.53	100%	
	31-Mar-2002	53.21	6.79	31.79	46.79		32.4	32.39	6.79	20.96%	**13.47%**	32.39	31.79	98.15%	**96%**	32.39	32.39	100%	**100%**
Apr-02	1-Apr-2002	59.38	0.62	25.62	40.62		22.3	22.34	0.62	2.78%		22.34	22.34	100%		22.34	22.34	100%	
	2-Apr-2002	58.99	1.01	26.01	41.01		39.6	39.58	1.01	2.55%		39.58	26.01	65.71%		39.58	39.58	100%	
	3-Apr-2002	59.20	0.80	25.80	40.80		49.4	49.43	0.80	1.61%		49.43	25.80	52.19%		49.43	40.80	82.53%	
	4-Apr-2002	61.40	-1.40	23.60	38.60		24.0	23.98	0.00	0%		23.98	23.60	98.41%		23.98	23.98	100%	
	10-Apr-2002	66.20	-6.20	18.80	33.80		88.8	88.81	0.00	0%	**1.08%**	88.81	18.80	21.17%	**52.00%**	88.81	33.80	38.06%	**71.61%**
May-02	12-May-2002	66.52	-6.52	18.48	33.48		41.6	41.6	0.00	0%		41.60	18.48	44.42%		41.60	33.48	80.47%	
	13-May-2002	66.48	-6.48	18.52	33.52		38.3	38.3	0.00	0%		38.30	18.52	48.36%		38.30	33.52	87.52%	
	18-May-2002	68.87	-8.87	16.13	31.13		11.1	11.1	0.00	0%	**0%**	11.10	11.10	100%	**53%**	11.10	11.10	100%	**86%**
Jun-02	11-Jun-2002	48.99	11.01	36.01	51.01		66.9	66.9	11.01	16.46%		66.90	36.01	53.83%		66.90	51.01	76.25%	
	13-Jun-2002	45.45	14.55	39.55	54.55		30.2	30.2	14.55	48.19%	**26.33%**	30.20	30.20	100%	**68.19%**	30.20	30.20	100%	**84%**
Jul-02	15-Jul-2002	42.14	17.86	42.86	57.86		12.4	12.4	12.40	100%		12.40	12.40	100%		12.40	12.40	100%	
	16-Jul-2002	40.92	19.08	44.08	59.08		13.3	13.3	13.30	100%	**100%**	13.30	13.30	100%	**100%**	13.30	13.30	100%	**100%**
Sep-02	10-Sep-2002	40.83	19.17	44.17	59.17		5.34	5.34	5.34	100%		5.34	5.34	100%		5.34	5.34	100%	
	11-Sep-2002	40.23	19.77	44.77	59.77		8.88	8.88	8.88	100%		8.88	8.88	100%		8.88	8.88	100%	
	12-Sep-2002	40.74	19.26	44.26	59.26		8.88	8.88	8.88	100%		8.88	8.88	100%		8.88	8.88	100%	
	13-Sep-2002	41.59	18.41	43.41	58.41		7.99	7.99	7.99	100%		7.99	7.99	100%		7.99	7.99	100%	
	14-Sep-2002	42.37	17.64	42.64	57.64		15.10	15.1	15.10	100%		15.10	15.10	100%		15.10	15.10	100%	
	15-Sep-2002	40.60	19.40	44.40	59.40		6.22	6.22	6.22	100%		6.22	6.22	100%		6.22	6.22	100%	
	16-Sep-2002	40.82	19.18	44.18	59.18		4.97	4.97	4.97	100%		4.97	4.97	100%		4.97	4.97	100%	
	17-Sep-2002	39.17	20.83	45.83	60.83		7.75	7.75	7.75	100%		7.75	7.75	100%		7.75	7.75	100%	
	18-Sep-2002	39.03	20.97	45.97	60.97		8.18	8.18	8.18	100%		8.18	8.18	100%		8.18	8.18	100%	
	19-Sep-2002	39.42	20.58	45.58	60.58		6.46	6.46	6.46	100%		6.46	6.46	100%		6.46	6.46	100%	
	20-Sep-2002	54.15	5.85	30.85	45.85		9.81	9.81	5.85	59.64%		9.81	9.81	100%		9.81	9.81	100%	
	21-Sep-2002	53.69	6.31	31.31	46.31		7.69	7.69	6.31	82.01%		7.69	7.69	100%		7.69	7.69	100%	
	22-Sep-2002	40.81	19.19	44.19	59.19		7.69	7.69	7.69	100%		7.69	7.69	100%		7.69	7.69	100%	
	23-Sep-2002	41.35	18.65	43.65	58.65		8.82	8.82	8.82	100%		8.82	8.82	100%		8.82	8.82	100%	
	24-Sep-2002	42.40	17.60	42.60	57.60		6.67	6.67	6.67	100%		6.67	6.67	100%		6.67	6.67	100%	
	25-Sep-2002	40.32	19.68	44.68	59.68	8.5	13.33	21.83	19.68	90.16%		21.83	21.83	100%		21.83	21.83	100%	
	26-Sep-2002	40.98	19.02	44.02	59.02		5.17	5.17	5.17	100%	**94.92%**	5.17	5.17	100%	**100%**	5.17	5.17	100%	**100%**
Oct-02	2-Oct-2002	41.74	18.26	43.26	58.26		7.9	7.88	7.88	100%	**100%**	7.88	7.88	100%	**100%**	7.88	7.88	100%	**100%**
Nov-02	12-Nov-2002	51.92	8.08	33.08	48.08		29.7	29.73	8.08	27.17%		29.73	29.73	100%		29.73	29.73	100%	
	13-Nov-2002	46.68	13.32	38.32	53.32		8.1	8.13	8.13	100%	**42.81%**	8.13	8.13	100%	**100%**	8.13	8.13	100%	**100%**
	Average:	**50.20**						**22.07**	**6.63**			**22.07**	**15.88**			**22.07**	**18.78**		
	2002 Sum:							**1059.26**											
									2002 Average =		**30.04%**				**71.96%**				**85.11%**

Month	Date	WPCP Plant Influent Flow (MG)	Remaining Capacity (@ 60 MG)	Remaining Capacity (@ 85 MG)	Remaining Capacity (@ 100 MG)	Pond #1 Flow from CSO (MG)	Pond #2 Flow from CSO (MG)	Total Pond Discharge (@ 60MG)	Potential Amount Recycled (@ 60 MG)	Potential % Recycled to Plant (@ 60MG)	Monthly Amount Recycled (@ 60MG)	Total Pond Discharge (@ 85MG)	Potential Amount Recycled (@ 85 MG)	Potential % Recycled to Plant (@ 85MG)	Monthly Amount Recycled (@ 85MG)	Total Pond Discharge (@ 100MG)	Potential Amount Recycled (@ 100 MG)	Potential % Recycled to Plant (@ 100MG)	Monthly Amount Recycled (@ 100MG)
Mar-03	13-Mar-2003	60.36	-0.36	24.64	39.64		63.60	63.6	0.00	0.00%		63.60	24.64	38.74%		63.60	39.64	62.33%	
	19-Mar-2003	59.10	0.90	25.90	40.90		16.450	16.45	0.90	5.49%		16.45	16.45	100.00%		16.45	16.45	100%	
	20-Mar-2003	59.42	0.58	25.58	40.58		73.970	73.97	0.58	0.79%		73.97	25.58	34.59%		73.97	40.58	54.87%	
	24-Mar-2003	59.05	0.95	25.95	40.95		86.620	86.62	0.95	1.10%		86.62	25.95	29.96%		86.62	40.95	47.28%	
	25-Mar-2003	59.88	0.12	25.12	40.12		4.490	4.49	0.12	2.58%		4.49	4.49	100.00%		4.49	4.49	100%	
	26-Mar-2003	57.79	2.21	27.21	42.21		23.920	23.92	2.21	9.22%		23.92	23.92	100.00%		23.92	23.92	100%	
	27-Mar-2003	57.25	2.75	27.75	42.75		8.330	8.33	2.75	33.06%		8.33	8.33	100.00%		8.33	8.33	100%	
	28-Mar-2003	55.37	4.63	29.63	44.63		30.420	30.42	4.63	15.21%		30.42	29.63	97.39%		30.42	30.42	100%	
	29-Mar-2003	59.06	0.94	25.94	40.94		24.000	24	0.94	3.93%		24.00	24.00	100.00%		24.00	24.00	100%	
	30-Mar-2003	58.38	1.62	26.62	41.62		4.110	4.11	1.62	39.41%		4.11	4.11	100.00%		4.11	4.11	100%	
	31-Mar-2003	56.68	3.32	28.32	43.32		15.560	15.56	3.32	21.36%	**5.13%**	15.56	15.56	100.00%	**57.66%**	15.56	15.56	100%	**54.05%**
Apr-03	5-Apr-2003	62.87	-2.87	22.13	37.13	1.000		1	0.00	0.00%		1.00	1.00	100.00%		1.00	1.00	100%	
	8-Apr-2003	64.75	-4.75	20.25	35.25		135.9	135.9	0.00	0.00%		135.90	20.25	14.90%		135.90	35.25	25.94%	
	30-Apr-2003	47.77	12.23	37.23	52.23		13.9	13.88	12.23	88.09%	**8.11%**	13.88	13.88	100.00%	**23.30%**	13.88	13.88	100%	**25.94%**
May-03	6-May-2003	62.75	-2.75	22.25	37.25		11.2	11.16	0.00	0.00%		11.16	11.16	100.00%		11.16	11.16	100%	
	7-May-2003	64.79	-4.79	20.21	35.21		136.9	136.93	0.00	0.00%		136.93	20.21	14.76%		136.93	35.21	25.71%	
	10-May-2003	62.81	-2.81	22.19	37.19		106.1	106.06	0.00	0.00%		106.06	22.19	20.92%		106.06	37.19	35.07%	
	11-May-2003	60.30	-0.30	24.70	39.70		63.2	63.2	0.00	0.00%		63.20	24.70	39.08%		63.20	39.70	62.82%	
	12-May-2003	61.14	-1.14	23.86	38.86		59.2	59.18	0.00	0.00%		59.18	23.86	40.31%		59.18	38.86	65.66%	
	13-May-2003	60.26	-0.26	24.74	39.74		101.3	101.31	0.00	0.00%		101.31	24.74	24.42%		101.31	39.74	39.23%	
	16-May-2003	63.08	-3.08	21.92	36.92		106.2	106.19	0.00	0.00%		106.19	21.92	20.64%		106.19	36.92	34.76%	
	17-May-2003	64.65	-4.65	20.35	35.35		5.2	5.19	0.00	0.00%		5.19	5.19	100.00%		5.19	5.19	100%	
	28-May-2003	49.69	10.31	35.31	50.31		18.38	18.38	10.31	56.08%		18.38	18.38	100.00%		18.38	18.38	100%	
	29-May-2003	48.66	11.34	36.34	51.34		15.6	15.56	11.34	72.87%		15.56	15.56	100.00%		15.56	15.56	100%	
	30-May-2003	49.49	10.51	35.51	50.51		6.7	6.69	6.69	100%	**4.50%**	6.69	6.69	100.00%	**30.90%**	6.69	6.69	100%	**39.73%**
Jun-03	23-Jun-2003	42.52	17.48	42.48	57.48		24.5	24.5	17.48	71.35%		24.50	24.50	100.00%		24.50	24.50	100%	
	25-Jun-2003	40.45	19.55	44.55	59.55		18.4	18.43	18.43	100%	**83.65%**	18.43	18.43	100.00%	**100.00%**	18.43	18.43	100%	**-**
Jul-03	7-Jul-2003	59.76	0.24	25.24	40.24		67.1	67.13	0.24	0.36%		67.13	25.24	37.60%		67.13	40.24	59.95%	
	8-Jul-2003	58.44	1.56	26.56	41.56		83.1	83.1	1.56	1.87%		83.10	26.56	31.96%		83.10	41.56	50.01%	
	9-Jul-2003	58.45	1.55	26.55	41.55		90.9	90.89	1.55	1.71%		90.89	26.55	29.22%		90.89	41.55	45.72%	
	10-Jul-2003	56.04	3.96	28.96	43.96		109.1	109.13	3.96	3.63%		109.13	28.96	26.54%		109.13	43.96	40.28%	
	11-Jul-2003	55.40	4.60	29.60	44.60		117.5	117.46	4.60	3.92%		117.46	29.60	25.20%		117.46	44.60	37.97%	
	12-Jul-2003	56.33	3.67	28.67	43.67		101.1	101.08	3.67	3.64%		101.08	28.67	28.37%		101.08	43.67	43.21%	
	13-Jul-2003	57.30	2.70	27.70	42.70		74.3	74.29	2.70	3.63%		74.29	27.70	37.28%		74.29	42.70	57.47%	
	14-Jul-2003	53.92	6.08	31.08	46.08		35.4	35.41	6.08	17.18%		35.41	31.08	87.78%		35.41	35.41	100%	
	29-Jul-2003	62.66	-2.66	22.34	37.34		58.0	57.99	0.00	0.00%		57.99	22.34	38.52%		57.99	37.34	64.38%	
	30-Jul-2003	58.11	1.89	26.89	41.89		45.8	45.83	1.89	4.12%		45.83	26.89	58.67%		45.83	41.89	91.40%	
	31-Jul-2003	58.27	1.73	26.73	41.73		17.6	17.63	1.73	9.82%	**3.50%**	17.63	17.63	100.00%	**36.41%**	17.63	17.63	100%	**50.54%**
Aug-03	8-Aug-2003	60.44	-0.44	24.56	39.56		62.0	61.99	0.00	0.00%		61.99	24.56	39.62%		61.99	39.56	63.82%	
	9-Aug-2003	62.35	-2.35	22.65	37.65		29.5	29.53	0.00	0.00%		29.53	22.65	76.70%		29.53	29.53	100%	
	10-Aug-2003	57.44	2.56	27.56	42.56		22.1	22.12	2.56	11.58%		22.12	22.12	100.00%		22.12	22.12	100%	
	19-Aug-2003	46.66	13.34	38.34	53.34		21.9	21.88	13.34	60.96%		21.88	21.88	100.00%		21.88	21.88	100%	
	20-Aug-2003	48.36	11.64	36.64	51.64		18.2	18.21	11.64	63.95%	**17.92%**	18.21	18.21	100.00%	**71.18%**	18.21	18.21	100%	**64%**
Sep-03	2-Sep-2003	61.21	-1.21	23.79	38.79		120.2	120.15	0.00	0.00%		120.15	23.79	19.80%		120.15	38.79	32.28%	
	16-Sep-2003	54.96	5.04	30.04	45.04		17.5	17.45	5.04	28.88%		17.45	17.45	100.00%		17.45	17.45	100%	
	17-Sep-2003	48.80	11.20	36.20	51.20		12.1	12.14	11.20	92.29%		12.14	12.14	100.00%		12.14	12.14	100%	
	18-Sep-2003	47.75	12.25	37.25	52.25		10.5	10.54	10.54	100%	**16.71%**	10.54	10.54	100.00%	**39.88%**	10.54	10.54	100%	**32.28%**
Oct-03	9-Oct-2003	46.80	13.20	38.20	53.20		19.3	19.28	13.20	68.49%		19.28	19.28	100.00%		19.28	19.28	100%	
	10-Oct-2003	46.64	13.36	38.36	53.36		18.7	18.7	13.36	71.45%		18.70	18.70	100.00%		18.70	18.70	100%	
	13-Oct-2003	44.53	15.47	40.47	55.47		43.2	43.24	15.47	35.77%	**51.75%**	43.24	40.47	93.59%	**97%**	43.24	43.24	100%	**100%**
Dec-03	23-Dec-2003	60.21	-0.21	24.79	39.79		107.5	107.5	0.00	0.00%		107.50	24.79	23.06%		107.50	39.79	37.01%	
	26-Dec-2003	60.92	-0.92	24.08	39.08		39.1	39.1	0.00	0.00%	**-**	39.10	24.08	61.59%	**33.34%**	39.10	39.08	100%	**37.01%**
	Average:	**56.35**						**48.40**	**4.21**			**48.40**	**20.52**			**48.40**	**27.44**		
	2003 Sum:							**2516.80**											
									2003 Average =		**8.70%**				**42.40%**				**56.70%**

ATTACHMENT 6

CSO Bleedback Facility Control Strategy

Operational Strategy

CSO Pond No. 1 and No. 2 Bleedback
Fort Wayne, Indiana
11108

Description

The purpose of the CSO Pond Bleedback is to send the CSO back to the WWTP for treatment.

Control

Remote – With both CSO Pond No. 1 and No.2 Bleedback sluice gate actuator Local/Off/Remote Handswitches in Remote, the following control options are available from the Control Station.

Auto Start Cycle – Initiation of the cycle would be based on the Wayne St. Interceptor level. When the Wayne St. Interceptor level lowers to a certain level for a certain amount of time, then the process of CSO bleedback would initiate. CSO Pond No. 1 Bleedback Gate would slowly open. The amount of flow to be bledback would be based on the Wayne St. Interceptor level; the lower the level the more flow would be bledback. Then when the flow from Pond No. 1 slows, the gate closes and the CSO Pond No. 2 Bleedback Gate would open. Flow continues to be based on the Wayne St. Interceptor level. When the flow of Pond No. 2 slows, the CSO Pond No. 1 Bleedback Gate opens. The gates would remain open until the flow slows, then both gates would close. The action is complete.

Manual Start Cycle – In Manual Start Cycle, two options are available at the HMI. The initiation of the process would be by the operator.

Flow Based on Wayne St. Interceptor Level – The CSO Pond No. 1 Bleedback Gate would slowly open. The amount of flow to be Bledback would be based on the interceptor level; the lower the interceptor level the more flow would be Bledback. Then when the flow from Pond No. 1 slows, the gate shuts and the CSO Pond No. 2 Bleedback Gate would open. Flow continues to be based on the Wayne St. Interceptor Level. When the flow of Pond No. 2 slows, the CSO Pond No. 1 Bleedback Gate opens. The gates would remain open until the flow slows, then both gates would close. The action is complete.

Flow Based on Operator Set Point – The CSO Pond No. 1 Bleedback Gate would slowly open. The amount of flow to be Bledback would be based on the operator-set point. Then when the flow from Pond No. 1 slows, the gate shuts and the CSO Pond No. 2 Bleedback Gate would open. Flow continues to be based on the Wayne St. Interceptor Level. When the flow of Pond No. 2 slows, the CSO Pond No. 1 Bleedback Gate opens. The gates would remain open until the flow slows, then both gates would close. The action is complete.

Interlocks

- Wayne St. Interceptor shall be below a certain level for a certain amount of time.
- Influent flowmeter flow rate (bleedback shall not create plant to become overloaded).
- High level in 54-inch Sanitary Sewer Manhole.

Manual – With the Manual/Auto selector (one per sluice gate) in Manual, the following control options are available from the HMI.

Open – This selection will open the respective gate.
Close – This selection will close the respective gate.

Monitoring

- High level in 54-inch Sanitary Sewer Manhole.
- Flow rate for calculation purposes.
- CSO Pond sample for calculation purposes.
- Fail

EXHIBIT B-6

Project List
Sites Where Weirs Were Raised By WPC Maintenance
9/07

As Recommended by CSO OP Plan Inline Storage Assessment Study

Permit #	Location	Dated Raised	Data	# Overflows	
62	**State & Laverne**	2/23/05	3/04 – 3/05	54	Before
			4/05 – 4/06	38	After
			5/06 – 5/07	47	After
17	**Wildmere**	6/29/05	6/04 – 6/05	69	Before
			7/05 – 7/06	64	After
			8/06 – 8/07	63	After
68	**Glazier**	6/05	6/04 – 6/05	17	Before
			7/05 – 7/06	12	After
			8/06 – 8/07	13	After
36	**Westbrook**	6/29/05	6/04 – 6/05	10	Before
			7/05 – 7/06	11	After
			8/06 – 8/07	16	After
05	**Foster Park**	6/05	6/04 – 6/05	97	Before
			7/05 – 7/06	77	After
			8/06 – 8/07	63	After
39	**Hanna & Wayne**	2/22/05	No Overflows		

EXHIBIT B-7

3.0 REVIEW AND MODIFICIATION OF PRETREATMENT REQUIREMENTS

The third minimum control requires the review and modification as appropriate of the pretreatment requirements to ensure that CSO impacts are minimized.

3.1 OVERVIEW

The City's NPDES permit requires the Significant Industrial Users (SIUs) within the City's CSS service area to monitor their discharge for pollutants of interest as identified in the City's Sewer Use Ordinance. The City's pretreatment program is described in Exhibit C-1. A copy of the latest Enforcement Response Plan is in Exhibit C-2. A copy of the City Municipal Code section that covers pretreatment is in Exhibit C-3.

The City operates a CSS with CSOs and its WPCP. The CSS has regulators that direct dry-weather flows from the combined trunk sewers to interceptor sewers which transport the flows to the WPCP for treatment. During periods of wet weather, the regulators control the amount of combined sewage that is allowed to enter the interceptor system. Excess flows are conveyed to the St. Joseph, St. Mary's, and Maumee Rivers and tributary creeks and ditches through CSO outfalls. These CSO outfalls, combined with the WPCP outfall and the outfalls from the CSO ponds, comprise all of the outfalls in the City's system.

As of 2006, eight percent of the WPCP treatment process flow were contributed by the SIUs in the service area. Two-thirds of the SIUs were subject to categorical pretreatment standards. The remaining third met the definition found at 40 CFR 403.3 (t)(1)(ii). The City's Industrial Pretreatment Program establishes the monitoring and enforcement program through which these SIUs are examined for discharge limitation exceedences.

3.2 SIU IMPACT EVALUATION

To ensure implementation of this NMC, the City conducted an SIU Impact Evaluation, a copy of which is attached as Exhibit C-4. The evaluation included the steps described below.

3.2.1 Identification of Pollutants of Interest

- The first step in identifying the pollutants of interest is to analyze the rivers flowing through the City: Are there pollutant readings exceeding the limitation values set by the Indiana Department of Environmental Management (IDEM) thus affecting the rivers' water quality?

    - The sampling data collected by IDEM and City staff should be compared to the "IDEM Indiana Environmental Rules: Water –

2002 Edition" and the "Criteria and Values for Selected Substances Calculated using the Great Lakes Basin Methodologies" documents. These documents contain the water quality standards which apply to the surface waters in the City. These standards are the concentration of substances which if not exceeded, should protect aquatic life, human health, and wildlife from adverse affects; either from short term exposure or long term exposure.

- Based on past studies and reports, it may be anticipated that the sampling data collected for evaluation will show that metals are a problem in the rivers. Since metals are discharged primarily from industries, and not typically residential entities, this evaluation would then link the pollutant of interest to the corresponding SIUs discharging that pollutant into the CSS. During wet weather events, the combined sewers overflow the sewage, unable to be carried to the WPCP due to limited sewer capacity, into the City's rivers.

- The second step in identifying the pollutants of interest is to analyze the City's WPCP influent: Are there pollutant readings which are above the daily maximum influent indicator values set by the WPCP's NPDES permit indicating industrial non-compliance?

  - The sampling data collected by WPCP staff should be compared to the WPCP NPDES permit's daily maximum influent indicator values. These daily maximum influent indicator values are not limitations but provide the municipality an indication of industrial non-compliance. Influent values are calculated from the sewer ordinance limitations. An influent value may be more stringent than its corresponding effluent limitation. This occurs because the ordinance limitation is based on protecting sewage plant processes or the quality of municipal sludge while the effluent limitation is based on protecting the water quality of the receiving stream.

- Once pollutants of interest are identified, an evaluation of the SIU discharge reports can be completed: Which SIUs have pollutant of interest readings exceeding the limitations set in the individual SIU Industrial Wastewater Discharge Permits or the City's Sewer Ordinance?

  - The sampling data collected in the Fort Wayne SIU monitoring reports should be compared to the respective SIU industrial wastewater discharge permits. If tests are reported for additional pollutants not listed on the respective SIU industrial

wastewater discharge permit, they should be compared to the pollutant limitations set in the City's Sewer Ordinance.

3.2.2 Identification of SIUs and How Each is Connected to the Combined Sewer System

- A list of SIUs operating in the City area may be attained through the City's Utility Office. Additional SIU documents to be utilized are the SIU Industrial Wastewater Discharge Permits and SIU site consumption (water flow) information reports.

- The SIUs should be identified on city-wide and sewer subbasin mapping and linked to any regulators their flow passes through. These regulators are potential points of sewer overflow during wet weather events.

3.2.3 Determination of Potential Impact to Water Quality in Receiving Waters due to SIUs Discharging into the Sewer System

- Once pollutants of interest are identified, the annual flows and pollutant loads may be estimated. A mass balance spreadsheet should then be prepared for the CSS which estimates the annual volume and SIU pollutant loadings of interest discharged from each CSO of interest.

- The impact on the receiving stream's water quality can be characterized by stream dilution analysis based on estimated annual CSO discharges, available stream flow values and water quality data.

3.2.4 Estimate Benefits Associated with Ordinance Modification and/or More Effective Enforcement (Reduction of Pollutants of Interest Discharging From CSOs) and Compare to Estimated Costs

- Based on pollutants of interest found to have a significant impact, identification of potential ordinance modifications and/or needed enforcement of existing ordinances can be proposed. This can result in the reduction of CSO pollutants of interest and thus improve the water quality of the receiving streams.

- The mass balance spreadsheet can then be revised based on the implementation of the proposed ordinance modifications and/or more effective enforcement of existing conditions. In order to estimate benefits, recharacterize the impact on stream water quality based on revised mass balance spreadsheet values.

- The City's Industrial Pretreatment Program contains language concerning the enforcement and monitoring program which requires self-monitoring and reporting by all SIUs. Compliance monitoring samples are collected from all SIUs. These samples are composites and grabs taken of the discharge effluent at a point determined by the City to provide representative samples. Should any parameters tested show non-compliance with permitted limits; the procedures outlined in the Enforcement Response Plan are followed.

- The City's Sewer Ordinance contains language concerning the liability for and computation of strength-of-waste surcharges. An annual review of service charges and surcharges and revisions of charges and rates is performed. Total annual services charges and surcharges collected from each individual user class shall be deemed sufficient if said charges have generated during the prior operating period sufficient revenue to offset the cost of all treatment works operation and maintenance provided by the utility incidental to the utility operation attributable to such class.

3.2.5 Recommended Modifications or Justification of no Changes for Pretreatment Program

- Based on cost to benefit analysis, prepare recommendations for modifications to, more effective enforcement of, or justification of no changes to pretreatment ordinance and enforcement.

3.3 SIU IMPACT EVALUATION RESULTS

The results of the SIU Impact Evaluation are reported at Exhibit C-4.

3.4 RECORDKEEPING

The City's listing of its SIUs and maps will be updated. River, WPCP influent, and SIU discharge sampling records will be periodically reviewed to access significantly changed conditions. If significant changes have occurred, steps 3, 4, and 5 of the SIU Impact Evaluation will be redone and the changes will be documented at Exhibit C-5.

DIRECTORY FOR APPENDIX C
(Items Presented in Order of Appearance in Appendix C)

Item	Description
Exhibit C-1	INDUSTRIAL PRETREATMENT PROGRAM
Exhibit C-2	ENFORCEMENT RESPONSE PLAN
Exhibit C-3	CODE OF ORDINANCES: CHAPTER 51 SEWERS
Exhibit C-4	FINDINGS REPORT

EXHIBIT C-1

FORT WAYNE CITY UTILITIES

INDUSTRIAL PRETREATMENT PROGRAM

General Description

Fort Wayne is the largest residential and industrial community in northeastern Indiana and operates a 60 MGD activated sludge wastewater treatment plant having advanced waste treatment. The POTW is a regional plant serving Fort Wayne, New Haven, Leo-Cedarville, Grabill, Huntertown, Zanesville, and the Allen County Regional Water and Sewer District.

The original plant was built in 1940 and has had updates completed in 1959, 1971, and 1978. Combined sewer overflow facilities were added in 1972 and advanced waste treatment in 1983. Combined sewer overflow and infiltration/inflow studies were carried out during the 1970s and the City has had ongoing programs of sewer renovation, separation, and extension.

The POTW currently treats, on average, 48 MGD of which 7.5 MGD is contributed by 33 significant industries in the service area. Of these, 20 industries are subject to categorical pretreatment standards. The remaining 13 significant industries meet the definition found at 40 CFR 403.3 (t) (1) (ii).

During the mid-1950s, phenolic compounds from the wire drawing industry were a major problem, as well as metals and cyanides from the electroplating industry. Operational problems at the POTW related to industrial discharges have been minimal since the advent of industrial monitoring in the early 1970s. The City now enforces its sewer use ordinance with much success to continually reduce pollutants entering the system.

Program Development

The City of Fort Wayne has had a sewer use ordinance and an industrial surveillance program since the early 1970s to protect the biological processes of the treatment plant and the quality of its discharges.

The City's NPDES permit was modified in 1979 requiring the City to develop a pretreatment program. Activities 1, 2, 3, and 4a were submitted on July 27, 1979. The remainder of Activities 4 and 5 were submitted on October 30, 1979. The program was approved and incorporated into the NPDES permit in 1986.

Evaluation of Legal Authority

In the opinion of the City Attorney, the City of Fort Wayne has adequate powers as delegated by the provisions of Chapter 51 of the Municipal Code to enforce the pretreatment program as prescribed in 40 CFR 403.8(f)(1).

Development of Monitoring/Enforcement Program

The monitoring and enforcement program has been in effect for several years. In the early 1970s the program consisted of industrial monitoring and enforcement on the large industrial accounts. During the mid-1970s, additional personnel were added and additional industrial accounts were monitored along with a number of commercial accounts.

The initial monitoring and enforcement program met the requirements specified in 40 CFR 403 when it was promulgated in 1977. Today's program meets or exceeds the guidelines outlined in this regulation.

Program Implementation

Personnel

The Industrial Pretreatment Section (IPS) currently consists of three fulltime staff. The Supervisor of Water Quality is charged with overall program administration. This includes supervision of the field crew, issuing Industrial Wastewater Discharge permits, reviewing self-monitoring and compliance reports, issuing non-compliance orders and notices of violation, calling hearings, and issuing court summons.

The Industrial Pretreatment Coordinator and Industrial Pretreatment Inspector are the remainder of the fulltime pretreatment staff. The Pretreatment Coordinator and Inspector report to the Supervisor of Water Quality and are responsible for the collection of samples, reviewing of industry reports, data tracking, and facility inspections.

The POTW laboratory consists of four chemists and performs most of the analytical work required by the pretreatment program in accordance with methods specified in 40 CFR 136. The laboratory is a self-managed team reporting to the plant superintendent.

Ordinance

Chapter 51 of the Fort Wayne Municipal Code contains our sewer use ordinance and was developed to control discharges to the municipal sewer system. The ordinance is designed to protect the POTW from harmful discharges of toxic materials which: (a) will interfere with the operation of the POTW, including beneficial use of biosolids, or (b) will pass through the POTW into the receiving stream.

Procedures

To ensure that the industrial survey remains updated, IPS participates in the review process for the issuance of building construction permits, receives notification of new or changed industrial and commercial accounts from the City's billing information system manager, and participates with the local Chamber of Commerce.

IPS regularly reviews the Federal Register and scrutinizes the publication for any changes in the regulations pertaining to pretreatment, solid waste disposal, and hazardous waste. When changes are found or new regulations are promulgated, affected industries are notified of the changes. In the event of the promulgation of a new categorical standard, affected industries are notified to submit a Baseline Monitoring Report.

The City has a vigorous enforcement and monitoring program which requires self-monitoring and reporting by all significant industrial users (SIUs) as outlined in 40 CFR 403.12. Should an industry be required to install, modify, or up-grade its pretreatment facilities, they are required to submit all plans and specifications for review and approval prior to construction.

Compliance monitoring samples are collected from all SIUs as required under 40 CFR 403.8 (f) (2) (v). These samples are composites and grabs taken of the discharge effluent at a point determined by the City to provide representative samples. Should any parameters tested show non-compliance with permitted limits, the procedures outlined in the Enforcement Response Plan are followed. Failure to comply with any order of non-compliance or a notice of violation results in escalated enforcement per the Enforcement Response Plan.

Annual physical inspections are made at each SIU to check operating records, ensure proper operation of pretreatment facilities, and to verify that the information provided by the user is accurate.

All records of analytical data, compliance schedules, required reports, orders of non-compliance, and court actions are kept in the IPS office and are retained for a minimum of 3 years. These records are open to review by representatives of the USEPA or the IDEM at all times. Public access to the records contained in user files may be obtained through Freedom of Information Act requests but will not include access to any information meeting the definition of confidential under 40 CFR 2.

IPS publishes legal notices in the daily local newspapers to comply with the requirement to publish the list of SIUs that were determined to be in significant non-compliance during the prior 12-month reporting period.

EXHIBIT C-2

FORT WAYNE CITY UTILITIES
INDUSTRIAL PRETREATMENT SECTION
ENFORCEMENT RESPONSE PLAN

Enforcement Response Procedures

The following shows the enforcement response procedures that are used by Fort Wayne City Utilities.

1. Data Collection

   This process involves the collection of all available information from inspections, monitoring, plant upsets, private complaints, and from the Industrial User. All data gathered shall become a part of the industrial users permanent file and is kept for a period of not less than three years.

2. Compliance Screening

   The processes of reviewing all available information and monitoring data to sort out instances of noncompliance for appropriate enforcement response. This review will assess, as appropriate, compliance with required schedules, reporting requirements, discharge violations, etc.

3. Emergency Response

   If evaluation of the data reveals that an emergency condition exists, City Utilities will take whatever means appropriate to bring the violator into compliance.

4. Enforcement Evaluation for Noncompliance

   The violations and conditions identified during the screening process are reviewed to make a determination of the type of enforcement necessary to bring the Industrial User into compliance. This process is accomplished using the criteria outlined in the attached Enforcement Response Guide.

5. Noncompliance

   This process consists of notifying the industrial user that noncompliance has been detected and that corrective action is required. City Utilities will evaluate the industrial user's response and make a determination of whether the Industrial User has returned to compliance. If compliance is not achieved the incident is evaluated for further enforcement action.

6. Significant Noncompliance

This process consists of notifying the industrial user that an instance of significant noncompliance, as defined in 40CFR403.8(f)(2)(vii), has been detected and that remedial action and response on the part of the Industrial User are required. City Utilities will then evaluate the response of the Industrial User and determine whether the Industrial User has returned to compliance. If compliance is not achieved, City Utilities will initiate formal enforcement action. In any instance of significant noncompliance, City Utilities will publish the instance as required in 40CFR403.8.

7. Formal Actions

a. Administrative Order (AO)

Administrative orders are enforcement documents issued to direct noncompliant industrial users to undertake or cease specified activities in order to return to compliance.
An Administrative order is the formal action taken by City Utilities and is issued when other, less formal, attempts to bring the Industrial User into compliance have failed or when the nature of the violation requires stricter enforcement.
Administrative orders can be issued in one or more of the following types:

1. Cease and Desist Order

2. Agreed Orders

3. Show Cause Order

4. Compliance Orders

b. Administrative Hearings

Conducted before the Board of Public Works when initiated by City Utilities to obtain administrative fines.

c. Civil Litigation

Civil litigation is the formal process of filing lawsuits against industrial users to secure court ordered action to correct violations and/or secure penalties for violations, including the recovery of costs to the POTW.
Civil litigation shall be pursued by City Utilities when the penalty to be assessed is greater than allowed for administratively or when the Industrial User is recalcitrant or unwilling to cooperate.

d. Termination of Service

When all other attempts to bring an Industrial User into compliance have failed, or when the nature of the violation is such that it endangers the operations of the POTW, the health and welfare of City personnel or the citizens of the City or adversely impacts the environment City Utilities shall have the right to terminate service to said user.

Termination of service may be accomplished in one or more of the following ways:

1. Issue AO compelling IU to cease discharge.

2. Terminate water service to the facility.

3. Physically sever sewer connection (plug).

The following categories of noncompliance of Industrial Users shall, in every instance, be subject to enforcement procedures by Fort Wayne City Utilities.

1. Failure to timely submit required reports (BMR, DMR, CMR, etc.).

2. Failure to meet interim or final compliance schedule dates.

3. Violations of maximum or average pollutant limitations for industry specific categories (Federal Categorical Standards).

4. Violations of prohibited discharges under National Pretreatment Standards (40CFR403.5)

5. Violations of local limits as outlined in Chapter 51 of the Fort Wayne Code of Laws and the Rules and Regulations pertaining thereto, as amended.

6. Violations of permit conditions or limitations.

7. Falsification of information submitted to the City.

8. Treatment plant upsets and/or interference traced to an industrial user.

9. Violations detected during site visits and inspections.

10. Discharge of industrial wastes without prior approval, and/or a valid Industrial Wastewater Discharge Permit.

Responsibilities of City Utilities Personnel

The following shows the City Utilities personnel involved in the enforcement process as well as their responsibilities.

1. Industrial Pretreatment Inspector

The Industrial Pretreatment Inspector is a member of City Utilities' field team as well as a link in the enforcement chain between industry and City Utilities. The primary duties of the Inspector are as follows:

a. Confers with industrial and commercial management and provides information pertaining to pretreatment.

b. Conducts on site inspections and audits of industrial and commercial users subject to the pretreatment program.

c. Evaluates information submitted by users.

d. Recommends modifications and revisions to wastewater discharge permits.

e. Collects data and information required to write reports and legal notices.

f. Collects sewage samples of industrial and commercial discharges.

g. Investigates and writes reports on chemical and oil spills.

h. Writes weekly sampling schedule.

i. Maintains files, records, reports, and drawings necessary to perform duties.

2. Industrial Pretreatment Coordinator

The Industrial Pretreatment Coordinator acts as a liaison between the field team and the Supervisor of Water Quality. The primary responsibilities of the Coordinator are as follows:

a. Confers with industrial and commercial management and provides information pertaining to pretreatment.

b. Conducts on site inspections and audits of industrial and commercial users subject to the pretreatment program.

c. Evaluates information and data submitted by industrial users.

d. Prepares modifications and revisions to wastewater discharge permits.

e. Assists in writing reports and legal notices.

f. Collects sewage samples of industrial and commercial discharges.

g. Investigates and writes reports on chemical and oil spills.

h. Approves weekly sampling schedule.

i. Maintains files, records, reports and drawings necessary to perform duties.

j. Writes quarterly and annual report on noncompliance for submittal to IDEM and EPA.

k. Recommends compliance steps for noncompliant industrial users.

l. Reviews drawings and specifications submitted by applicants for new permits.

3. Supervisor of Water Quality

The Supervisor of Water Quality acts as a coordinator in implementing City Utilities pretreatment program requirements. The primary responsibilities of the Supervisor include all of those previously listed for other personnel as well as the following:

a. Issues Notice of Violation to industrial users.

b. Recommends enforcement escalation to Utility Director.

c. Recommend changes to the sewer use ordinance.

d. Issues permits to industrial users.

e. Publishes annual listing of industries in significant noncompliance.

4. Director of Utilities

The Director of Utilities has the responsibility to ensure compliance with the City's NPDES permit as well as enforcement of the City's Sewer Use Ordinance, Rules and Regulations and the general and categorical pretreatment requirements set forth by the EPA. The responsibilities of the Director include those previously listed as well as the following:

a. Issues Administrative Orders.

b. Represents the City Utility in Show Cause Hearings.

c. Initiate judicial proceedings.

d. Initiate termination of service.

5. Legal Counsel

The City's Legal Counsel advises technical and managerial personnel on enforcement matters, participates in administrative proceedings and orchestrates the judicial responses deemed necessary by the Superintendent.

Range of Enforcement Response

The following shows the range of enforcement response, in order of severity, utilized by Fort Wayne City Utilities.

1. Verbal Telephone Notice (VTN)
2. Notice of Warning (NOW)
3. Notice of Violation (NOV)
4. Administrative Fine (Fine)
5. Administrative Order (AO)
    a. Cease and Desist Order
    b. Compliance Order
    c. Agreed Order
    d. Show Cause Order
6. Civil Litigation (Civil)
    a. Consent Decree
    b. Civil Penalty
7. Termination of Service

This range of responses has been developed for guidance and is not intended to create legal rights or obligations, or to limit the enforcement discretion of the City of Fort Wayne, Indiana.

Fort Wayne City Utilities
Industrial Pretreatment Section
Enforcement Response Guide

This guide was developed for use by City Utilities officials who are responsible for determining the appropriate response to a specific violation or violations of local, state and federal pretreatment requirements and related sections of the Clean Water Act. The guide is intended to serve two main purposes:

1. The guide covers enforcement responses that may be appropriate in relation to the nature and severity of the violation(s) and overall degree of noncompliance.

2. It provides a guide to encourage uniform application of enforcement responses to comparable levels and types of violations, as well as a mechanism to review the appropriateness of responses by City officials.

The guide outlines how City Utilities determines which responses are appropriate, identifies personnel who should initiate these responses, and discusses the time frames for taking such actions.

The enforcement response guide allows City Utilities to select from several initial and follow-up actions. City Utilities may initially rely on actions such as NOV's, NOW's, or VTN's where violations are minor or when the Industrial User is cooperative in resolving problems. However, when the violation is significant or when the industrial user does not promptly undertake corrective action, City Utilities must respond with more severe enforcement action up to and including civil proceedings and penalties. Similarly, when the user fails to return to compliance following the initial enforcement response, City Utilities must escalate its enforcement response with a more stringent action.

City Utilities officials should also evaluate appropriate enforcement responses in the context of the user's prior history of violations. For example, if a user continues its minor noncompliance despite enforcement measures (i.e. repeated issuance of NOV's) City Utilities should adopt a more stringent approach. Similarly, if the user has committed several types of violations the response should address <u>each</u> violation. If City Utilities seeks remedies for only the most serious violation, the less significant violations could inadvertently escape enforcement. It should also be noted that, since pretreatment compliance is a matter of strict liability, the knowledge, intent, or negligence of the user should not be taken into consideration except when deciding to refer the matter to the appropriate State or Federal official for criminal prosecution.

The enforcement response selected must also be appropriate to the violation. This determination is often a matter of common sense. For example, while telephone calls may be appropriate responses for reports that are one or two days late, treatment plant upsets merit an immediate and stringent response. The following criteria should be considered when determining a proper response:

1. Magnitude of the violation.
2. Duration of the violation.
3. Effect of the violation on receiving waters.
4. Effect of the violation on the collection system and plant.
5. Compliance history of the industrial user.
6. "Good Faith" of the Industrial User.

These six criteria are discussed in detail below.

1. Magnitude of the Violation

Generally, an isolated instance of noncompliance can be met with an informal response or a NOV. However, since even an isolated violation could threaten public health and the environment, damage public and/or private property, or threaten the integrity of the pretreatment program (e.g. falsifying a self monitoring report) it is recommended that the responses to any "significant noncompliance" include an enforceable order that requires a return to compliance by a specific deadline.

2. Duration of the Violation

Violations, regardless of the severity, which continue over a prolonged period, should subject the Industrial User to escalated enforcement actions. For example, an effluent violation that occurs in two out of three samples over a six-month period or a report that is more than 30 days overdue is considered significant, while a report that is two days late is not.

The response to these situations must be tailored to prevent extended periods of noncompliance from recurring, such as the issuance of administrative orders. If the Industrial User fails to comply with the AO, the assessment of administrative fines or judicial action should be pursued. If the prolonged violation results in serious harm to the POTW, termination of service should be considered as well as attempting to recover the cost of repairing any damage.

3. Effect on the Receiving Waters

One of the primary objectives of the pretreatment program is to prevent pollutants from passing through the POTW and entering the receiving stream. Consequently, any violation that results in environmental harm should be dealt with severely. Environmental harm should be presumed whenever an industry discharges a pollutant into the sewage system that passes through the POTW, causes a violation of the POTW's NPDES permit, or has a toxic effect on the receiving waters.

At a minimum, responses to these circumstances should include administrative orders or administrative fines as well as recovery of any NPDES fines incurred by the City.

4. Effect on the Collection System and WPC Plant

Some violations may have a negative impact on the POTW itself. For example, they may result in significant increases in treatment costs, harm City personnel or equipment, or cause sludge contamination resulting in increased disposal cost. These violations should be met with an order to correct the violation in addition to the recovery of additional costs and expenses to the POTW (e.g. damage to the collection system, tracing a spill back to the source, etc.).

5. Compliance History of the User

A pattern of recurring violations (e.g. "jumping" in and out of compliance), even of different program requirements, may indicate that the user's treatment system is inadequate or that the user has taken a "casual" approach to maintaining compliance. These indications should be a signal that future significant noncompliance may be likely. Accordingly, users exhibiting recurring compliance problems should be dealt with more strongly to ensure consistent compliance is achieved. Compliance history is an important factor in determining which of the range of responses would be appropriate for a particular violation. For example, if the violator has a good compliance history a less severe action should be taken.

6. "Good Faith" of the User

The users "Good Faith" in correcting its noncompliance is a factor in determining which enforcement action to invoke. "Good Faith" may be defined as the user's honest intention to remedy its noncompliance along with actions taken which lend support to this intention. Good Faith is typically demonstrated by cooperation and completion of corrective actions in a timely fashion, although compliance with previous enforcement orders is not necessarily evidence of Good Faith in a current situation.

In order for an enforcement action to be effective, it must be timely. For an action to be timely, the violation must be detected and responded to promptly after its occurrence. Therefore, review of compliance reports for both effluent violations and timeliness should be a high priority at the time of their submission. Generally, industrial user reports should be reviewed and violations acted upon within five days of receipt, and violations observed by field personnel should receive even swifter attention.

No more than 30 days should be allowed to pass between the detection of a violation(s) and the initial enforcement response. For example, Reports not received by the due date should be indicated by an informal warning or NOV within one or two days, whereas actions requiring the involvement of the attorney may require more time for the filing of legal documents.

Abbreviations and Acronyms used in E.R.G.

AO	Administrative Order
Board	Board of Public Works
BMR	Baseline Monitoring Report
Civil	Court action
D	Director of Fort Wayne City Utilities.
EPA	United States Environmental Protection Agency
Fine	Administrative fine
I	Industrial Pretreatment Inspector (Coordinator)
IU	Industrial User
IDEM	Indiana Department of Environmental Management
L	Legal Counsel
NOV	Notice of Violation
NOW	Notice of Warning
NPDES	National Pollutant Discharge Elimination System
POTW	Publicly Owned Treatment Works; the Fort Wayne Water Pollution Control Plant
SCH	Show cause hearing
SPCC	Spill Prevention, Control, and Countermeasure plan
SWQ	Supervisor of Water Quality
Term	Termination of service
TRC	Technical Review Criteria
VTN	Verbal Telephone Notice

Enforcement Response Guide

Unauthorized Discharges (No permit)

Noncompliance	Nature Of Violation	Responses	Personnel
Non-permitted Discharge	IU unaware of requirement; no harm to environment/POTW	VTN,NOV with BMR	SWQ
	IU unaware of requirement; harm to POTW	AO/fine Civil	SWQ D
	Failure to apply continues	Civil Terminate	D D
Un-permitted discharge (renewal)	IU has not submitted BMR within 30 days of due date	NOV AO/fine Civil Terminate	SWQ, D D D D, Board

Discharge Limit Violation

Exceedance of local or Federal Standard (permit limit)	Isolated, not significant	VTN, NOW	SWQ
	Isolated, significant (no harm)	NOV; AO SPCC	SWQ
	Isolated, harm to POTW/environment	SCH Civil	SWQ, D D
	Recurring, no harm to POTW/environment	AO/Fine	SWQ
	Recurring; significant (harm)	AO/Fine SCH Civil Terminate	SWQ SWQ, D D D, Board

Monitoring and Reporting Violations

Reporting violation	Report is improperly signed/certified	VTN,NOV	SWQ
	Report is improperly signed/certified after notice	AO SCH	SWQ SWQ,D
	Late report, not significant	VTN NOV	SWQ SWQ

Monitoring and Reporting Violations (cont.)

Noncompliance	Nature Of Violation	Response	Personnel
Reporting violation	Significant	NOV	SWQ
	Reports consistently late/no reports	AO/Fine SCH Civil	SWQ SWQ,D D
	Failure to report spill/changed discharge (no harm)	NOV	SWQ
	Failure to report spill/changed discharge (harm)	AO/Fine Civil	SWQ D
	Repeated failure to report spills	SCH Terminate	SWQ, D D, Board
Falsification	Deliberate	Criminal	D, A, Board
Failure to monitor correctly	Failure to monitor all pollutants required by permit	NOV	SWQ
	Recurring failure to monitor	AO Civil	SWQ D
Improper sampling	Unintentional	NOV	SWQ
	Intent evident	SCH	SWQ,D
	Recurring	Civil	D
Compliance schedule (AO)	Failure to file required reports not significant	NOV	SWQ
	Failure to file required reports significant	SCH	SWQ,D

Other Permit Violations

Dilution in lieu of treatment	Initial violation	AO	SWQ
	Recurring	SCH Civil	SWQ,D D

Other Permit Violations (cont.)

Noncompliance	Nature Of Violation	Response	Personnel
Failure to mitigate noncompliance or halt production	No harm	NOV	SWQ
Failure to mitigate noncompliance or halt production	Results in harm	AO/Fine Civil	SWQ D
Failure to properly operate pretreatment	No harm	NOV	SWQ
	Results in harm	AO/Fine Civil	D D
Violations detected during site visits			
Entry denial	Entry denied or consent withdrawn	Report	I
		Warrant and return	SWQ,D,A
Illegal discharge	No harm	AO/Fine	SWQ
	Harmful or evidence of intent	Civil	D
Recurring, violation of AO		Term	D, Board
Improper sampling	Unintentional sampling at incorrect location	NOV	SWQ
	Incorrect sample type, no intent	NOV	SWQ
	Incorrect sample technique, no intent	NOV	SWQ
Inadequate Record keeping	Files incomplete or missing, no intent	NOV	SWQ
	Recurring	AO/Fine	SWQ
Failure to report additional monitoring	Inspection finds additional files	NOV	SWQ
	Recurring	AO/Fine	SWQ

Time Frames for Responses

All violations will be identified and documented within five days of receiving compliance information from the Industrial User.

Initial enforcement responses will occur within 15 days of violation detection.

Follow-up actions for continuing or recurring violations will be taken within 60 days of the initial enforcement response. For all continuing violations, the response will include a compliance schedule.

Violations that threaten health, property or environmental quality are considered emergencies and will receive immediate responses such as, issuance of an Administrative Order to halt the discharge or termination of service.

All violations meeting the criteria of significant noncompliance will be addressed with an enforceable order within 30 days of the identification of significant noncompliance, and shall be published on an annual basis.

This Enforcement Response Guide addresses a broad range of violations. It is not intended to cover all types of violations. The responses in this guide are suggested responses.

This guide has been developed for guidance and is not intended to create legal rights or obligations, or to limit the enforcement discretion of the City of Fort Wayne, Indiana.

Glossary of Terms Relevant to Enforcement

Absolve - To excuse; to free from an obligation or the consequences of guilt or liability.

Administrative action (a fine or order) - An enforcement action authorized by the City's legal authority which is taken without the involvement of a court.

Administrative fine - A punitive monetary charge unrelated to actual treatment costs that are assessed by the Control Authority rather than a court.

Administrative Order (AO) - A document which orders the violator to perform a specific act or refrain from an act. For example, the order may require users to attend a show cause meeting, cease and desist discharging, or undertake activities following a compliance schedule.

Admissible evidence - Evidence which can be presented in court.

Affidavit - A sworn statement in writing under oath before an authorized magistrate or officer.

AGREED ORDER - An Administrative Order embodying a legally enforceable agreement between the Control Authority and the noncompliant user designed to restore the user to compliance status.

Approval authority - UEPA. The Approval Authority is responsible for approval and oversight of Control Authority pretreatment programs, including an evaluation of the effectiveness of local enforcement.

Arbitrary or capricious allegation - An assertion that a decision or action taken by the Control Authority was unreasonable or not founded upon sound judgement.

Board of Public Works (Board) - The utilities regulatory body, responsible for approving the Utilities Rules and Regulations and the appeal body for decisions and/or AOs made or issued by the Superintendent regarding industrial users.

Burden of proof - The duty of proving a disputed assertion or charge in court, or in an Administrative Hearing or proceeding.

Cease and Desist Order - An administrative order directing an industrial user to halt illegal or unauthorized discharges.

Chain of custody - A written record of sample possession for all persons who handle (collect, transport, analyze, dispose of) a sample, including names, dates, times, and procedures followed.

Civil litigation - A lawsuit filed in a civil court. If the court rules that the defendant Industrial User violated the law, the court may impose civil penalties, injunctions or other equitable remedies and/or cost recovery.

Civil penalty - A punitive monetary award granted by a court to the Control Authority against a noncompliant Industrial User

Compliance order - An Administrative Order directing a noncompliant industry to achieve or restore compliance by a date specified in the order.

Compliance schedule - A schedule of required activities necessary for an Industrial User to achieve compliance with all pretreatment program requirements.

Consent decree - A court supervised settlement agreement, the violation of which may be considered contempt of court.

Control Authority - The entity directly administering and enforcing pretreatment standards and requirements against Industrial Users. For the purposes of this guide, the Control Authority is the City of Fort Wayne through its approved pretreatment program.

Criminal intent - A state of mind which is a necessary element of some crimes. Criminal intent may be general (intent to perform an act) or specific (intent to break a law).

Criminal negligence - Negligence of such a character, or occurring under such circumstances, as to be punishable as a crime (such as a flagrant and reckless disregard of the safety of others or willful indifference to the injury likely to follow).

Defendant - The party against whom relief or recovery is sought. Usually the industrial user, for the purposes of this guide.

Deposition - a discovery device by which one party addresses verbal questions to the other party or to a witness for the other party. Depositions are conducted under oath outside the courtroom, usually in the office of an attorney. A transcript is made of the deposition that may be used as evidence at trial.

Deterrent value - A threat of reprisal that is sufficient to discourage the Industrial User from future violations.

Director(D) - The Director of Fort Wayne City Utilities or his duly authorized representative.

Discovery - A variety of pretrial devices used by one party to obtain relevant facts and information about the case from the other party, such as depositions and interrogatories.

Enabling legislation - A State law or charter that creates and empowers a Control Authority.

Fees - A schedule of charges imposed to recover treatment or administrative costs (not punitive in nature).

Fine - A punitive monetary charge for a violation of the law. Often used synonymously with "penalty", although the term "fine" generally implies the use of administrative rather than civil procedures.

Forthwith - An Administrative Order directing an industrial user to immediately halt illegal or unauthorized discharges.

Good faith effort or progress - Prompt and vigorous pollution control measures undertaken by the discharger which shows that extraordinary efforts (not a business as usual approach) have been made to achieve compliance.

Inadmissible - Evidence not allowed to be presented in court.

Indictment - A written accusation of criminal conduct by a grand jury.

Indirect discharge (Discharge) - The introduction of pollutants into the POTW from any non-domestic source.

Industrial user (IU, User) - A source of indirect discharge.

Industrial Pretreatment Section (I) - The group of individuals whose primary responsibility is the gathering of data and making contact with IUs that is necessary for the implementation of the city's pretreatment program.

Injunction, injunctive relief - A court order which restrains or compels action by the Industrial User.

Interragatories - A discovery device consisting of written questions submitted by one party to the other party or witness.

Judicial action or case - An enforcement action that involves a court. The action may be either civil or criminal in nature.

Jurisdiction - The extent of authority of a governmental entity's power to make and enforce law.

Legal authority - The source of a Control Authority's jurisdiction and regulatory powers.

Litigation - An enforcement action brought in a judicial forum.

Misdemeanor - A crime punishable by imprisonment of less than one year (depending on State law).

Notice of Violation (NOV) - A Control Authority document notifying an Industrial User that it has violated its wastewater discharge permit requirements.

Notice of Warning (NOW) - a Control Authority document notifying an Industrial User that it has violated its wastewater discharge permit requirements. (Used when a parameter violation is less than the actual reported value multiplied by the appropriate TRC factor.)

National Pollutant Discharge Elimination System (NPDES) - A permit system for the direct discharge of pollutants into U.S. waterways.

Penalty - A monetary or other punitive measure, usually associated with a court action. For purposes of this guide, the term is used synonymously with fine.

Plaintiff - A person or organization seeking remedy from a court. For purposes of this guide, the plaintiff is the Control Authority, the City of Fort Wayne.

Plea bargain - An agreement between a Prosecuting Attorney and a criminal defendant whereby the defendant pleads guilty to a lesser charge and/or a reduction of sentence in exchange for cooperation in investigating or prosecuting the crime.

Priority pollutants - A list of 126 pollutants established by EPA and considered hazardous to the environment and to humans.

Publicly Owned Treatment Works (POTW) - A system of conveyances and treatment for sewage and industrial wastes. Also refers to the government officials responsible for operation and maintenance of the collection system or treatment plant and the administration of the pretreatment program.

Reportable noncompliance - Criteria for identifying when a Control Authority should be reported in the NPDES Quarterly Noncompliance Report for failure to implement its approved pretreatment program

Search warrant - A document issued by a magistrate or judge which authorizes government entry into private premises to either observe compliance with applicable laws or collect evidence of noncompliance.

Self-monitoring - Sampling and analysis of wastewater performed by the Industrial User.

Show cause order - An Administrative Order directing a noncompliant user to appear before the Control Authority, explain its noncompliance, and show cause why more severe enforcement actions against the user should not go forward.

Significant noncompliance - shall have the definition as set forth in 40 CFR 403.8(f)(2)(vii) latest revision.

Standard of strict liability - Liability which attaches without regard to the user's "negligence" or "intent" to violate. Noncompliant Industrial Users will be found liable for pretreatment violations if the Control Authority proves that a violation occurred.

Supervisor of Water Quality (SWQ) - The Supervisor of the Industrial Pretreatment Section, responsible for reviewing data gathered on Industrial Users and determining what initial responses are required.

Surcharge - The charge for treating excessive pollutant loadings.

Technical Review Criteria (TRC) - Factor used to determine degree of noncompliance. TRC = 1.4 for oil and grease, B.O.D., and T.S.S. TRC = 1.2 for all other parameters except pH.

Termination of service - A physical blockage of the sewer connection to a noncompliant user or issuance of a formal notice of termination to the Industrial User.

Testimony - A solemn declaration made by a witness under oath in response to interrogation by a lawyer or public official which is used as evidence.

EXHIBIT C-3

CHAPTER 51: SEWERS

Section

General Provisions

51.001 Definitions
51.002 Damage to city property prohibited
51.003 Dilution
51.004 Accidental discharges

Connections and Extensions

51.015 Requirements for connection to public sewers
51.016 Extensions of sewers outside corporate limits
51.017 Connections to sewer system by certain properties outside corporate limits

Commercial and Industrial Wastes and Discharges

51.030 Prior approval for certain wastes
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Editor's note: *Ord. G-17-91 and amending Ord. G-25-91 and Ord. G-35-92 made substantive changes to the sections of this chapter where they are recorded in the section history. These ordinances are not included in the section history where the section was only renumbered using the enumeration of the 1974 Code, which is obsolete in this edition of the code of ordinances.*

GENERAL PROVISIONS

§ 51.001 DEFINITIONS.

Unless the context specifically indicates otherwise, the meanings of the following terms as used in this chapter and as used in the Rules and Regulations adopted by the Board of Public Works implementing the provisions of this chapter for the Fort Wayne sewer system are as set out below respectively:

ACT. The Federal Water Pollution Control Act, also known as "The Clean Water Act," as amended, 33 U.S.C. 466, as referred to at IC 13-18-13.

APPLICABLE PRETREATMENT STANDARDS. Any pretreatment limit or prohibitive standard (federal, state and/or local) contained in the ordinance and considered to be the more restrictive with which non-domestic users shall be required to comply.

BIOCHEMICAL OXYGEN DEMAND (BOD). The quantity of dissolved oxygen, in milligrams per liter, required during the stabilization of the decomposable organic matter by aerobic biochemical action of sewage, sewage effluent, polluted waters or industrial wastes under standard laboratory procedures for five days at 20° centigrade. The laboratory determinations shall be made in accordance with procedures set forth in 40 CFR 136.

BUILDING (OR HOUSE) DRAIN. That part of the lowest piping of a drainage system which receives the discharge from soil, waste and other drainage pipes inside the walls of the building and conveys it to the building sewer.

(1) ***COMBINED.*** A building drain which conveys both sewage and storm water or other drainage.

(2) ***SANITARY.*** A building drain which conveys sewage only.

(3) ***STORM.*** A building drain which conveys storm water or other drainage, but not sewage.

BUILDING (OR HOUSE) DRAIN CONNECTION. The point where the building (or house) sewer is connected to the building drain at a location approximately three feet outside the foundation wall of the building.

BUILDING (OR HOUSE) SEWER. That part of the drainage system which extends from the end of the building drain and conveys its discharge to a public sewer, private sewer, individual sewage disposal system or other point of disposal.

(1) ***COMBINED.*** A building sewer which conveys both sewage and storm water or other drainage.

(2) ***SANITARY.*** A building sewer which conveys sewage only.

(3) ***STORM.*** A building sewer which conveys storm water or other drainage, but not sewage.

BUILDING (OR HOUSE) SEWER CONNECTION. The point where the building sewer is connected to the public sewer. This connection to the public sewer may be accomplished as follows:

(1) Where a tap-in connection is employed, the point of connection shall be where the end of the building sewer meets the inside face of the sewage system and the tapping "saddle and/or joint" shall be considered part of the building sewer.

(2) Where fittings (T's or Y's) are employed the connection shall be where the end of the first pipe meets the end of the fitting and the said T or Y fitting shall be considered a part of the building sewer.

CATEGORICAL INDUSTRY. An industry whose effluent is regulated by 40 CFR 403.6.

CATEGORICAL PRETREATMENT STANDARD OR NATIONAL STANDARD. Any regulation containing pollutant discharge limits promulgated by the U.S. EPA in accordance with Section 307(b) and (c) of the Act (33 U.S.C. 1317) which apply to a specific category of industrial users which appear in 40 CFR Chapter I, Subchapter N Part 405-471.

CHEMICAL OXYGEN DEMAND (COD). A measure of oxygen equivalent to that portion of the organic matter in a sample of sewage, sewage effluent, polluted waters or industrial wastes that is susceptible to oxidation by a strong chemical oxidant. The laboratory determinations shall be made in accordance with procedures set forth in 40 CFR 136.

CITY. The City of Fort Wayne, Indiana.

CLASSIFICATION OF USERS.

(1) ***RESIDENTIAL USERS.*** Includes any user of the city's treatment works whose lot, parcel or real estate or building is used for domestic dwelling purposes only.

(2) ***COMMERCIAL USER.*** Includes all retail stores, restaurants, office buildings, laundries and other private business and service establishments, including those identified in the Standard Industrial Classification Manual, 1972, Office of Management and Budget Division I - Services.

(3) ***INDUSTRIAL USER.*** Includes any user of the city's treatment works which is identified in the Standard Industrial Classification manual, 1972, Office of Management and Budget, as amended and supplemented, under the following divisions; Division A-Agriculture, Forestry and Fishing; Division B-Mining; Division D-Manufacturing; Division E-Transportation, Communications, Electric, Gas and Sanitary. ***INDUSTRIAL USERS*** shall be classified as follows:

(a) ***NON-DISCHARGE USERS.*** Includes all industries which discharge sanitary sewage only, and industrial users whose discharge is limited to non-contact cooling water, or boiler blowdown water.

(b) ***NON-MAJOR INDUSTRIAL USER.*** Includes all industries which discharge process water but do not meet the criteria of ***SIGNIFICANT INDUSTRIAL USERS.***

(c) ***SIGNIFICANT INDUSTRIAL USERS (SIU).*** Includes all industries comprised of categorical and non-categorical industries and shall further be defined as set out at 40 CFR 403.3(t).

(4) ***INSTITUTIONAL USER.*** Includes social, charitable, religious and educational activities such as schools, churches, hospitals, nursing homes, penal institutions and similar institutional users.

(5) ***GOVERNMENTAL USER.*** Includes legislative, judicial, administrative and regulatory activities of federal, state and local governments.

COMPLIANCE SAMPLE. A sample taken of a user's effluent approximately 30 days after a violation of this chapter, the user's permit or the federal pretreatment standards and regulations has been discovered or reported. The user shall be billed for any compliance sample taken.

COMPOSITE SAMPLE. The sample resulting from the combination of discrete wastewater samples taken at selected intervals while the discharge rate is at or above normal based on an increment of either flow or time. Time intervals between discrete samples not to exceed two hours. The total duration of collection shall not exceed 24 hours.

DWELLING. A building, or portion thereof, under one roof used primarily as the abode of one or more persons, but not including hotels, motels, lodging or boarding houses or tourist homes.

EFFLUENT. The water, together with any wastes that may be present, flowing out of a drain, sewer receptacle or outlet.

EMERGENCY. An unforeseen circumstance or combination of circumstances that may cause an eminent endangerment to the health and/or welfare of persons, the environment, or which may interfere with the operation of the sewer collection system or the Water Pollution Control Plant.

FOLLOW-UP SAMPLE. A sample taken of a user's effluent at the city's discretion from a user receiving scheduled sampling, at times other than those regularly scheduled. A follow-up sample shall be done at no cost to the user.

GARBAGE. Any solid wastes from the preparation, cooking or dispensing of food or from the handling, storage or sale of produce.

GRAB SAMPLE. An individual discrete effluent sample collected over a period of time not to exceed 15 minutes.

GROUND GARBAGE. Garbage that is shredded to such a degree that all particles will be carried freely in suspension under the conditions normally prevailing in public sewers, with no particle being greater than one-half inch in any dimension.

INDIRECT DISCHARGE. The introduction of pollutants into the sewer system from any nondomestic source regulated under Section 307(b), (c) or (d) of the Act.

INDUSTRIAL WASTES. Any solid, liquid or gaseous substance or form of energy discharged, permitted to flow or escape, or transported from an industrial, manufacturing, commercial or business operation or process or from the development, recovery or processing of any natural resource carried on by any person.

INFLUENT. The water, together with any wastes that may be present, flowing into a drain, sewer, receptacle or outlet.

NORMAL DOMESTIC SEWAGE. Sewage having an average daily suspended solids concentration of not more than 300 milligrams per liter, an average daily BOD concentration of not more than 300 milligrams per liter, an average daily COD concentration of not more than 600 milligrams per liter, an average daily phosphorus concentration of not more than 10 milligrams per liter, and an average daily ammonia concentration of not more than 25 milligrams.

NPDES PERMIT. The National Pollutant Discharge Elimination System Permit issued by the Indiana Department of Environmental Management for discharges of waste waters to navigable waters of the United States pursuant to Section 402 of 33 U.S.C. 466.

OPERATION AND MAINTENANCE COSTS. All costs direct and indirect, other than debt services including replacement costs as defined herein, necessary to insure adequate wastewater treatment on a continuing basis conforming with federal, state or local requirements and to insure longterm facilities management.

OUTLET. Any outlet, natural or constructed, which is the point of final discharge of sewage or of treatment plant effluent into any watercourse, pond, ditch, lake or other body of surface or ground water.

PERSON. Any individual, owner, discharger, lessee, occupant, firm, partnership, company, municipal or private corporation, commercial establishment, association, society, institution, enterprise, governmental agency or other legal unit or entity.

pH. An expression of the intensity of the base or acidic conditions of a liquid.

POLLUTANTS.

(1) ***COMPATIBLE POLLUTANTS.*** Waste containing biochemical oxygen demand, chemical oxygen demand, suspended solids, phosphorus, pH and fecal coliform bacteria and ammonia (NH_3).

(2) ***INCOMPATIBLE POLLUTANTS.*** Wastes with any pollutant that is not a compatible pollutant which is regulated by the NPDES permit or that would cause damage to the sewage system and/or treatment plant.

RANDOM SAMPLE. A sample taken at no charge to the user, at the city's discretion of effluent produced by any user.

RECEIVING STREAM. The watercourse, stream or body of water receiving the waters finally discharged from the sewage treatment plant.

REPLACEMENT COSTS. That cost, stated in current monetary values, as an operating cost which represents and measures the expenditures required to replace equipment, accessories or appurtenances of the property in order to maintain capacity and performance during the useful life of the property of the Water Pollution Control Utility.

REPLACEMENT FUND. A fund maintained to provide resources to pay for replacement expenditures annually as required to maintain the capacity and performance of the property of the sewage works.

SANITARY SEWAGE. Sewage discharged from the sanitary conveniences of dwellings, apartment houses, condominiums, motels, hotels, lodging or boarding houses, office buildings, factories or institutions, and free from storm water, surface water, groundwater and industrial wastes.

SCHEDULED SAMPLE. Routine sampling of a user's effluent, usually twice a year for a commercial user and quarterly for industrial users.

SERVICE CHARGE. A charge levied on a user of the treatment works which includes the user charge, a charge for local capital costs, and may include other charges for current services.

SEWAGE. The water-carried wastes from residences, business buildings, institutions and industrial establishments, singularly or in any combination, together with such ground, surface and storm waters as may be present.

SEWAGE TREATMENT PLANT or ***WATER POLLUTION CONTROL PLANT (WPC PLANT).*** The arrangement of devices, structures and equipment used for treating and disposing of sewage and sludge.

SEWAGE WORKS or ***WATER POLLUTION CONTROL UTILITY.*** All facilities and systems for collecting, transporting, pumping, treating, disposing of sewage and sludge, including the sewage treatment plant and the sanitary, storm and combination sewer collection systems whether or not in active use.

SEWER. A pipe or conduit for carrying sewage and other waste liquids as differentiated below:

(1) ***COMBINED OR COMBINATION SEWER.*** A sewer which carries storm, surface and groundwater runoff as well as sewage.

(2) ***PUBLIC SEWER.*** A sewer to the use of which all owners of abutting property have equal rights and is controlled and maintained by the city or other public authority.

(3) ***SANITARY SEWER.*** A sewer which carries domestic and unpolluted industrial sanitary sewage and to which storm, surface, groundwaters and unpolluted industrial waste waters are not intentionally admitted.

(4) ***STORM SEWER.*** A sewer which carries storm, surface and groundwater drainage but excludes sanitary sewage.

SEWER ENGINEER. The Chief Sewer Engineer of the city or his duly authorized representative; the term is synonymous with the term "Water Pollution Control Engineer."

SEWER SYSTEM. The network of sewers and appurtenances used for collecting, transporting and pumping sewage to the Sewage Treatment Plant.

SHALL. Means mandatory; "may" means permissible.

SLUGLOAD. Any discharge at a flow rate or concentration which could cause a violation of the prohibited discharge limits set in the Rules and Regulations Section 6.

STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE. A classification pursuant to the Standard Industrial Classification Manual used by the U.S. Office of Management & Budget.

STANDARD METHODS. The examination and analytical procedures set forth in the most recent edition of "Standard Methods for the Examination of Water and Wastewater," published jointly by the American Water Works Association and the Water Pollution Control Federation, a copy of which is on file in the Office of the Superintendent.

STRENGTH-OF-WASTE SURCHARGE. The additional charges for sewage service collected from users discharging sewage into the system having a strength measurement in excess of the limits imposed by the provisions of this chapter.

SUPERINTENDENT. The Superintendent of the Sewage Treatment Plant (Water Pollution Control Plant) of the city, or his duly authorized representative.

SUSPENDED SOLIDS. Solids which either float on the surface of or are in suspension in water, sewage or other liquid and which are removable by laboratory filtration. Their concentration is expressed in milligrams per liter. Quantitative determinations are made in accordance with procedures set forth in 40 CFR 136.

TOXIC POLLUTANT. One of 126 pollutants, or combinations of those pollutants, listed as toxic in regulations promulgated by the EPA under the provisions of Section 307 (33 USC 1317) of the Act.

USER CHARGE. A charge imposed on users of a treatment works to defray the cost of operation, maintenance and replacement.

USER REQUESTED SAMPLE. Any effluent sampled taken by the city at the request of the user, the cost for which shall be billed to the user.

WASTE SURVEILLANCE CHARGE. A monthly charge collected from users, qualifying as industrial or commercial class users, to defray the cost of evaluating

that user's waste by metering, sampling, laboratory analysis and/or other methods deemed necessary. Said charges are set forth in § 51.065 et seq. and are subject to review annually as provided in § 51.079.

WATERCOURSE. A channel in which the flow of water occurs either continuously or intermittently.
('74 Code, § 24-1) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.002 DAMAGE TO CITY PROPERTY PROHIBITED.

It shall be unlawful for any unauthorized person to maliciously, willfully or negligently break, damage, destroy, remove, deface or tamper with any structure, appurtenance or equipment which is part of the city sewage system, the city's Water Pollution Control Plant or property of others assigned to the city for operation and maintenance and shall be liable for damage.
('74 Code, § 24-8) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.003 DILUTION.

It shall be unlawful for any person to increase the use of potable water or process water in any way, or mix separate waste streams for the purpose of diluting a discharge as a partial or complete substitute for adequate treatment to achieve compliance with pretreatment standards or requirements. The city may impose discharge limitations on any persons using dilution to meet applicable pretreatment standards or discharge permit requirements. The city may also impose discharge limitations in other circumstances deemed appropriate by the Board of Public Works.
('74 Code, § 24-9) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.004 ACCIDENTAL DISCHARGES.

(A) Each person shall provide protection from accidental discharge of prohibited or regulated materials or substances to sewers of the city. Where necessary, procedures and facilities to prevent the accidental discharge of prohibited materials shall be provided and maintained at said discharger's expense. Detailed plans showing facilities and operating procedures to provide this protection shall be submitted to the Superintendent for review, and be approved by the city before construction of the facility. Review and approval of plans and operating procedures by the city shall not relieve the discharger from the responsibility to modify its facility as necessary to meet applicable federal, state and local requirements.

(B) All responsible persons shall notify the Superintendent of the Water Pollution Control Plant, or his representative, immediately when a "slug load" or accidental discharge occurs. A written report shall be submitted within five days of the incident. The notification must include the location of the discharge, date and time of occurrence, type of waste, concentration and volume and corrective actions taken. Any person who discharges a "slug load" of prohibited materials will be liable for any expense, including loss or damage to the city's sewer system and treatment facilities in addition to the amount of any fines imposed upon the city under state or federal law.

(C) Signs must be permanently posted in conspicuous places on the dischargers' premises, advising employees whom to call in the event of an accidental discharge. Employers shall adequately instruct all employees who may cause or discover such discharges of the emergency notification procedures.
('74 Code, § 24-10) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

CONNECTIONS AND EXTENSIONS

§ 51.015 REQUIREMENTS FOR CONNECTION TO PUBLIC SEWERS.

City Utilities shall have the authority to require an owner of real property to disconnect any downspouts, yard drains or other drains which carry the runoff of natural precipitation from a building sewer which drains into a sanitary sewer, or in areas served by combined sewers where City Utilities determines the additional load placed on the system has been found

to be detrimental to properties in that area. Property owners shall have thirty (30) days after notice thereof to comply with any such requirement.
('74 Code, § 24-3) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97) Penalty, see § 51.999

§ 51.016 EXTENSIONS OF SEWERS OUTSIDE CORPORATE LIMITS.

The installation, construction, or extension of sanitary sewers by private developers or by the city outside the corporate limits of the city and the con-nection of said sanitary sewers into the city's sewage system from, by, to, or for properties located outside such limits is prohibited, except with the approval of the Board of Public Works by duly enacted resolution, provided that a resolution ratifying and agreement and/or contract for such construction and connection shall be deemed to constitute such approval.
('74 Code, § 24-4) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.017 CONNECTIONS TO SEWER SYSTEM BY CERTAIN PROPERTIES OUTSIDE CORPORATE LIMITS.

Notwithstanding the provisions of § 51.016, the Board of Public Works shall have the authority to permit a property located outside the corporate limits of the city to connect to an existing sanitary sewer which is part of the city's sewer system, when the property abuts, adjoins or is immediately contiguous to the street, alley or easement in which such sewer is located and provided the property owner or occupant has complied with the requirements prescribed by § 51.015 of this chapter.
('74 Code, § 24-5) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

COMMERCIAL AND INDUSTRIAL WASTES AND DISCHARGES

§ 51.030 PRIOR APPROVAL FOR CERTAIN WASTES.

(A) Review and acceptance by the Superintendent shall be obtained prior to the discharge into the sewage works sewers by any persons having sewage wastes which contain:

(1) Either a BOD content greater than 300 milligrams per liter or a COD greater than 600 milligrams per liter.

(2) A suspended solids content greater than 300 milligrams per liter.

(3) A phosphorus content greater than 10 milligrams per liter.

(4) An ammonia content greater than 25 milligrams per liter.

(5) Other contaminants which either from their constituents or quantities will:

(a) Interfere with the operation of any portion of the sewage works;

(b) Pass through the treatment works or otherwise be incompatible with such works;

(c) Prevent the reclamation and/or recycling of municipal or industrial wastewaters and sludges.

(B) However, nothing in this section or elsewhere in this chapter shall be read to allow the user to discharge pollutants which shall cause interference or pass through and/or to absolve the user from liability in the occurrence of a discharge which causes such interference or pass through.
('74 Code, § 24-11) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.031 PRETREATMENT FACILITIES; APPROVAL OF PROPOSED PLANS, OPERATION.

(A) General. When, after making such a review, the Superintendent concludes that, before the person discharges waste into the public sewers, the person must modify or eliminate those constituents which would be harmful to the structures, processes, or operations of any portion of the sewage works or injurious to the health of the general public, then that person shall either modify the wastes at the point of origin or shall provide and operate, at said person's expense, such treatment and processing facilities as

may be deemed necessary to render said person's waste acceptable for admission to the public sewers. ('74 Code, § 24-12)

(B) Prior approval. Plans, specifications and any other pertinent information relating to proposed treatment or processing facilities shall be submitted to the Superintendent for examination and approval. No construction of such facilities shall begin until the Superintendent has given written approval. Such approval shall not exempt the person from the obligation to make further reasonable adaptations of such facilities when such adaptations prove necessary to secure the results of acceptable waste concentrations desired. The approval of proposed facilities and/or equipment by the Superintendent does not in any way guarantee that such facilities and/or equipment will function in the manner described by the person's constructor or the manufacturer of said facilities and equipment, nor shall such approval relieve any person of the responsibility of enlarging or otherwise modifying such facilities to accomplish the intended purposes. ('74 Code, § 24-13)

(C) Operation. Where pretreatment facilities are provided pursuant to the Superintendent's approval, they shall be maintained continuously in satisfactory and effective operating condition at the person's expense and shall be subject to periodic and random inspection and sampling by the city. The person responsible for such facilities shall maintain suitable operating records which shall be open to inspection by the city, and shall submit to the Superintendent such monthly summary reports of the character of the influent and effluent of the facilities as the Superintendent may require. All records and reports shall be retained for a minimum of three years. All industry whether defined as categorical or noncategorical industry by state and federal regulations shall comply with all requirements of 40 CFR 403.12. ('74 Code, § 24-14)

(D) Pursuant to 40 CFR 403.12(o), the city may, at its discretion, require that records be kept for a longer period in the case of unresolved litigation or when requested by the Approval Authority.

(E) All industries whether defined as categorical or noncategorical industry by state and federal regulation shall comply with all requirements of 40 CFR 403.12, including, when applicable, Baseline Monitoring Reports (BMRs), 90 Day Compliance Reports, and Periodic Compliance Reports.
(Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91); Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.032 FEDERAL PRETREATMENT STANDARDS.

(A) As part of this chapter the city shall enforce all federal pretreatment standards including but not limited to categorical pretreatment standards upon persons within its service area or within the service area of any contract customers.

(B) Categorical industrial users must comply with all applicable National Categorical Pretreatment Standards found in 40 CFR Chapter 1, Subchapter N, Parts 405-471. These standards are hereby incorporated into this chapter.
('74 Code, § 24-15) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.033 PROHIBITED DISCHARGES AND LIMITATIONS.

Except as hereinbefore provided, no person shall discharge or cause or permit to be discharged into the public sewer any of the following described substances, wastes or waters:

(A) Any liquid or vapor having a temperature greater than 140° F. (60° C), or any wastewater which will cause the WPC Plant's influent to exceed 104° F. (40° C).

(B) Any waters or wastes from industrial sources containing more than 100 milligrams per liter of total oil and grease (TOG). Acceptable limits for animal-vegetable based fats, oils and grease shall be determined by the Board of Public Works and set out in the Sewer Utility Rules and Regulations. Said maximum limits shall be calculated and set at an amount shown not to cause interference or obstruction in the collection system and/or sewer works, and shall be reevaluated and adjusted as necessary to protect the integrity of the sewer utility.

(C) Any gasoline, benzene, naphtha, fuel oil, mineral oil or any other flammable or explosive solid, liquid or gas.

(D) Any noxious or malodorous gas or substance which either alone or by interaction with other wastes, is capable of creating a public nuisance or hazard to life or of preventing entry into the sewers of their maintenance or repair.

(E) Any garbage that has not been properly pretreated and reduced as provided for in the definition of ground garbage in § 51.001.

(F) Any ashes, cinders, sand, mud, straw, shavings, wood, metal, glass, rags, feathers, tar, plastics, paunch manure, butchers' offal or any other solid or viscous substances capable of causing obstruction to the flow in sewers or other interference with the proper operation of the sewer system or the sewage treatment plant.

(G) Any waters or wastes having a pH less than 6.0 or greater than 10.0 or having any other corrosive property capable of causing damage or posing hazards to the structures, equipment or personnel of the sewage works.

(H) Any waters or wastes containing toxic substances, as defined under Section 307 (b) and (c) of the Clean Water Act in sufficient quantity to interfere with the biological process of the sewage treatment plant or that will pass through the plant into the receiving stream in amounts exceeding the standards set forth by federal, interstate, or other competent authority having jurisdiction, or will prevent the disposal of the sludges by the plant in accordance with Section 405 of said Act.

(I) Any toxic radioactive isotopes, without a special permit. The radioactive isotopes of I 131 and P 32 used in hospitals are not prohibited, if they are properly diluted before being discharged into the sewer system, as further defined in the general rules and regulations.

(J) Any waters or wastes that for a duration of 15 minutes or more have a concentration more than five times the average concentration of BOD or suspended solids of the user's sewage discharged during a 24 hour period of normal operation.

(K) Any waters or wastes containing suspended solids of such character and quantity that unusual provisions, attention and expense would be required to handle such materials at the sewage treatment plant, its pumping stations or other facilities.

(L) Any waters or wastes containing incompatible pollutants as herein described.

(M) Any waters or wastes containing any toxic substances in quantities that are sufficient to interfere with the biochemical processes of the sewage treatment plant, that will pass through the plant into the receiving waters or accumulate in the sludges in an amount exceeding the limitations, set forth by any federal, state, interstate or local limitations whichever is more stringent. Specifically excluded are any waters or wastes containing toxic ions, compounds, or substances in concentrations or amounts exceeding the limitations set forth by the Board of Public Works and published in the general rules and regulations.

(N) Any bulk waste, either industrial or domestic, without prior written approval of the Superintendent.

(O) Any substances with objectional color not removed by the treatment process, such as, but not limited to dye waste and vegetable tanning solutions.

(P) The city reserves the right to refuse, deny or revoke the connection of any user in the event the sewer service requirements of the user, in the judgment of the Superintendent could or would impose an excessive burden on the sewage works or in the event the user is or has been in repeated violation of this chapter. The city further reserves the right in the event of any emergency, to restrict the allowable discharge received from any or all large users of the sewer system during the time of such emergency.

(Q) Pollutants which create a fire or explosion hazard in the city's treatment works or sewage system, including, but not limited to, wastestreams with a closed cup flashpoint of less than 140° Fahrenheit, or 60° centigrade using test methods specified in 40 CFR 261.21.
('74 Code, § 24-16) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92); Am. Ord. G-17-94, passed 8-23-94; Am. Ord. (Ord. G-07-97, passed 7-9-97) Penalty, see § 51.999

§ 51.034 RESPONSIBILITY FOR OBSTRUCTION OR DAMAGE TO SEWERS.

If a public sewer becomes obstructed or damaged because any of the aforementioned substances were improperly discharged, the person or persons

responsible for such discharges shall reimburse the city for the expenses incurred by the city for cleaning out, repairing, rebuilding the sewer or for any litigations or damage claims resulting therefrom, including legal fees and court costs. For multiple offenders, each responsible person shall be assessed a proportionate percentage of the damage.
('74 Code, § 24-17) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.035 SUBMISSION OF DATA ON INDUSTRIAL WASTE.

(A) The following conditions are required for all SIU permits, and also may be incorporated into other permits at the discretion of the Superintendent:

(1) A statement of duration;

(2) A statement of non-transferability;

(3) Applicable federal, state and local effluent limits;

(4) Self-monitoring, sampling, reporting, notification, and recordkeeping requirements; and

(5) A statement of applicable civil and criminal penalties, pursuant to 40 CFR 403.8(f) (1)-(iii).

(B) Any person who discharges industrial waste into the city's sewer system either directly or indirectly, shall forthwith fill out and file, with the Superintendent, an industrial waste questionnaire, baseline monitoring report or permit application, the form for which will be furnished by the city, in which shall be set forth the quantity and characteristics of the wastes discharged into the city's sewer system. Any owner desiring to establish a new connection to the public sewer or to establish a new account with sewage works for the purpose of discharging industrial or commercial waste shall 90 days prior to discharge first fill out and file with the Superintendent such a questionnaire, baseline monitoring report or permit application, which shall contain the actual or predicted data relating to the quantity and characteristics of the wastes to be discharged. After review of the submitted documents and permit application, the Superintendent shall issue an industrial wastewater discharge permit which shall contain conditions and requirements with which the person shall comply. All rules and regulations of the sewer utility must also be followed by a permitted user.

(C) Any person who adds, changes, modifies or proposes to change manufacturing or pretreatment processes shall first notify the Water Pollution Control Plant, in writing, and submit a new or revised Baseline Monitoring Report for review by the Superintendent.

(D) Industrial users must provide prior notification to the Superintendent of the WPC Plant before any changes are made to their effluent.

(E) Any person who knowingly makes any false statement, representation or certification in any application, report or other document required by this chapter or other applicable regulations shall, upon conviction, be punished by the imposition of a criminal penalty as required by local and/or state statutes.

(F) When special circumstances render it an unreasonable burden to comply with the time schedule determined by the sewage works for the correction of any industrial waste discharge problem, an extension of time, not to exceed 90 days, may be granted by the Superintendent upon presentation in writing of an application for such relief.
('74 Code, § 24-18) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97) Penalty, see § 51.999

§ 51.036 CONFIDENTIAL INFORMATION.

Information and data furnished to the city by any person shall be made available to the public or other governmental agency without restriction unless the person specifically requests and is able to demonstrate in accordance with 40 CFR 2.203 and 330 IAC 5-1.5-8 that the release of such information would divulge information and/or methods of production entitled to protection as trade secrets or proprietary information of said person. The above limitation to access has no application to the USEPA, which shall be entitled to immediate and unlimited access to all information collected by the city under its Pretreatment Program. Further, under no circumstances may the volume or the components of the discharge be considered confidential. All requests, by the user, for confidentiality of information shall be made in

accordance to and governed by the provisions of 330 IAC 5 and 40 CFR 2.
('74 Code, § 24-19) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.037 CONTROL MANHOLES.

Any person who discharges or may discharge industrial wastes into a public sewer via any means such as floor drains, sinks, catch basins, and the like, shall be required by the Superintendent to construct and maintain, at his own expense, one or more control manholes, at a specified location or locations, to facilitate the observation, measurement and sampling of owner's waste. Such manholes shall be constructed in accordance with the standards and specifications of the city. The Superintendent may also require the person to install and maintain in any such manhole, at said person's expense, an approved volume-measuring device. Plans and/or shop drawings for the installation of control manholes and related equipment shall be approved by the Superintendent before any construction is begun.
('74 Code, § 24-20) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.038 GREASE AND SAND TRAPS.

Whenever the Superintendent determines that interceptors or traps are needed to protect the city's sewer collection system or the city's treatment plant from grease, oil, sand or similar substances occurring in any person's sewage and so notifies said person, then such traps shall be promptly installed by said person, at said person's expense and shall be so maintained by that person that none of such substances can be discharged or carried over into the public sewers. All traps or interceptors shall meet the city's standards as to construction, location and installation.
('74 Code, § 24-21) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.039 INSPECTIONS; WASTE SAMPLING.

(A) Any person shall be subject to periodic and random inspections by the city for the purpose of determining compliance with permit limitations, solvent management plans or spill prevention plans, identifying dilution streams or to categorize regulated processes. These inspections may consist of monitoring waste streams, inspection of the premises, inspection and/or copying of production records, pretreatment operating records and other records or data deemed necessary by the inspector for the purposes stated above.

(B) The installation, operation and maintenance of the sampling facilities shall be the responsibility of the person discharging the wastes and shall be subject to the approval of the Superintendent. Access to the sampling facilities shall be granted, at all times, to the Superintendent.

(C) Where any person's operations have security measures in force which require proper identification and clearance before entry onto said person's property is granted, such person shall make the necessary arrangements with their security personnel that upon showing of proper identification personnel from the city shall be permitted to enter, without delay, for the purpose of observing or monitoring of wastes being discharged at a given point or points or that person shall install suitable control manholes outside of the security area or areas, which at all times will be immediately available to city personnel.
('74 Code, § 24-22) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.040 WASTE ANALYSIS PROCEDURES AND CHARGES.

Laboratory procedures used in the examination of industrial wastes shall be those set forth in Code of Federal Regulations 40 CFR 136 or approved EPA methods.

(A) *Charges to users.* Alternate methods for certain analyses of commercial, industrial or institutional establishments may be used subject to mutual agreement between the Superintendent and the user. All such analyses shall be binding in determining strength-of-waste surcharges and other matters dependent upon the character and concentration of wastes. When surveillance sampling is conducted by the city, a split shall be made available for analysis by user upon request. In the event of a dispute between the Superintendent and the user as to the toxic nature

or other particulars of the sample taken and analyzed by the city, the dispute shall be resolved through an appeals process consistent with approved USEPA or IDEM guidance documents and methodology, the specific procedures for which shall be set out in the rules and regulations of the WPC Utility. Analyses made by the city at the request of the user shall be charged to the user according to the sewage works' standard work order billing procedure.

(B) *Charges to governmental agencies.* Analyses performed by the Water Pollution Control Plant Laboratory for any governmental agency, or political subdivision of a city, county or state shall be billed to such agency or subdivision for direct labor and expenses according to the sewage works' standard work order billing procedure. Analyses performed for other agencies shall not have priority over the regular Water Pollution Control Plant analyses unless in the judgment of the Superintendent the urgency of the analyses warrants such priority.

(C) *Charges of outside services.* Analyses performed by the Water Pollution Control Plan Laboratory for any person shall be billed at the rate established by the Water Pollution Control Plan Laboratory for such analyses.

(D) *Charges collected.* All waste analysis charges collected under divisions (A) through (B) above shall be recorded as credits to the operating costs of the Water Pollution Control Plant and a quarterly accounting thereof shall be forwarded to the Superintendent. All such charges are to be used to defray the operation and maintenance expenses incurred by the Water Pollution Control Plant in performing said analyses.
('74 Code, § 24-23) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.041 USE OF REPRESENTATIVE ANALYSIS.

Until an adequate analysis of a representative sample of user's wastes has been obtained, the city may, for the purpose of this chapter, make a determination of the character and concentration of the wastes by using data based on analysis of similar processes or data for this type of business that are available from the United States Environmental Protection Agency or from industry-recognized authoritative sources. This method, if selected by the city, shall continue at the city's pleasure or until an adequate analysis has been made.
('74 Code, § 24-24) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

PRIVATE SEWAGE DISPOSAL

This subchapter (§§ 51.050 through 51.059) applies to matters under the jurisdiction of the State and Allen Country Board of Health.

§ 51.050 DEFINITIONS.

(A) The words and phrases used in this subchapter (§§ 51.050 through 51.059) are herein defined, and for the purpose of this subchapter only, shall be construed as follows, except when otherwise expressly provided.

(1) ***STATE DEFINITIONS.*** All definitions set forth in 410 IAC 6-8.1, Bulletin SE-11(1986) and Bulletin SE-13 (1988), as amended from time to time, from the Indiana State Department of Health are hereby incorporated by reference.

(2) ***BOARD.*** The Fort Wayne-Allen County Board of Public Health, Fort Wayne, Allen County, Indiana.

(3) ***BUILDING.*** A structure having a roof supported by columns or walls built or used for the enclosure, shelter, protection or occupancy or persons, fixtures or personal property, and from which there emanates any sewage.

(4) ***COMMERCIAL.*** Any building which is not a one or two family dwelling.

(5) ***DEPARTMENT.*** The Fort Wayne-Allen County Department of Public Health, Fort Wayne, Allen County, Indiana, and/or its employees.

(6) ***ENVIRONMENTAL HEALTH SPECIALIST.*** An individual as defined in IC 25-32-1-2(b).

(7) ***HEALTH COMMISSIONER.*** The Director of Public Health for the Fort Wayne-Allen County Department of Public Health for Fort Wayne, Allen County, Indiana, (designated as "Health Officer" in the state rules and regulations) and/or his/her authorized representative.

(8) ***INSTALLER.*** Any person who constructs, installs, replaces, alters, modifies or repairs any residential or commercial sewage disposal system subject to the provisions of this chapter, other than one which serves his/her/its building. In the event that the person is any association of two or more people, then said association shall designate one individual who shall be designated as the installer and responsible for compliance with all provisions hereunder.

(9) ***PERMIT.*** A certificate of a size and style approved by the Health Commissioner.

(10) ***PERMITTEE.*** The person who is the owner of the real estate, his/her/its authorized representative, who is responsible for the application of a construction permit and/or operating permit and who shall be responsible for the acceptance of notices at the address listed on the permit applications.

(11) ***PUBLIC SEWER.*** A sewer to the use of which all owners of abutting property have equal rights and is controlled and maintained by the city or other public authority.

(12) ***RESIDENTIAL.*** A building used as a one or two-family dwelling.

(13) ***SEWAGE.*** The water-carried wastes from residences, business buildings, institutions and industrial establishments, singularly or in any combination, together with such ground, surface and storm waters as may be present.

(14) ***SOILS SCIENTIST.*** An individual who is a Specialist or Classifier, registered with the American Registry or Certified Professionals in Agronomy, Crops and Soils (ARCPACS).
(Ord. G-07-97, passed 7-9-97)

§ 51.051 SEWAGE DISPOSAL.

(A) *State rules.* All rules and regulations of 410 IAC 6-8.1, 410 IAC 6-10, Bulletin SE-11 (1986) and Bulletin SE-13 (1988), as amended from time to time, from the Indiana State Department of Health are hereby incorporated by reference.

(B) *Public sewer available.* Whenever a public sewer is or becomes available within 300 feet of a residential or commercial lot line, a direct connection shall be made to said public sewer, provided direct access is reasonably available via easement or other appropriate means. All existing septic tanks, sewage pits, outhouses, privy pits and similar sewage disposal systems or treatments facilities shall be abandoned and filled in a safe an sanitary manner. Permittee shall have ninety (90) days from the date that the public sewer becomes available to make a direct connection to the public sewer and to abandon and fill in the existing sewage disposal system.

(C) *Public sewer not available.* All residential and commercial buildings which are not connected to a public sewer shall be connected to a private sewage disposal system which shall comply with the standards set forth herein.

(D) *Construction of privy.* Sanitary vault privies constructed and maintained pursuant to Bulletin SE-11 (1986) shall be approved by the Health Commissioner.

(E) *Correction of defects.* Should any defect exist or occur in any private sewage disposal system or privy which would cause the sewage disposal system or privy to fail to meet the requirements of this Chapter, then the defect shall be corrected by the owner/permittee pursuant to the time table established by the Health Commissioner. Failure to correct the defect within the time table established by the Health Commissioner shall be considered a violation of this chapter and shall subject the owner/permittee to the sanctions set forth in § 51.059 subject, however, to the hearing provisions of § 51.058.

(F) *Adaptation of residential systems.* Whenever there is any alteration of the structure or change in the use or occupancy of a residential building that would affect the functioning of the existing private sewage disposal system, including the addition of bathrooms, kitchens or other related water disposal mechanisms, then the system shall be modified, enlarged or replaced in accordance with the requirements of this chapter.

(G) *Adaptation of commercial system.* Whenever there is any alteration of the structure or significant change in the use or occupancy of a commercial

building which would affect the functioning of the existing private sewage disposal system, including the addition of bathrooms, kitchens or other related water disposal mechanisms, then the system shall be modified, enlarged or replaced in accordance with the requirements of this chapter. (Ord. G-07-97, passed 7-9-97)

§ 51.052 CONSTRUCTION REQUIREMENTS OF PRIVATE SEWAGE DISPOSAL SYSTEMS.

(A) *Indiana State Department of Health Requirements.* All rules and regulations of 410 IAC 6-8.1, Bulletin SE-11 (1986) and Bulletin SE-13 (1988), as amended from time to time, from the Indiana State Department of Health are hereby incorporated by reference.

(B) *Lot dimensions.*

(1) Lots or tracts of real estate on which residential or commercial sewage disposal systems are to be installed and which are rated slight or moderate for septic tank absorption fields by the U.S. Department of Agricultural Soil Conservation Service, shall contain a minimum of one (1.0) acre or 43,560 square feet and suitable soils and topgraphy to permit compliance with this chapter.

(2) Lots or tracts of real estate on which residential or commercial sewage disposal systems are to be installed and which are rated severe for septic tank absorption fields by the U.S. Department of Agriculture Soil Conservation Service shall contain a minimum of two (2.0) acres or 87,120 square feet and suitable topography to permit compliance with this chapter.

(3) A permittee, whose real estate was a separate parcel for tax purposes as shown on the tax records of the Auditor of Allen County, Indiana, and recorded prior to the effective date of this chapter as set forth in 51.059 (I) shall not be prohibited from the construction, installation and eventual operation of a residential sewage disposal system solely as the result of his/hers/its lot dimensions being less than those set forth above in (1) and (2), provided that he/she/it meets all other requirements of this chapter.

(C) *On-site evaluation.* At least one boring from the submitted septic disposal system location shall be done with a soil auger. A second sample from the submitted septic disposal system location, and any additional confirmation samples, may be taken with a push probe.

(D) *Requirements for septic tanks.*

(1) Residential septic tanks shall have the following number of gallons:

(a) If the number of bedrooms in a dwelling are one, two, three or four: 1,250 gallon tank.

(b) If the number of bedrooms in a dwelling are five: 1,500 gallon tank.

(c) If the number of bedrooms in a dwelling are more than five: 1,500 gallon tank + 150 gallons x the number of bedrooms over five.

(E) *Final grade.* All distribution boxes shall be extended full size to ground level or final grade.

(F) *Access openings.* All septic tanks shall have at least one (1) access opening of at least ten (10) inches in diameter, for each compartment in said tank for inspection and cleaning purposes. All such access opening shall be extended to ground level and shall be fitted with safely secured, gas tight covers.

(G) *Abandoned septic tanks.* Abandoned septic tanks shall be filled with earth, sand or gravel or shall be removed.

(H) *Inspection pike.* Each private sewage disposal system shall have at least one suitable inspection pipe, which shall be accessible to the Health Commissioner at all reasonable times for the inspection or sampling of effluent. If an inspection pipe does not exist, is not in good repair or is not accessible, such fact shall constitute a defect in the system under 51.051(E).

(1) The inspection pipe shall be installed at the far end of one of the absorption lines, or just beyond the last equipment or device in any other treatment system.

(2) The inspection pipe shall be not less than an eight (8) inch riser of Schedule 40, SDR 22 or SDR 26 PVC pipe or vitrified clay pipe extending above the surface of the grounds with a safely secured easily removable cap or cover and with its lower end connected and arranged to permit the collection, by dipping, of an effluent sample.
(Ord. G-07-97, passed 7-9-97)

§ 51.053 CONSTRUCTION PERMIT.

(A) *Construction permit required.* An owner or permittee shall first obtain a construction permit from the Health Commissioner prior to the commencement of any excavation, construction, alteration, repair, modification or addition to any existing or new private sewage disposal system.

(B) *Permit to be posted.* No person shall perform any work on a private sewage disposal system project unless a valid construction permit is first obtained and is properly posted in a conspicuous place at or near the building where the private sewage disposal system is to be constructed. The permit shall be plainly visible from the public thoroughfare serving the building until the project is completed.

(C) *Application for permit.* The application for such permit shall be submitted to the Health Commissioner on a form provided by the Health Commissioner and shall be supplemented by any plans, specification and other information deemed necessary by the Health Commissioner or as required by 410 IAC 6-8.1-48.

(D) *Permit fees.* Prior to the issuance of any permit, each owner/permittee shall first tender to the Treasurer of Allen County, Indiana, a fee or fees, which shall be deposited into the City-County Health Fund, for each system being constructed, modified, altered or repaired in accordance with the following schedule.

(1) New construction - $75.00.

(2) Alteration, modification or repair of existing system - $50.00.

(3) Revision of existing permit prior to construction - $20.00.

(E) *Term and renewal.* A construction permit shall be valid for one (1) year from the date of issuance, and may be renewed for up to an additional six (6) months upon application. If the permit is renewed, the permittee shall comply with any changes in the rules, standards or requirements which may have come into effect subsequent to the original date of issuance. The construction permit is not transferable.
(Ord. G-07-97, passed 7-9-97)

§ 51.054 INSTALLERS REGISTRATION.

(A) *Registration requirements.* Except for a person working on his/her/its own private sewage disposal system which serves the dwelling in which he/she/it resides, no person shall construct, install, replace, alter, modify or repair any private sewage disposal system unless that person has first registered with the Department as an installer. Persons required to be registered shall be given a grace period of up to six (6) months after the effective date of this chapter in which to register with the Department. Application for registration shall be on forms provided by the Department.

(B) *Conditions for registraton.*

(1) Every person required to register under this section shall be knowledgeable of all laws, rules and regulations of both the state and county governing private sewage disposal systems. Prior to registration, the applicant must demonstrate knowledge of the applicable laws, rules and regulation by passing a proficiency exam conducted by the Department with a score of eighty percent (80%) or higher. The registration exam shall be reviewed from time to time to determine its applicability to current laws, rules and regulations. Where taking a written exam is not feasible, due to language or reading difficulties, arrangements will be made to allow for an oral examination to assure proficiency. Opportunity for reexamination shall be afforded to an applicant upon request but no more frequently than once per month.

(C) Seminar. At the request of the Health Commissioner, but not more than once per year, a person registered under this section shall attend a seminar on sewage disposal conducted by the Department of the Indiana State Department of Health.

(D) *Expiration.* Registrations under this section shall expire annually on December 31. Each installer shall be required to re-register annually on or before January 15 of each succeeding year.

(E) *Annual fee.* For a period of six (6) months after the effective date of this chapter, registration under this section shall be without fee. After that date, an annual registration fee of $40.00 will be charged which shall be paid not later than January 31 of each year.

(F) *Notice of violation.* Whenever the Health Commissioner determines that there has been a violation of any provision of this chapter or the applicable rules and regulations of the Indiana State Department of Health by an installer, the Health Commissioner shall give written notice, in person or by certified mail, of the alleged violation to the installer. Such notice shall include the following:

(1) A statement of the alleged violation.

(2) An order allowing a reasonable time for the performance of any act required to correct the violation.

(G) *Suspension or revocation.* If the violation is not corrected within the designated time, the Health Commissioner may suspend or revoke the installer's registration subject to the provisions contained in 51.058 (B), (C) or (D).

(1) If the registration is suspended, the installer may be reinstated by the Health Commissioner upon correction of all violations.

(2) If the registration is revoked, the Health Commissioner shall require, at a minimum, that the installer: 1) be retested; 2) pay the registration fee; and, 3) correct all outstanding violation to the satisfaction of the Health Commissioner prior to being re-registered.

(H) *Not registered.* Any person constructing, installing, replacing, altering or repairing any private sewage disposal system who is not registered as an installer under this section shall be deemed to be in violation of this chapter and shall be subject to all penalties set forth in § 51.059.
(Ord. G-07-97, passed 7-9-97)

§ 51.055 INSPECTION.

(A) *Commencement of construction.* Upon issuance of a construction permit under § 51.053(A), the permittee may commence installation and construction of the private sewage disposal system. The Health Commissioner may inspect the work at any state of construction.

(B) *Inspection.* Upon substantial completion of the installation, the permittee shall notify the Health Commissioner that the work is ready for inspection. No portion of the installation shall be covered until the inspection is made.

(1) No portion of the installation shall be used and, when the system serves a new building, no person shall be permitted to use the building or buildings until the inspection has been completed and the system is found to be in compliance and an operation permit has been issued.

(2) The inspection shall be made within two (2) working days of the receipt of notice by the Health Commissioner that the system is ready for inspection.

(C) *Issuance of operation permit.* If the system meets all requirements and is in compliance with the law, the Health Commissioner shall issue an Operating Permit.

(D) *Operating permit required.* It shall be unlawful for any person to use or operate a private sewage disposal system unless said person possesses a valid operating permit issued by the Health Commissioner.

(E) *Valid period.* The Operating Permit shall be valid until there is a change in the use associated with the system. The issuance date shall appear on the Permit. The operation permit is not transferable.

(F) *Application for permit.* The application for an operation permit shall be made to the Health Commissioner on forms provided by the Health Commissioner.

(G) *Time of issuance.* An operating permit shall be issued within five (5) days of the inspection of the system once the Health Commissioner has determined that the permittee has complied with all applicable provisions of this chapter, the related state rules and regulations and tendered the appropriate permit fee.

(H) *Renewal.* Renewal of the Operating Permit is the duty of the permittee.
(Ord. G-07-97, passed 7-9-97)

§ 51.056 MAINTENANCE AND SAMPLING.

(A) *Sanitary Condition Mandatory.* Every private sewage disposal system shall be constructed and maintained so that the effluent leaving the Permittee's system shall be sanitary.

(B) *Inspection and sampling.* The Health Commissioner shall be permitted to enter upon any property at any reasonable time to inspect and take samples from a private sewage disposal system. If said test results should indicate a residential or commercial sewage disposal system failure, said failure shall constitute a violation of § 51.051(E).
(Ord. G-07-97, passed 7-9-97)

§ 51.057 ECONOMIC HARDSHIP.

(A) *Economic hardship.* In the event an owner/permittee is unable to comply with the provisions of § 51.051(B) due to the economic hardship that might be imposed, then the Health Commissioner may, upon application and proof of inability to pay the cost of compliance, extend the period within which said owner/permittee shall be required to make the hook-up provided the owner/permittee has an existing private sewage disposal system which is operating properly.
(Ord. G-07-97, passed 7-9-97)

§ 51.058 DENIAL; SUSPENSION; REVOCATION.

(A) *Denial and approval of permit.*

(1) In the event the Health Commissioner determines that the application for the Construction Permit and/or Operating Permit does not meet the standards set forth in this chapter, then the Health Commissioner shall be required to notify the Permittee of such denial in writing, within thirty (30) days of the original application, stating the specific reasons for the denial of the permit.

(2) Failure of the Health Commissioner to issue a written denial of a permit and/or to issue specific written directions regarding corrective actions that need to be taken to obtain the permit within thirty (30) days from the date of application of the Construction Permit shall be construed as an approval of the Construction Permit. In the event the Health Commissioner issues written directives regarding corrective actions, then the permittee and/or his agent shall have a reasonable amount of time to address the items set forth in the directives in order to be able to obtain the Construction Permit.

(3) Failure of the Health Commissioner to issue a written denial of an Operating Permit and/or to issue specific written directions regarding corrective actions that need to be taken to obtain the permit within ten (10) days from the date of application of the Operating Permit shall be construed as an approval of the Operating Permit. In the event the Health Commissioner issues written directives regarding corrective actions, then the Permittee and/or his agent shall have a reasonable amount of time to address the items set forth in the directives in order to be able to obtain the Operating Permit.

(B) *Suspension of permit/registration.* The Health Commissioner may order the suspension of a Construction Permit or Operation Permit or installer registration. The Health Commissioner may order the suspension of a permit or registration for any of the following reasons:

(1) Failure to meet any of the standards of any of the provisions of this chapter or violations of any of provisions of this chapter.

(2) Interference with the Health Commissioner in the performance of his/her duties. Interference shall be defined as the process of obstructing, hampering or blocking the Health Commissioner in the performance of his/her duties.

(3) At the request of the permittee or installer, a hearing shall be afforded him/her/it within twenty-four (24) hours of the issuance of the written suspension order. Said hearing shall be conducted as set forth in 51.058(E).

(C) *Revocation of permit/registration.* Any permit and/or registration issued hereunder may be revoked by the Health Commissioner as the result of the willful or continued violation of any provision of this chapter. No such revocation shall be ordered by the Health Commissioner except after a hearing held pursuant to § 51.058(E) upon at least ten (10) days written notice to the owner/permittee/installer of the time, place and nature of said hearing. Said notice of hearing shall be served upon the owner/permittee/installer by leaving, or mailing (certified mail) the notice to the address listed by the owner/permittee/installer at his/her/its address on the permit, application or installer registration application.

(D) *Immediate revocation.* Notwithstanding any of the other provisions of this chapter, whenever the Health Commissioner finds unsanitary or other conditions, which, in his/her opinion constitute an

imminent health hazard, he/she may, without notice or hearing, issue and serve a written order on the owner/permittee/installer requiring the immediate cessation of operation/installation. Said written order shall site the existence of the imminent health hazard and shall specify the corrective action to be taken. Such order shall be effective immediately. Upon petition to the Health Commissioner, the permittee/installer shall be afforded a hearing within twenty-four (24) hours of the issuance of the written order. Said hearing shall be conducted as set forth in 51.058(E).

(E) *Hearing.* At any hearing required under this chapter, every owner/permittee/installer who is a party to such proceeding shall have the right to submit evidence, to cross examine witnesses and to be represented by counsel. All such hearings shall be conducted in an informal manner, but irrelevant, immaterial or unduly repetitious material shall be excluded. Upon the conclusion of the hearing, the Health Commissioner shall issue a final order determining the issue(s) which shall be conclusive on all parties subject to the right of appeal.

(F) *Appeal.*

(1) Any owner/permittee/installer aggrieved by an final order of the Health Commissioner shall be entitled to a review of the final order before the Board by filing a written request with the Secretary for the Board within fifteen (15) days of the Health Commissioner's final order.

(2) Upon the Secretary's receipt of such request, the Board shall hear the matter de novo in open hearing upon at least ten (10) days written notice of the time, place and nature thereof. The notice shall be issued by the Secretary for the Board to owner/ permittee/installer filing the request.

(3) The notice shall be served upon the owner/permittee/installer by leaving or mailing (certified mail) the notice to the address listed on the application as his/her/its address or such other address he/she/it shall designate in writing.

(4) At such hearing, the same rules of procedure shall apply as in the case of the hearing before the Health Commissioner. Upon written demand by the owner/permittee/installer, the Board shall cause the proceedings before it to be recorded by a stenographer or reporter employed for such purpose, and the same, together with all papers and documents filed therein, shall be reproduced by said Commissioners of Allen County, Indiana in the form of a transcript, a copy of which shall be available to any party.

(5) The expense of such proceedings shall be charged to the owner/permittee/installer who applied for the review, except that copies of the transcript shall be at the expense of the party obtaining same. The Commissioners of Allen County, Indiana may require the deposit of an amount determined to secure such expense.

(6) The Board shall make written findings of facts and shall enter its final order or determination of the matter in writing in the permanent records of the Board.
(Ord. G-07-97, passed 7-9-97)

§ 51.059 PENALTIES.

(A) *Enforcement.* It shall be the duty of the Department and/or the Health Commissioner to enforce the provisions of this chapter. Any permit or registration issued in conflict with the provisions of this chapter shall be null and void. A violation of an order issued by the Health Commissioner or Board shall be considered to be a violation of this chapter.

(B) *Violations.* Whenever the Health Commissioner determines that any owner, permittee, installer or any other person, is in willful violation of any of the provisions of this chapter, the Health Commissioner shall furnish evidence of said willful violation to the Prosecuting Attorney of Allen County, Indiana or the attorney for the Board who shall seek all appropriate legal remedies against the person(s).

(C) *Penalty.* Any person who willfully violates any of the provisions of this chapter shall be subject to a fine of not more than $500.00 for each violation. Each day of the existence of any violation of this chapter shall be considered to be a separate offense.

(D) *Injunction.* The Health Commissioner may bring an action for an injunction in the Circuit or Superior Court of Allen County, Indiana, to restrain any person from violating the provisions of this chapter, or to cause such violation to be prevented, abated or removed.

(E) *Expense.* Any person violating any of the provisions of this chapter shall be liable to the Department for the expense, loss or damage occasioned by reason of such violation, including reasonable attorney's fees and court costs.

(F) *Cumulative.* The remedies provided in this section shall be cumulative, and not exclusive, and shall be in addition to any other remedy provided by law.
(Ord. G-07-97, passed 7-9-97)

SEWER RATES AND CHARGES

§ 51.065 CHARGES BASED ON WATER USAGE/ FLAT CHARGES.

The charges made for sewer service rendered to each lot, parcel of real estate or building having any connection with the city's sewer system or otherwise discharging sewage into the system, either directly or indirectly, shall be based upon the quantity of water presumed to enter the public sewers after being used in or on the property, as the quantity is measured by the water meter or meters there in use by the city's water utility, except as herein otherwise provided. Flat charges shall be assessed on a monthly basis. For the purposes of this chapter, a month shall constitute 25-35 days. Service periods falling outside this parameter shall be prorated.
('74 Code, § 24-25) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.066 WATER OBTAINED FROM SOURCES OTHER THAN CITY'S WATER UTILITY.

Where the property obtains any part or all of the water used from sources other than the city's water utility, the owner or the tenant may be required by the city to install and maintain at the user's own expense a meter or meters acceptable to the city for the quantity of water obtained from these other sources. Once installed, no such meter may be bypassed for any reason.
('74 Code, § 24-26) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.067 EXEMPT WATER - GENERAL.

Where a significant portion of the metered water does not and cannot enter the sewer system, either directly or indirectly, the person having charge of the property may request permission from the city to install at the user's expense either an approved meter or meters to determine the quantity of water that cannot enter the sewer system or an approved sewage-measuring device or devices to determine the volume of sewage that actually enters the sewer system. In any case the service charge shall be based on the quantity of water that can or actually does enter the public sewers but in no case shall it be less than the minimum charge for the class of user served. Plans and specifications for all such meters shall be submitted to the Superintendent of the Water Pollution Control Plant and approved prior to installation.
('74 Code, § 24-27) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.068 METERING OF SEWAGE.

The city may require a person to install and maintain at the user's expense an approved device to measure directly the volumes of wastes discharged to the sewer system if those volumes cannot otherwise be determined from the metered-water consumption records. The city shall inspect and approve such installation and no such services, once installed, shall be removed without the city's approval.
('74 Code, § 24-28) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.068.5. DEPOSIT TO ENSURE PAYMENT OF SEWER FEES; REFUNDS; FORFEITURES; USES.

(A) Pursuant to I.C. 36-9-23-28, City Utilities may require the owner, lessee, or user of property served by the Utility to pay a deposit to ensure payment of sewer fees.

(B) The deposit required shall equal the estimated average payment due from the property served by the Utility for a three (3) month period. Deposits shall be retained in a separate fund.

(C) The deposit, less any outstanding penalties and service fees, shall be refunded to the depositor after a notarized statement from the depositor that as of a certain date the property being served:

(1) Has been conveyed or transferred to another person; or

(2) No longer uses or is connected with any part of the municipal sewage system.

A statement under subdivision (1) must include the name and address of the person to whom the property is conveyed or transferred.

(D) If a depositor fails to satisfy costs and fees within sixty (60) days after the termination of his use or ownership of the property served, the deposit and all accrued interest is forfeited. The forfeited amount shall be applied to the depositor's outstanding fees. Any excess that remains due after application of the forfeiture may be collected in the manner set out in §§ 51.099 and 51.100 herein. A deposit may be used to satisfy all or part of any judgment awarded the municipality under this chapter.

(E) A deposit made under this section that has remained unclaimed by the depositdr for more than seven (7) years after the termination of the services for which the deposit was made becomes the property of City Utilities.
(Ord. G-07-97, passed 7-9-97)

§ 51.069 RESIDENTIAL USER CHARGES.

(A) *In city service charge.*

(1) In city. Charges for services rendered within the corporate boundaries of the City of Fort Wayne shall be based on metered water consumption, unless otherwise measured in accordance, with the following charges for this classification of service:

	Cents per 100 cu. ft.
Treatment	83.60
Conveyance, Collection, Billing	70.53
Capital	39.99
Total User Charge	194.12

(2) *In city billing charge.* Residential users inside the city shall be billed a monthly billing fee of $2.22.

(C) *User flat charges.* In the event that any user in this classification is not a metered water customer, there shall be imposed flat charge rates as follows:

Classification of Customer	Monthly Flat Charge (1)	
	In city	Outside city
Residential User- Single Family Dwelling	$15.68	$19.20
Residential User- Multi Family Dwelling	To be estimated by City	

(1) Monthly flat charges for multi-family dwellings shall be based on the number of family units accommodated by the system multiplied by the single family dwelling monthly charges. A 25% surcharge shall apply to the rates charged to users outside the city.

(2) The Utility shall retain documentation supporting its estimates and the billings.
('74 Code, § 24-30) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 10-24-00)

(B) *Outside city service charge.*

(1) *Outside city.* Charges for services rendered to residents outside the corporate boundaries of the City of Fort Wayne shall be based on metered water consumption, unless otherwise measured, in accordance with the following charges for this classification of service:

	Cents per 100 cu. ft.
Treatment	104.51
Conveyance, Collection, Billing	88.17
Capital	50.00
Total User Charge	242.68

(2) *Outside city billing charge.* Residential users residing outside the corporate boundaries of Fort Wayne shall be billed a monthly billing fee of $2.78.

Hereinafter "inside city" or "outside city" shall be read to distinguish users located within or outside the corporate boundaries of the City of Fort Wayne.

(C) *User flat charges.* In the event that any user in this classification is not a metered water customer, there shall be imposed flat charge estimated by the city. A 25% surcharge shall apply to the rate charged to such users located out the city.

('74 Code, § 24-31) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 0-24-00)

§ 51.070 INDUSTRIAL USER CHARGES.

(A) *Service charge.* Charges for services rendered shall be based on metered water consumption unless otherwise measured in accordance with the following charges for this classification of service:

Cents per 100 cu. ft.	Inside City	Outside City
Treatment	83.60	104.51
Conveyance, Collection, Billing	70.53	88.17
Capital	39.99	50.00
Total User Charge	194.12	242.68

(B) *User minimum charges and other fixed payments.* In the event the monthly sewage service charge calculated in accordance with the schedule above does not exceed the minimum monthly charge for each class of user set forth hereafter, user shall pay said minimum monthly charge, in lieu of the charge calculated based on water usage, as follows:

Water Meter Size (inches)	*Minimum Monthly Charge*
5/8 - 3/4	$ 4.96
1 - 1½	17.52
2	36.23
3	72.86
4	121.12
6 or larger	336.28

(C) *Other industrial user charges.*

	Inside City	Outside City
(1) Monthly billing charge -per bill:	$2.22	2.78.

(2) Excess strength of wastes surcharge - in the event an industrial user contributes waste having strength of sewage in excess of domestic waste characteristics, as hereinbefore defined, a surcharge based on the following unit process charges will be in effect for all waste found to be in excess of limitations:

	Cents Per Pound
Suspended Solids - (SS)	9.43
Biochemical Oxygen Demand - (BOD)	19.55
Phosphorus - (P)	132.71
Ammonia - (NH-3)	28.62

(D) *User flat charges.* In the even any user in this classification is not a metered water customer, there shall be imposed a flat charge estimated by the city. A 25% surcharge shall apply to the rate charged to such users located outside the city.

('74 Code, § 24-32) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am Ord. G-27-00, passed 10-24-00)

§ 51.071 COMMERCIAL USER CHARGES.

(A) *Service charge.* Charges for services rendered shall be based on metered water consumption, unless otherwise measured, in accordance with the following charges for this classification of service:

Cents per 100 cu. ft.	Inside City	Outside City
Treatment	83.60	104.51
Conveyance, Collection, Billing	70.53	88.17
Capital	39.99	50.00
Total User Charge	194.12	242.68

(B) *User flat charges.* In the event any user in this classification is not a metered water customer, there shall be imposed a flat charge rate estimated by the city. A 25% surcharge shall apply to the rate charged to users located outside the city.

Other commercial charges.

(1) Monthly billing charge - per bill.

(a) Inside city: $2.22.

(b) Outside city: $2.78.

(2) Excess strength.

(a) In the event any user under this classification contributes waste having a strength of sewage in excess of domestic waste characteristics as herein defined, such user will be charged for surveillance and surcharges as set forth elsewhere herein for industrial users, except as set forth in the following paragraph.

(2) Restaurants. Commercial users primarily engaged in the business of preparing and selling cooked food items and beverages shall pay an extra-strength surcharge of 50.73 cents per 100 cubic feet in lieu of those scheduled surcharges otherwise set forth herein. For the purposes of this chapter, a user qualified to hold a supplemental retailer's permit under I.C. 7.1-3-16.5-2(a) or (b) shall be presumed to fall within this category.
(Ord. G-17-91, passed 6-12-91; ; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 10-24-00)

§ 51.072 INSTITUTIONAL USER CHARGES.

(A) *Service charge.* Charges for services rendered shall be based on metered water consumption, unless otherwise measured, in accordance with the following charges for this classification of service:

Cents per 100 cu. ft.

	Inside City	Outside City
Treatment	83.60	104.51
Conveyance, Collection, Billing	70.53	88.17
Capital	39.99	50.00
Total User Charge	194.12	242.68

(B) *User flat charges.* In the event any user in this classification is not a metered water customer, there shall be imposed a flat charge estimated by the city. A 25% surcharge shall apply to the rate charged to users located outside the city.

(C) *Other institutional charges.*

(1) Monthly billing charge - per bill.

(a) Inside city: $2.22.

(b) Outside city: $2.78.

(2) In the event any user under this classification contributes waste having a strength of sewage in excess of domestic waste characteristics as herein defined, such user will be charged for surveillance and surcharges as set forth elsewhere herein for industrial users.
(Ord. G-17-91, passed 6-12-91; ; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 10-24-00)

§ 51.073 GOVERNMENTAL USER CHARGES.

(A) *Service charge.* Charges for services rendered shall be based on metered water consumption, unless otherwise measured, in accordance with the following charges for this classification of service:

Cents per 100 cu. ft.

	Inside City	Outside City
Treatment	83.60	104.51
Conveyance, Collection, Billing	70.53	88.17
Capital	39.99	50.00
Total User Charge	194.12	242.68

(B) *User flat charges.* In the event any user in this classification is not a metered water customer, there shall be imposed a flat charge estimated by the city. A 25% surcharge shall apply to the rate charged to users located outside the city.

(C) *Other governmental user charges.*

(1) Monthly billings charge - per bill.

(a) Inside city: $2.22.

(b) Outside city: $2.78.

(2) Excess strength. In the event any user under this classification contributes waste having a strength of sewage in excess of domestic waste characteristics as hereinbefore defined, such user will be charged for surveillance and surcharges as set forth elsewhere herein for industrial users.
(Ord. G-17-91, passed 6-12-91; ; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 10-24-00)

§ 51.074 CONTRACT CUSTOMERS - UNIT AND OTHER CHARGES.

(A) In the event the city consummates a contract to serve as a regional treatment plant for any other municipality or private sewage utility, either contiguous to the city or in its environs, said contract shall provide for the following unit charges:

Volume charge (cents per 100 cu. ft.).

Treatment	83.60

(B) *Variable charge (cents per 100 cu. ft.).* A variable charge for conveyance and collection costs attributable to each contract customer's portion of the conveyance system and operating costs associated therewith shall be computed by the city and added to the treatment cost to arrive at the contractee's total metered rate.

(C) *Flat charge.* In addition to the foregoing charge based on volume of sewage treated and conveyed each contract customer will pay a monthly billing charge of $2.22 and an appropriate monthly surveillance charge, as set out in § 51.078 herein, based on the type of testing necessary according to the contractee's customer base.

(D) *Excess strength of waste surcharge.* In the event a contract customer user contributes waste having a toxic strength in excess of domestic waste characteristics, as hereinbefore defined, a surcharge based on the following unit process charges will be in effect for all waste found to be in excess of limitations:

	Cents Per Pound
Suspended Solids - (SS)	9.43
Biochemical Oxygen Demand - (BOD)	19.55
Phosphorus - (P)	132.71
Ammonia - (NH-3)	28.62

(E) Where a contract calls for the payment of a capital charge, such shall be billed to the contract customer (Allen County Institutional Power Plant).

(F) *Capital surcharge.* In the event a contract customer delivers sewage for treatment to the city for a period of 90 consecutive days which is in excess of base MGD contracted for, then customer will be subject to a capital charge, computed at the rate per 100 cu. ft. in effect for outside the city customers set out elsewhere herein, times the excess percentage of MGD represented by dividing actual MGD by contracted MGD.

(G) *Other provisions.* In the event sewage received pursuant to any contract entered into under this section exceeds any of the limitations imposed by this chapter, the city shall have the right to impose all charges, limitations and penalties applicable to any non-contract user by the city. Each contract entered into by the city pursuant to the foregoing rate classification shall provide that the contract customer shall agree to enact and maintain a sewer use ordinance and user charge system acceptable to the city and in conformance with the city's obligations under Sec. 204 (b) (1), Public Law 92-500 as amended and supplemented, and guidelines and regulations promulgated thereunder by the U.S. Environmental Protection Agency and 40 CFR 35-905-8, 35-928-1 and 35-928-2 and 35-935-13.

('74 Code, § 24-33) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97; Am Ord. G-27-00, passed 10-24-00)

§ 51.075 BULK WASTE CHARGES.

(A) *Industrial:* For all industrial waste suitable for disposal which has been delivered by an approved Water Hauler to City's plant - $118.09 per load. For purposes of computing charges hereunder, a load is defined as 1,000 gallons of tank capacity or any fraction thereof.

(B) *Domestic:* For all domestic waste delivered to the city's plant by customer's truck or tank - $70.79 per load. For purposes of computing charges hereunder, a load is defined as 1,000 gallons of tank capacity or any fraction thereof.

(C) All bulk waste loads delivered to the Water Pollution Control Plant shall be accompanied by a "Waste Hauler Manifest," the form for which will be provided by the city.

(D) All bulk waste haulers shall also be assessed a billing charge of $2.22 per bill.

('74 Code, § 24-34) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-96, passed 2-27-96; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 10-24-00)

§ 51.076 LIABILITY FOR SURCHARGE.

Each user discharging wastes into the collection system shall be subject to a strength-of-wastes surcharge, in addition to other sewage service charges imposed by this chapter, based on the following minimum strength characteristics to the extent that such wastes are in concentrations greater than:

(A) Biochemical oxygen demand of 300 milligrams per liter.

(B) Chemical oxygen demand of 600 milligrams per liter.

(C) Suspended solids content of 300 milligrams per liter.

(D) Phosphorus content of 10 milligrams per liter.

(E) Ammonia content of 25 milligrams per liter.

('74 Code, § 24-36) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.077 COMPUTATION OF SURCHARGE.

The surcharge shall be determined as follows: The excess pounds of BOD or COD (whichever results in the higher charge) suspended solids, phosphorus and ammonia will each be computed by first multiplying the user's billing sewage volume measured in units of 100 cubic feet for the current billing period by the factor 0.0062321 and then multiplying this product by the difference between (a) the concentrations measured in milligrams per liter, of the BOD (or COD), suspended solids, phosphorus and ammonia respectively in the user's sewage and (b) the allowed concentrations set out in § 51.076. The surcharge for each constituent will then be determined by multiplying the excess pounds of each constituent by the appropriate rate of surcharge. In the event COD measurement is used, as hereinbefore provided, 50% of the excess pounds measured will be used to compute the equivalent BOD charge.

('74 Code, § 24-37) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.078 CONTINUING SURVEILLANCE SAMPLING/WASTE EVALUATION CHARGES.

(A) All users discharging wastes into the system requiring continuing surveillance sampling and waste evaluation shall be subject to the following fixed charge to cover the costs of such services per discharge point.

(1) Monthly evaluation charges.

(a) Type 1 Evaluation: $104.33

(b) Type 2 Evaluation: 153.58

(2) Evaluation charges - per occurence.

(a) Type 1 Evaluation: $313.00

(b) Type 2 Evaluation (includes metals): 460.75

(c) Grab compliance (FOG): 76.00

(d) Composite compliance: 190.00*

Plus applicable laboratory testing charges.

('74 Code, § 24-38) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.079 ANNUAL REVIEW OF SERVICE CHARGES AND SURCHARGES; REVISION OF CHARGES AND RATES.

Prior to May 1 of each year, the Chief Financial Officer of the city utilities and an independent certified public accountant employed for that purpose shall submit to the Board of Public Works a comparison of the calculated unit cost for flow, removal of BOD, suspended solids, ammonia and phosphorus from the Water Pollution Control Plant influent during the previous year with unit charges currently in effect, from which the Board shall determine whether the current service charges and surcharges are adequate or should be changed, and to request legislative enactment of said changes by the Common Council. The methodology used in developing this cost comparison shall include:

(A) A system including the distribution of the cost of operation and maintenance of the treatment works of the WPC utility to each user class in proportion to such user's contribution to the total waste loading of the treatment works. Factors such as strength, volume and delivery flow characteristics shall be considered and included as the basis for the user's contribution to insure a proportional distribution of operation and maintenance and replacement costs to each user class.

(B) Total annual service charges and surcharges collected from each individual user class shall be deemed sufficient if said charges have generated during the prior operating period sufficient revenue to offset the cost of all treatment works operation and maintenance provided by the utility, including cost of management, system repair and replacement, debt retirement and other costs incidental to the utility operation attributable to such class.
('74 Code, § 24-35) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

DELINQUENT ACCOUNTS; BILLING OF SERVICE CHARGES

§ 51.090 BILLING PERIOD.

(A) Charges for sewer services shall be computed and billed by the General Office of the City Utilities. Bills shall be rendered approximately monthly, unless additional billing is required to reflect customer changes, meter changes, service terminations, initial billings or is otherwise required to adjust billing cycles. For the purpose of this chapter, a month shall constitute 25-35 days. Service periods falling outside this parameter shall be prorated.

(B) Billings for sewer service shall be rendered with and shall be due and payable on the same due date as billings for water service to the same premises, if any, and if none, then within such billing cycle as the utility may determine.
('74 Code, § 24-40) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.091 LIABILITY FOR PAYMENT; EXAMINATION OF UTILITY RECORDS.

(A) Charges for sewer service shall be billed to the person being billed for water service, if any, unless by contract with the utility, another person assumes responsibility for payment. Notwithstanding billing to, and assumption of responsibility by any person, charges for sewer service shall remain the responsibility of the owner of the real estate, who shall hold the utility harmless from any loss occasioned by the delinquency of the person billed, including all penalties, recording fees, attorney's fees, interest, and court costs, if any.

(B) The owner of the real estate or person billed shall have the right to examine the utility's records of billing and collection to ascertain whether such charges have been paid, and the amount thereof.

(C) Nothing herein contained shall permit any person other than the owner, or the person being billed, to inspect, examine or otherwise obtain confidential information including the payment/credit history, income, employment, finances or social security number of the person being billed.
('74 Code, § 24-41) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.092 FIRST BILLINGS.

The rates, charges and surcharges fixed in this chapter shall extend to and cover any additional premises hereafter served, without hearing or notice. If the first billing to a new user covers a period other than a full billing month, then the charges for sewer service for such billing shall be made in accordance with standard practice employed by the city's water utility.
('74 Code, § 24-42) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.093 CITY SUBJECT TO CHARGES.

For sewer services rendered to the city, or any department, structure, or property, thereof, the city shall be subject to the same rates and charges herein established for other persons, or to rates and charges established in harmony herewith.
('74 Code, § 24-43) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.094 CONSOLIDATION OF ACCOUNTS.

Where an industrial, commercial or other non-residential enterprise is operating in a unified manufacturing or service arena composed of two or more contiguous parcels of real estate and is supplied with water through two or more meters, upon application by the owner or his authorized agent, a consolidation of the wager meter readings may be made for the purpose of calculating the sewer service charge.
('74 Code, § 24-44) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.095 NOTICE OF CAPITAL SURCHARGE.

The City Clerk shall certify a copy of Special Ordinance No. 2-233-81, enacted October 28, 1981, and all amendments thereto, heretofore or hereafter adopted, and shall record such certified copy in the Office of the Recorder of Allen County, Indiana to provide constructive notice to the owners and purchasers of real property in Adams Township and St. Joseph Township that a capital surcharge may be imposed upon properties connected to, or to be connected to, the city utility sewer system, in those areas of said townships formerly served by sewer system purchased or otherwise acquired by the city utility.
('74 Code, § 24-45) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.096 DELINQUENT ACCOUNTS; PENALTIES.

Charges for sewer service levied pursuant to this chapter shall be due and payable on or before the due date stated on the bill. Any charge for sewer and/or stormwater service not paid by the due date shall be delinquent, and may be collected, with any applied penalty, recording fees, service charges, attorney's fees, interest and court costs, if any, in accordance with this chapter and with IC 36-9-23-31 through 36-9-23-34. A penalty of 10% of the amount of the charges for sewer service and/or stormwater service shall be attached to the delinquent charges.
('74 Code, § 24-46) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.097 TERMINATION OF WATER SERVICE DUE TO DELINQUENCY.

Where the property having a delinquent account for charges for sewer service is served by the city's water utility, the utility may, after reasonable notice to the person being billed, as provided by the rules and regulations of the utility adopted by the Board of Public Works, shut off water service to the property. Water service shall not be restored until the delinquent account, together with any required deposit and the costs of turning off/turning on the water, shall have been paid.
('74 Code, § 24-47) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.098 TERMINATION OF SEWER SERVICE DUE TO DELINQUENCY.

In addition to all other remedies provided, the utility may, after reasonable notice to the person being billed, as provided by the rules and regulations of the utility adopted by the Board of Works, terminate sewer service to the property. Sewer service shall not be restored until the delinquent account, together with the costs of terminating and reconnecting service, shall have been paid.
('74 Code, § 24-48) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.099 DELINQUENT FEES AND PENALTIES AS LIENS; DUPLICATES; COLLECTION.

Delinquent charges for sewer services and/or stormwater services, and applied penalties, recording fees and service charges may be made a lien upon the property when the delinquent party is the property owner and may be collected in accordance with the provisions of I.C. 36-9-23-31, 36-9-23-32 and 36-9-23-33.
('74 Code, § 24-49) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.100 COLLECTION THROUGH COURT ACTIONS.

In addition to the foregoing remedies, the city may recover the amount of the charges for sewer

services, penalties of 10% of the delinquent fees and reasonable attorney's fees in a civil action, and may foreclose liens established by this chapter in accordance with I.C. 36-9-23-34.
('74 Code, § 24-50) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

ADMINISTRATION AND ENFORCEMENT

§ 51.110 RULES AND REGULATIONS; BOARD OF WORKS AUTHORITY.

The Board of Public Works of the city shall, in accordance with the statutes of the state, and subject to the provisions and requirements of this chapter, make and enforce appropriate rules and regulations for the safe, economical and efficient management and operation of the city's sewage works, for the construction and use of sewers, building sewers, appurtenances and connections to the sewer system; for the regulation, collection and refunding of rates and charges for sewer service; and for the implementation and enforcement of the provisions of this chapter.
('74 Code, § 24-2) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94)

§ 51.111 ENFORCEMENT.

Those provisions of this chapter not specifically dealt with elsewhere shall be enforced by the Director of City Utilities and such deputies as Director, with the approval of the Board of Public Works, may be appointed for such purposes. Whenever said Director or any such deputy shall deem it appropriate to charge any person with a violation(s) of this chapter, he shall issue to such person a Notice of Violation and/or Summons, which shall be processed according to the provisions of IC 34-28-5 and sewer rules and regulations, or pursuant to an ordinance adopted in accordance with I.C. 36-1-6-9.
('74 Code, § 24-6) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.112 SEWER WORKS IMPROVEMENT FUND.

The City Controller shall establish and maintain, for as long as user charges and surcharges are collected under the rate schedule instituted herein, accounts for the Sewer Works Improvement Fund as required by prior ordinances relating to the issuance of sewer works revenue bonds now outstanding and further in accordance with the laws of the State of Indiana relative to the deposit and disbursement of public funds.
('74 Code, § 24-52) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.999 PENALTY FOR VIOLATION.

Any person who violates or fails to comply with any provision of this chapter or of the rules and regulations of the Board of Public Works or administrative orders pertaining thereto, shall be subject to a fine of up to $2,500 per day as set out at § 10.99 of the City of Fort Wayne Code of Ordinances or as otherwise provided by IC 34-28-5. Each day that such violation(s) or noncompliance continues shall constitute a separate offense.
('74 Code, § 24-7) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

EXHIBIT C-4

Memorandum

DONOHUE & ASSOCIATES

Date: Friday, August 20, 2004

To: Pat Callahan, PE

Copy: Jim Cornell

From: Kenneth L. Sedmak

Re: City of Fort Wayne Significant Industrial Users Impact on CSO

After discussing the low dissolved oxygen issue with Pat Callahan, Pat requested that Donohue provide a matrix to attempt to identify why a low dissolved oxygen value was recorded in the rivers that flow through Fort Wayne. The low dissolved oxygen values were identified in a report from a study to determine the impact on the rivers of significant industrial users discharge during a CSO event.

On August 17, 2004 Jim Cornell and I discussed the low dissolved oxygen issue that occurred around August 12, 2002 and in 2003 on the St. Mary's River at the Spy Run Bridge Station No. 5. Jim explained that the City of Fort Wayne tests for dissolved oxygen and other parameters as well as samples river water on a weekly basis. The testing is then recorded and information is provided and has been used for the report for this project.

This memorandum puts forth a start to investigate the low dissolved oxygen issue.

Our initial premise is that the low dissolved oxygen came from one of the following three sources:

1. Low pool level in the river allowed for stagnant conditions and bottom sediment degrading causing a low dissolved oxygen.
2. A discharge of some pollutant from the Spy Run Creek water shed.
3. A discharge of waste upstream of Spy Run Creek, potentially the third street CSO pump station.

In order to determine if any of these issues occurs again, we have decided to implement additional dissolved oxygen testing. The City will conduct dissolved oxygen testing and additional sampling on the Harrison Street Bridge, Spy Run Creek Bridge, and continue on the Spy Run Avenue Bridge. Additionally, dissolved oxygen testing will be done five days a week at all one of these three locations. In addition to dissolved oxygen testing, river and creek level will be recorded along with any other general observations.

If low dissolved oxygen is noted on the St. Mary's River at Spy Run Avenue bridge, as well as the Spy Run Creek, then additional investigation upstream on the Spy Run Creek will be done by the City. If dissolved oxygen level is low on the Spy Run Avenue bridge and not on Spy Run Creek, then additional investigation will be done up river on the St. Mary's River.

Since the low dissolved oxygen reading on August 12, 2002 occurred when the river was its lowest level, it is important that the City conduct this analysis during August of 2004 at the low river stage. The

condition of low river stage is present now and therefore the City will implement daily dissolved oxygen testing beginning on August 18, 2004.

As analysis and observations are made, changes to and adjustments of this investigation will be done. If no low dissolved oxygen is found during the low pool period of the river, daily dissolved oxygen testing may be eliminated. Weekly testing at Spy Run Creek and at Harrison Street Bridge should continue to ensure that the low dissolved oxygen issue may have been either an anomaly or a one time occurrence without explanation.

The City may consider continuous dissolved oxygen monitoring at specific locations, if low dissolved oxygen is found. Also, a dissolved oxygen profile across the rivers may be important to ensure a representative dissolved oxygen value in the river.

IDEM River Exceedences	Date	Station	Hardness	Limit (CCC)	Limit (CMC)	Sample
Dissolved Oxygen	6/16/2003	4		< 4.0 mg/L	< 4.0 mg/L	3.11 mg/L
		5		< 4.0 mg/L	< 4.0 mg/L	3.14 mg/L
		7		< 4.0 mg/L	< 4.0 mg/L	3.64 mg/L
		8		< 4.0 mg/L	< 4.0 mg/L	3.56 mg/L
Copper	7/21/2003	5	159	13.85 ug/L	21.66 ug/L	18.7 ug/L
		8	209	17.51 ug/L	28.03 ug/L	26.4 ug/L
Lead	7/21/2003	5	159	11.61 ug/L	221.44 ug/L	17.5 ug/L
		6	194	14.94 ug/L	284.94 ug/L	15.0 ug/L
		8	209	16.43 ug/L	313.31 ug/L	25.6 ug/L
Mercury	Testing not performed to standard limit			.0012 ug/L	.0012 ug/L	<0.2 ug/L

FTW River Exceedences	Date	Station	Hardness	Limit (CCC)	Limit (CMC)	Sample
Dissolved Oxygen	8/12/2002	St. Mary's @ Spy Run		< 4.0 mg/L	< 4.0 mg/L	1.9 mg/L
	8/26/2002	St. Mary's @ Spy Run		< 4.0 mg/L	< 4.0 mg/L	2.69 mg/L
	9/23/2002	St. Mary's @ Spy Run		< 4.0 mg/L	< 4.0 mg/L	0.77 mg/L
	9/30/2002	St. Mary's @ Spy Run		< 4.0 mg/L	< 4.0 mg/L	3.21 mg/L
	6/16/2003	St. Mary's @ Ferguson		< 4.0 mg/L	< 4.0 mg/L	3.11 mg/L
		St. Mary's @ Spy Run		< 4.0 mg/L	< 4.0 mg/L	3.14 mg/L
		St. Joe's @ Tennessee		< 4.0 mg/L	< 4.0 mg/L	4.22 mg/L
		Maumee @ Landin		< 4.0 mg/L	< 4.0 mg/L	3.64 mg/L
	7/7/2003	St. Mary's @ Ferguson		< 4.0 mg/L	< 4.0 mg/L	2.78 mg/L
		Maumee @ Landin		< 4.0 mg/L	< 4.0 mg/L	2.84 mg/L
	7/15/2003	St. Mary's @ Ferguson		< 4.0 mg/L	< 4.0 mg/L	1.38 mg/L
		St. Mary's @ Spy Run		< 4.0 mg/L	< 4.0 mg/L	1.43 mg/L
		Maumee @ Anthony		< 4.0 mg/L	< 4.0 mg/L	2.77 mg/L
		Maumee @ Landin		< 4.0 mg/L	< 4.0 mg/L	2.74 mg/L
	8/4/2003	St. Mary's @ Ferguson		< 4.0 mg/L	< 4.0 mg/L	2.3 mg/L
		St. Joe's @ Mayhew		< 4.0 mg/L	< 4.0 mg/L	3.32 mg/L
		St. Joe's @ Tennessee		< 4.0 mg/L	< 4.0 mg/L	3.45 mg/L
		Maumee @ Landin		< 4.0 mg/L	< 4.0 mg/L	2.66 mg/L
Phosphorus	5/5/2003	St. Mary's @ Ferguson			1.0 mg/L	1.38 mg/L
		St. Mary's @ Ferguson			1.0 mg/L	1.904 mg/L
		St. Mary's @ Spy Run			1.0 mg/L	1.248 mg/L
		St. Joe's @ Mayhew			1.0 mg/L	1.426 mg/L
		Maumee @ Anthony			1.0 mg/L	1.131 mg/L
		Maumee @ Landin			1.0 mg/L	1.133 mg/L

City of Fort Wayne
Saint Marys Dissolved Oxygen Project 2004
Saint Marys River @ Spy Run Avenue

Wk	Date	D.O.	Temp F	Depth	Weather	Third St.	
1	08/23/04	6.74			Dry		
	08/24/04	6.40	68		Dry		
	08/25/04	7.45	74	8.9	Dry		
	08/26/04	6.87	73	9.4	Dry		
	08/27/04	6.29	74	9.1	Dry		
2	08/30/04	6.25	69	10.9	Dry		
	08/31/04	6.22	70	10.3	Dry		
	09/01/04	6.02	70	10.6	Dry		
	09/02/04	5.90	68	10.0	Dry		
	09/03/04	5.90	69	10.1	Rain		
3	09/07/04	5.77	71	10.4	Dry		
	09/08/04	6.06	70	9.5	Dry		
	09/09/04	6.14	68	8.7	Dry		
	09/10/04	6.06	69	8.9	Dry		
4	09/13/04	6.23	68	9.9	Dry		
	09/14/04	16.12	76	8.9	Dry		
	09/15/04	9.36	72	6.5	Dry		
	09/16/04	8.94	71	4.4	Dry		
	09/17/04	12.62	70	3.9	Dry		
5	09/20/04	16.50	66	4.0	Dry		
	09/21/04	13.23	64	3.9	Dry		
	09/22/04	16.63	67	3.2	Dry		
	09/23/04	13.75	66	4.1	Dry		
	09/24/04	16.51	69	3.3	Dry		
6	09/27/04	10.56	65	3.5	Dry		
	09/28/04	11.00	64	4.0	Dry		
	09/29/04	10.46	63	4.2	Dry		
	09/30/04	10.04	60	3.5	Dry		
	10/01/04	12.53	61	3.8	Dry		
7	10/04/04	12.21	57	4.2	Dry		
	10/05/04	11.89	56	4.0	Dry		
	10/06/04	13.48	58	7.1	Dry		
	10/07/04	13.65	60	8.7	Dry		
	10/08/04	18.13	60	8.6	Dry		
8	10/11/04	14.70	58	9.0	Dry		
	10/12/04	14.03	59	8.4	Dry		
	10/13/04	13.25	58	8.5	Dry		
	10/14/04	13.66	58	8.6	Dry		
	10/15/04	10.52	57	8.4	Wet		
9	10/18/04	8.42	51	9.0	Wet		
	10/19/04	7.87	48	8.4	Dry		
	10/20/04	7.16	48	9.4	Dry		
	10/21/04	6.10	51	9.0	Dry		
	10/22/04	7.66	52	7.7	Dry		
	Max.	18.13	76	10.9			
	Min.	5.77	48	3.2			
	Avg.	10.12	63.86	7.31			

City of Fort Wayne
Saint Marys Dissolved Oxygen Project 2004
Saint Marys River @ Spy Run Avenue

Wk	Date	D.O.	Temp F	Depth	Weather	Third St.	
10	10/25/04	6.89	54	6.0	Dry		
	10/26/04	7.40	55	5.7	Dry		
	10/27/04	8.31	57	5.3	Dry		
	10/28/04	7.50	56	5.0	Dry		
	10/29/04	7.08	58	5.4	Dry		
11	11/01/04	6.13	55	5.0	Wet		
	11/02/04	6.51	55	5.3	Wet		
	11/03/04	6.56	53	5.3	Dry		
	11/05/04	7.95	50	8.3	Dry		
12	11/08/04	na	na	na	Dry		
	11/09/04	9.38	47	6.2	Dry		
	11/10/04	9.76	46	6.2	Dry		
	11/12/04	10.18	44	5.0	Dry		
13	11/15/04	na	na	na	Dry		
	11/16/04	9.92	43	5.2	Wet		
	11/18/04	9.47	49	4.9	Dry		
14							
15							
16							
17							
18							
	Max.	10.18	58	8.3			
	Min.	6.13	43	4.9			
	Avg.	8.07	51.57	5.63			

Sample Date: _____

SIU Impact Study
St. Marys River D.O. Project
Water Depth Worksheet

	Benchmark	Distance	Depth (feet)
SM @ Spy Run	32.0		
SM @ Harrison	33.8		
SRC @ Lawton	15.5		
MA @ Tecumseh	34.9		

Benchmark - Distance = Depth

Weather: Dry Wet Comments: _____

Signed: _____

9/21/2004

Discharging SIUs January 2002-December 2003

Highlighted companies are SIUs with potential to impact CSOs as of September 2004.

PERMIT	COMPANY	FACILITY ADDRESS	Permit Effective Date	Permit Expiration Date	Modified Permit Date	Closed Permit Date
01801	Cintas Corp.	3201 Brooklyn Avenue	7/31/03	7/31/08		
08521	Creative Coatings	7505 Freedom Way	10/6/00	10/6/04		
04301	Crown Group, F.W. Plant	4301 Engle Road	2/26/99	2/26/04		
02401	Edy's Grand Ice Cream	3426 North Wells Street	9/18/03	9/18/08		
03101	Fort Wayne Anodizing	2535 Wayne Trace	1/30/04	1/30/09		
03102	Fort Wayne Anodizing	2535 Wayne Trace	1/30/04	1/30/09		
03301	Fort Wayne Newspapers	600 West Main Street	8/14/03	8/14/08		
03371	Fort Wayne Reduction Site	5225 Old Maumee Road	8/31/03	8/31/08		
03501	Franke Plating Works, Inc.	2109 E. Washington Blvd	10/31/03	10/31/08		
05701	Fujicolor Processing	3420 North Wells Street	10/31/03	10/31/08	**non - major**	note 1
03802	General Electric Company	1635 Broadway	9/1/03	No Discharge		note 2
03803	General Electric Company	1701 College Street	9/1/03	No Discharge		note 3
03807	General Electric Company	2000 Taylor St.	1/1/00	12/31/04		
03701	General Motors Corporation	12200 Lafayette Ctr. Rd.	12/18/03	12/18/08		
03921	Harris Kayot, Inc.	2801 West State Blvd.	7/31/03	7/31/08		
01551	Hospital Laundry Service, Inc.	3322 Cavalier Drive	9/25/03	9/25/08		
04501	ITT Industries	7310 Innovation blvd.	2/19/04	2/19/09	**non - major**	note 4
04661	Johnson Controls	8710 Indianapolis Rd.	8/1/99	7/31/04		
10101	Karl Schmidt Unisia	2425 S. Coliseum Blvd.	2/6/04	No Discharge		note 5
10102	Karl Schmidt Unisia	2425 S. Coliseum Blvd.	7/31/00	7/31/05		
05301	Lincoln Foodservice Products	1111 North Hadley Rd	8/21/03	8/21/08		
04621	Olde York Potato Chips	918 West Cook Road	9/11/03	9/11/08		
06661	Metaldyne Forming Technologies	6710 Innovation Blvd.	6/30/03	6/30/08		
05831	Metal Plate Polishing Co.	2413 Meyer Road	10/6/00	10/6/04		
NH00051	Parker Hannifin Corporation	10801 Rose Ave.	8/10/00	8/10/05	**Dec-01**	
00801	Prairie Farms	3400 Northrop (46805)	9/18/03	9/18/08		
01801	Slater Steel	2400 West Taylor St.	8/31/03	8/31/08		
08551	Three Rivers Gold	1506 Wall Street	2/19/99	2/19/04	**Jul-00**	
08603	Tokheim Corporation	1600 Wabash Avenue	10/1/99	9/30/04		
08801	TriTech Mfg. Inc.	2728 Commercial Road	8/31/03	8/31/08		
09401	Valspar Corp	202 Jacobs Avenue	12/11/98	12/11/03		3/1/02
09451	Van Dyne Crotty, Inc.	3115 Independence Dr	9/18/03	9/18/08		
09551	Venture Powder Coaters	517 Southview Ave.	6/16/00	6/16/05	**May-01**	
09601	Wayne Black Oxide	4505 Executive Blvd.	8/31/03	8/31/08		
09901	Wayne Metal Protection	1511 Wabash Avenue	10/31/03	10/31/08		
01201	White Electronic Designs	8000 Bluffton Road	12/31/03	12/31/08		

Note 1: Facility bacame non - major effective with current permit

Note 2: Facility became "no discharge" effective with current permit

Note 3: Facility became "no discharge" effective with current permit

Note 4: Facility bacame non - major effective with current permit

Note 5: Facility became "no discharge" effective with current permit

Rev 9-30-04

Crown Group 2004 Exceedences Test	Date	Limit (Daily Max) (mg/L)	Sample (mg/L)
Chemical Oxygen Demand	8/27/2004	600	2228
Nickel	2/23/2004	3.00	3.94
Nickel	3/17/2004	3.00	3.49
Nickel	5/6/2004	3.00	32.9
Nickel	5/7/2004	3.00	28.9
Nickel	11/23/2004	3.00	3.76
Total Phosphorus	5/6/2004	10	52
Zinc	1/6/2004	2.56	3.19
Zinc	5/6/2004	2.56	30.2
Zinc	5/7/2004	2.56	27.6
Zinc	8/17/2004	2.56	16.18
Zinc	8/19/2004	2.56	15.6
Zinc	11/23/2002	2.56	3.89

ips/rivers/siu impact study 2004

APPENDIX A

Fort Wayne City Utilities

Industrial Pretreatment Program

FORT WAYNE CITY UTILITIES

INDUSTRIAL PRETREATMENT PROGRAM

General Description

Fort Wayne is the largest residential and industrial community in northeastern Indiana and operates a 60 MGD activated sludge wastewater treatment plant having advanced waste treatment. The POTW is a regional plant serving Fort Wayne, New Haven, Leo-Cedarville, Grabill, Huntertown, Zanesville, and the Allen County Regional Water and Sewer District.

The original plant was built in 1940 and has had updates completed in 1959, 1971, and 1978. Combined sewer overflow facilities were added in 1972 and advanced waste treatment in 1983. Combined sewer overflow and infiltration/inflow studies were carried out during the 1970s and the City has had ongoing programs of sewer renovation, separation, and extension.

The POTW currently treats, on average, 48 MGD of which 7.5 MGD is contributed by 33 significant industries in the service area. Of these, 20 industries are subject to categorical pretreatment standards. The remaining 13 significant industries meet the definition found at 40 CFR 403.3 (t) (1) (ii).

During the mid-1950s, phenolic compounds from the wire drawing industry were a major problem, as well as metals and cyanides from the electroplating industry. Operational problems at the POTW related to industrial discharges have been minimal since the advent of industrial monitoring in the early 1970s. The City now enforces its sewer use ordinance with much success to continually reduce pollutants entering the system.

Program Development

The City of Fort Wayne has had a sewer use ordinance and an industrial surveillance program since the early 1970s to protect the biological processes of the treatment plant and the quality of its discharges.

The City's NPDES permit was modified in 1979 requiring the City to develop a pretreatment program. Activities 1, 2, 3, and 4a were submitted on July 27, 1979. The remainder of Activities 4 and 5 were submitted on October 30, 1979. The program was approved and incorporated into the NPDES permit in 1986.

Evaluation of Legal Authority

In the opinion of the City Attorney, the City of Fort Wayne has adequate powers as delegated by the provisions of Chapter 51 of the Municipal Code to enforce the pretreatment program as prescribed in 40 CFR 403.8(f)(1).

Development of Monitoring/Enforcement Program

The monitoring and enforcement program has been in effect for several years. In the early 1970s the program consisted of industrial monitoring and enforcement on the large industrial accounts. During the mid-1970s, additional personnel were added and additional industrial accounts were monitored along with a number of commercial accounts.

The initial monitoring and enforcement program met the requirements specified in 40 CFR 403 when it was promulgated in 1977. Today's program meets or exceeds the guidelines outlined in this regulation.

Program Implementation

Personnel

The Industrial Pretreatment Section (IPS) currently consists of three fulltime staff. The Supervisor of Water Quality is charged with overall program administration. This includes supervision of the field crew, issuing Industrial Wastewater Discharge permits, reviewing self-monitoring and compliance reports, issuing non-compliance orders and notices of violation, calling hearings, and issuing court summons.

The Industrial Pretreatment Coordinator and Industrial Pretreatment Inspector are the remainder of the fulltime pretreatment staff. The Pretreatment Coordinator and Inspector report to the Supervisor of Water Quality and are responsible for the collection of samples, reviewing of industry reports, data tracking, and facility inspections.

The POTW laboratory consists of four chemists and performs most of the analytical work required by the pretreatment program in accordance with methods specified in 40 CFR 136. The laboratory is a self-managed team reporting to the plant superintendent.

Ordinance

Chapter 51 of the Fort Wayne Municipal Code contains our sewer use ordinance and was developed to control discharges to the municipal sewer system. The ordinance is designed to protect the POTW from harmful discharges of toxic materials which: (a) will interfere with the operation of the POTW, including beneficial use of biosolids, or (b) will pass through the POTW into the receiving stream.

Procedures

To ensure that the industrial survey remains updated, IPS participates in the review process for the issuance of building construction permits, receives notification of new or changed industrial and commercial accounts from the City's billing information system manager, and participates with the local Chamber of Commerce.

IPS regularly reviews the Federal Register and scrutinizes the publication for any changes in the regulations pertaining to pretreatment, solid waste disposal, and hazardous waste. When changes are found or new regulations are promulgated, affected industries are notified of the changes. In the event of the promulgation of a new categorical standard, affected industries are notified to submit a Baseline Monitoring Report.

The City has a vigorous enforcement and monitoring program which requires self-monitoring and reporting by all significant industrial users (SIUs) as outlined in 40 CFR 403.12. Should an industry be required to install, modify, or up-grade its pretreatment facilities, they are required to submit all plans and specifications for review and approval prior to construction.

Compliance monitoring samples are collected from all SIUs as required under 40 CFR 403.8 (f) (2) (v). These samples are composites and grabs taken of the discharge effluent at a point determined by the City to provide representative samples. Should any parameters tested show non-compliance with permitted limits, the procedures outlined in the Enforcement Response Plan are followed. Failure to comply with any order of non-compliance or a notice of violation results in escalated enforcement per the Enforcement Response Plan.

Annual physical inspections are made at each SIU to check operating records, ensure proper operation of pretreatment facilities, and to verify that the information provided by the user is accurate.

All records of analytical data, compliance schedules, required reports, orders of non-compliance, and court actions are kept in the IPS office and are retained for a minimum of 3 years. These records are open to review by representatives of the USEPA or the IDEM at all times. Public access to the records contained in user files may be obtained through Freedom of Information Act requests but will not include access to any information meeting the definition of confidential under 40 CFR 2.

IPS publishes legal notices in the daily local newspapers to comply with the requirement to publish the list of SIUs that were determined to be in significant non-compliance during the prior 12-month reporting period.

APPENDIX B

Fort Wayne Public Works

Code of Ordinances: Chapter 51 Sewers

CHAPTER 51: SEWERS

Section

General Provisions

51.001 Definitions
51.002 Damage to city property prohibited
51.003 Dilution
51.004 Accidental discharges

Connections and Extensions

51.015 Requirements for connection to public sewers
51.016 Extensions of sewers outside corporate limits
51.017 Connections to sewer system by certain properties outside corporate limits

Commercial and Industrial Wastes and Discharges

51.030 Prior approval for certain wastes
51.031 Pretreatment facilities; approval of proposed plans; operation
51.032 Federal pretreatment standards
51.033 Prohibited discharges and limitations
51.034 Responsibility for obstruction or damage to sewers
51.035 Submission of data on industrial waste
51.036 Confidential information
51.037 Control manholes
51.038 Grease and sand traps
51.039 Inspections; waste sampling
51.040 Waste analysis procedures and charges
51.041 Use of representative analysis

Private Sewage Disposal

51.050 Definitions
51.051 Sewage disposal
51.052 Construction requirements of private sewage disposal systems
51.053 Construction permit
51.054 Installers registration
51.055 Inspection
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Editor's note: *Ord. G-17-91 and amending Ord. G-25-91 and Ord. G-35-92 made substantive changes to the sections of this chapter where they are recorded in the section history. These ordinances are not included in the section history where the section was only renumbered using the enumeration of the 1974 Code, which is obsolete in this edition of the code of ordinances.*

GENERAL PROVISIONS

§ 51.001 DEFINITIONS.

Unless the context specifically indicates otherwise, the meanings of the following terms as used in this chapter and as used in the Rules and Regulations adopted by the Board of Public Works implementing the provisions of this chapter for the Fort Wayne sewer system are as set out below respectively:

ACT. The Federal Water Pollution Control Act, also known as "The Clean Water Act," as amended, 33 U.S.C. 466, as referred to at IC 13-18-13.

APPLICABLE PRETREATMENT STANDARDS. Any pretreatment limit or prohibitive standard (federal, state and/or local) contained in the ordinance and considered to be the more restrictive with which non-domestic users shall be required to comply.

BIOCHEMICAL OXYGEN DEMAND (BOD). The quantity of dissolved oxygen, in milligrams per liter, required during the stabilization of the decomposable organic matter by aerobic biochemical action of sewage, sewage effluent, polluted waters or industrial wastes under standard laboratory procedures for five days at 20° centigrade. The laboratory determinations shall be made in accordance with procedures set forth in 40 CFR 136.

BUILDING (OR HOUSE) DRAIN. That part of the lowest piping of a drainage system which receives the discharge from soil, waste and other drainage pipes inside the walls of the building and conveys it to the building sewer.

(1) ***COMBINED.*** A building drain which conveys both sewage and storm water or other drainage.

(2) ***SANITARY.*** A building drain which conveys sewage only.

(3) ***STORM.*** A building drain which conveys storm water or other drainage, but not sewage.

BUILDING (OR HOUSE) DRAIN CONNECTION. The point where the building (or house) sewer is connected to the building drain at a location approximately three feet outside the foundation wall of the building.

BUILDING (OR HOUSE) SEWER. That part of the drainage system which extends from the end of the building drain and conveys its discharge to a public sewer, private sewer, individual sewage disposal system or other point of disposal.

(1) ***COMBINED.*** A building sewer which conveys both sewage and storm water or other drainage.

(2) ***SANITARY.*** A building sewer which conveys sewage only.

(3) ***STORM.*** A building sewer which conveys storm water or other drainage, but not sewage.

BUILDING (OR HOUSE) SEWER CONNECTION. The point where the building sewer is connected to the public sewer. This connection to the public sewer may be accomplished as follows:

(1) Where a tap-in connection is employed, the point of connection shall be where the end of the building sewer meets the inside face of the sewage system and the tapping "saddle and/or joint" shall be considered part of the building sewer.

(2) Where fittings (T's or Y's) are employed the connection shall be where the end of the first pipe meets the end of the fitting and the said T or Y fitting shall be considered a part of the building sewer.

CATEGORICAL INDUSTRY. An industry whose effluent is regulated by 40 CFR 403.6.

CATEGORICAL PRETREATMENT STANDARD OR NATIONAL STANDARD. Any regulation containing pollutant discharge limits promulgated by the U.S. EPA in accordance with Section 307(b) and (c) of the Act (33 U.S.C. 1317) which apply to a specific category of industrial users which appear in 40 CFR Chapter I, Subchapter N Part 405-471.

CHEMICAL OXYGEN DEMAND (COD). A measure of oxygen equivalent to that portion of the organic matter in a sample of sewage, sewage effluent, polluted waters or industrial wastes that is susceptible to oxidation by a strong chemical oxidant. The laboratory determinations shall be made in accordance with procedures set forth in 40 CFR 136.

CITY. The City of Fort Wayne, Indiana.

CLASSIFICATION OF USERS.

(1) ***RESIDENTIAL USERS.*** Includes any user of the city's treatment works whose lot, parcel or real estate or building is used for domestic dwelling purposes only.

(2) ***COMMERCIAL USER.*** Includes all retail stores, restaurants, office buildings, laundries and other private business and service establishments, including those identified in the Standard Industrial Classification Manual, 1972, Office of Management and Budget Division I - Services.

(3) ***INDUSTRIAL USER.*** Includes any user of the city's treatment works which is identified in the Standard Industrial Classification manual, 1972, Office of Management and Budget, as amended and supplemented, under the following divisions; Division A-Agriculture, Forestry and Fishing; Division B-Mining; Division D-Manufacturing; Division E-Transportation, Communications, Electric, Gas and Sanitary. ***INDUSTRIAL USERS*** shall be classified as follows:

(a) ***NON-DISCHARGE USERS.*** Includes all industries which discharge sanitary sewage only, and industrial users whose discharge is limited to non-contact cooling water, or boiler blowdown water.

(b) ***NON-MAJOR INDUSTRIAL USER.*** Includes all industries which discharge process water but do not meet the criteria of ***SIGNIFICANT INDUSTRIAL USERS.***

(c) ***SIGNIFICANT INDUSTRIAL USERS (SIU).*** Includes all industries comprised of categorical and non-categorical industries and shall further be defined as set out at 40 CFR 403.3(t).

(4) ***INSTITUTIONAL USER.*** Includes social, charitable, religious and educational activities such as schools, churches, hospitals, nursing homes, penal institutions and similar institutional users.

(5) ***GOVERNMENTAL USER.*** Includes legislative, judicial, administrative and regulatory activities of federal, state and local governments.

COMPLIANCE SAMPLE. A sample taken of a user's effluent approximately 30 days after a violation of this chapter, the user's permit or the federal pretreatment standards and regulations has been discovered or reported. The user shall be billed for any compliance sample taken.

COMPOSITE SAMPLE. The sample resulting from the combination of discrete wastewater samples taken at selected intervals while the discharge rate is at or above normal based on an increment of either flow or time. Time intervals between discrete samples not to exceed two hours. The total duration of collection shall not exceed 24 hours.

DWELLING. A building, or portion thereof, under one roof used primarily as the abode of one or more persons, but not including hotels, motels, lodging or boarding houses or tourist homes.

EFFLUENT. The water, together with any wastes that may be present, flowing out of a drain, sewer receptacle or outlet.

EMERGENCY. An unforeseen circumstance or combination of circumstances that may cause an eminent endangerment to the health and/or welfare of persons, the environment, or which may interfere with the operation of the sewer collection system or the Water Pollution Control Plant.

FOLLOW-UP SAMPLE. A sample taken of a user's effluent at the city's discretion from a user receiving scheduled sampling, at times other than those regularly scheduled. A follow-up sample shall be done at no cost to the user.

GARBAGE. Any solid wastes from the preparation, cooking or dispensing of food or from the handling, storage or sale of produce.

GRAB SAMPLE. An individual discrete effluent sample collected over a period of time not to exceed 15 minutes.

GROUND GARBAGE. Garbage that is shredded to such a degree that all particles will be carried freely in suspension under the conditions normally prevailing in public sewers, with no particle being greater than one-half inch in any dimension.

INDIRECT DISCHARGE. The introduction of pollutants into the sewer system from any nondomestic source regulated under Section 307(b), (c) or (d) of the Act.

INDUSTRIAL WASTES. Any solid, liquid or gaseous substance or form of energy discharged, permitted to flow or escape, or transported from an industrial, manufacturing, commercial or business operation or process or from the development, recovery or processing of any natural resource carried on by any person.

INFLUENT. The water, together with any wastes that may be present, flowing into a drain, sewer, receptacle or outlet.

NORMAL DOMESTIC SEWAGE. Sewage having an average daily suspended solids concentration of not more than 300 milligrams per liter, an average daily BOD concentration of not more than 300 milligrams per liter, an average daily COD concentration of not more than 600 milligrams per liter, an average daily phosphorus concentration of not more than 10 milligrams per liter, and an average daily ammonia concentration of not more than 25 milligrams.

NPDES PERMIT. The National Pollutant Discharge Elimination System Permit issued by the Indiana Department of Environmental Management for discharges of waste waters to navigable waters of the United States pursuant to Section 402 of 33 U.S.C. 466.

OPERATION AND MAINTENANCE COSTS. All costs direct and indirect, other than debt services including replacement costs as defined herein, necessary to insure adequate wastewater treatment on a continuing basis conforming with federal, state or local requirements and to insure longterm facilities management.

OUTLET. Any outlet, natural or constructed, which is the point of final discharge of sewage or of treatment plant effluent into any watercourse, pond, ditch, lake or other body of surface or ground water.

PERSON. Any individual, owner, discharger, lessee, occupant, firm, partnership, company, municipal or private corporation, commercial establishment, association, society, institution, enterprise, governmental agency or other legal unit or entity.

pH. An expression of the intensity of the base or acidic conditions of a liquid.

POLLUTANTS.

(1) ***COMPATIBLE POLLUTANTS.*** Waste containing biochemical oxygen demand, chemical oxygen demand, suspended solids, phosphorus, pH and fecal coliform bacteria and ammonia (NH_3).

(2) ***INCOMPATIBLE POLLUTANTS.*** Wastes with any pollutant that is not a compatible pollutant which is regulated by the NPDES permit or that would cause damage to the sewage system and/or treatment plant.

RANDOM SAMPLE. A sample taken at no charge to the user, at the city's discretion of effluent produced by any user.

RECEIVING STREAM. The watercourse, stream or body of water receiving the waters finally discharged from the sewage treatment plant.

REPLACEMENT COSTS. That cost, stated in current monetary values, as an operating cost which represents and measures the expenditures required to replace equipment, accessories or appurtenances of the property in order to maintain capacity and performance during the useful life of the property of the Water Pollution Control Utility.

REPLACEMENT FUND. A fund maintained to provide resources to pay for replacement expenditures annually as required to maintain the capacity and performance of the property of the sewage works.

SANITARY SEWAGE. Sewage discharged from the sanitary conveniences of dwellings, apartment houses, condominiums, motels, hotels, lodging or boarding houses, office buildings, factories or institutions, and free from storm water, surface water, groundwater and industrial wastes.

SCHEDULED SAMPLE. Routine sampling of a user's effluent, usually twice a year for a commercial user and quarterly for industrial users.

SERVICE CHARGE. A charge levied on a user of the treatment works which includes the user charge, a charge for local capital costs, and may include other charges for current services.

SEWAGE. The water-carried wastes from residences, business buildings, institutions and industrial establishments, singularly or in any combination, together with such ground, surface and storm waters as may be present.

SEWAGE TREATMENT PLANT or ***WATER POLLUTION CONTROL PLANT (WPC PLANT).*** The arrangement of devices, structures and equipment used for treating and disposing of sewage and sludge.

SEWAGE WORKS or ***WATER POLLUTION CONTROL UTILITY.*** All facilities and systems for collecting, transporting, pumping, treating, disposing of sewage and sludge, including the sewage treatment plant and the sanitary, storm and combination sewer collection systems whether or not in active use.

SEWER. A pipe or conduit for carrying sewage and other waste liquids as differentiated below:

(1) ***COMBINED OR COMBINATION SEWER.*** A sewer which carries storm, surface and groundwater runoff as well as sewage.

(2) ***PUBLIC SEWER.*** A sewer to the use of which all owners of abutting property have equal rights and is controlled and maintained by the city or other public authority.

(3) ***SANITARY SEWER.*** A sewer which carries domestic and unpolluted industrial sanitary sewage and to which storm, surface, groundwaters and unpolluted industrial waste waters are not intentionally admitted.

(4) ***STORM SEWER.*** A sewer which carries storm, surface and groundwater drainage but excludes sanitary sewage.

SEWER ENGINEER. The Chief Sewer Engineer of the city or his duly authorized representative; the term is synonymous with the term "Water Pollution Control Engineer."

SEWER SYSTEM. The network of sewers and appurtenances used for collecting, transporting and pumping sewage to the Sewage Treatment Plant.

SHALL. Means mandatory; "may" means permissible.

SLUGLOAD. Any discharge at a flow rate or concentration which could cause a violation of the prohibited discharge limits set in the Rules and Regulations Section 6.

STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE. A classification pursuant to the Standard Industrial Classification Manual used by the U.S. Office of Management & Budget.

STANDARD METHODS. The examination and analytical procedures set forth in the most recent edition of "Standard Methods for the Examination of Water and Wastewater," published jointly by the American Water Works Association and the Water Pollution Control Federation, a copy of which is on file in the Office of the Superintendent.

STRENGTH-OF-WASTE SURCHARGE. The additional charges for sewage service collected from users discharging sewage into the system having a strength measurement in excess of the limits imposed by the provisions of this chapter.

SUPERINTENDENT. The Superintendent of the Sewage Treatment Plant (Water Pollution Control Plant) of the city, or his duly authorized representative.

SUSPENDED SOLIDS. Solids which either float on the surface of or are in suspension in water, sewage or other liquid and which are removable by laboratory filtration. Their concentration is expressed in milligrams per liter. Quantitative determinations are made in accordance with procedures set forth in 40 CFR 136.

TOXIC POLLUTANT. One of 126 pollutants, or combinations of those pollutants, listed as toxic in regulations promulgated by the EPA under the provisions of Section 307 (33 USC 1317) of the Act.

USER CHARGE. A charge imposed on users of a treatment works to defray the cost of operation, maintenance and replacement.

USER REQUESTED SAMPLE. Any effluent sampled taken by the city at the request of the user, the cost for which shall be billed to the user.

WASTE SURVEILLANCE CHARGE. A monthly charge collected from users, qualifying as industrial or commercial class users, to defray the cost of evaluating

that user's waste by metering, sampling, laboratory analysis and/or other methods deemed necessary. Said charges are set forth in § 51.065 et seq. and are subject to review annually as provided in § 51.079.

WATERCOURSE. A channel in which the flow of water occurs either continuously or intermittently.
('74 Code, § 24-1) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.002 DAMAGE TO CITY PROPERTY PROHIBITED.

It shall be unlawful for any unauthorized person to maliciously, willfully or negligently break, damage, destroy, remove, deface or tamper with any structure, appurtenance or equipment which is part of the city sewage system, the city's Water Pollution Control Plant or property of others assigned to the city for operation and maintenance and shall be liable for damage.
('74 Code, § 24-8) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.003 DILUTION.

It shall be unlawful for any person to increase the use of potable water or process water in any way, or mix separate waste streams for the purpose of diluting a discharge as a partial or complete substitute for adequate treatment to achieve compliance with pretreatment standards or requirements. The city may impose discharge limitations on any persons using dilution to meet applicable pretreatment standards or discharge permit requirements. The city may also impose discharge limitations in other circumstances deemed appropriate by the Board of Public Works.
('74 Code, § 24-9) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.004 ACCIDENTAL DISCHARGES.

(A) Each person shall provide protection from accidental discharge of prohibited or regulated materials or substances to sewers of the city. Where necessary, procedures and facilities to prevent the accidental discharge of prohibited materials shall be provided and maintained at said discharger's expense. Detailed plans showing facilities and operating procedures to provide this protection shall be submitted to the Superintendent for review, and be approved by the city before construction of the facility. Review and approval of plans and operating procedures by the city shall not relieve the discharger from the responsibility to modify its facility as necessary to meet applicable federal, state and local requirements.

(B) All responsible persons shall notify the Superintendent of the Water Pollution Control Plant, or his representative, immediately when a "slug load" or accidental discharge occurs. A written report shall be submitted within five days of the incident. The notification must include the location of the discharge, date and time of occurrence, type of waste, concentration and volume and corrective actions taken. Any person who discharges a "slug load" of prohibited materials will be liable for any expense, including loss or damage to the city's sewer system and treatment facilities in addition to the amount of any fines imposed upon the city under state or federal law.

(C) Signs must be permanently posted in conspicuous places on the dischargers' premises, advising employees whom to call in the event of an accidental discharge. Employers shall adequately instruct all employees who may cause or discover such discharges of the emergency notification procedures.
('74 Code, § 24-10) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

CONNECTIONS AND EXTENSIONS

§ 51.015 REQUIREMENTS FOR CONNECTION TO PUBLIC SEWERS.

City Utilities shall have the authority to require an owner of real property to disconnect any downspouts, yard drains or other drains which carry the runoff of natural precipitation from a building sewer which drains into a sanitary sewer, or in areas served by combined sewers where City Utilities determines the additional load placed on the system has been found

to be detrimental to properties in that area. Property owners shall have thirty (30) days after notice thereof to comply with any such requirement.
('74 Code, § 24-3) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97) Penalty, see § 51.999

§ 51.016 EXTENSIONS OF SEWERS OUTSIDE CORPORATE LIMITS.

The installation, construction, or extension of sanitary sewers by private developers or by the city outside the corporate limits of the city and the con-nection of said sanitary sewers into the city's sewage system from, by, to, or for properties located outside such limits is prohibited, except with the approval of the Board of Public Works by duly enacted resolution, provided that a resolution ratifying and agreement and/or contract for such construction and connection shall be deemed to constitute such approval.
('74 Code, § 24-4) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.017 CONNECTIONS TO SEWER SYSTEM BY CERTAIN PROPERTIES OUTSIDE CORPORATE LIMITS.

Notwithstanding the provisions of § 51.016, the Board of Public Works shall have the authority to permit a property located outside the corporate limits of the city to connect to an existing sanitary sewer which is part of the city's sewer system, when the property abuts, adjoins or is immediately contiguous to the street, alley or easement in which such sewer is located and provided the property owner or occupant has complied with the requirements prescribed by § 51.015 of this chapter.
('74 Code, § 24-5) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

COMMERCIAL AND INDUSTRIAL WASTES AND DISCHARGES

§ 51.030 PRIOR APPROVAL FOR CERTAIN WASTES.

(A) Review and acceptance by the Superintendent shall be obtained prior to the discharge into the sewage works sewers by any persons having sewage wastes which contain:

(1) Either a BOD content greater than 300 milligrams per liter or a COD greater than 600 milligrams per liter.

(2) A suspended solids content greater than 300 milligrams per liter.

(3) A phosphorus content greater than 10 milligrams per liter.

(4) An ammonia content greater than 25 milligrams per liter.

(5) Other contaminants which either from their constituents or quantities will:

(a) Interfere with the operation of any portion of the sewage works;

(b) Pass through the treatment works or otherwise be incompatible with such works;

(c) Prevent the reclamation and/or recycling of municipal or industrial wastewaters and sludges.

(B) However, nothing in this section or elsewhere in this chapter shall be read to allow the user to discharge pollutants which shall cause interference or pass through and/or to absolve the user from liability in the occurrence of a discharge which causes such interference or pass through.
('74 Code, § 24-11) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.031 PRETREATMENT FACILITIES; APPROVAL OF PROPOSED PLANS, OPERATION.

(A) General. When, after making such a review, the Superintendent concludes that, before the person discharges waste into the public sewers, the person must modify or eliminate those constituents which would be harmful to the structures, processes, or operations of any portion of the sewage works or injurious to the health of the general public, then that person shall either modify the wastes at the point of origin or shall provide and operate, at said person's expense, such treatment and processing facilities as

may be deemed necessary to render said person's waste acceptable for admission to the public sewers. ('74 Code, § 24-12)

(B) Prior approval. Plans, specifications and any other pertinent information relating to proposed treatment or processing facilities shall be submitted to the Superintendent for examination and approval. No construction of such facilities shall begin until the Superintendent has given written approval. Such approval shall not exempt the person from the obligation to make further reasonable adaptations of such facilities when such adaptations prove necessary to secure the results of acceptable waste concentrations desired. The approval of proposed facilities and/or equipment by the Superintendent does not in any way guarantee that such facilities and/or equipment will function in the manner described by the person's constructor or the manufacturer of said facilities and equipment, nor shall such approval relieve any person of the responsibility of enlarging or otherwise modifying such facilities to accomplish the intended purposes. ('74 Code, § 24-13)

(C) Operation. Where pretreatment facilities are provided pursuant to the Superintendent's approval, they shall be maintained continuously in satisfactory and effective operating condition at the person's expense and shall be subject to periodic and random inspection and sampling by the city. The person responsible for such facilities shall maintain suitable operating records which shall be open to inspection by the city, and shall submit to the Superintendent such monthly summary reports of the character of the influent and effluent of the facilities as the Superintendent may require. All records and reports shall be retained for a minimum of three years. All industry whether defined as categorical or noncategorical industry by state and federal regulations shall comply with all requirements of 40 CFR 403.12. ('74 Code, § 24-14)

(D) Pursuant to 40 CFR 403.12(o), the city may, at its discretion, require that records be kept for a longer period in the case of unresolved litigation or when requested by the Approval Authority.

(E) All industries whether defined as categorical or noncategorical industry by state and federal regulation shall comply with all requirements of 40 CFR 403.12, including, when applicable, Baseline Monitoring Reports (BMRs), 90 Day Compliance Reports, and Periodic Compliance Reports.
(Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91); Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.032 FEDERAL PRETREATMENT STANDARDS.

(A) As part of this chapter the city shall enforce all federal pretreatment standards including but not limited to categorical pretreatment standards upon persons within its service area or within the service area of any contract customers.

(B) Categorical industrial users must comply with all applicable National Categorical Pretreatment Standards found in 40 CFR Chapter 1, Subchapter N, Parts 405-471. These standards are hereby incorporated into this chapter.
('74 Code, § 24-15) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.033 PROHIBITED DISCHARGES AND LIMITATIONS.

Except as hereinbefore provided, no person shall discharge or cause or permit to be discharged into the public sewer any of the following described substances, wastes or waters:

(A) Any liquid or vapor having a temperature greater than 140° F. (60° C), or any wastewater which will cause the WPC Plant's influent to exceed 104° F. (40° C).

(B) Any waters or wastes from industrial sources containing more than 100 milligrams per liter of total oil and grease (TOG). Acceptable limits for animal-vegetable based fats, oils and grease shall be determined by the Board of Public Works and set out in the Sewer Utility Rules and Regulations. Said maximum limits shall be calculated and set at an amount shown not to cause interference or obstruction in the collection system and/or sewer works, and shall be reevaluated and adjusted as necessary to protect the integrity of the sewer utility.

(C) Any gasoline, benzene, naphtha, fuel oil, mineral oil or any other flammable or explosive solid, liquid or gas.

(D) Any noxious or malodorous gas or substance which either alone or by interaction with other wastes, is capable of creating a public nuisance or hazard to life or of preventing entry into the sewers of their maintenance or repair.

(E) Any garbage that has not been properly pretreated and reduced as provided for in the definition of ground garbage in § 51.001.

(F) Any ashes, cinders, sand, mud, straw, shavings, wood, metal, glass, rags, feathers, tar, plastics, paunch manure, butchers' offal or any other solid or viscous substances capable of causing obstruction to the flow in sewers or other interference with the proper operation of the sewer system or the sewage treatment plant.

(G) Any waters or wastes having a pH less than 6.0 or greater than 10.0 or having any other corrosive property capable of causing damage or posing hazards to the structures, equipment or personnel of the sewage works.

(H) Any waters or wastes containing toxic substances, as defined under Section 307 (b) and (c) of the Clean Water Act in sufficient quantity to interfere with the biological process of the sewage treatment plant or that will pass through the plant into the receiving stream in amounts exceeding the standards set forth by federal, interstate, or other competent authority having jurisdiction, or will prevent the disposal of the sludges by the plant in accordance with Section 405 of said Act.

(I) Any toxic radioactive isotopes, without a special permit. The radioactive isotopes of I 131 and P 32 used in hospitals are not prohibited, if they are properly diluted before being discharged into the sewer system, as further defined in the general rules and regulations.

(J) Any waters or wastes that for a duration of 15 minutes or more have a concentration more than five times the average concentration of BOD or suspended solids of the user's sewage discharged during a 24 hour period of normal operation.

(K) Any waters or wastes containing suspended solids of such character and quantity that unusual provisions, attention and expense would be required to handle such materials at the sewage treatment plant, its pumping stations or other facilities.

(L) Any waters or wastes containing incompatible pollutants as herein described.

(M) Any waters or wastes containing any toxic substances in quantities that are sufficient to interfere with the biochemical processes of the sewage treatment plant, that will pass through the plant into the receiving waters or accumulate in the sludges in an amount exceeding the limitations, set forth by any federal, state, interstate or local limitations whichever is more stringent. Specifically excluded are any waters or wastes containing toxic ions, compounds, or substances in concentrations or amounts exceeding the limitations set forth by the Board of Public Works and published in the general rules and regulations.

(N) Any bulk waste, either industrial or domestic, without prior written approval of the Superintendent.

(O) Any substances with objectional color not removed by the treatment process, such as, but not limited to dye waste and vegetable tanning solutions.

(P) The city reserves the right to refuse, deny or revoke the connection of any user in the event the sewer service requirements of the user, in the judgment of the Superintendent could or would impose an excessive burden on the sewage works or in the event the user is or has been in repeated violation of this chapter. The city further reserves the right in the event of any emergency, to restrict the allowable discharge received from any or all large users of the sewer system during the time of such emergency.

(Q) Pollutants which create a fire or explosion hazard in the city's treatment works or sewage system, including, but not limited to, wastestreams with a closed cup flashpoint of less than 140° Fahrenheit, or 60° centigrade using test methods specified in 40 CFR 261.21.
('74 Code, § 24-16) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92); Am. Ord. G-17-94, passed 8-23-94; Am. Ord. (Ord. G-07-97, passed 7-9-97) Penalty, see § 51.999

§ 51.034 RESPONSIBILITY FOR OBSTRUCTION OR DAMAGE TO SEWERS.

If a public sewer becomes obstructed or damaged because any of the aforementioned substances were improperly discharged, the person or persons

responsible for such discharges shall reimburse the city for the expenses incurred by the city for cleaning out, repairing, rebuilding the sewer or for any litigations or damage claims resulting therefrom, including legal fees and court costs. For multiple offenders, each responsible person shall be assessed a proportionate percentage of the damage.
('74 Code, § 24-17) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.035 SUBMISSION OF DATA ON INDUSTRIAL WASTE.

(A) The following conditions are required for all SIU permits, and also may be incorporated into other permits at the discretion of the Superintendent:

(1) A statement of duration;

(2) A statement of non-transferability;

(3) Applicable federal, state and local effluent limits;

(4) Self-monitoring, sampling, reporting, notification, and recordkeeping requirements; and

(5) A statement of applicable civil and criminal penalties, pursuant to 40 CFR 403.8(f) (1)-(iii).

(B) Any person who discharges industrial waste into the city's sewer system either directly or indirectly, shall forthwith fill out and file, with the Superintendent, an industrial waste questionnaire, baseline monitoring report or permit application, the form for which will be furnished by the city, in which shall be set forth the quantity and characteristics of the wastes discharged into the city's sewer system. Any owner desiring to establish a new connection to the public sewer or to establish a new account with sewage works for the purpose of discharging industrial or commercial waste shall 90 days prior to discharge first fill out and file with the Superintendent such a questionnaire, baseline monitoring report or permit application, which shall contain the actual or predicted data relating to the quantity and characteristics of the wastes to be discharged. After review of the submitted documents and permit application, the Superintendent shall issue an industrial wastewater discharge permit which shall contain conditions and requirements with which the person shall comply. All rules and regulations of the sewer utility must also be followed by a permitted user.

(C) Any person who adds, changes, modifies or proposes to change manufacturing or pretreatment processes shall first notify the Water Pollution Control Plant, in writing, and submit a new or revised Baseline Monitoring Report for review by the Superintendent.

(D) Industrial users must provide prior notification to the Superintendent of the WPC Plant before any changes are made to their effluent.

(E) Any person who knowingly makes any false statement, representation or certification in any application, report or other document required by this chapter or other applicable regulations shall, upon conviction, be punished by the imposition of a criminal penalty as required by local and/or state statutes.

(F) When special circumstances render it an unreasonable burden to comply with the time schedule determined by the sewage works for the correction of any industrial waste discharge problem, an extension of time, not to exceed 90 days, may be granted by the Superintendent upon presentation in writing of an application for such relief.
('74 Code, § 24-18) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97) Penalty, see § 51.999

§ 51.036 CONFIDENTIAL INFORMATION.

Information and data furnished to the city by any person shall be made available to the public or other governmental agency without restriction unless the person specifically requests and is able to demonstrate in accordance with 40 CFR 2.203 and 330 IAC 5-1.5-8 that the release of such information would divulge information and/or methods of production entitled to protection as trade secrets or proprietary information of said person. The above limitation to access has no application to the USEPA, which shall be entitled to immediate and unlimited access to all information collected by the city under its Pretreatment Program. Further, under no circumstances may the volume or the components of the discharge be considered confidential. All requests, by the user, for confidentiality of information shall be made in

accordance to and governed by the provisions of 330 IAC 5 and 40 CFR 2.
('74 Code, § 24-19) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.037 CONTROL MANHOLES.

Any person who discharges or may discharge industrial wastes into a public sewer via any means such as floor drains, sinks, catch basins, and the like, shall be required by the Superintendent to construct and maintain, at his own expense, one or more control manholes, at a specified location or locations, to facilitate the observation, measurement and sampling of owner's waste. Such manholes shall be constructed in accordance with the standards and specifications of the city. The Superintendent may also require the person to install and maintain in any such manhole, at said person's expense, an approved volume-measuring device. Plans and/or shop drawings for the installation of control manholes and related equipment shall be approved by the Superintendent before any construction is begun.
('74 Code, § 24-20) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.038 GREASE AND SAND TRAPS.

Whenever the Superintendent determines that interceptors or traps are needed to protect the city's sewer collection system or the city's treatment plant from grease, oil, sand or similar substances occurring in any person's sewage and so notifies said person, then such traps shall be promptly installed by said person, at said person's expense and shall be so maintained by that person that none of such substances can be discharged or carried over into the public sewers. All traps or interceptors shall meet the city's standards as to construction, location and installation.
('74 Code, § 24-21) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.039 INSPECTIONS; WASTE SAMPLING.

(A) Any person shall be subject to periodic and random inspections by the city for the purpose of determining compliance with permit limitations, solvent management plans or spill prevention plans, identifying dilution streams or to categorize regulated processes. These inspections may consist of monitoring waste streams, inspection of the premises, inspection and/or copying of production records, pretreatment operating records and other records or data deemed necessary by the inspector for the purposes stated above.

(B) The installation, operation and maintenance of the sampling facilities shall be the responsibility of the person discharging the wastes and shall be subject to the approval of the Superintendent. Access to the sampling facilities shall be granted, at all times, to the Superintendent.

(C) Where any person's operations have security measures in force which require proper identification and clearance before entry onto said person's property is granted, such person shall make the necessary arrangements with their security personnel that upon showing of proper identification personnel from the city shall be permitted to enter, without delay, for the purpose of observing or monitoring of wastes being discharged at a given point or points or that person shall install suitable control manholes outside of the security area or areas, which at all times will be immediately available to city personnel.
('74 Code, § 24-22) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94) Penalty, see § 51.999

§ 51.040 WASTE ANALYSIS PROCEDURES AND CHARGES.

Laboratory procedures used in the examination of industrial wastes shall be those set forth in Code of Federal Regulations 40 CFR 136 or approved EPA methods.

(A) *Charges to users.* Alternate methods for certain analyses of commercial, industrial or institutional establishments may be used subject to mutual agreement between the Superintendent and the user. All such analyses shall be binding in determining strength-of-waste surcharges and other matters dependent upon the character and concentration of wastes. When surveillance sampling is conducted by the city, a split shall be made available for analysis by user upon request. In the event of a dispute between the Superintendent and the user as to the toxic nature

or other particulars of the sample taken and analyzed by the city, the dispute shall be resolved through an appeals process consistent with approved USEPA or IDEM guidance documents and methodology, the specific procedures for which shall be set out in the rules and regulations of the WPC Utility. Analyses made by the city at the request of the user shall be charged to the user according to the sewage works' standard work order billing procedure.

(B) *Charges to governmental agencies.* Analyses performed by the Water Pollution Control Plant Laboratory for any governmental agency, or political subdivision of a city, county or state shall be billed to such agency or subdivision for direct labor and expenses according to the sewage works' standard work order billing procedure. Analyses performed for other agencies shall not have priority over the regular Water Pollution Control Plant analyses unless in the judgment of the Superintendent the urgency of the analyses warrants such priority.

(C) *Charges of outside services.* Analyses performed by the Water Pollution Control Plan Laboratory for any person shall be billed at the rate established by the Water Pollution Control Plan Laboratory for such analyses.

(D) *Charges collected.* All waste analysis charges collected under divisions (A) through (B) above shall be recorded as credits to the operating costs of the Water Pollution Control Plant and a quarterly accounting thereof shall be forwarded to the Superintendent. All such charges are to be used to defray the operation and maintenance expenses incurred by the Water Pollution Control Plant in performing said analyses.
('74 Code, § 24-23) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.041 USE OF REPRESENTATIVE ANALYSIS.

Until an adequate analysis of a representative sample of user's wastes has been obtained, the city may, for the purpose of this chapter, make a determination of the character and concentration of the wastes by using data based on analysis of similar processes or data for this type of business that are available from the United States Environmental Protection Agency or from industry-recognized authoritative sources. This method, if selected by the city, shall continue at the city's pleasure or until an adequate analysis has been made.
('74 Code, § 24-24) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

PRIVATE SEWAGE DISPOSAL

This subchapter (§§ 51.050 through 51.059) applies to matters under the jurisdiction of the State and Allen Country Board of Health.

§ 51.050 DEFINITIONS.

(A) The words and phrases used in this subchapter (§§ 51.050 through 51.059) are herein defined, and for the purpose of this subchapter only, shall be construed as follows, except when otherwise expressly provided.

(1) ***STATE DEFINITIONS.*** All definitions set forth in 410 IAC 6-8.1, Bulletin SE-11(1986) and Bulletin SE-13 (1988), as amended from time to time, from the Indiana State Department of Health are hereby incorporated by reference.

(2) ***BOARD.*** The Fort Wayne-Allen County Board of Public Health, Fort Wayne, Allen County, Indiana.

(3) ***BUILDING.*** A structure having a roof supported by columns or walls built or used for the enclosure, shelter, protection or occupancy or persons, fixtures or personal property, and from which there emanates any sewage.

(4) ***COMMERCIAL.*** Any building which is not a one or two family dwelling.

(5) ***DEPARTMENT.*** The Fort Wayne-Allen County Department of Public Health, Fort Wayne, Allen County, Indiana, and/or its employees.

(6) ***ENVIRONMENTAL HEALTH SPECIALIST.*** An individual as defined in IC 25-32-1-2(b).

(7) ***HEALTH COMMISSIONER.*** The Director of Public Health for the Fort Wayne-Allen County Department of Public Health for Fort Wayne, Allen County, Indiana, (designated as "Health Officer" in the state rules and regulations) and/or his/her authorized representative.

(8) ***INSTALLER.*** Any person who constructs, installs, replaces, alters, modifies or repairs any residential or commercial sewage disposal system subject to the provisions of this chapter, other than one which serves his/her/its building. In the event that the person is any association of two or more people, then said association shall designate one individual who shall be designated as the installer and responsible for compliance with all provisions hereunder.

(9) ***PERMIT.*** A certificate of a size and style approved by the Health Commissioner.

(10) ***PERMITTEE.*** The person who is the owner of the real estate, his/her/its authorized representative, who is responsible for the application of a construction permit and/or operating permit and who shall be responsible for the acceptance of notices at the address listed on the permit applications.

(11) ***PUBLIC SEWER.*** A sewer to the use of which all owners of abutting property have equal rights and is controlled and maintained by the city or other public authority.

(12) ***RESIDENTIAL.*** A building used as a one or two-family dwelling.

(13) ***SEWAGE.*** The water-carried wastes from residences, business buildings, institutions and industrial establishments, singularly or in any combination, together with such ground, surface and storm waters as may be present.

(14) ***SOILS SCIENTIST.*** An individual who is a Specialist or Classifier, registered with the American Registry or Certified Professionals in Agronomy, Crops and Soils (ARCPACS).
(Ord. G-07-97, passed 7-9-97)

§ 51.051 SEWAGE DISPOSAL.

(A) *State rules.* All rules and regulations of 410 IAC 6-8.1, 410 IAC 6-10, Bulletin SE-11 (1986) and Bulletin SE-13 (1988), as amended from time to time, from the Indiana State Department of Health are hereby incorporated by reference.

(B) *Public sewer available.* Whenever a public sewer is or becomes available within 300 feet of a residential or commercial lot line, a direct connection shall be made to said public sewer, provided direct access is reasonably available via easement or other appropriate means. All existing septic tanks, sewage pits, outhouses, privy pits and similar sewage disposal systems or treatments facilities shall be abandoned and filled in a safe an sanitary manner. Permittee shall have ninety (90) days from the date that the public sewer becomes available to make a direct connection to the public sewer and to abandon and fill in the existing sewage disposal system.

(C) *Public sewer not available.* All residential and commercial buildings which are not connected to a public sewer shall be connected to a private sewage disposal system which shall comply with the standards set forth herein.

(D) *Construction of privy.* Sanitary vault privies constructed and maintained pursuant to Bulletin SE-11 (1986) shall be approved by the Health Commissioner.

(E) *Correction of defects.* Should any defect exist or occur in any private sewage disposal system or privy which would cause the sewage disposal system or privy to fail to meet the requirements of this Chapter, then the defect shall be corrected by the owner/permittee pursuant to the time table established by the Health Commissioner. Failure to correct the defect within the time table established by the Health Commissioner shall be considered a violation of this chapter and shall subject the owner/permittee to the sanctions set forth in § 51.059 subject, however, to the hearing provisions of § 51.058.

(F) *Adaptation of residential systems.* Whenever there is any alteration of the structure or change in the use or occupancy of a residential building that would affect the functioning of the existing private sewage disposal system, including the addition of bathrooms, kitchens or other related water disposal mechanisms, then the system shall be modified, enlarged or replaced in accordance with the requirements of this chapter.

(G) *Adaptation of commercial system.* Whenever there is any alteration of the structure or significant change in the use or occupancy of a commercial

building which would affect the functioning of the existing private sewage disposal system, including the addition of bathrooms, kitchens or other related water disposal mechanisms, then the system shall be modified, enlarged or replaced in accordance with the requirements of this chapter.
(Ord. G-07-97, passed 7-9-97)

§ 51.052 CONSTRUCTION REQUIREMENTS OF PRIVATE SEWAGE DISPOSAL SYSTEMS.

(A) *Indiana State Department of Health Requirements.* All rules and regulations of 410 IAC 6-8.1, Bulletin SE-11 (1986) and Bulletin SE-13 (1988), as amended from time to time, from the Indiana State Department of Health are hereby incorporated by reference.

(B) *Lot dimensions.*

(1) Lots or tracts of real estate on which residential or commercial sewage disposal systems are to be installed and which are rated slight or moderate for septic tank absorption fields by the U.S. Department of Agricultural Soil Conservation Service, shall contain a minimum of one (1.0) acre or 43,560 square feet and suitable soils and topgraphy to permit compliance with this chapter.

(2) Lots or tracts of real estate on which residential or commercial sewage disposal systems are to be installed and which are rated severe for septic tank absorption fields by the U.S. Department of Agriculture Soil Conservation Service shall contain a minimum of two (2.0) acres or 87,120 square feet and suitable topography to permit compliance with this chapter.

(3) A permittee, whose real estate was a separate parcel for tax purposes as shown on the tax records of the Auditor of Allen County, Indiana, and recorded prior to the effective date of this chapter as set forth in 51.059 (I) shall not be prohibited from the construction, installation and eventual operation of a residential sewage disposal system solely as the result of his/hers/its lot dimensions being less than those set forth above in (1) and (2), provided that he/she/it meets all other requirements of this chapter.

(C) *On-site evaluation.* At least one boring from the submitted septic disposal system location shall be done with a soil auger. A second sample from the submitted septic disposal system location, and any additional confirmation samples, may be taken with a push probe.

(D) *Requirements for septic tanks.*

(1) Residential septic tanks shall have the following number of gallons:

(a) If the number of bedrooms in a dwelling are one, two, three or four: 1,250 gallon tank.

(b) If the number of bedrooms in a dwelling are five: 1,500 gallon tank.

(c) If the number of bedrooms in a dwelling are more than five: 1,500 gallon tank + 150 gallons x the number of bedrooms over five.

(E) *Final grade.* All distribution boxes shall be extended full size to ground level or final grade.

(F) *Access openings.* All septic tanks shall have at least one (1) access opening of at least ten (10) inches in diameter, for each compartment in said tank for inspection and cleaning purposes. All such access opening shall be extended to ground level and shall be fitted with safely secured, gas tight covers.

(G) *Abandoned septic tanks.* Abandoned septic tanks shall be filled with earth, sand or gravel or shall be removed.

(H) *Inspection pike.* Each private sewage disposal system shall have at least one suitable inspection pipe, which shall be accessible to the Health Commissioner at all reasonable times for the inspection or sampling of effluent. If an inspection pipe does not exist, is not in good repair or is not accessible, such fact shall constitute a defect in the system under 51.051(E).

(1) The inspection pipe shall be installed at the far end of one of the absorption lines, or just beyond the last equipment or device in any other treatment system.

(2) The inspection pipe shall be not less than an eight (8) inch riser of Schedule 40, SDR 22 or SDR 26 PVC pipe or vitrified clay pipe extending above the surface of the grounds with a safely secured easily removable cap or cover and with its lower end connected and arranged to permit the collection, by dipping, of an effluent sample.
(Ord. G-07-97, passed 7-9-97)

§ 51.053 CONSTRUCTION PERMIT.

(A) *Construction permit required.* An owner or permittee shall first obtain a construction permit from the Health Commissioner prior to the commencement of any excavation, construction, alteration, repair, modification or addition to any existing or new private sewage disposal system.

(B) *Permit to be posted.* No person shall perform any work on a private sewage disposal system project unless a valid construction permit is first obtained and is properly posted in a conspicuous place at or near the building where the private sewage disposal system is to be constructed. The permit shall be plainly visible from the public thoroughfare serving the building until the project is completed.

(C) *Application for permit.* The application for such permit shall be submitted to the Health Commissioner on a form provided by the Health Commissioner and shall be supplemented by any plans, specification and other information deemed necessary by the Health Commissioner or as required by 410 IAC 6-8.1-48.

(D) *Permit fees.* Prior to the issuance of any permit, each owner/permittee shall first tender to the Treasurer of Allen County, Indiana, a fee or fees, which shall be deposited into the City-County Health Fund, for each system being constructed, modified, altered or repaired in accordance with the following schedule.

(1) New construction - $75.00.

(2) Alteration, modification or repair of existing system - $50.00.

(3) Revision of existing permit prior to construction - $20.00.

(E) *Term and renewal.* A construction permit shall be valid for one (1) year from the date of issuance, and may be renewed for up to an additional six (6) months upon application. If the permit is renewed, the permittee shall comply with any changes in the rules, standards or requirements which may have come into effect subsequent to the original date of issuance. The construction permit is not transferable.
(Ord. G-07-97, passed 7-9-97)

§ 51.054 INSTALLERS REGISTRATION.

(A) *Registration requirements.* Except for a person working on his/her/its own private sewage disposal system which serves the dwelling in which he/she/it resides, no person shall construct, install, replace, alter, modify or repair any private sewage disposal system unless that person has first registered with the Department as an installer. Persons required to be registered shall be given a grace period of up to six (6) months after the effective date of this chapter in which to register with the Department. Application for registration shall be on forms provided by the Department.

(B) *Conditions for registraton.*

(1) Every person required to register under this section shall be knowledgeable of all laws, rules and regulations of both the state and county governing private sewage disposal systems. Prior to registration, the applicant must demonstrate knowledge of the applicable laws, rules and regulation by passing a proficiency exam conducted by the Department with a score of eighty percent (80%) or higher. The registration exam shall be reviewed from time to time to determine its applicability to current laws, rules and regulations. Where taking a written exam is not feasible, due to language or reading difficulties, arrangements will be made to allow for an oral examination to assure proficiency. Opportunity for reexamination shall be afforded to an applicant upon request but no more frequently than once per month.

(C) Seminar. At the request of the Health Commissioner, but not more than once per year, a person registered under this section shall attend a seminar on sewage disposal conducted by the Department of the Indiana State Department of Health.

(D) *Expiration.* Registrations under this section shall expire annually on December 31. Each installer shall be required to re-register annually on or before January 15 of each succeeding year.

(E) *Annual fee.* For a period of six (6) months after the effective date of this chapter, registration under this section shall be without fee. After that date, an annual registration fee of $40.00 will be charged which shall be paid not later than January 31 of each year.

(F) *Notice of violation.* Whenever the Health Commissioner determines that there has been a violation of any provision of this chapter or the applicable rules and regulations of the Indiana State Department of Health by an installer, the Health Commissioner shall give written notice, in person or by certified mail, of the alleged violation to the installer. Such notice shall include the following:

(1) A statement of the alleged violation.

(2) An order allowing a reasonable time for the performance of any act required to correct the violation.

(G) *Suspension or revocation.* If the violation is not corrected within the designated time, the Health Commissioner may suspend or revoke the installer's registration subject to the provisions contained in 51.058 (B), (C) or (D).

(1) If the registration is suspended, the installer may be reinstated by the Health Commissioner upon correction of all violations.

(2) If the registration is revoked, the Health Commissioner shall require, at a minimum, that the installer: 1) be retested; 2) pay the registration fee; and, 3) correct all outstanding violation to the satisfaction of the Health Commissioner prior to being re-registered.

(H) *Not registered.* Any person constructing, installing, replacing, altering or repairing any private sewage disposal system who is not registered as an installer under this section shall be deemed to be in violation of this chapter and shall be subject to all penalties set forth in § 51.059.
(Ord. G-07-97, passed 7-9-97)

§ 51.055 INSPECTION.

(A) *Commencement of construction.* Upon issuance of a construction permit under § 51.053(A), the permittee may commence installation and construction of the private sewage disposal system. The Health Commissioner may inspect the work at any state of construction.

(B) *Inspection.* Upon substantial completion of the installation, the permittee shall notify the Health Commissioner that the work is ready for inspection. No portion of the installation shall be covered until the inspection is made.

(1) No portion of the installation shall be used and, when the system serves a new building, no person shall be permitted to use the building or buildings until the inspection has been completed and the system is found to be in compliance and an operation permit has been issued.

(2) The inspection shall be made within two (2) working days of the receipt of notice by the Health Commissioner that the system is ready for inspection.

(C) *Issuance of operation permit.* If the system meets all requirements and is in compliance with the law, the Health Commissioner shall issue an Operating Permit.

(D) *Operating permit required.* It shall be unlawful for any person to use or operate a private sewage disposal system unless said person possesses a valid operating permit issued by the Health Commissioner.

(E) *Valid period.* The Operating Permit shall be valid until there is a change in the use associated with the system. The issuance date shall appear on the Permit. The operation permit is not transferable.

(F) *Application for permit.* The application for an operation permit shall be made to the Health Commissioner on forms provided by the Health Commissioner.

(G) *Time of issuance.* An operating permit shall be issued within five (5) days of the inspection of the system once the Health Commissioner has determined that the permittee has complied with all applicable provisions of this chapter, the related state rules and regulations and tendered the appropriate permit fee.

(H) *Renewal.* Renewal of the Operating Permit is the duty of the permittee.
(Ord. G-07-97, passed 7-9-97)

§ 51.056 MAINTENANCE AND SAMPLING.

(A) *Sanitary Condition Mandatory.* Every private sewage disposal system shall be constructed and maintained so that the effluent leaving the Permittee's system shall be sanitary.

(B) *Inspection and sampling.* The Health Commissioner shall be permitted to enter upon any property at any reasonable time to inspect and take samples from a private sewage disposal system. If said test results should indicate a residential or commercial sewage disposal system failure, said failure shall constitute a violation of § 51.051(E).
(Ord. G-07-97, passed 7-9-97)

§ 51.057 ECONOMIC HARDSHIP.

(A) *Economic hardship.* In the event an owner/permittee is unable to comply with the provisions of § 51.051(B) due to the economic hardship that might be imposed, then the Health Commissioner may, upon application and proof of inability to pay the cost of compliance, extend the period within which said owner/permittee shall be required to make the hook-up provided the owner/permittee has an existing private sewage disposal system which is operating properly.
(Ord. G-07-97, passed 7-9-97)

§ 51.058 DENIAL; SUSPENSION; REVOCATION.

(A) *Denial and approval of permit.*

(1) In the event the Health Commissioner determines that the application for the Construction Permit and/or Operating Permit does not meet the standards set forth in this chapter, then the Health Commissioner shall be required to notify the Permittee of such denial in writing, within thirty (30) days of the original application, stating the specific reasons for the denial of the permit.

(2) Failure of the Health Commissioner to issue a written denial of a permit and/or to issue specific written directions regarding corrective actions that need to be taken to obtain the permit within thirty (30) days from the date of application of the Construction Permit shall be construed as an approval of the Construction Permit. In the event the Health Commissioner issues written directives regarding corrective actions, then the permittee and/or his agent shall have a reasonable amount of time to address the items set forth in the directives in order to be able to obtain the Construction Permit.

(3) Failure of the Health Commissioner to issue a written denial of an Operating Permit and/or to issue specific written directions regarding corrective actions that need to be taken to obtain the permit within ten (10) days from the date of application of the Operating Permit shall be construed as an approval of the Operating Permit. In the event the Health Commissioner issues written directives regarding corrective actions, then the Permittee and/or his agent shall have a reasonable amount of time to address the items set forth in the directives in order to be able to obtain the Operating Permit.

(B) *Suspension of permit/registration.* The Health Commissioner may order the suspension of a Construction Permit or Operation Permit or installer registration. The Health Commissioner may order the suspension of a permit or registration for any of the following reasons:

(1) Failure to meet any of the standards of any of the provisions of this chapter or violations of any of provisions of this chapter.

(2) Interference with the Health Commissioner in the performance of his/her duties. Interference shall be defined as the process of obstructing, hampering or blocking the Health Commissioner in the performance of his/her duties.

(3) At the request of the permittee or installer, a hearing shall be afforded him/her/it within twenty-four (24) hours of the issuance of the written suspension order. Said hearing shall be conducted as set forth in 51.058(E).

(C) *Revocation of permit/registration.* Any permit and/or registration issued hereunder may be revoked by the Health Commissioner as the result of the willful or continued violation of any provision of this chapter. No such revocation shall be ordered by the Health Commissioner except after a hearing held pursuant to § 51.058(E) upon at least ten (10) days written notice to the owner/permittee/installer of the time, place and nature of said hearing. Said notice of hearing shall be served upon the owner/permittee/installer by leaving, or mailing (certified mail) the notice to the address listed by the owner/permittee/installer at his/her/its address on the permit, application or installer registration application.

(D) *Immediate revocation.* Notwithstanding any of the other provisions of this chapter, whenever the Health Commissioner finds unsanitary or other conditions, which, in his/her opinion constitute an

imminent health hazard, he/she may, without notice or hearing, issue and serve a written order on the owner/permittee/installer requiring the immediate cessation of operation/installation. Said written order shall site the existence of the imminent health hazard and shall specify the corrective action to be taken. Such order shall be effective immediately. Upon petition to the Health Commissioner, the permittee/installer shall be afforded a hearing within twenty-four (24) hours of the issuance of the written order. Said hearing shall be conducted as set forth in 51.058(E).

(E) *Hearing.* At any hearing required under this chapter, every owner/permittee/installer who is a party to such proceeding shall have the right to submit evidence, to cross examine witnesses and to be represented by counsel. All such hearings shall be conducted in an informal manner, but irrelevant, immaterial or unduly repetitious material shall be excluded. Upon the conclusion of the hearing, the Health Commissioner shall issue a final order determining the issue(s) which shall be conclusive on all parties subject to the right of appeal.

(F) *Appeal.*

(1) Any owner/permittee/installer aggrieved by an final order of the Health Commissioner shall be entitled to a review of the final order before the Board by filing a written request with the Secretary for the Board within fifteen (15) days of the Health Commissioner's final order.

(2) Upon the Secretary's receipt of such request, the Board shall hear the matter de novo in open hearing upon at least ten (10) days written notice of the time, place and nature thereof. The notice shall be issued by the Secretary for the Board to owner/ permittee/installer filing the request.

(3) The notice shall be served upon the owner/permittee/installer by leaving or mailing (certified mail) the notice to the address listed on the application as his/her/its address or such other address he/she/it shall designate in writing.

(4) At such hearing, the same rules of procedure shall apply as in the case of the hearing before the Health Commissioner. Upon written demand by the owner/permittee/installer, the Board shall cause the proceedings before it to be recorded by a stenographer or reporter employed for such purpose, and the same, together with all papers and documents filed therein, shall be reproduced by said Commissioners of Allen County, Indiana in the form of a transcript, a copy of which shall be available to any party.

(5) The expense of such proceedings shall be charged to the owner/permittee/installer who applied for the review, except that copies of the transcript shall be at the expense of the party obtaining same. The Commissioners of Allen County, Indiana may require the deposit of an amount determined to secure such expense.

(6) The Board shall make written findings of facts and shall enter its final order or determination of the matter in writing in the permanent records of the Board.
(Ord. G-07-97, passed 7-9-97)

§ 51.059 PENALTIES.

(A) *Enforcement.* It shall be the duty of the Department and/or the Health Commissioner to enforce the provisions of this chapter. Any permit or registration issued in conflict with the provisions of this chapter shall be null and void. A violation of an order issued by the Health Commissioner or Board shall be considered to be a violation of this chapter.

(B) *Violations.* Whenever the Health Commissioner determines that any owner, permittee, installer or any other person, is in willful violation of any of the provisions of this chapter, the Health Commissioner shall furnish evidence of said willful violation to the Prosecuting Attorney of Allen County, Indiana or the attorney for the Board who shall seek all appropriate legal remedies against the person(s).

(C) *Penalty.* Any person who willfully violates any of the provisions of this chapter shall be subject to a fine of not more than $500.00 for each violation. Each day of the existence of any violation of this chapter shall be considered to be a separate offense.

(D) *Injunction.* The Health Commissioner may bring an action for an injunction in the Circuit or Superior Court of Allen County, Indiana, to restrain any person from violating the provisions of this chapter, or to cause such violation to be prevented, abated or removed.

(E) *Expense.* Any person violating any of the provisions of this chapter shall be liable to the Department for the expense, loss or damage occasioned by reason of such violation, including reasonable attorney's fees and court costs.

(F) *Cumulative.* The remedies provided in this section shall be cumulative, and not exclusive, and shall be in addition to any other remedy provided by law.
(Ord. G-07-97, passed 7-9-97)

SEWER RATES AND CHARGES

§ 51.065 CHARGES BASED ON WATER USAGE/ FLAT CHARGES.

The charges made for sewer service rendered to each lot, parcel of real estate or building having any connection with the city's sewer system or otherwise discharging sewage into the system, either directly or indirectly, shall be based upon the quantity of water presumed to enter the public sewers after being used in or on the property, as the quantity is measured by the water meter or meters there in use by the city's water utility, except as herein otherwise provided. Flat charges shall be assessed on a monthly basis. For the purposes of this chapter, a month shall constitute 25-35 days. Service periods falling outside this parameter shall be prorated.
('74 Code, § 24-25) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.066 WATER OBTAINED FROM SOURCES OTHER THAN CITY'S WATER UTILITY.

Where the property obtains any part or all of the water used from sources other than the city's water utility, the owner or the tenant may be required by the city to install and maintain at the user's own expense a meter or meters acceptable to the city for the quantity of water obtained from these other sources. Once installed, no such meter may be bypassed for any reason.
('74 Code, § 24-26) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.067 EXEMPT WATER - GENERAL.

Where a significant portion of the metered water does not and cannot enter the sewer system, either directly or indirectly, the person having charge of the property may request permission from the city to install at the user's expense either an approved meter or meters to determine the quantity of water that cannot enter the sewer system or an approved sewage-measuring device or devices to determine the volume of sewage that actually enters the sewer system. In any case the service charge shall be based on the quantity of water that can or actually does enter the public sewers but in no case shall it be less than the minimum charge for the class of user served. Plans and specifications for all such meters shall be submitted to the Superintendent of the Water Pollution Control Plant and approved prior to installation.
('74 Code, § 24-27) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.068 METERING OF SEWAGE.

The city may require a person to install and maintain at the user's expense an approved device to measure directly the volumes of wastes discharged to the sewer system if those volumes cannot otherwise be determined from the metered-water consumption records. The city shall inspect and approve such installation and no such services, once installed, shall be removed without the city's approval.
('74 Code, § 24-28) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.068.5. DEPOSIT TO ENSURE PAYMENT OF SEWER FEES; REFUNDS; FORFEITURES; USES.

(A) Pursuant to I.C. 36-9-23-28, City Utilities may require the owner, lessee, or user of property served by the Utility to pay a deposit to ensure payment of sewer fees.

(B) The deposit required shall equal the estimated average payment due from the property served by the Utility for a three (3) month period. Deposits shall be retained in a separate fund.

(C) The deposit, less any outstanding penalties and service fees, shall be refunded to the depositor after a notarized statement from the depositor that as of a certain date the property being served:

(1) Has been conveyed or transferred to another person; or

(2) No longer uses or is connected with any part of the municipal sewage system.

A statement under subdivision (1) must include the name and address of the person to whom the property is conveyed or transferred.

(D) If a depositor fails to satisfy costs and fees within sixty (60) days after the termination of his use or ownership of the property served, the deposit and all accrued interest is forfeited. The forfeited amount shall be applied to the depositor's outstanding fees. Any excess that remains due after application of the forfeiture may be collected in the manner set out in §§ 51.099 and 51.100 herein. A deposit may be used to satisfy all or part of any judgment awarded the municipality under this chapter.

(E) A deposit made under this section that has remained unclaimed by the depositdr for more than seven (7) years after the termination of the services for which the deposit was made becomes the property of City Utilities.
(Ord. G-07-97, passed 7-9-97)

§ 51.069 RESIDENTIAL USER CHARGES.

(A) *In city service charge.*

(1) In city. Charges for services rendered within the corporate boundaries of the City of Fort Wayne shall be based on metered water consumption, unless otherwise measured in accordance, with the following charges for this classification of service:

	Cents per 100 cu. ft.
Treatment	83.60
Conveyance, Collection, Billing	70.53
Capital	39.99
Total User Charge	194.12

(2) *In city billing charge.* Residential users inside the city shall be billed a monthly billing fee of $2.22.

(C) *User flat charges.* In the event that any user in this classification is not a metered water customer, there shall be imposed flat charge rates as follows:

Classification of Customer	Monthly Flat Charge (1)	
	In city	Outside city
Residential User- Single Family Dwelling	$15.68	$19.20
Residential User- Multi Family Dwelling	To be estimated by City	

(1) Monthly flat charges for multi-family dwellings shall be based on the number of family units accommodated by the system multiplied by the single family dwelling monthly charges. A 25% surcharge shall apply to the rates charged to users outside the city.

(2) The Utility shall retain documentation supporting its estimates and the billings.
('74 Code, § 24-30) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 10-24-00)

(B) *Outside city service charge.*

(1) *Outside city.* Charges for services rendered to residents outside the corporate boundaries of the City of Fort Wayne shall be based on metered water consumption, unless otherwise measured, in accordance with the following charges for this classification of service:

	Cents per 100 cu. ft.
Treatment	104.51
Conveyance, Collection, Billing	88.17
Capital	50.00
Total User Charge	242.68

(2) *Outside city billing charge.* Residential users residing outside the corporate boundaries of Fort Wayne shall be billed a monthly billing fee of $2.78.

Hereinafter "inside city" or "outside city" shall be read to distinguish users located within or outside the corporate boundaries of the City of Fort Wayne.

(C) *User flat charges.* In the event that any user in this classification is not a metered water customer, there shall be imposed flat charge estimated by the city. A 25% surcharge shall apply to the rate charged to such users located out the city.

('74 Code, § 24-31) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 0-24-00)

§ 51.070 INDUSTRIAL USER CHARGES.

(A) *Service charge.* Charges for services rendered shall be based on metered water consumption unless otherwise measured in accordance with the following charges for this classification of service:

Cents per 100 cu. ft.	Inside City	Outside City
Treatment	83.60	104.51
Conveyance, Collection, Billing	70.53	88.17
Capital	39.99	50.00
Total User Charge	194.12	242.68

(B) *User minimum charges and other fixed payments.* In the event the monthly sewage service charge calculated in accordance with the schedule above does not exceed the minimum monthly charge for each class of user set forth hereafter, user shall pay said minimum monthly charge, in lieu of the charge calculated based on water usage, as follows:

Water Meter Size (inches)	***Minimum Monthly Charge***
5/8 - 3/4	$ 4.96
1 - 1½	17.52
2	36.23
3	72.86
4	121.12
6 or larger	336.28

(C) *Other industrial user charges.*

	Inside City	Outside City
(1) Monthly billing charge -per bill:	$2.22	2.78.

(2) Excess strength of wastes surcharge - in the event an industrial user contributes waste having strength of sewage in excess of domestic waste characteristics, as hereinbefore defined, a surcharge based on the following unit process charges will be in effect for all waste found to be in excess of limitations:

	Cents Per Pound
Suspended Solids - (SS)	9.43
Biochemical Oxygen Demand - (BOD)	19.55
Phosphorus - (P)	132.71
Ammonia - (NH-3)	28.62

(D) *User flat charges.* In the even any user in this classification is not a metered water customer, there shall be imposed a flat charge estimated by the city. A 25% surcharge shall apply to the rate charged to such users located outside the city.

('74 Code, § 24-32) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am Ord. G-27-00, passed 10-24-00)

§ 51.071 COMMERCIAL USER CHARGES.

(A) *Service charge.* Charges for services rendered shall be based on metered water consumption, unless otherwise measured, in accordance with the following charges for this classification of service:

Cents per 100 cu. ft.

	Inside City	Outside City
Treatment	83.60	104.51
Conveyance, Collection, Billing	70.53	88.17
Capital	39.99	50.00
Total User Charge	194.12	242.68

(B) *User flat charges.* In the event any user in this classification is not a metered water customer, there shall be imposed a flat charge rate estimated by the city. A 25% surcharge shall apply to the rate charged to users located outside the city.

Other commercial charges.

(1) Monthly billing charge - per bill.

(a) Inside city: $2.22.

(b) Outside city: $2.78.

(2) Excess strength.

(a) In the event any user under this classification contributes waste having a strength of sewage in excess of domestic waste characteristics as herein defined, such user will be charged for surveillance and surcharges as set forth elsewhere herein for industrial users, except as set forth in the following paragraph.

(2) Restaurants. Commercial users primarily engaged in the business of preparing and selling cooked food items and beverages shall pay an extra-strength surcharge of 50.73 cents per 100 cubic feet in lieu of those scheduled surcharges otherwise set forth herein. For the purposes of this chapter, a user qualified to hold a supplemental retailer's permit under I.C. 7.1-3-16.5-2(a) or (b) shall be presumed to fall within this category.
(Ord. G-17-91, passed 6-12-91; ; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 10-24-00)

§ 51.072 INSTITUTIONAL USER CHARGES.

(A) *Service charge.* Charges for services rendered shall be based on metered water consumption, unless otherwise measured, in accordance with the following charges for this classification of service:

Cents per 100 cu. ft.

	Inside City	Outside City
Treatment	83.60	104.51
Conveyance, Collection, Billing	70.53	88.17
Capital	39.99	50.00
Total User Charge	194.12	242.68

(B) *User flat charges.* In the event any user in this classification is not a metered water customer, there shall be imposed a flat charge estimated by the city. A 25% surcharge shall apply to the rate charged to users located outside the city.

(C) *Other institutional charges.*

(1) Monthly billing charge - per bill.

(a) Inside city: $2.22.

(b) Outside city: $2.78.

(2) In the event any user under this classification contributes waste having a strength of sewage in excess of domestic waste characteristics as herein defined, such user will be charged for surveillance and surcharges as set forth elsewhere herein for industrial users.
(Ord. G-17-91, passed 6-12-91; ; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 10-24-00)

§ 51.073 GOVERNMENTAL USER CHARGES.

(A) *Service charge.* Charges for services rendered shall be based on metered water consumption, unless otherwise measured, in accordance with the following charges for this classification of service:

Cents per 100 cu. ft.

	Inside City	Outside City
Treatment	83.60	104.51
Conveyance, Collection, Billing	70.53	88.17
Capital	39.99	50.00
Total User Charge	194.12	242.68

(B) *User flat charges.* In the event any user in this classification is not a metered water customer, there shall be imposed a flat charge estimated by the city. A 25% surcharge shall apply to the rate charged to users located outside the city.

(C) *Other governmental user charges.*

(1) Monthly billings charge - per bill.

(a) Inside city: $2.22.

(b) Outside city: $2.78.

(2) Excess strength. In the event any user under this classification contributes waste having a strength of sewage in excess of domestic waste characteristics as hereinbefore defined, such user will be charged for surveillance and surcharges as set forth elsewhere herein for industrial users.
(Ord. G-17-91, passed 6-12-91; ; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 10-24-00)

§ 51.074 CONTRACT CUSTOMERS - UNIT AND OTHER CHARGES.

(A) In the event the city consummates a contract to serve as a regional treatment plant for any other municipality or private sewage utility, either contiguous to the city or in its environs, said contract shall provide for the following unit charges:

Volume charge (cents per 100 cu. ft.).

Treatment	83.60

(B) *Variable charge (cents per 100 cu. ft.).* A variable charge for conveyance and collection costs attributable to each contract customer's portion of the conveyance system and operating costs associated therewith shall be computed by the city and added to the treatment cost to arrive at the contractee's total metered rate.

(C) *Flat charge.* In addition to the foregoing charge based on volume of sewage treated and conveyed each contract customer will pay a monthly billing charge of $2.22 and an appropriate monthly surveillance charge, as set out in § 51.078 herein, based on the type of testing necessary according to the contractee's customer base.

(D) *Excess strength of waste surcharge.* In the event a contract customer user contributes waste having a toxic strength in excess of domestic waste characteristics, as hereinbefore defined, a surcharge based on the following unit process charges will be in effect for all waste found to be in excess of limitations:

	Cents Per Pound
Suspended Solids - (SS)	9.43
Biochemical Oxygen Demand - (BOD)	19.55
Phosphorus - (P)	132.71
Ammonia - (NH-3)	28.62

(E) Where a contract calls for the payment of a capital charge, such shall be billed to the contract customer (Allen County Institutional Power Plant).

(F) *Capital surcharge.* In the event a contract customer delivers sewage for treatment to the city for a period of 90 consecutive days which is in excess of base MGD contracted for, then customer will be subject to a capital charge, computed at the rate per 100 cu. ft. in effect for outside the city customers set out elsewhere herein, times the excess percentage of MGD represented by dividing actual MGD by contracted MGD.

(G) *Other provisions.* In the event sewage received pursuant to any contract entered into under this section exceeds any of the limitations imposed by this chapter, the city shall have the right to impose all charges, limitations and penalties applicable to any non-contract user by the city. Each contract entered into by the city pursuant to the foregoing rate classification shall provide that the contract customer shall agree to enact and maintain a sewer use ordinance and user charge system acceptable to the city and in conformance with the city's obligations under Sec. 204 (b) (1), Public Law 92-500 as amended and supplemented, and guidelines and regulations promulgated thereunder by the U.S. Environmental Protection Agency and 40 CFR 35-905-8, 35-928-1 and 35-928-2 and 35-935-13.

('74 Code, § 24-33) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97; Am Ord. G-27-00, passed 10-24-00)

§ 51.075 BULK WASTE CHARGES.

(A) *Industrial:* For all industrial waste suitable for disposal which has been delivered by an approved Water Hauler to City's plant - $118.09 per load. For purposes of computing charges hereunder, a load is defined as 1,000 gallons of tank capacity or any fraction thereof.

(B) *Domestic:* For all domestic waste delivered to the city's plant by customer's truck or tank - $70.79 per load. For purposes of computing charges hereunder, a load is defined as 1,000 gallons of tank capacity or any fraction thereof.

(C) All bulk waste loads delivered to the Water Pollution Control Plant shall be accompanied by a "Waste Hauler Manifest," the form for which will be provided by the city.

(D) All bulk waste haulers shall also be assessed a billing charge of $2.22 per bill.

('74 Code, § 24-34) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-96, passed 2-27-96; Am. Ord. G-07-97, passed 7-9-97; Am. Ord. G-27-00, passed 10-24-00)

§ 51.076 LIABILITY FOR SURCHARGE.

Each user discharging wastes into the collection system shall be subject to a strength-of-wastes surcharge, in addition to other sewage service charges imposed by this chapter, based on the following minimum strength characteristics to the extent that such wastes are in concentrations greater than:

(A) Biochemical oxygen demand of 300 milligrams per liter.

(B) Chemical oxygen demand of 600 milligrams per liter.

(C) Suspended solids content of 300 milligrams per liter.

(D) Phosphorus content of 10 milligrams per liter.

(E) Ammonia content of 25 milligrams per liter.
('74 Code, § 24-36) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.077 COMPUTATION OF SURCHARGE.

The surcharge shall be determined as follows: The excess pounds of BOD or COD (whichever results in the higher charge) suspended solids, phosphorus and ammonia will each be computed by first multiplying the user's billing sewage volume measured in units of 100 cubic feet for the current billing period by the factor 0.0062321 and then multiplying this product by the difference between (a) the concentrations measured in milligrams per liter, of the BOD (or COD), suspended solids, phosphorus and ammonia respectively in the user's sewage and (b) the allowed concentrations set out in § 51.076. The surcharge for each constituent will then be determined by multiplying the excess pounds of each constituent by the appropriate rate of surcharge. In the event COD measurement is used, as hereinbefore provided, 50% of the excess pounds measured will be used to compute the equivalent BOD charge.
('74 Code, § 24-37) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.078 CONTINUING SURVEILLANCE SAMPLING/WASTE EVALUATION CHARGES.

(A) All users discharging wastes into the system requiring continuing surveillance sampling and waste evaluation shall be subject to the following fixed charge to cover the costs of such services per discharge point.

(1) Monthly evaluation charges.

(a) Type 1 Evaluation: $104.33

(b) Type 2 Evaluation: 153.58

(2) Evaluation charges - per occurence.

(a) Type 1 Evaluation: $313.00

(b) Type 2 Evaluation (includes metals): 460.75

(c) Grab compliance (FOG): 76.00

(d) Composite compliance: 190.00*

Plus applicable laboratory testing charges.
('74 Code, § 24-38) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.079 ANNUAL REVIEW OF SERVICE CHARGES AND SURCHARGES; REVISION OF CHARGES AND RATES.

Prior to May 1 of each year, the Chief Financial Officer of the city utilities and an independent certified public accountant employed for that purpose shall submit to the Board of Public Works a comparison of the calculated unit cost for flow, removal of BOD, suspended solids, ammonia and phosphorus from the Water Pollution Control Plant influent during the previous year with unit charges currently in effect, from which the Board shall determine whether the current service charges and surcharges are adequate or should be changed, and to request legislative enactment of said changes by the Common Council. The methodology used in developing this cost comparison shall include:

(A) A system including the distribution of the cost of operation and maintenance of the treatment works of the WPC utility to each user class in proportion to such user's contribution to the total waste loading of the treatment works. Factors such as strength, volume and delivery flow characteristics shall be considered and included as the basis for the user's contribution to insure a proportional distribution of operation and maintenance and replacement costs to each user class.

(B) Total annual service charges and surcharges collected from each individual user class shall be deemed sufficient if said charges have generated during the prior operating period sufficient revenue to offset the cost of all treatment works operation and maintenance provided by the utility, including cost of management, system repair and replacement, debt retirement and other costs incidental to the utility operation attributable to such class.
('74 Code, § 24-35) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

DELINQUENT ACCOUNTS; BILLING OF SERVICE CHARGES

§ 51.090 BILLING PERIOD.

(A) Charges for sewer services shall be computed and billed by the General Office of the City Utilities. Bills shall be rendered approximately monthly, unless additional billing is required to reflect customer changes, meter changes, service terminations, initial billings or is otherwise required to adjust billing cycles. For the purpose of this chapter, a month shall constitute 25-35 days. Service periods falling outside this parameter shall be prorated.

(B) Billings for sewer service shall be rendered with and shall be due and payable on the same due date as billings for water service to the same premises, if any, and if none, then within such billing cycle as the utility may determine.
('74 Code, § 24-40) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.091 LIABILITY FOR PAYMENT; EXAMINATION OF UTILITY RECORDS.

(A) Charges for sewer service shall be billed to the person being billed for water service, if any, unless by contract with the utility, another person assumes responsibility for payment. Notwithstanding billing to, and assumption of responsibility by any person, charges for sewer service shall remain the responsibility of the owner of the real estate, who shall hold the utility harmless from any loss occasioned by the delinquency of the person billed, including all penalties, recording fees, attorney's fees, interest, and court costs, if any.

(B) The owner of the real estate or person billed shall have the right to examine the utility's records of billing and collection to ascertain whether such charges have been paid, and the amount thereof.

(C) Nothing herein contained shall permit any person other than the owner, or the person being billed, to inspect, examine or otherwise obtain confidential information including the payment/credit history, income, employment, finances or social security number of the person being billed.
('74 Code, § 24-41) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.092 FIRST BILLINGS.

The rates, charges and surcharges fixed in this chapter shall extend to and cover any additional premises hereafter served, without hearing or notice. If the first billing to a new user covers a period other than a full billing month, then the charges for sewer service for such billing shall be made in accordance with standard practice employed by the city's water utility.
('74 Code, § 24-42) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.093 CITY SUBJECT TO CHARGES.

For sewer services rendered to the city, or any department, structure, or property, thereof, the city shall be subject to the same rates and charges herein established for other persons, or to rates and charges established in harmony herewith.
('74 Code, § 24-43) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.094 CONSOLIDATION OF ACCOUNTS.

Where an industrial, commercial or other non-residential enterprise is operating in a unified manufacturing or service arena composed of two or more contiguous parcels of real estate and is supplied with water through two or more meters, upon application by the owner or his authorized agent, a consolidation of the wager meter readings may be made for the purpose of calculating the sewer service charge.
('74 Code, § 24-44) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.095 NOTICE OF CAPITAL SURCHARGE.

The City Clerk shall certify a copy of Special Ordinance No. 2-233-81, enacted October 28, 1981, and all amendments thereto, heretofore or hereafter adopted, and shall record such certified copy in the Office of the Recorder of Allen County, Indiana to provide constructive notice to the owners and purchasers of real property in Adams Township and St. Joseph Township that a capital surcharge may be imposed upon properties connected to, or to be connected to, the city utility sewer system, in those areas of said townships formerly served by sewer system purchased or otherwise acquired by the city utility.
('74 Code, § 24-45) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.096 DELINQUENT ACCOUNTS; PENALTIES.

Charges for sewer service levied pursuant to this chapter shall be due and payable on or before the due date stated on the bill. Any charge for sewer and/or stormwater service not paid by the due date shall be delinquent, and may be collected, with any applied penalty, recording fees, service charges, attorney's fees, interest and court costs, if any, in accordance with this chapter and with IC 36-9-23-31 through 36-9-23-34. A penalty of 10% of the amount of the charges for sewer service and/or stormwater service shall be attached to the delinquent charges.
('74 Code, § 24-46) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.097 TERMINATION OF WATER SERVICE DUE TO DELINQUENCY.

Where the property having a delinquent account for charges for sewer service is served by the city's water utility, the utility may, after reasonable notice to the person being billed, as provided by the rules and regulations of the utility adopted by the Board of Public Works, shut off water service to the property. Water service shall not be restored until the delinquent account, together with any required deposit and the costs of turning off/turning on the water, shall have been paid.
('74 Code, § 24-47) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.098 TERMINATION OF SEWER SERVICE DUE TO DELINQUENCY.

In addition to all other remedies provided, the utility may, after reasonable notice to the person being billed, as provided by the rules and regulations of the utility adopted by the Board of Works, terminate sewer service to the property. Sewer service shall not be restored until the delinquent account, together with the costs of terminating and reconnecting service, shall have been paid.
('74 Code, § 24-48) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-17-94, passed 8-23-94)

§ 51.099 DELINQUENT FEES AND PENALTIES AS LIENS; DUPLICATES; COLLECTION.

Delinquent charges for sewer services and/or stormwater services, and applied penalties, recording fees and service charges may be made a lien upon the property when the delinquent party is the property owner and may be collected in accordance with the provisions of I.C. 36-9-23-31, 36-9-23-32 and 36-9-23-33.
('74 Code, § 24-49) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.100 COLLECTION THROUGH COURT ACTIONS.

In addition to the foregoing remedies, the city may recover the amount of the charges for sewer

services, penalties of 10% of the delinquent fees and reasonable attorney's fees in a civil action, and may foreclose liens established by this chapter in accordance with I.C. 36-9-23-34.
('74 Code, § 24-50) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

ADMINISTRATION AND ENFORCEMENT

§ 51.110 RULES AND REGULATIONS; BOARD OF WORKS AUTHORITY.

The Board of Public Works of the city shall, in accordance with the statutes of the state, and subject to the provisions and requirements of this chapter, make and enforce appropriate rules and regulations for the safe, economical and efficient management and operation of the city's sewage works, for the construction and use of sewers, building sewers, appurtenances and connections to the sewer system; for the regulation, collection and refunding of rates and charges for sewer service; and for the implementation and enforcement of the provisions of this chapter.
('74 Code, § 24-2) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-35-92, passed 7-15-92; Am. Ord. G-17-94, passed 8-23-94)

§ 51.111 ENFORCEMENT.

Those provisions of this chapter not specifically dealt with elsewhere shall be enforced by the Director of City Utilities and such deputies as Director, with the approval of the Board of Public Works, may be appointed for such purposes. Whenever said Director or any such deputy shall deem it appropriate to charge any person with a violation(s) of this chapter, he shall issue to such person a Notice of Violation and/or Summons, which shall be processed according to the provisions of IC 34-28-5 and sewer rules and regulations, or pursuant to an ordinance adopted in accordance with I.C. 36-1-6-9.
('74 Code, § 24-6) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

§ 51.112 SEWER WORKS IMPROVEMENT FUND.

The City Controller shall establish and maintain, for as long as user charges and surcharges are collected under the rate schedule instituted herein, accounts for the Sewer Works Improvement Fund as required by prior ordinances relating to the issuance of sewer works revenue bonds now outstanding and further in accordance with the laws of the State of Indiana relative to the deposit and disbursement of public funds.
('74 Code, § 24-52) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-94, passed 8-23-94)

§ 51.999 PENALTY FOR VIOLATION.

Any person who violates or fails to comply with any provision of this chapter or of the rules and regulations of the Board of Public Works or administrative orders pertaining thereto, shall be subject to a fine of up to $2,500 per day as set out at § 10.99 of the City of Fort Wayne Code of Ordinances or as otherwise provided by IC 34-28-5. Each day that such violation(s) or noncompliance continues shall constitute a separate offense.
('74 Code, § 24-7) (Ord. G-16-86, passed 4-22-86; Am. Ord. G-17-91, passed 6-12-91; Am. Ord. G-25-91, passed, 9-10-91; Am. Ord. G-17-94, passed 8-23-94; Am. Ord. G-07-97, passed 7-9-97)

APPENDIX C

Fort Wayne Water Pollution Control Utility

General Rules and Regulations, As Amended May 2002

FORT WAYNE WATER POLLUTION CONTROL UTILITY
(WASTEWATER UTILITY)

FORT WAYNE, INDIANA

GENERAL RULES AND REGULATIONS

AS AMENDED MAY, 2002

In accordance with the statutes of the State of Indiana and the Fort Wayne Code of Ordinances, as most recently amended, the Board of Public Works has established the following General Rules and Regulations for the safe, economical and efficient management and operation of the City's Water Pollution Control (Wastewater) Utility, for the construction and use of sewers, building sewers, appurtenances, and connections to the collection system; for the regulation, collection, and refunding of rates and charges for sewer service; and for the implementation of the provisions of Chapter 51 of the Fort Wayne Code of Ordinances.

THE NATIONAL CATEGORICAL PRETREATMENT STANDARDS LOCATED AT 40 CFR CHAPTER 1, SUBCHAPTER N, PARTS 405-471 ARE HEREBY INCORPORATED INTO THESE RULES AND REGULATIONS AS FULLY AS IF SET OUT HEREIN.

1. DEFINITIONS

For the purposes of these Rules and Regulations, words and terms shall have their ordinary and usual meanings.

Words and terms used herein shall have meanings as defined in either the Fort Wayne Code of Ordinances, as most recently amended (Chapter 51), or as appropriate to the context used.

"Shall" means mandatory; **"may"** means permissible.

Pursuant to 40 CFR 403.3, the following definitions are adopted.

"ACT" - The Federal Water Pollution Control Act, also known as "The Clean Water Act," as amended, 33 U.S.C. 466, as referred to at IC 13-18-13.

"APPLICABLE PRETREATMENT STANDARDS" - Any pretreatment limit or prohibitive standard (federal, state and/or

local) contained in the ordinance and considered to be the more restrictive with which non-domestic users shall be required to comply.

"AVAILABLE" - A sewer is considered to be available for use by a property if it is abutting that property or is located within the public right-of-way or an easement adjacent to the property, has capacity available, and is of a nature intended to collect sewage from individual properties.

"BOARD OF WORKS" - The Board of Public Works of the City of Fort Wayne, Indiana.

"BUILDING (OR HOUSE) DRAIN" - That part of the lowest piping of a drainage system which receives the discharge from soil, waste and other drainage pipes inside the walls of the building and conveys it to the building sewer.

a) **COMBINED.** A building drain which conveys both sewage and storm water or other drainage.

b) **SANITARY.** A building drain which conveys sewage only.

c) **STORM.** A building drain which conveys storm water or other drainage, but not sewage.

"BUILDING (OR HOUSE) DRAIN CONNECTION" - The point where the building (or house) drain is connected to the building sewer at a location approximately three feet outside the foundation wall of the building.

"BUILDING (OR HOUSE) SEWER" - A private sewer that connects building plumbing to a public sewer. A building sewer normally begins outside the building foundation.

a) **COMBINED.** A building sewer which conveys both sewage and storm water or other drainage.

b) **SANITARY.** A building sewer which conveys sewage only.

c) **STORM.** A building sewer which conveys storm water or other drainage, but not sewage.

"BUILDING (OR HOUSE) SEWER CONNECTION (SEWER TAP)" - The point where the building sewer is connected to the public sewer.

"CATEGORICAL INDUSTRY" - An industry whose effluent is regulated by 40 CFR 403.6.

"CATEGORICAL PRETREATMENT STANDARD OR NATIONAL STANDARD" - Any regulation containing pollutant discharge limits promulgated by the U.S. EPA in accordance with Section 307(b) and (c) of the Act (33 U. S. C. 1317) which apply to a specific category of industrial users which appear in 40 CFR Chapter 1, Subchapter N.

"CLASSIFICATION OF USERS" - Customers of the Water Pollution Control (Wastewater) Utility can be classified into the following general categories:

a) **RESIDENTIAL USERS.** Includes any user of the City's treatment works whose lot, parcel or real estate or building is used for domestic dwelling purposes only.

b) **COMMERCIAL USERS.** Includes all retail stores, restaurants, office buildings, laundries and other private business and service establishments, including those identified in the Standard Industrial Classification Manual, 1972, Office of Management and Budget Division I - Services.

c) **INDUSTRIAL USERS.** Includes any user of the City's treatment works which is identified in the Standard Industrial Classification Manual, 1972, Office of Management and Budget, as amended and supplemented, under the following divisions; Division A-Agriculture, Forestry and Fishing; Division B-Mining; Division D-Manufacturing; Division E-Transportation, Communications, Electric, Gas and Sanitary. **INDUSTRIAL USERS** shall be classified as follows:

1) **NON-DISCHARGE USERS.** Includes all industries which discharge sanitary sewage only, and industrial users whose discharge is limited to non-contact cooling water, or boiler blowdown water.

2) **NON-MAJOR INDUSTRIAL USERS.** Includes all industries that discharge process water but do not meet the criteria of **SIGNIFICANT INDUSTRIAL USERS.**

3) **SIGNIFICANT INDUSTRIAL USERS (SIU).** Includes all industries comprised of categorical and non-categorical industries and shall further be defined as set out at 40 CFR 403.3(t).

d) **INSTITUTIONAL USERS.** Includes social, charitable, religious and educational activities such as schools, churches, hospitals, nursing homes, penal institutions and similar institutional users.

e) **GOVERNMENTAL USERS.** Includes legislative, judicial, administrative and regulatory activities of federal, state and local governments.

"CITY" - City of Fort Wayne, Indiana.

"CLEANOUT" - A pipe or some other opening through which a device may be run to unplug a sewer.

"COLLECTION SYSTEM" - The network of sewers and appurtenances used for collecting, transporting and pumping sewage to the Water Pollution Control (Wastewater Treatment) Plant.

"COLLECTOR SEWER" - Sewer that is primarily installed to receive wastewater directly from building or house sewers and convey the wastewater to an interceptor sewer.

"COMPATIBLE POLLUTANT" - Any pollutant that is treatable at the Water Pollution Control (Wastewater Treatment) Plant and that does not cause interference or pass through.

"COMPLIANCE SAMPLE" - A sample taken of a user's effluent approximately 30 days after a violation of Chapter 51, the user's permit or the federal pretreatment standards and regulations has been discovered or reported. The user shall be billed for any compliance sample taken.

"COMPOSITE SAMPLE" - The sample resulting from the combination of discrete wastewater samples taken at selected intervals while the discharge rate is at or above normal based on an increment of either flow or time. Time intervals between discrete samples not to exceed two hours. The total duration of collection shall not exceed 24 hours.

"CUSTOMER OR CONSUMER" - The person having any interest, whether legal or equitable, sole or only partial, either as tenant, contract purchaser or owner, in any property which is, or is to be, connected to a public sanitary sewer, either temporarily or permanently, by the Water Pollution Control (Wastewater) Utility and all those having such interest.

"DEFRAUDING THE UTILITY" - The act of requesting or receiving utility service(s) under fictitious circumstances or any other act done with the intent to deprive City Utilities of its right to payment.

"DEVELOPER" - An individual, corporation or organization that is engaged in or proposes activity on real estate for the purpose of providing infrastructure, lots, tracts or structures for residential, commercial, industrial public or quasi-public purposes.

"DIRECTOR" - The director or chief administrative officer of City Utilities, or authorized designee.

"DWELLING" - A building, or portion thereof, under one roof used primarily as the abode of one or more persons, but not including hotels, motels, lodging or boarding houses or tourist homes.

"EFFLUENT" - The water, together with any wastes that may be present, flowing out of a building (or house) drain, sewer receptacle or outlet.

"EPA or U.S. EPA" - United States Environmental Protection Agency

"EMERGENCY" - An unforeseen circumstance or combination of circumstances that may cause an eminent endangerment to the health and/or welfare of persons, the environment, or which may interfere with the operation of the sewer collection system or the Water Pollution Control (Wastewater Treatment) Plant.

"FOLLOW-UP SAMPLE" - A sample taken of a user's effluent at the city's discretion from a user receiving scheduled sampling, at times other than those regularly scheduled. A follow-up sample shall be done at no cost to the user.

"GARBAGE" - Any solid wastes from the preparation, cooking or dispensing of food or from the handling, storage or sale of produce.

"GRAB SAMPLE" - An individual discrete effluent sample collected over a period of time not to exceed 15 minutes.

"GROUND GARBAGE" - Garbage that is shredded to such a degree that all particles will be carried freely in suspension under the conditions normally prevailing in public sewers, with no particle being greater than one-half inch in any dimension.

"IMPERVIOUS SURFACE" - Areas that have been paved and/or covered with buildings and materials which include, but are not limited to, concrete, asphalt, rooftop and blacktop, such that the infiltration of water into the soil is prevented.

"INCOMPATIBLE POLLUTANTS" - Any pollutant that is not a compatible pollutant or that would cause damage to the collection system and/or Water Pollution Control (Wastewater Treatment) Plant.

"INDIRECT DISCHARGE" - The introduction of pollutants into the collection system from any non-domestic source regulated under Section 307(b), (c) or (d) of the Act.

"INDUSTRIAL WASTE" - Any solid, liquid or gaseous substance, or form of energy discharged, permitted to flow or escape, or transported from an industrial, manufacturing, commercial or business operation or process, or from the development, recovery or processing of any natural resource carried on by any person.

"INFLUENT" - The water, together with any wastes that may be present, flowing into a drain, sewer, receptacle or outlet.

"INTERCEPTOR SEWER" - Principal sewer to which collector sewers are tributary. Interceptor sewers convey wastewater to the Water Pollution Control (Wastewater Treatment) Plant or other disposal facilities.

"INTERFERENCE" - A discharge, alone or in conjunction with a discharge or discharges from other sources, which both:

a) inhibits or disrupts the Water Pollution Control (Wastewater Treatment) Plant, its treatment processes or operations, or its sludge processes, use or disposal; and

b) therefore, is a cause of a violation of any requirement of the Water Pollution Control (Wastewater Treatment) Plant's National Pollutant Discharge Elimination System (NPDES) permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to subtitle D of the SWDA, the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

"IPS" - Industrial Pretreatment Section of the Water Pollution Control (Wastewater Treatment) Plant.

"METER" - A mechanical device used to measure and record the quantity of water supplied to a customer or the quantity of wastewater discharged from a customer. The meter is the official recorder of the amount of water consumed or wastewater discharged by a customer.

"MONTH" - The period between any two consecutive regular billings by the City Utilities for service rendered to a customer at his premises. Such billings are scheduled at intervals of approximately thirty (30) days. For purposes of billing, a month is 25 - 35 days. Any bills produced outside this parameter shall be pro-rated on a per day basis.

"MONTHLY METER SERVICE FEE" - A charge assessed each customer to recover administrative costs and those associated with billing, meter reading and maintenance of the water system, based on the size of the meter.

"NPDES PERMIT" - The National Pollutant Discharge Elimination System Permit issued by the Indiana Department of Environmental Management (IDEM) for discharges of waste waters to navigable waters of the United States pursuant to Section 402 of 33 U.S.C. 466.

"OPERATION AND MAINTENANCE COSTS" - All costs direct and indirect, other than debt services including replacement

costs as defined herein, necessary to insure adequate wastewater treatment on a continuing basis conforming with federal, state or local requirements and to insure long-term facilities management.

"OWNER" - Designates the person holding the deed or record title to a premises. For the purposes of these Rules and Regulations, a contract purchaser is not considered an owner unless the contract has been duly recorded in the Allen County Recorders Office.

"PASS THROUGH" - A discharge which exits the Water Pollution Control (Wastewater Treatment) Plant into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the Water Pollution Control (Wastewater Treatment) Plant's NPDES permit (including an increase in the magnitude or duration of a violation.)

"PERSON" - Any individual, owner, discharger, lessee, occupant, firm, partnership, company, municipal or private corporation, commercial establishment, association, society, institution, enterprise, governmental agency or other legal unit or entity.

"pH" - An expression of the intensity of the base or acidic conditions of a liquid.

"PRETREATMENT REQUIREMENTS" - Any substantive or procedural requirement related to pretreatment, other than a National Pretreatment Standard, imposed on an industrial user.

"PUBLICLY OWNED TREATMENT WORKS (POTW)" - All facilities and systems for collecting, transporting, pumping, treating, and disposing of sewage and sludge, including the Water Pollution Control (Wastewater Treatment) Plant and the sanitary, storm, and combination sewer collection systems, whether or not in active use, which are owned by a state, municipality, city, town, special sewer district, or other publicly owned or financed entity.

"REPLACEMENT COSTS" - That cost, stated in current monetary values, as an operating cost which represents and measures the expenditures required to replace equipment, accessories or appurtenances of the property in order to maintain capacity and performance during the

useful life of the property of the Water Pollution Control (Wastewater) Utility.

"SANITARY SEWAGE" - Sewage discharged from the sanitary conveniences of dwellings, apartment houses, condominiums, motels, hotels, lodging or boarding house, office buildings, factories or institutions, and free from storm water, surface water, and groundwater.

"SCHEDULED SAMPLE" - Routine sampling of a user's effluent, usually twice a year for a commercial user and quarterly for industrial users.

"SERVICE CHARGE" - A charge levied on a user of the treatment works that includes the user charge, a charge for local capital costs, and may include other charges for current services.

"SEWAGE" - The water-carried wastes from residences, business buildings, institutions and industrial establishments, singularly or in any combination, together with such ground, surface and storm waters as may be present.

"SEWER" - A pipe or conduit for carrying sewage and other waste liquids as differentiated below:

a) **COMBINED OR COMBINATION SEWER.** A sewer that carries storm, surface and groundwater runoff as well as sewage.

b) **PRIVATE SEWER.** Sewer owned and maintained by a private company, person, group of persons or other private entity.

c) **PUBLIC SEWER.** A sewer to the use of which all owners of abutting property have equal rights and is controlled and maintained by City Utilities.

d) **SANITARY SEWER.** A sewer that carries domestic and industrial sanitary sewage and to which storm, surface, groundwaters and unpolluted industrial wastewaters are not intentionally admitted.

e) **STORM SEWER.** A sewer designated or intended to convey only stormwater, surface runoff, street wash waters and drainage and not intended for

sanitary sewage and industrial wastes other than unpolluted cooling water.

"SEWER BILLING FEE" - The monthly billing charge that covers administrative costs associated with billing, which includes the costs of reading the meter.

"SEWER SECTION" - A continuous length of sanitary sewer that is between two (2) manholes or between a manhole and a cleanout.

"SIGNIFICANT NON-COMPLIANCE" (SNC) - Significant Non-Compliance is defined as set out in 40 CFR 403.8(f)(2)(vii).

"SLUG DISCHARGE" ***OR "SLUGLOAD"*** - Any discharge of a non-routine, episodic nature, including but not limited to, an accidental spill or a non-customary batch discharge.

"STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODE" - A classification pursuant to the Standard Industrial Classification Manual used by the U.S. Office of Management & Budget.

"STANDARD METHODS" - The examination and analytical procedures set forth in the most recent edition of *Standard Methods for the Examination of Water and Wastewater,* published jointly by the American Water Works Association (AWWA) and the Water Environment Federation (WEF), a copy of which is on file in the Office of the Superintendent.

"SUPERINTENDENT" - The Superintendent of the Water Pollution Control (Wastewater Treatment) Plant, or a designee.

"TEN STATE STANDARDS" - *Recommended Standards for Wastewater Facilities on the Great Lakes - Upper Mississippi River Board of State and Provincial Public Health and Environmental Managers.* Most recent addition.

"TOXIC POLLUTANT" - One of 126 pollutants, or combinations of those pollutants, listed as toxic in regulations promulgated by the U.S. EPA under the provisions of Section 307 (33 USC 1317) of the Act.

"USER" - Any domestic or non-domestic discharger of wastewater which introduces pollutants to the Publicly Owned Treatment Works (POTW)

"USER CHARGE" - A charge imposed on the users of the Water Pollution Control (Wastewater) Utility to defray the cost of operation, maintenance and replacement.

"USER REQUESTED SAMPLE" - Any effluent sample taken by City Utilities at the request of the user, the cost for which shall be billed to the user.

"UTILITY" - The Water Pollution Control Utility (Wastewater Utility) of the City of Fort Wayne, Indiana.

"WASTE SURVEILLANCE CHARGE" - A monthly charge collected from users, qualifying as industrial or commercial class users, to defray the cost of evaluating that user's waste by sampling, laboratory analysis and/or other methods deemed necessary. Said charges are set forth in Section 51.065 et seq. and are subject to review annually as provided in Section 51.079 of the Fort Wayne Code of Ordinances.

"WATER POLLUTION CONTROL (WASTEWATER TREATMENT) PLANT (WPC PLANT)" - The arrangement of devices, structures and equipment used for treating and disposing of sewage and sludge, which is owned, controlled and maintained by City Utilities.

"WATER POLLUTION CONTROL UTILITY (WASTEWATER UTILITY)" - All facilities and systems for collecting, transporting, pumping, treating, disposing of sewage and sludge, including the sewage treatment plant and the sanitary, storm and combination sewer collection systems whether or not in active use.

2. CONNECTION TO PUBLIC SANITARY SEWER

A new connection may be made to a City sewer or sewers connected to the City system only after there has been adequate assurance by City Utilities that the downstream facilities of the collection system have adequate capacity to transmit and treat the new waste loadings.

The Fort Wayne Code of Ordinances requires that every property in the City of Fort Wayne shall connect to the municipal collection system whenever a sanitary sewer is available for use. The connection to the municipal collection system shall be made within ninety (90) days after such sanitary sewer is available.

A sewer is considered to be available for use by a property if it is abutting that property, or is located in the public right-of-way or easement adjacent to the property, has capacity available, and is of a nature intended to collect sewage from individual properties--a collector sewer as opposed to an interceptor. An interceptor sewer is not intended to collect sewage via direct building (house) sewer connections. A sewer is considered to abut a property if it is located within a public right of way or easement that is adjacent to or abuts any part of the property that could be served.

Those properties not abutting a City sewer, but within three hundred feet (300') of an available sewer, shall make arrangements to have sewer extended to their property. Public sewers may be extended by private property owners once plans have been reviewed and approved by the City Utilities Water Resources Department in accordance with Section 5 - EXTENSION OF CITY SEWERS of these Rules and Regulations. Property owners may also petition the Board of Public Works for a sewer extension project. Property owners shall pay for a portion of the sewer extended through a petition-initiated project in accordance with the funding guidelines in effect at the time of the petition. Connection to the new sewer may not be made until the Board of Public Works accepts the main, or a Prime Contractor's Release is executed by the City Utilities Water Resources Department.

A connection to the public sewer may be accomplished as follows:

a) Where a tap-in connection is employed, the point of connection shall be where the end of the building sewer meets the inside face of the public sewer and the tapping "saddle and/or joint" shall be considered part of the building sewer.

b) Where fittings (T's or Y's) are employed, the connection shall be where the end of the first pipe meets the end of the fitting and the said T or Y fitting shall be considered a part of the building sewer.

Any property that has a public sewer available but is not connected shall be referred to the Fort Wayne/Allen County Board of Health for enforcement of applicable sanitary codes requiring connection to such public sewer.

Per 51.057 of the Fort Wayne Code of Ordinances, the Health Commissioner may, on written application and proof of economic hardship, extend the time within which a property shall be connected to the municipal collection system.

3. **BUILDING OR HOUSE SEWERS**

A. No unauthorized person shall uncover, make any connection with or opening into, use, alter, or disturb any public sewer or appurtenance thereof without first obtaining a written permit from the New Water & Sewer Permit Office, Room 270, City-County Building, Fort Wayne, IN.

B. All costs and expenses incidental to the installation and connection of the building sewer shall be borne by the owner. The owner shall indemnify the City for any loss or damage directly or indirectly occasioned by the installation of the building sewer, including water damages from the backup of the public sewer system.

C. A separate and independent building sewer shall be required for every building, except where one building stands at the rear of another on an interior lot and where no private sewer is available or can be constructed to the rear building through an adjoining alley, courtyard, or driveway. The building sewer from the front building may be extended to the rear building and the whole pipe considered as one building sewer.

D. A building sewer shall not cross the property of another private owner unless such private owner has granted a permanent easement for such building sewer which is duly recorded in the Office of the Allen County Recorder.

E. Existing building sewers may be used in connection with new buildings only when they are found, upon examination and test, to meet the current code requirements for building sewers.

F. The installation of a building or house sewer shall comply with Chapter 51 of the Fort Wayne Code of Ordinances and applicable sections of the City Utilities Water Resources Department Development Criteria/Standards Manual.

G. City Utilities shall have no responsibility for the installation, maintenance and repair of building sewers, nor shall it be responsible for repair of building sewer connections including joints and fittings, if installed by a private contractor.

H. It is recommended that gravity building sewer connections only be constructed for homes or buildings where the lowest elevation to have sanitary services is one foot (1') or more above the top of the manhole casting elevation of the first upstream manhole on the public sewer to which the connection is proposed to be made. In instances where this one-foot distance is not achievable and in areas susceptible to back-ups, proper backflow prevention shall be designed. If the first upstream manhole is at a higher elevation due to the natural topography of the area, an alternate method may be selected by the City Utilities Water Resources Department for the purpose of determining the feasibility of gravity connection.

I. A gravity building sewer connection will NOT be allowed for homes or buildings where the lowest elevation to have gravity sanitary services is less than one foot (1') above the top of the manhole casting elevation of the first upstream manhole on the public sewer to which the connection is proposed to be made. If the first upstream manhole is at a higher elevation due to the natural topography of the area, an alternate method may be selected by the City Utilities Water Resources Department for the purpose of determining the feasibility of gravity connection. In instances in which gravity flow is not permitted, sanitary sewage carried by building sewers shall be lifted by an approved means (i.e., grinder pumps) and subsequently discharged to the public sewer.

J. No person shall connect any roof downspout, exterior foundation drain, or other source of surface runoff or groundwater to a building sewer or building drain that is connected either directly or indirectly to a sanitary sewer of the Water Pollution Control Utility (Wastewater Utility).

K. The connection of the building sewer into the public sewer shall conform to these applicable Rules and Regulations. All such connections shall be made gastight and watertight. Any deviation of the

prescribed procedure or material must be approved by the City Utilities Water Resources Department before installation.

L. The Board of Public Works shall have the authority to require an owner of real property to disconnect any downspouts, yard drains or other drains which carry natural precipitation runoff from a building sewer and which drain into a sanitary sewer. Property owners shall have thirty (30) days after notice thereof to comply with any such requirement.

M. The Board of Public Works shall have the authority to require that runoff from new construction or redevelopment tributary to any combined sewer be designed to minimize or delay inflow contribution to the existing combined sewer system.

N. The Board of Public Works shall have the authority to require that for any new construction with new impervious surface, any new storm sewer connection to any existing combined sewer shall be made separate and apart from the sanitary sewer connection in order to facilitate future disconnection from the combined sewer in the event a separate storm sewer subsequently becomes available.

O. No owners of or persons controlling any real property shall allow soil to enter any building sewer constructed to serve said property at any time.

P. All excavations for building sewer installation shall be adequately guarded with barricades and lights so as to protect the public from hazard. Streets, sidewalks, parkways, and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the City.

Q. No owners of or persons controlling any real property shall tap or drain either directly or indirectly into any public sewer until a sewer tap permit has been obtained from City Utilities, and until owner has satisfied the obligation to pay all assessments, reimbursements and pro rata shares of sewer extension costs levied against that property for public sewers which serve it. A sewer tap permit given in error shall not operate to nullify any such obligation that has been duly recorded nor estop the City Utilities from charging and collecting such costs at any subsequent time.

R. From time to time, the Board of Public Works may permit any persons to tap or drain into a public sewer and to defer, in whole or in part, payment of the obligation, upon the execution and delivery to the Board of Public Works of a note, mortgage, lien document or other evidence of obligation acceptable to the Board of Public Works.

S. All such deferred obligations shall be considered for the purposes of Indiana Code Sections 36-9-23-31 through 36-9-23-34 to be fees assessed against real property.

T. Installments of deferred obligations, including any finance charges or interest chargeable thereon, shall be deemed to be "charges for sewer service" for the purposes of Chapter 51 of the Fort Wayne Code of Ordinances.

U. Sewer tap permits shall be obtained from the City Utilities New Water and Sewer Permit Office and shall be issued only to licensed sewer tap contractors, who shall pay a fee based on service size and connection point at the time of permit application. The cost of all permits shall be per Chapter 51 of the Fort Wayne Code of Ordinances, as most recently amended. Six-inch (6") tap connections into a sewer structure as opposed to direct connection into a sewer line, or taps larger than six inches (6") shall require approval from the City Utilities Water Resources Department. Not later than forty-eight (48) hours after making each sewer tap and building sewer installation, the tap contractor or property owner shall notify the New Water and Sewer Permit Office of such connections so that an inspection may be made by City Utilities prior to backfilling the sewer installation. Hours during which inspection requests will be accepted will be established by the New Water and Sewer Permit Office.

V. In cases of requests for connections to newly constructed mains prior to acceptance by the Board of Public Works, a Prime Contractor's Release must be executed and granted through the City Utilities Water Resources Department and submitted to the New Water and Sewer Permit Office. Upon satisfaction of all other requirements, a permit for connection may be issued.

W. No person shall make use of a sewer tap or backfill or otherwise conceal a sewer installation unless and until the same has been inspected and approved by City Utilities. In addition to all other remedies, City Utilities may cause the installation of sewer tap to be excavated and exposed, may terminate the connection and may require the owner or occupant to pay or reimburse City Utilities for its costs and expenses in such excavation, exposure, termination, reconnection and restoration. Such costs and expenses shall be considered as charges for sewage treatment services and may be collected in accordance with the provisions of Indiana Code 36-9-23-31 through 36-9-23-34 and Chapter 51 of the Fort Wayne Code of Ordinances.

X. City Utilities shall have the authority to repair, as deemed necessary, building sewers or building sewer connections when City Utilities has determined that the disrepair has a detrimental effect on the public sewer system or is causing damage to a surface improvement or any other City facility, structure or property.

The property owner shall reimburse City Utilities for a portion of its costs and expenses associated with making such repair. Such costs and expenses shall be considered as charges for sewage treatment services and shall be billed to the property owner.

The cost of the repair billed to the property owner may be limited and the property owner's share may be financed over time when the property owner qualifies under the guidelines established by the Board of Public Works' "Tap Repair Policy," which is specifically incorporated as a part of these Rules and Regulations.

4. LICENSED BUILDING SEWER CONTRACTORS

A. In order to maintain strict control and quality of the collection system, all contractors and/or plumbers who connect, install, repair and/or replace a sanitary sewer tap shall be required to have a valid sewer license or registration. Examinations shall be required for new applicants, for those whose licenses have been expired for more than one (1) year and for those whose licenses have been suspended (see paragraph H).

B. Plumbers who connect, install, repair and/or replace sanitary sewer taps and are currently licensed with the State of Indiana shall register with the City Utilities New Water and Sewer Permit Office as a building sewer contractor, and upon registration shall be exempt from examination.

C. The examinations will require the knowledge of installation, workmanship, materials, safety and health regulations, liability, Department of Water Resources Development Criteria/Standards Manual, Chapter 51 of the Fort Wayne Code of Ordinances, and any other necessary information to determine the experience and knowledge of the contractor to install a building sewer. A score of seventy (70%) percent shall be required in order to pass the examination. There shall be a one-week time interval before the applicant can repeat the examination.

D. After successfully passing the examination, or being exempted therefrom, the Contractor may purchase a license or registration for the current calendar year, renewable annually on the first day of each succeeding year, to install building sewer taps.

E. An annual fee of Fifty ($50.00) Dollars shall be paid to the New Water and Sewer Permit Office by each licensed or registered sewer tap contractor.

F. The contractor shall post a Performance Bond and Certificate of Liability Insurance with City Utilities New Water and Sewer Permit Office.

G. Contractor/Plumber must obtain a City Utilities Water Resources Department Development Criteria/Standards Manual and maintain it in an up-to-date form.

H. At the request of the Board of Public Works, but not more than once a year, all licensed or registered sewer tap contractors shall be required to attend a seminar sponsored by Fort Wayne City Utilities. This seminar shall include information about installation, workmanship, materials, safety and health regulations, liability, Department of Water Resources Development Criteria/Standards Manual and Chapter 51 of the Fort Wayne Code of Ordinances.

I. License/registration may be suspended if proper compliances are not met as outlined in Chapter 51. If the license is suspended as a result of lack of compliance with any section of Chapter 51 or these Rules and Regulations, the Director shall require that the contractor: 1) bring into compliance the work that was the cause of the suspension, 2) successfully pass the registration examination as outlined in paragraph A above, and 3) pay the registration fee prior to being re-licensed.

5. **EXTENSION OF CITY SEWERS**

A. All new developments, subdivisions, apartment complexes, shopping centers, hotels, restaurants, or any other residential, commercial or industrial development shall include adequate public sanitary and storm sewer systems.

B. If adequate public sewers do not exist, the developer shall extend or cause to be extended adequate public sewers. Plans for any public sewer extension must be approved by City Utilities Water Resources Department. All extensions must be designed and constructed in accordance with the City Utilities Water Resources Department Development Criteria/Standards Manual, and in compliance with the "Ten State Standards".

The public sewer extension shall be extended within the right-of-way or an approved easement. The extension shall terminate at the point where the most remote tap would be made. In instances where the sewer extension parallels or is in close proximity to adjacent property, a public right of way or easement must be provided to permit the extension of the sewer by others to serve the adjacent property.

C. If a sewer is in an easement for several sewer sections, a manhole shall be installed on that sewer within the right-of-way of a crossing street in order to provide access for truck mounted maintenance equipment.

D. Review of the plans and inspection prior to and during construction by the Industrial Pretreatment Section (IPS) of the Water Pollution Control (Wastewater Treatment) Plant and/or City Utilities

Water Resources Department shall be at the expense of the developer. The charge for review and approval of the sewer plans and inspection during installation of the sewers shall be satisfied by the developer at the time a contract for sewer extension is executed.

E. No person shall make use of a sewer extension, backfill or otherwise conceal a sewer installation unless and until the same has been inspected and approved by City Utilities. In addition to all other remedies, City Utilities may cause the said installation to be excavated and exposed, may terminate the connection, and may require the developer or contractor to pay or reimburse City Utilities for its costs and expenses in such excavation, exposure, termination, reconnection, and restoration.

F. The Board of Public Works may accept petitions from property owners requesting the extension of public sanitary sewers. Under the Board's policy, property owners abutting the sewer line shall pay for a portion of the cost of the sewer extension. For properties inside the City limits, the revolving Barrett Law program provides a financing mechanism for the property owners' share of the costs of a petition-initiated project. Contact the City Utilities Water Resources Department for more information about the petition process.

6. **LIMITATION OF CONCENTRATIONS PERMITTED IN INDUSTRIAL WASTES**

A. In accordance with the provisions of Section 51.033 of the Fort Wayne Code of Ordinances, the Board of Public Works, in order to protect the operation of the Water Pollution Control (Wastewater Treatment) Plant, the disposal of its sludge, and its discharge to the receiving stream, hereby limits the discharge of toxic ions, compounds, or substances entering the public sewage system not to exceed the concentration listed below:

Constituent	Daily Maximum Limitation (mg/1)
Arsenic	0.10
Cadmium	0.70

Chromium (Hexavalent)	0.50
Chromium (Total)	10.00
Copper	2.00
Cyanide	1.20
Lead	0.60
Mercury	0.01
Nickel	3.00
Phenol	1.00
Silver	0.30
Zinc	6.00

In addition to those pretreatment limitations specified in their individual pretreatment permits, photographic finishing industries will be limited to a daily maximum silver effluent limitation of 4.00 mg/l based on a maximum flow of 400,000 gallons per day per photographic discharger.

Non-major industries which discharge silver above the detection limit for silver (.01 mg/l) may be subject to pretreatment permits.

B. SAMPLE DISPUTE RESOLUTION.

In accordance with Section 51.040 of the Fort Wayne Code of Ordinances, the following procedure will be used in the event of a dispute between the Superintendent and the user as to the concentration, toxic nature or compliance status of the sample taken and analyzed by the City Utilities.

All such disputes shall be resolved consistent with the most current approved U.S. EPA or IDEM guidance documents and methodologies through an appeal filed by the industrial user. All appeals shall be resolved in an impartial manner through uniform application of the appeals procedures and considerations. Specifics of this process are set out in each Industrial Wastewater Discharge Permit and the steps for resolution of an appeal are contained in the *Industrial Pretreatment Section Enforcement Response Guide.* These documents may be modified as more accurate procedures become available. The following documents are the recognized authority at the date of approval of these Rules and Regulations:

a) U.S. EPA memorandum, January 21, 1992 - Determining Industrial User Compliance Using Split Samples.

b) Resolving Compliance Disputes, June 24, 1994 - Memorandum from City of Fort Wayne Law Department to Greater Fort Wayne Water Quality Subcommittee, and flow chart of same date.

6.1 LIMITATION OF CONCENTRATION OF OIL AND GREASE AND ACCEPTABLE RANGE OF pH.

A. Oil and grease (O&G) may be discharged to the Water Pollution Control (Wastewater Treatment) Plant in a concentration of 200 mg/l total for industries and commercial establishments whose O&G wastewater discharge historically contained primarily animal/vegetable O&G in their process as determined by their Standard Industrial Classification (SIC) code listed in the SIC Manual, 1987.

Within the City of Fort Wayne service area, these industries are:

a) Restaurants - SIC code 5812.

b) Bakery Products - SIC code 2051, 2052.

c) Potato chips and other snack foods - SIC code 2096.

B. If it becomes necessary to restrict the 200 mg/l total O&G limit in the future in order to protect the integrity of the Water Pollution Control Utility (Wastewater Utility), no penalty shall attach for discharge between the new, lower level and the current 200 mg/l total O&G limit for a period of ninety (90) days following action of the Board of Public Works approving the reduced limit.

C. It is the finding of the Board of Public Works that the following industries have been shown to not cause interference when total O&G is discharged in excess of 200 mg/l:

a) Dairy Products (milk) SIC code - 2026.

b) Dairy Products (ice cream) SIC code - 2024, 5143.

For the above industries such discharge shall be allowed to the extent the total O&G in the wastewater discharge does not cause interference with the public sewer system. For the purpose of determining compliance with this standard, an appropriate total O&G numerical limit shall be incorporated into such user's Industrial Wastewater Discharge Permit. The Board of Public Works grants the Superintendent limited power to evaluate the total O&G discharge of such a user and to grant such user an individual numerical total O&G limit greater than 200 mg/l (total) but no greater than 3000 mg/l.

The Superintendent's evaluation of an appropriate total O&G numerical limit for an individual user shall consider the user's historical discharge concentrations of total O&G and the impact, if any, of such discharge on the public sewer system.

The Superintendent shall monitor the effect of the user's discharge on the City's sewer system. Should the Director find that discharge at the higher, permitted level causes interference with the public sewer system, the Director shall promptly notify the user, at which point the Director shall negotiate an appropriate modification to said user's permit.

D. The acceptable range for pH is 6-12. Analysis shall be conducted on grab samples taken at the user's sampling point, as determined by the Superintendent.

6.2 **ADMINISTRATIVE ENFORCEMENT OF A/V O&G AND pH.**

A. This section shall apply only to those users described in Section 6.1 above. All other users shall be subject to the enforcement provisions set out in the City's Enforcement Response Plan and Section 51.111 of the Fort Wayne Code of Ordinances.

B. Routine samplings shall be conducted at least annually for all restaurants discharging to high maintenance sewer lines as designated by the Superintendent of Water Pollution Control Maintenance (WPCM). Any user found to have exceeded the 200 mg/l A/V O&G discharge limit upon initial sampling shall receive a written Notice of Exceedance. This notice may require the user to provide City Utilities' with a written explanation of its current and proposed means of regulating its O&G discharge, which plan is subject to the approval of the Superintendent of the Water Pollution Control (Wastewater Treatment) Plant. Thereafter, a second compliance sample shall be collected and analyzed by City Utilities. Based on the results of this compliance check, the following escalating administrative fines shall be assessed.

For each exceedance of the 200 mg/l limit thereafter, this fine schedule shall apply per occurrence. Further, any user found to have exceeded the 200 mg/l limit shall be subject to resampling within thirty (30) days from the date the Notice of Exceedance is mailed.

Milligrams/Liter
201 - 300.....$
200

301 - 500.....$
400

501 -1000.....$
600

over
1000.....$1,000

Excepted from the above fine schedule are users governed by O&G limits set in accordance with aforementioned Section 6.1 (C) of these Rules and Regulations. (SIC codes 2024, 2026 and 5143).

C. The following administrative fines may be assessed, per occurrence, to pH test results showing the user's pH level to be outside the approved range of 6 - 12.

±0.5 units from the standard....$ 100.00

±1.0 units from the standard....$ 200.00

±1.5 units from the standard....$ 350.00

± 2.0 units from the standard...$ 400.00

Greater than ±2.0 units
from the standard.....$ 500.00

D. The cost of gathering and analyzing a compliance sample following a finding of exceedance or non-compliance under 6.1 of these Rules and Regulations is built into the fine schedules set out in paragraphs B. and C. above.

7. **SEPTIC TANK CLEANINGS AND INDUSTRIAL WASTES ACCEPTED AT THE WATER POLLUTION CONTROL (WASTEWATER TREATMENT) PLANT**

A. Wastes that can be treated in digesters: Septic tank cleanings, milk whey and other wastes acceptable to the Superintendent for treatment in the plant digesters from waste hauler trucks will be handled by the Water Pollution Control (Wastewater Treatment) Plant for charges set out in Section 51.076 of the Fort Wayne Code of Ordinances.

B. Wastes that cannot be treated in digesters: Commercial or industrial wastes acceptable to the Superintendent, but which are not acceptable for treatment in the plant digesters (i.e., which must go to the Fort Wayne Biosolids Handling Facility or other disposal), and which are received from waste hauler tank trucks, will be handled by the Water Pollution Control (Wastewater Treatment) Plant on an individual contract basis as approved by the Director and the Board of Public Works, at a charge

adequate to reimburse the City Utilities for materials, labor, and overhead costs estimated to dispose of such wastes.

8. **FLOW METERING EQUIPMENT**

A. When an industry has been determined by the Superintendent to be a "Significant Industrial User," the Superintendent shall notify such industry and may, at Superintendent's sole discretion, require the installation, within one hundred twenty (120) days, of flow metering equipment for the purpose of determining the sewage flow or flows to the public sewer.

B. The specifications for any flow metering device and plans for installation shall be submitted to and approved by the Superintendent prior to its installation.

C. The cost of, and responsibility for, installation and maintenance of such equipment shall be the sole responsibility of said user.

D. The Board of Public Works may, upon application and proof of economic hardship or other reason, extend the time within which such equipment must be installed.

9. **CONTROL MANHOLES**

A. Any person who discharges or may discharge industrial wastes into a public sewer via any means may be required by the Superintendent to construct and maintain, at his own expense, one or more control manholes, at a specified location or locations, to facilitate the observation, measurement, and sampling of owner's waste. Such manholes shall be constructed in accordance with the standards and specifications of the City Utilities Water Resources Department *Development Criteria/Standards Manual*. The Superintendent may also require the person to install and maintain in any such manhole, at said person's expense, an approved volume-measuring device. Plans and/or shop drawings for the installation of control manholes and related equipment shall be approved by the Superintendent before any construction is begun.

B. Any building sewer which will have or has the potential of discharging prohibited wastes and/or wastes in excess of normal domestic sewage shall have a control manhole installed in accordance with either the City Resources Water Resources Department *Development Criteria/Standards Manual* or an alternate mechanism for sampling approved by the Superintendent.

C. City Utilities has deemed it necessary to require the installation of a control manhole in all building sewer lines where the Superintendent has determined that any of the following conditions exist:

a) Abnormal maintenance of the sewer has been required to prevent and/or correct the occurrence of blockages, back-ups, etc., which have resulted in property damage; and evidence indicates that the abnormal maintenance is the result of the discharge of wastes in excess of limitations set forth in the Fort Wayne Code of Ordinances.

b) There exists a concentration of persons discharging wastes into a public sewer through a building sewer or sewers not having control manholes.

c) The results of laboratory analysis have demonstrated that the strength of wastes being discharged into the public sewer are in excess of limitations set forth in the Fort Wayne Code of Ordinances.

D. The Superintendent shall notify, in writing, any person who has been identified to be in violation of any of the above-mentioned conditions and shall require such person or persons to install one or more control manholes.

E. Following notification, a control manhole shall be installed within one hundred twenty (120) days. Failure to install the control manhole within 120 days shall be considered a violation of these Rules and Regulations.

F. Control manholes shall be located upon private property, shall receive all wastes from the property

and shall be readily accessible to representatives of the Water Pollution Control Utility (Wastewater Utility) in order to facilitate observation, measurement, and sampling of the waste being discharged.

G. The cost of and responsibility for installation and maintenance of control manholes and flow-metering equipment shall be the sole responsibility of the property owner or utility user.

H. The Board of Public Works may, upon application and proof of economic hardship or other reason, extend the time within which such equipment must be installed.

10. **GREASE AND SAND TRAPS**

A. Whenever the Superintendent determines that interceptors or traps are needed to protect the collection system or the Water Pollution Control (Wastewater Treatment) Plant from oil, grease, sand, or similar substances occurring in any person's sewage and so notifies the customer, then such traps shall be promptly installed by the customer at their expense and shall be so maintained by that person so that none of such substances can be discharged or carried over into the public sewers. All traps or interceptors shall meet the City Utilities Water Resources Department *Development Criteria/Standards Manual* standards as to construction, location, and installation.

B. Any non-residential building sewer which will have or has the potential of discharging waste containing oil, grease, sand or similar substances, shall have a grease and/or sand trap installed in a manner to provide, at all times, the effective removal of oil, grease, and/or similar substances before discharge to the public sewer.

C. The Water Pollution Control (Wastewater) Utility has deemed it necessary to require the installation of a grease and/or sand trap in either the building sewer or within the building's plumbing system in accordance with the minimum requirements of the *Uniform Plumbing Code, Latest Edition,* Chapter 7, where the Superintendent has determined that any one of the following conditions exist:

a) Excessive maintenance of the sewer has been required to prevent the occurrence of blockages, back-ups, etc., resulting in property damage; and evidence indicates that the cause of this excessive maintenance is the discharge of prohibited wastes and/or wastes in excess of limitations set out in the Fort Wayne Code of Ordinances.

b) There exists a concentration of persons discharging prohibited wastes into a public sewer without the benefit of any grease, and/or sand trap.

c) The results of laboratory analysis have demonstrated that the strength of wastes being discharged into the public sewer are in excess of the limitations set out in the Fort Wayne Code of Ordinances.

D. The Superintendent shall notify, in writing, any person who has been identified to be in violation of any of the above-mentioned conditions and shall require such person or persons to install and/or maintain an existing grease and/or sand trap.

E. Following notification, the grease and/or sand trap shall be installed within one hundred twenty (120) days. Failure to install the grease and/or sand trap within 120 days shall be considered a violation of these Rules and Regulations.

F. If notification is given that maintenance is required, said maintenance shall be carried out within thirty (30) days, after which time the user shall be considered to be in violation of these Rules and Regulations.

G. The cost of, and responsibility for installation and maintenance of grease and sand traps shall be the sole responsibility of the property owner or utility user.

H. The Board of Public Works may, upon application and proof of economic hardship or other reason, extend the time within which such equipment must be installed.

11. SUBMISSION OF DATA ON INDUSTRIAL WASTE

All industries subject to federal categorical standards shall file with the Industrial Pretreatment Section, a scan for Total Toxic Organics (TTOs) or a Toxic Organic Management Plan (TOMP) at least biannually or whenever a process change occurs, whichever occurs first.

All industrial users shall include certification statements with all self-monitoring reports as set out in 40 CFR 403.6(a)(2)(ii).

An industrial user shall notify the Industrial Pretreatment Section within twenty-four (24) hours of becoming aware of a violation of Chapter 51 of the Fort Wayne Code of Ordinances or of its wastewater discharge permit.

12. PUBLIC NOTIFICATION

In accordance with the provisions of 40 CFR 403.8(f)(2)(viii), the City shall annually publish in Allen County's largest daily newspaper, a list of all Significant Industrial Users which are in Significant Non-Compliance.

13. SPECIAL DISCHARGES

A. Any and all discharge of water from swimming pools shall be directed to a sanitary sewer. No discharge from swimming pools shall be allowed to flow, either directly or indirectly, on to the ground of the pool owner, on to the ground of other private property, or on to any public property or roadway.

B. Swimming pool discharges are allowed in the municipal separate storm sewer system under the following conditions:

   a) The chlorinated water must sit idle for seven (7) days following the most recent chlorination prior to discharge to a storm sewer; or

   b) The swimming pool water must be analyzed to show that the discharge does not contain detectable concentrations of chlorine residual (less than 0.05mg/l).

Approval for discharge of swimming pool water into the storm sewer system must be given by the Superintendent of Water Pollution Control Maintenance.

C. Under no circumstances shall anyone discharge any wastewater into any City owned or maintained inlet, catch basin or manhole without approval from the Superintendent of Water Pollution Control Maintenance.

14. SERVICE CHARGES

A. General

a) Charges for sewer service shall be computed and billed by City Utilities. Bills shall be rendered monthly, approximately every 30 days, unless additional billing is required to reflect customer changes, meter changes, service terminations, initial billings, or is otherwise required to adjust billing cycles.

b) Billings for sewer service shall be rendered with and shall be due and payable on the same due date as billings for water service to the same premises, if any. If none, then within such billing cycle as City Utilities may determine.

c) Bills shall be rendered monthly. If a bill is not paid on or before the due date indicated on the bill (approximately 15 days after the bill is mailed to the customer), the bill shall be considered delinquent. Should this remain delinquent for a period of 25 days, service may be terminated by City Utilities.

The rates, charges, penalties and surcharges set out herein and/or as fixed in Chapter 51 of the Fort Wayne Code of Ordinances, shall extend to and cover any additional premises hereafter served, without hearing or notice. If the first billing to a new user covers a period other than a full billing month, then the charges

for sewer service for such billing shall be made in accordance with the Fort Wayne Water Utility Rules and Regulations.

d) Charges for sewer service shall be billed to the person being billed for water service, if any, unless, by contract with City Utilities, another person assumes responsibility for payment. In all other cases, sewer service shall remain the responsibility of the owner of the real estate, who shall hold the Utility harmless from any loss occasioned by the delinquency of the person billed, including all penalties, recording fees, attorney's fees, interest and court costs, if any.

e) The owner of the real estate shall, upon request to the City Utilities Customer Relations Department, have the right to examine the City Utilities' records of billing and collection to ascertain whether such charges have been paid, and the amount thereof.

f) Nothing herein contained shall permit the owner, or any person other than the person being billed, to inspect, examine or otherwise obtain confidential information including the income, employment, finances or social security number of the person being billed.

g) Charges for sewer service levied pursuant to Chapter 51 of the Fort Wayne Code of Ordinances, shall be due and payable on or before the due date stated on the bill. Further, a delinquent sewer bill may be collected with any applied penalty, recording fees, service charges, attorney's fees, interest and court costs, if any, in accordance with Chapter 51 of the Fort Wayne Code of Ordinances and with Indiana Code Sections 36-9-23-31 through 36-9-23-34.

h) Sewer billing shall commence with the billing for water service, the meter set date or date of occupancy whichever shall first occur.

i) In the event the sewer user is not a metered Fort Wayne City Utilities water customer, charges shall be imposed and charged as follows:

1) Residential - In the event the sewer customer is served by a well or otherwise does not receive water through metered service, that user shall be billed flat charges as established for in-city or out-of-city service in Chapter 51 of the Fort Wayne Code of Ordinances; multi-family dwellings shall be billed at the appropriate flat rate multiplied by the number of units accommodated.

However, if the sewer user is a metered customer of another utility, City Utilities shall bill that user according to its metered water consumption. Readings obtained by City Utilities for such purpose shall be presumed to be correct so long as readings from said meter are accepted as accurate for water billing purposed by the utility supplying the water and the customer.

2) Metered Water (Commercial, Industrial, Institutional and Governmental) - If the sewer user is a metered customer of another utility, City Utilities shall bill that user according to its metered water consumption. Readings obtained by City Utilities for such purpose shall be presumed to be correct so long as readings from said meter are accepted as accurate for water billing purposes by the utility supplying the water and the customer.

3) Unmetered Water (Commercial, Industrial, Institutional and Governmental) - Customers with an unmetered water source shall be required to install a water or sewage meter as determined by the Director. All required meters shall be installed according to City Utilities' specifications, and the cost of installation, calibration and maintenance shall be the sole responsibility of the owner. The meter shall be used for billing purposes after it has been calibrated and accepted by City Utilities. The customer shall provide access to said water or sewage meter for the purpose of billing for sewer service.

4) City Utilities shall retain documentation supporting its estimates and the billings based thereon. Such determination of billings may be reviewed and adjusted by City Utilities at any time. However, no adjustments, additional charge or refund may be made more than six (6) years after the due date of the billing sought to be adjusted.

j) Any property found to be connected to a public sewer for the discharge of sewage without payment shall be placed on monthly billings immediately, and the user of the service shall be back-billed for the period of use either at the metered use charge or the monthly flat charge set out in Chapter 51 of the Fort Wayne Code of Ordinances.

B. Delinquencies

a) A penalty of ten (10%) percent of the amount of the charges for sewer service shall be attached to the current delinquent charges.

b) Where the property having a delinquent account for charges for sewer service is served by the City's Water Utility, City Utilities may, after reasonable notice to the person being billed, shut off water service to the property. Water service shall not be restored until the delinquent account, together with the costs of turning off and turning on the water, shall have been paid.

c) Delinquent charges for sewer services and applied penalties, recording fees, and service charges may be made a lien upon the property and may be collected in accordance with the provisions of Indiana Code 36-9-23-32 and 36-9-23-33.

d) In addition to all other remedies provided, the City Utilities may disconnect sewer service to the property. Sewer service shall not be restored until the delinquent account, together with the costs of terminating and reconnecting the sewer service, shall have been paid.

e) In addition to the foregoing remedies, City Utilities may file a civil action *to* recover the amount of the charges for sewer services penalties, and a reasonable attorney's fee, and may foreclose liens established by Chapter 51 of the Fort Wayne Code of Ordinances and in accordance with Indiana Code 36-9-23-34 when the delinquent party is the property owner.

15. **ENFORCEMENT**

A. In accordance with Chapter 51, Section 51.111 of the Fort Wayne Code of Ordinances, the power to enforce the provisions of Chapter 51 not specifically dealt with elsewhere shall be vested in the Director, and such deputies, with the approval of the Board of Public Works, as may be appointed for such purposes.

B. Whenever said Director or any such deputy shall deem it appropriate to charge any person with a violation(s) of Chapter 51, a Notice of Violation and/or Summons may be issued to such person which

shall be processed according to the provisions of Indiana Code (34-28-5-1). As an alternative, the Director may employ administrative remedies in accordance with Indiana Code 36-1-6-9 and the Fort Wayne Code or Ordinances.

16. **ENFORCEMENT PROCEDURE**

A. It shall be the policy of City Utilities to enforce the provisions of Chapter 51 in accordance with Section 51.111 of the Fort Wayne Code of Ordinances. However, contractually specified enforcement procedures where City Utilities is a party to the contract and which conflict with any portion of Section 51.111, shall take precedence over the conflicting portion of said Section.

B. Specific enforcement responses by the City are more fully set out in the City's Enforcement Response Plan, which is specifically incorporated into each Industrial Waste Discharge Permit and into these Rules and Regulations by reference.

C. All actions taken by City Utilities requiring a response by the user shall be made in writing and sent by certified mail to ensure receipt by the user.

17. **RIGHT OF APPEAL**

A. Any party aggrieved by an order or determination of the Water Pollution Control (Wastewater) Utility other than a billing and payment issue may, within fifteen (15) days after receipt of a Notice informing such party of the decision or order, appeal such decision or order to the Board of Public Works or its designated hearing officer by filing a petition seeking such appeal with the Clerk of the Board of Public Works stating the basis of such appeal, including the alleged error in the decision or order. After receipt of such petition, the Board of Pubic Works or its designated hearing officer, after due and proper notice to all parties, shall hold a hearing on said petition and at the conclusion thereof or within thirty (30) days thereafter, enter a decision either affirming, denying, revising, amending, altering, or modifying such decision or order as the Board of Public Works,

by majority vote, shall so rule. A party or person aggrieved by the Board of Public Works shall have the right to judicial review of such determination in accord with and pursuant to the same provision of the Indiana Administrative Adjudication Act (4-21.5-1-1 et seq.) as are applicable to appeals and review of decisions of agencies of the State of Indiana.

B. Any person aggrieved by any charge or billing determination by City Utilities may request and shall be granted an Administrative Appeal. Disputing the accuracy of a bill shall not be a valid reason for non-payment or partial payment of a bill by the customers, and shall not stay the accrual of finance charges on the delinquency. The customer may pay a bill under protest, giving written notice that an appeal is being sought. Such written notices must be filed with the Manager of the City Utilities Customer Relations Department prior to the due date of the bill.

The customer shall first discuss the determination with a Supervisor. If the dispute is not resolved to the customer's satisfaction, the facts concerning the dispute shall be reduced to writing by the customer. The customer and City Utilities may submit, in writing, any information they deem appropriate, to the Director, or a designated hearing officer who shall conduct, as soon as practicable, an informal hearing to determine and resolve the dispute. The Determination by such hearing officer shall be final and shall constitute the final administrative determination pursuant to IC 4-21.5-1-1 et seq.

18. PRESENT RULES SUPERSEDE PRIOR RULES

All rules and regulations heretofore promulgated by the Water Pollution Control (Wastewater) Utility governing the service supplied by the Utility are superseded and replaced by the foregoing Rules and Regulations of the Water Pollution Control (Wastewater) Utility and/or other specifications, rules and regulations referred to herein and made a part hereof.

19. REMEDIES NOT EXCLUSIVE

The remedies provided to the Water Pollution Control (Wastewater) Utility by these Rules and Regulations shall not be exclusive and shall be in addition to all other remedies which the Water Pollution Control (Wastewater) Utility has in law or equity.

20. **AMENDMENTS AND REVISIONS**

The Board of Public Works of the City of Fort Wayne, Indiana, reserves the right, by appropriate action, to amend, modify, delete, change or otherwise revise these Rules and Regulations as it may deem, from time to time, to be desirable and/or necessary.

APPROVED by the Board of Public Works in its regular meeting, May 15,2002.

CITY OF FORT WAYNE
BOARD OF PUBLIC WORKS

_____
Ted Rhinehart, Chairman

_____
John Suarez, Member

_____
Denise Porter-Ross, Member

ATTEST:

_____
Carolyn S. Newport, Clerk

RESOLUTION NO. 89-103-27
POLICY CONCERNING COST OF BUILDING SEWER OR TAP REPAIR

WHEREAS, private building sewers, including the tap to the public sewer main, are the responsibility of the owner of the property served to maintain and repair; and

WHEREAS, a broken building sewer or tap may cause damage to the public sewer system or to a street, alley or other surface improvement in the public right of way and become a general detriment to the public; and

WHEREAS, the depth, location and size of the public sewer may have a significant impact on the cost of repairing a building sewer and/or tap; and

WHEREAS, the portion of the building sewer or tap that is most costly to repair is typically the portion within 20 feet of the public sewer main or the portion within the public right of way; and

WHEREAS, the cost of repairing this portion of the building sewer or tap typically exceeds $3,700.00; and

WHEREAS, The Board of Public Works has previously passed a Resolution No. 80-165-5, which initially addressed the subject of this Resolution; and

WHEREAS, The Board of Public Works desires to revise said Resolution No. 80-165-5 and to establish this policy under which the City and the property owner may share in the cost for repairing that portion of the building sewer most affected by main depth, location and size in those circumstances where the cost exceeds the typical price. Further, the Board of Public Works wishes to provide the property owner with a financing mechanism for its share of the cost when the owner meets the guidelines contained in this policy.

NOW THEREFORE, be it resolved by the Board of Public Works of the City of Fort Wayne, Indiana that:

1. This policy shall only apply to building sewers and taps serving residential properties. A residential property is defined in the *City of Fort Wayne, Indiana Code of Ordinances* 51.050 (A) (12) as "a building used as a one or two-family dwelling."

2. If the repair is located within 20 feet of the public sewer main or within the public right of way,

and the cost of the repair exceeds $3,700.00, the property owner's share of the cost may be capped at $3,700.00 and Fort Wayne City Utilities shall pay the balance of the cost if all other requirements of this policy are met.

3. The cost of the repair undertaken by the property owner shall be documented by a submittal of three written quotes from licensed sewer tap contractors. The Water Pollution Control Maintenance Department (WPCM) shall review quotes. If the WPCM staff determines all quotes are unreasonably high, City Utilities may request quotes from three additional firms. If the WPCM staff finds that the quotes do not represent a fair price for the work, an outside engineering firm may be retained by City Utilities to review the quotes and/or prepare an estimate of the cost of the repair work.

   City Utilities shall pay only the documented amount that is in excess of the $3,700 cap but shall not pay more than the difference between $3,700 and the total cost shown in the lowest quote. If the estimate by an outside engineering firm retained by City Utilities is determined to be the fair price for the work, City Utilities shall pay only the difference between the $3,700 cap and the total amount for the work determined by the outside engineering firm to be reasonable.

4. In order to be considered for the cost share program, the property owner or contractor must notify the Water Pollution Control Maintenance Department of a tap problem before any excavation or repair work is undertaken.

5. WPCM shall determine if the disrepair is causing damage to the public sewer system or to a surface improvement. If no damage is resulting to the public sewer system or to a public surface improvement, and if the disrepair is located more than 20 feet from the public sewer main or is outside the public right of way, Fort Wayne City Utilities is under no obligation to participate in a repair and the property owner is not eligible for a cost share under this policy.

6. The WPCM Department shall have the authority to order property owners to make repairs to a building sewer or tap when it has been determined by WPCM that the disrepair has a detrimental effect on the

public sewer system or is causing damage to street, alley or other surface improvement. Such order shall be sent to the property owner by certified-mail, return receipt requested.

7. If the property owner fails to make the necessary repair within ten (10) days of an order to do so, or if WPCM determines that an emergency exists because of damage to the public sewer system or damage to street, alley or other surface improvement, WPCM shall make the repair or have the repair made after notifying the property owner in writing of the decision to do so. Such notification will be sent to the property owner by certified-mail, return receipt requested.

8. If WPCM makes the repair or has the repair made, City Utilities shall have the authority to charge the property owner for the first $3,700.00 toward the total cost of the repair. The property owner shall pay to City Utilities its share of the cost of the building sewer or tap repairs within 30-days.

9. The property owner may apply to have its share financed over a period of time if the following guidelines are met:

    A. The property owner's income can be documented to be at or below 100% of median household income as established by the U.S. Department of Housing and Urban Development;
    B. The property owner has not had service by City Utilities discontinued for non-payment at the repair address or any other address in past two (2) years;
    C. Housing and Neighborhood Development Services (HANDS) has approved and works with the property owner on a suggested repayment schedule. In no case shall repayment be extended over a period of longer than 36 months.

10. The financing program shall be administered by HANDS based on application of the guidelines in Section 9 of this policy. HANDS will review each application and make a recommendation to Fort Wayne City Utilities on eligibility, creditworthiness, and suggested repayment schedule. Appeal of the recommendation from HANDS shall be made to the

Associate Director of Finance - Fort Wayne City Utilities.

This Resolution represents a revision of Resolution 80-165-5, and shall supersede and replace the previous Resolution on the effective date of this document.

Adopted this 3rd day of April, 2002 and effective on June 1, 2002.

BOARD OF PUBLIC WORKS

By: _____
Ted Rhinehart, Chair

By: _____
John Suarez, Member

By: _____
Lin Wilson, Member

ATTEST _____
Carolyn S. Newport, Clerk

A RESOLUTION AMENDING THE
GENERAL RULES AND REGULATIONS
OF THE FORT WAYNE WATER POLLUTION CONTROL UTILITY
BY THE BOARD OF PUBLIC WORKS
CITY OF FORT WAYNE, INDIANA

WHEREAS, recently a meeting was held with members of the general public concerning the accuracy and meaning of the wording in the Regulations of the Fort Wayne Water Pollution Control Utility ("regulations"); and

WHEREAS, after said meeting the staff conducted a review of said regulations and have determined that clarification was needed with regard to the necessity of recordation to validate a "contract purchaser;" and

WHEREAS, staff recommend that the definition of "Owner" on page 7 of said regulations be amended as follows:

""**OWNER**" - Designates the person holding the deed or record title to a premesis. For the purposes of these Rules and Regulations, a contract purchaser is ~~not~~ considered an owner **of an equitable interest in the subject real estate** ~~unless the contract has been duly recorded in the Allen County Recorder's Office~~. **Recordation of said contract is not necessary to validate said interest.**"

NOW, THEREFORE, THE BOARD OF PUBLIC WORKS HEREBY AMENDS THE GENERAL RULES AND REGULATIONS OF THE FORT WAYNE WATER POLLUTION CONTROL UTILITY AS FOLLOWS:

(Pg. 7)

""**OWNER**" - Designates the person holding the deed or record title to a premesis. For the purposes of these Rules and Regulations, a contract purchaser is considered an owner of an equitable interest in the subject real estate. Recordation of said contract is not necessary to validate said interest."

SECTION 2. This amendment to the General Rules and Regulations shall be effective as of the 4th day of December, 2002.

Signed the 4th day of December, 2002.

CITY OF FORT WAYNE
BOARD OF PUBLIC WORKS

BY: _____
Ted Rhinehart, Director

_____
John Suarez, Member

_____
Denise Porter-Ross, Member

ATTEST: _____
Carolyn S. Newport, Clerk

A RESOLUTION AMENDING THE
GENERAL RULES AND REGULATIONS
OF THE FORT WAYNE WATER POLLUTION CONTROL UTILITY
BY THE BOARD OF PUBLIC WORKS
CITY OF FORT WAYNE, INDIANA

Whereas, from time to time it is determined by the Board of Public Works that changes to the General Rules and Regulations governing the operation of Fort Wayne's Water Pollution Control Utility are necessary and desirable for the protection of the Utility's customers and the Utility; and

Whereas, in 2003 Utility staff have investigated approximately 11,000 sewer only accounts held in the names of tenants that were experiencing high past-due bills or had repeatedly had their accounts closed for non-payment; and

Whereas, it is desirable to protect tenants in these circumstances from continuing to accumulate accounts with past due bills; and

Whereas, it is desirable to outline circumstances in which past due, sewer only accounts held in tenants' names would be administratively returned to the name of the owner of the property for future bill payment.

Now Therefore, be it resolved by the Board of Public Works, that Item 14-A-d in the Water Pollution Control Utility Rules and Regulations adopted by the Board of Public Works and effective on May 15, 2002 is hereby stricken and replaced with the following:

14. A (Pg.30)
"d – i. Charges for sewer service shall be billed to the person being billed for water service if the real estate has water service provided by Fort Wayne City Utilities. If a person other than the person being billed for water service wishes to assume responsibility for payment of the charges for sewer service, that person must sign a contract with City Utilities.

d – ii. In cases where there is no water service provided by Fort Wayne City Utilities, and/or where no valid contract for sewer service exists, payment for sewer service shall remain the responsibility of the property owner.

d – iii. For sewer service accounts where Fort Wayne water is not available or where water is provided by a private source such as a well, if the Utility shall determine that the sewer service address has experienced customers with excessive uncollected

billings during the most recent 12 months and such billings total in excess of $200.00 (two hundred dollars and zero cents), Fort Wayne City Utilities shall have the right to return the account to the name of the owner of record of the real estate. Before such a change is made, the owner of record must be provided with notice in writing, sent by certified mail 14 (fourteen) working days before said change is to take effect, that such a change is to be made to the account.

In cases where the sewer account is placed in the owner's name by administrative action, responsibility for payment of future charges for sewer service shall remain with the owner of record of the real estate until such time as the property is vacated or until a new customer executes a contract for service at the given address in his/her/their name(s)."

Be it further resolved by the Board of Public Works that because it is desirable to give the Water Pollution Control Utility staff a greater ability to control abuses of sewer tap contractor's licenses, Item 4 is amended by the addition of the following:

(Pg. 18)
"J. Mishandling of a sewer tap license/registration issued by Fort Wayne City Utilities may result in the suspension of the license with reinstatement to be at the discretion of City Utilities, and said reinstatement shall be based upon the severity of the infraction. If a contractor has his/her license suspended two (2) times for mishandling and said license has been reinstated two (2) times, a third offense shall result in a permanent suspension of the license/registration."

These amendments to the General Rules and Regulations shall be effective as of the _____ day of _____, 2004.

Signed the _____ day of _____, 2004.

CITY OF FORT WAYNE
BOARD OF PUBLIC WORKS

By:

_____
Robert P. Kennedy, Chair

_____
Denise Porter-Ross, Member

_____
John Suarez, Member

ATTEST: _____
Justin Brugger, Clerk

APPENDIX D

Criteria and Values for Selected Substances Calculated Using the Great Lakes Basin Methodologies

CRITERIA AND VALUES FOR SELECTED SUBSTANCES CALCULATED USING THE GREAT LAKES BASIN METHODOLOGIES

CAS Number	Substance	Acute Aquatic Life (µg/L)	Date	Chronic Aquatic Life (µg/L)	Date	Human Health Cancer (µg/L)	Date	Human Health Noncancer (µg/L)	Date	Wildlife (µg/L)	Date
83329	Acenaphthene	140[T2]	8/17/00	27[T2]	8/17/00			1,200 (D)[T2] 4,200 (ND)	3/20/00		
208968	Acenaphthylene	ID	8/8/01	ID	8/8/01			ID	3/20/00		
75070	Acetaldehyde[C]	1200[T2]	8/17/00	130[T2]	8/17/00	ID	3/20/00	ID	3/20/00		
34256821	Acetochlor	ID	3/30/01	ID	3/30/01			450 (D)[T1] 2,300 (ND)	3/30/01		
67641	Acetone	15,000[T1]	8/17/00	1,700[T2]	8/17/00			2,800 (D)[T1] 220,000 (ND)	3/20/00		
107028	Acrolein	0.85[T2]	8/18/00	0.19[T2]	8/18/00			ID	3/21/00		
107131	Acrylonitrile[C]	570[T2]	8/18/00	63[T2]	8/18/00	0.53 (D)[T1] 3.0 (ND)	3/21/00	ID	3/21/00		
15972608	Alachlor	190[T2]	8/21/00	21[T2]	8/21/00			210 (D)[T1] 820 (ND)	3/21/00		
309002	Aldrin[C,BCC]	0.15[T2]	8/21/00	0.035[T2]	8/21/00	2.4×10^{-6} (D)[T2] 2.4×10^{-6} (ND)	3/23/00	8.2×10^{-5} (D)[T2] 8.2×10^{-5} (ND)	4/4/00		
7429905	Aluminum	UR	9/25/01	UR	9/25/01			970 (D)[T2] 4,500 (ND)	3/23/00		
120127	Anthracene	6.1[T2]	8/22/00	0.68[T2]	8/22/00			590 (D)[T2] 630 (ND)	3/24/00		
7440360	Antimony	720[T2]	8/22/00	80[T2]	8/22/00			10 (D)[T1] 2,000 (ND)	3/24/00		
7440382	Arsenic[C]	339.8[R]	8/26/98	147.9[R]	8/26/98	UR	5/16/01	10 (D)[T1] 230 (ND)	3/24/00		
1912249	Atrazine	330[T1]	10/13/99	12[T1]	10/13/99			920 (D)[T2] 15,000 (ND)	3/24/00		

7440393	Barium	$e^{1.0629(\ln(hardness))+2.2354}$ T2	12/4/02	$e^{1.0629(\ln(hardness))+1.1869}$ T2	12/4/02						
71432	Benzene[C]	880[T2]	8/22/00	98[T2]	8/22/00	12 (D)[R] 310 (ND)	8/26/98	19 (D)[R] 510 (ND)	8/26/98		
92875	Benzidine[C]	14[T2]	8/22/00	1.5[T2]	8/22/00	1.5×10^{-3} (D)[T1] 7.5×10^{-2} (ND)	3/24/00	74 (D)[T1] 3,700 (ND)	4/4/00		
56553	Benzo(*a*)anthracene[C]	0.23[T2]	8/23/00	0.025[T2]	8/23/00	ID	3/28/00	ID	3/28/00		
205992	Benzo(*b*)fluoranthene[C]	ID	4/1/97	ID	4/1/97	ID	3/28/00	ID	3/28/00		
207089	Benzo(*k*)fluoranthene[C]	ID	8/11/99	ID	8/11/99	ID	3/28/00	ID	3/28/00		
191242	Benzo[g,h,i]perylene[C]	ID	7/29/99	ID	7/29/99	ID	3/28/00	ID	3/28/00		
65850	Benzoic Acid	ID	4/15/98	ID	4/15/98			110,000 (D)[T1] 3,900,000 (ND)	3/28/00		
50328	Benzo(*a*)pyrene[C]	UR	5/31/02	UR	5/31/02	0.032 (D)[T1] 0.096 (ND)	12/4/02	ID	4/4/00		
7440417	Beryllium[C]	$e^{2.528(\ln(hardness))-8.572}$ T2	4/6/99	$e^{2.528(\ln(hardness))-10.77}$ T2	4/6/99	ID	3/28/00	40 (D)[T1] 300 (ND)	3/28/00		
108601	bis(2-chloroisopropyl) ether	ID	9/18/97	ID	9/18/97			990 (D)[T1] 48,000 (ND)	3/31/00		
542881	bis(chloromethyl)ether[C]	ID	6/18/99	ID	6/18/99	0.0016 (D)[T1] 0.11 (ND)	3/31/00	ID	3/31/00		
117817	Bis(2-ethylhexyl) phthalate (DEHP)[C]	N/A	12/17/98	N/A	12/17/98	2.5 (D)[T2] 2.8 (ND)	4/3/00	54 (D)[T2] 60 (ND)	4/3/00		
7440428	Boron	3,200[T2]	8/23/00	360[T2]	8/23/00			ID	4/3/00		
75252	Bromoform[C]	1,100[T2]	8/23/00	61[T2]	8/23/00	42 (D)[T1] 710 (ND)	4/7/00	470 (D)[T1] 8,100 (ND)	4/7/00		
78933	2-Butanone	120,000[T2]	8/23/00	14,000[T2]	8/23/00			16 (D)[T1] 1300 (ND)	4/7/00		
7440439	Cadmium[C]	$e^{1.128(\ln(hardness))-3.6867}$ R	8/26/98	$e^{0.7852(\ln(hardness))-2.715}$ R	8/26/98	ID	4/7/00	14 (D)[T1] 1400 (ND)	4/7/00		
75150	Carbon Disulfide							3,000 (D)[T1] 100,000 (ND)	4/7/00		

56235	Carbon Tetrachloride[C]	360[T2]	10/04/00	40[T2]	10/04/00	2.4 (D)[T1] 19 (ND)	4/11/00	17 (D)[T1] 120 (ND)	4/11/00		
10599903	Chloramine	ID	6/06/02	ID	6/06/02						
57749	Chlordane[C,BCC]					0.00025 (D)[R] 0.00025 (ND)	8/26/98	0.0014 (D)[R] 0.0014 (ND)	8/26/98		
	Chlorides	860,000[R]	8/26/98	230,000[R]	8/26/98						
7782505	Chlorine (total residual)	19[R]	8/26/98	11[R]	8/26/98						
7782505	Chlorine (intermittent)	200[R]	8/26/98								
108907	Chlorobenzene							470 (D)[R] 3,200 (ND)	8/26/98		
124481	Chlorodibromomethane[C]	ID	10/2798	ID	10/27/98	4 (D)[T1] 86 (ND)	4/11/00	570 (D)[T1] 12,000 (ND)	4/11/00		
75003	Chloroethane	ID	10/2798	ID	10/2798			ID	4/11/00		
110758	2-Chloroethyl vinyl ether	ID	10/2898	ID	10/2898			ID	4/11/00		
67663	Chloroform[C]	1300[T2]	10/05/00	170[T2]	10/05/00	56 (D)[T1] 1,700 (ND)	4/11/00	350 (D)[T1] 11,000 (ND)	4/11/00		
74873	Chloromethane (methyl chloride)	ID	10/2898	ID	10/2898						
16065831	Chromium III	$e^{0.819(\ln(hardness))+3.7256}$ R	8/26/98	$e^{0.819(\ln(hardness))+0.6848}$ R	8/26/98			410,000 (D)[T1] 43,000,000 (ND)	4/11/00		
18540299	Chromium VI	16.02[R]	8/26/98	10.98[R]	8/26/98			230 (D)[T1] 25,000 (ND)	4/11/00		
218019	Chrysene[C]	ID	9/3/96	ID	9/3/96	ID	4/11/00	ID	4/11/00		
7440484	Cobalt	120[T2]	1/12/01	19[T2]	1/12/01			ID	4/11/00		
7440508	Copper	$e^{0.9422(\ln(hardness))-1.700}$ R	8/26/98	$e^{0.8545(\ln(hardness))-1.702}$ R	8/26/98			280 (D)[T1] 56,000 (ND)	4/12/00		
21725462	Cyanazine	2,500[2]	3/29/01	270[T2]	3/29/01			ID	4/12/00		
57125	Cyanide	22[R]	8/26/98	5.2[R]	8/26/98			600 (D)[R] 48,000 (ND)	8/26/98		

94757	2,4-D	2,500[T2]	2/8/01	240[T2]	2/8/01			250 (D)[T1] 2,000 (ND)	4/12/00		
50293	DDT[C,BCC]	0.45[T1]	2/26/97	0.032[T2]	2/26/97	0.00015 (D)[R] 0.00015 (ND)	8/26/98	0.002 (D)[R] 0.002 (ND)	8/26/98	$1.1x10^{-5}$ [R]	10/1/98
333415	Diazinon	0.09[T1]	9/29/99								
53703	Dibenz[a,h]anthracene[C]	ID	8/11/99	ID	8/11/99	ID	4/12/00	ID	4/12/00		
132649	Dibenzofuran	65[T2]	1/3/97	7.3[T2]	1/3/97			ID	4/12/00		
111922	Dibutylamine	ID	6/23/98	ID	6/23/98			ID	4/12/00		
84742	Dibutyl phthalate[BCC]	34[T2]	3/30/01	19[T2]	3/30/01			31 (D)[T2] 31 (ND)	4/13/00		
95501	1,2-Dichlorobenzene	130[T2]	9/24/97	14[T2]	9/24/97			1700 (D)[T1] 6000 (ND)	4/13/00		
541731	1,3-Dichlorobenzene	310[T2]	9/25/97	52[T2]	9/25/97			ID	4/13/00		
106467	1,4-Dichlorobenzene	80[T2]	6/21/99	16[T2]	6/21/99			ID	4/13/00		
91941	3,3'-Dichlorobenzidine[C]	ID	6/21/99	ID	6/21/99	0.43 (D)[T1] 0.95 (ND)	4/13/00	ID	4/13/00		
75274	Dichlorobromomethane[C]	ID	10/19/98	ID	10/19/98	5.5 (D)[T1] 150 (ND)	4/17/00	480 (D)[T1] 13,000 (ND)	4/17/00		
75343	1,1-Dichloroethane	6,600[T2]	6/26/01	740[T2]	6/26/01			1,100 (D)[T2] 27,000 (ND)	4/17/00		
107062	1,2-Dichloroethane[C]	7,300[T2]	11/24/98	980[T2]	11/15/02	3.8 (D)[T1] 210 (ND)	4/17/00	ID	4/17/00		
75354	1,1-Dichloroethylene	1,900[T2]	6/22/99	210[T2]	6/22/99	N/A	11/25/02	240 (D)[T1] 4,100 (ND)	4/17/00		
156592	1,2-*cis*-Dichloroethylene	5,500[T2]	6/26/01	620[T2]	6/26/01			ID	4/17/00		
156605	1,2-*trans*-Dichloroethylene	5,000[T2]	9/19/01	560[T2]	9/19/01			470 (D)[T1] 25,000 (ND)	4/17/00		
120832	2,4-Dichlorophenol	120[T2]	4/06/01	17[T2]	4/06/01			71 (D)[T1] 450 (ND)	9/9/99		
542756	1,3-Dichloropropene[C]	17[T2]	12/1/98	1.9[T2]	12/1/98	3.4 (D)[T1] 170 (ND)	9/12/00	940 (D)[T1] 46,000 (ND)	9/12/00		

60571	Dieldrin[C,BCC]	0.24[R]	8/26/98	0.056[R]	8/26/98	$6.5x10^{-6}$ (D)[R] $6.5x10^{-6}$ (ND)	8/26/98	0.00041 (D)[R] 0.00041 (ND)	8/26/98	$7.0x10^{-5}$ [T1]	10/5/98
84662	Diethyl Phthalate							21,000 (D)[T1] 1,200,000 (ND)	3/7/00		
105679	2,4-Dimethylphenol	140[T2]	4/06/01	21[T2]	4/06/01			450 (D)[R] 8,700 (ND)	8/26/98		
131113	Dimethyl phthalate	2,800[T2]	4/3/01	1,000[T2]	4/3/01			ID	4/18/00		
80466	Dimethylpropyl phenol	ID	4/06/01	ID	4/06/01			ID	4/18/00		
51285	2,4-Dinitrophenol							55 (D)[R] 2,800 (ND)	8/26/98		
122667	1,2-Diphenylhydrazine[C]	9.6[T2]	6/22/99	1.1[T2]	6/22/99	0.36 (D)[T1] 2.1 (ND)	4/18/00	ID	4/18/00		
115297	Endosulfan	0.10[T1]	5/16/01	0.05[T1]	5/16/01			85 (D)[T2] 170 (ND)	9/15/99		
72208	Endrin[BCC]	0.086[R]	8/26/98	0.036[R]	8/26/98			0.187 (D)[T2] 0.193 (ND)	4/18/00		
100414	Ethylbenzene	1,000[T2]	5/16/01	110[T2]	5/16/01			2,100 (D)[T1] 9,100 (ND)	4/19/00		
106934	Ethylene Dibromide[C]	ID	7/27/99	ID	7/27/99	0.004 (D)[T1] 0.17 (ND)	4/19/00	ID	4/19/00		
107211	Ethylene Glycol	2,200,000[T2]	5/16/01	240,000[T2]	5/16/01			56,000 (D)[T1] 4,500,000 (ND)	4/19/00	73,000[T2]	3/15/99
206440	Fluoranthene	17[T2]	4/11/01	3.6[T2]	4/11/01			9.4 (D)[T2] 9.5 (ND)	4/19/00		
86737	Fluorene	22[T2]	5/16/01	2.4[T2]	5/16/01			250 (D)[T2] 320 (ND)	4/19/00		
16984488	Fluoride	12,000[T2]	5/18/00	3,400[T2]	5/18/00						
50000	Formaldehyde[C]	660[T2]	5/16/01	74[T2]	5/16/01	ID	4/20/00	3,200 (D)[T1] 320,000 (ND)	4/20/00		
1071836	Glyphosate	ID	2/19/99	ID	2/19/99						
76448	Heptachlor[C,BCC]					0.0016 (D)[T2] 0.0016 (ND)	3/7/00	0.29 (D)[T2] 0.29 (ND)	9/18/00		

118741	Hexachlorobenzene[C,BCC]					0.00045 (D)[R] 0.00045 (ND)	8/26/98	0.046 (D)[R] 0.046 (ND)	8/26/98		
87683	Hexachlorobutadiene[C,BCC]	ID	12/8/99	ID	12/8/99	0.22 (D)[T2] 0.24 (ND)	12/8/99	ID	12/8/99		
319-84-6	Alpha-Hexachloro-cyclohexane[C,BCC]					0.027 (D)[T2] 0.051 (ND)	3/8/00	ID	3/8/00		
319-85-7	beta-Hexachloro cyclohexane[C,BCC]	ID	2/10/00	ID	2/10/00	0.093 (D)[T2] 0.18 (ND)	3/9/00	ID	2/10/00		
608-73-1	Hexachloro-cyclohexane[C,BCC]					0.093 (D)[T2] 0.18 (ND)	3/9/00	ID	2/10/00		
77-47-4	Hexachlorocyclopentadiene							170 (D)[T1] 1,500 (ND)	3/15/00		
67721	Hexachloroethane[C]					5.3 (D)[R] 6.7 (ND)	8/26/98	6 (D)[R] 7.6 (ND)	8/26/98		
193395	Indeno[1,2,3-cd]pyrene[C]	ID	8/11/99	ID	8/11/99	ID	4/20/00	ID	4/20/00		
12040572	Iron(III)	ID	3/15/98	ID	3/15/98						
78591	Isophorone	7,500[T2]	5/17/01	830[T2]	5/17/01			4,100 (D)[T1] 110,000 (ND)	4/20/00		
7439921	Lead[T1, C]	$e^{1.273(\ln(\text{hardness}))-1.055}$	11/13/96	$e^{1.273(\ln(\text{hardness}))-4.003}$	11/13/96	ID	4/20/00	ID	4/20/00		
58899	Lindane[BCC]	0.95[T1]	8/24/99	0.11[T2]	8/24/99			0.47 (D)[R] 0.5 (ND)	8/26/98		
7439965	Manganese	$e^{0.8784(\ln(\text{hardness}))+2.992}$ T2	4/06/01	$e^{0.8784(\ln(\text{hardness}))+2.226}$ T2	4/06/01			ID	4/20/00		
7439976	Mercury[BCC]	1.694[R]	8/26/98	0.9081[R]	8/26/98			0.0018 (D)[R] 0.0018 (ND)	8/26/98	0.0013 [R]	10/1/98
67561	Methanol	3,000[T2]	7/17/01	330[T2]	7/17/01			14,000 (D)[T1] 1,100,000 (ND)	4/27/00		
72435	Methoxychlor							6.3 (D)[T2] 6.6 (ND)	4/28/00		
74895	Methylamine	7,700[T2]	4/12/99	860[T2]	4/12/99			ID	4/28/00		
75092	Methylene chloride[C]	14,000[T2]	7/17/01	1,500[T2]	7/17/01	47 (D)[R] 2,600 (ND)	8/26/98	1,600 (D)[R] 90,000 (ND)	8/26/98		

91576	2-Methylnaphthalene	ID	2/3/97	ID	2/3/97			ID	4/28/00		
95487	2-Methylphenol	600[T2]	5/15/01	67[T2]	5/15/01			1,400 (D)[T1] 44,000 (ND)	4/28/00		
106445	4-Methylphenol	480[T2]	5/15/01	53[T2]	5/15/01			ID	4/28/00		
108101	Methyl isobutyl ketone	ID	8/30/99	ID	8/30/99			ID	4/28/00		
1634044	Methyl *tert*-butyl ether	6500[T2]	9/18/01	730[T2]	9/18/01			ID	4/28/00		
51218452	Metolachlor	ID	2/15/99	ID	2/15/99			3,000 (D)[T1] 11,000 (ND)	7/26/00		
2385855	Mirex[BCC]							7.3×10^{-4} (D)[T1] 7.3×10^{-4} (ND)	7/26/00		
7439987	Molybdenum	1200[T2]	9/18/01	800[T2]	9/18/01						
91203	Naphthalene	200[T2]	9/18/01	26[T2]	9/18/01			490 (D)[T1] 1,900 (ND)	7/26/00		
1338245	Naphthenic Acid	ID	7/20/99	ID	7/20/99			ID	7/26/00		
7440020	Nickel	$e^{0.846(\ln(\text{hardness}))+2.255}$ R	8/26/98	$e^{0.846(\ln(\text{hardness}))+0.0584}$ R	8/26/98			460 (D)[T1] 42,000 (ND)	7/26/00		
98953	Nitrobenzene	1,000[T2]	9/18/01	220[T2]	9/18/01			13 (D)[T1] 28,000 (ND)	7/26/00		
88755	2-Nitrophenol	650[T2]	5/15/01	73[T2]	5/15/01			ID	7/26/00		
100027	4-Nitrophenol	530[T2]	4/14/99	58[T2]	4/14/99			ID	7/26/00		
55185	*N*-Nitrosodiethylamine[C]	ID	7/15/99	ID	7/15/99	0.0023 (D)[T1] 0.18 (ND)	8/23/00	ID	8/23/00		
62759	*N*-Nitrosodimethylamine[C]	ID	7/20/99	ID	7/20/99	0.0068 (D)[T1] 0.55 (ND)	7/20/99	ID	7/20/99		
924163	*N*-Nitrosodi-n-butylamine[C]	ID	7/21/99	ID	7/21/99	0.06 (D)[T1] 0.73 (ND)	8/24/00	ID	8/24/00		
621647	*N*-Nitrosodipropylamine[C]	ID	2/15/00	ID	2/15/00	0.049 (D)[T1] 2.9 (ND)	3/9/00	ID	8/24/00		
86306	*N*-Nitrosodiphenylamine[C]	220[T2]	9/19/01	25[T2]	9/19/01	36 (D)[T1] 74 (ND)	8/24/00	ID	8/24/00		

993552	*N*-Nitrosopyrrolidine[C]	ID	7/22/99	ID	7/22/99	0.16 (D)[T1] 13 (ND)	9/15/00	ID	8/24/00		
25154523	Nonylphenol	25[T1]	9/29/99	6.6[T1]	9/29/99						
29082-74-4	Octachlorostyrene[BCC]	ID	2/9/00	ID	2/9/00			ID	2/9/00		
56382	Parathion	0.065[R]	8/26/98	0.013[R]	8/26/98			ID	9/14/00		
608935	Pentachlorobenzene[BCC]	16[T2]	12/7/99	3.1[T2]	12/7/99			0.18 (D)[T1] 0.18 (ND)	12/8/99		
87865	Pentachlorophenol[C]	$e^{1.005(pH)-4.869}$ [R]	8/26/98	$e^{1.005(pH)-5.134}$ [R]	8/26/98	2.8 (D)[T1] 84 (ND)	9/14/00	820 (D)[T1] 24,000 (ND)	9/14/00		
85018	Phenanthrene	8.4[T2]	9/19/01	0.93[T2]	9/19/01			ID	9/14/00		
108952	Phenol	1,300[T1]	5/22/02	180[T2]	5/22/02			2,000 (D)[T2] 2,300 (ND)	9/14/00		
57556	Propylene glycol	700,000[T2]	9/19/01	78,000[T2]	9/19/01			700,000 (D)[T1] 56,000,000 (ND)	9/15/00	900,000[T2]	3/15/99
1336363	PCBs[C,BCC]					6.8×10^{-6} (D)[R] 6.8×10^{-6} (ND)	8/26/98			1.2×10^{-4} [R]	10/1/98
129000	Pyrene	ID	4/1/99	ID	4/1/99			15 (D)[T2] 15 (ND)	9/15/00		
7782492	Selenium	ID***		5[R]	8/26/98			140 (D)[T1] 3,400 (ND)	9/15/00		
7440224	Silver	UR	8/24/98	UR	8/24/98			130 (D)[T1] 26,000 (ND)	9/18/00		
122349	Simazine	80[T2]	9/19/01	9[T2]	9/19/01			140 (D)[T1] 3,800 (ND)	9/18/00		
7440246	Strontium	7,700[T2]	9/19/01	860[T2]	9/19/01			ID	7/21/99		
100425	Styrene							5,000 (D)[T1] 32,000 (ND)	9/18/00		
1746016	2,3,7,8-TCDD[C,BCC]					8.6×10^{-9} (D)[R] 8.6×10^{-9} (ND)	8/26/98	6.7×10^{-8} (D)[R] 6.7×10^{-8} (ND)	8/26/98	3.1×10^{-9} [R]	10/1/98
95943	1,2,4,5-Tetrachlorobenzene[BCC]	75[T2]	12/16/99	8.3[T2]	12/16/99			0.35 (D)[T1] 0.36 (ND)	2/24/00		

127184	Tetrachloroethylene[C]	480[T2]	9/19/01	60[T2]	9/19/01	11 (D)[T1] 60 (ND)	9/20/00	320 (D)[T1] 1,700 (ND)	9/20/00		
7440280	Thallium	54[T2]	9/20/01	6[T2]	9/20/01			2 (D)[T1] 5 (ND)	9/20/00		
7440315	Tin	ID	3/23/99	ID	3/23/99			ID	9/20/00		
7440326	Titanium	ID	3/31/99	ID	3/31/99			ID	9/20/00		
108883	Toluene	840[T2]	9/20/01	94[T2]	9/20/01			5,600 (D)[R] 51,000 (ND)	8/26/98		
8001352	Toxaphene[C,BCC]					6.8×10^{-5} (D)[R] 6.8×10^{-5} (ND)	8/26/98	ID	9/18/00	1.7×10^{-4} [T1]	10/5/98
56359	Tributyltin oxide	0.46[T1]	9/14/98	0.063[T1]	9/14/98			3.3 (D)[T2] 5.4 (ND)	9/27/00		
71556	1,1,1-Trichloroethane	3,700[T2]	1/17/97	410[T2]	1/17/97			ID	9/18/00		
79005	1,1,2-Trichloroethane	490[T2]	7/17/01	87[T2]	7/17/01			110 (D)[T1] 3,000 (ND)	9/27/00		
79345	1,1,2,2-Tetrachloroethane[C]	900[T2]	10/27/98	100[T2]	10/27/98	1.6 (D)[T2] 17 (ND)	9/29/00	ID	9/29/00		
79016	Trichloroethylene[C]	2,300[T2]	9/21/01	260[T2]	9/21/01	29 (D)[R] 370 (ND)	8/26/98	ID	9/18/00		
95954	2,4,5-trichlorophenol	17[T2]	9/25/01	1.9[T2]	9/25/01			1,300 (D)[T2] 2,500 (ND)	2/25/00		
95954	2,4,6-trichlorophenol[C]	12[T2]	9/25/01	1.4[T2]	9/25/01	27 (D)[T1] 200 (ND)	2/24/00	ID	2/24/00		
108678	1,3,5-Trimethylbenzene	ID	1/31/97	ID	1/31/97			ID	9/27/00		
95636	1,2,4-Trimethylbenzene	ID	1/31/97	ID	1/31/97			ID	9/27/00		
7440622	Vanadium	110[T2]	9/21/01	12[T2]	9/21/01			230 (D)[T1] 2,300 (ND)	9/28/00		
75014	Vinyl Chloride[C]	8,400[T2]	6/26/01	930[T2]	6/26/01	0.25 (D)[T1] 14 (ND)	9/28/00	83 (D)[T1] 4,900 (ND)	9/28/00		
1330207	Xylene	310[T2]	9/21/01	35[T2]	9/21/01			38,000 (D)[T1] 150,000 (ND)	9/29/00		

7440666	Zinc	$e^{0.8473(\ln(hardness))+0.884}$ R	8/26/98	$e^{0.8473(\ln(hardness))+0.884}$ R	8/26/98			9,000 (D)[T1] 250,000 (ND)	9/29/00		

Where:
ID = insufficient data for Tier I criteria or Tier II value calculation.
UR = currently under review
(D) = for drinking water sources
(ND) = for nondrinking water sources
T1 = criterion was calculated using Tier I methodology
T2 = value calculated using Tier II methodology
R = adopted into the rules during the Great Lakes Initiative rulemaking. (Note that metals criteria adopted into the rules have conversion factors not printed here.)
C = substance is considered to be carcinogenic
BCC = Bioaccumulative Chemical of Concern (listed in 327 IAC 2-1.5-6(b))

***EPA is currently conducting toxicity tests in order to calculate criteria for selenium. When EPA releases the results of their tests, we will calculate selenium criteria for the state.

Tier I criteria that have not been adopted into the rules and all Tier II values are subject to change as more data become available.

Metals criteria are for total metals. Conversion factors are in the rules to convert the total to dissolved form. Metals without conversion factors are assumed to have a conversion factor of 1.0.

Last modified:
December 12, 2002

APPENDIX E

Fort Wayne Rivers

Sampling Data Reports

IDEM Fort Wayne Rivers - Field Data - Years 2002 and 2003

Station	Sample Date	Sample Time	Dissolved Oxygen (mg/L)	Water Temperature (C)	Saturation PerCent (%)	pH (SU)	Specific Conductance (uS/cm)	Turbidity (NTU)	COMMENTS
1	01/14/02	10:30						5.9	
1	02/18/02	11:21	12.18	2.7		8.25	679	6.11	
1	03/18/02	10:53	11.39	638		8	636	12.39	
1	04/15/02	10:31	9.5	13.8		7.8	509	85.19	
1	05/20/02	11:30	10.02	11.5		7.9		20.79	
1	06/17/02	11:30	11.32	17.7		8.14	776	7.96	
1	07/15/02	11:00	8.6	21.7		8.19	800	12.3	
1	08/19/02	12:00	7.6	21.2		7.86	809	18.2	
1	09/16/02	10:01	8.2	18.5		8	891	10.89	
1	10/21/02	11:10	10.77	7.76		7.65	715	6.82	
1	11/18/02	10:42	11.67	3.65		7.82	878	4.63	
1	12/16/02	10:44	12.85	1.6		7.73	940	4.55	
1	01/21/03	10:20							
1	02/18/03	10:01							
1	03/18/03	11:58	9.41	6.94		7.32	672	19.4	
1	04/21/03	12:00	11.7	14.6		7.9		66.7	Time of collection, Specific Conductivity not written down. Weather code incomplete.
1	05/19/03	10:06	8.53	15.3		7.27	651	28.7	
1	06/16/03	10:45	4.26	19.77		7.57	773	15.6	
1	07/21/03	10:09	8.03	20.1		7.52	541	208	
1	08/18/03	11:00	8.99	21.12		7.97	821	11	
1	09/22/03	10:25	6.85	15.53		7.9	794	13.8	
1	10/20/03	9:50	10.02	10.82		7.38	768	5.11	
1	11/17/03	9:40	10.87	7.83		7.86	806	1.6	
1	12/15/03	11:05	12.94	259		7.41	747	9.64	
2	01/14/02	8:45						5.3	
2	02/18/02	10:56	11.8	2.4		8.22	651	13.69	
2	03/18/02	10:33	4.53	6.5		7.96	217	61.7	
2	04/15/02	10:05	9.5	13.69		7.69	395	186	
2	05/20/02	11:27	10.21	11		7.88	369	49.9	
2	06/17/02	11:00	9.13	20.29		8.27	661	38.4	
2	07/15/02	10:30	6.7	23.7		8.1	697	41.2	
2	08/19/02	11:32	6.47	23.13		7.86	674	29.6	
2	09/16/02	9:41	6.8	20.79		7.9	772	32.29	
2	10/21/02	10:42	10.46	8.39		7.88	806	13.8	
2	11/18/02	10:21	11.24	3.8		7.78	790	14.3	
2	12/16/02	10:23	12.98	1.7		7.59	847	5.5	
2	01/21/03	10:00							
2	02/18/03	9:50							
2	03/18/03	11:01	9.85	3.56		7.21	491	42.9	
2	04/21/03	11:35	9.9	14.6		8		34.7	Time of collection, specific conductivity not written down.
2	05/19/03	9:46	9.1	15.2		7.18	577	46.5	
2	06/16/03	10:15	4.07	20.88		7.39	649	43.6	
2	07/21/03	9:46	7	21.4		7.45	419	114	
2	08/18/03	10:25	8.49	24.11		8.15	631	24.7	
2	09/22/03	10:00	6.55	17.71		7.85	697	22.7	
2	10/20/03	9:35	10.4	10.6		7.12	579	30.2	
2	11/17/03	9:20	11.4	6.78		7.89	707	3.9	
2	12/15/03	10:30	13.8	1.43		7.35	607	39.8	
3	01/14/02	9:45						5.09	
3	02/18/02	10:15	12.64	2.59		8.23	577	14.1	

IDEM Fort Wayne Rivers - Field Data - Years 2002 and 2003

Station	Sample Date	Sample Time	Dissolved Oxygen (mg/L)	Water Temperature (C)	Saturation PerCent (%)	pH (SU)	Specific Conductance (uS/cm)	Turbidity (NTU)	COMMENTS
3	03/18/02	9:50	11.79	6.86		7.98	505	6.71	
3	04/15/02	8:45	9.9	13.5		7.69	397	161	
3	05/20/02	9:40	11.21	11.1		7.9	368	68.9	
3	06/17/02	10:32	9.66	21		8.31	660	21.39	
3	07/15/02	10:00	9.2	25.29		8.19	696	24.6	
3	07/17/02	10:50	15.3	27.39		8.5	591	28	
3	08/19/02	10:47	6.72	23.7		7.76	554	24.79	
3	09/16/02	9:15	5.6	22.79		7.59	866	11	
3	10/21/02	9:59	10.12	10.56		7.92	788	11.19	
3	11/18/02	9:53	9.81	5.86		7.61	774	8.43	
3	12/16/02	9:48	13.83	0.95		7.67	851	5.84	
3	01/21/03	9:20							
3	02/18/03	9:40							
3	03/18/03	10:12	12.86	3.13		7.26	481	54.9	
3	04/21/03	9:35	10.7	15		8		26.9	Time of collection, Specific conductivity not written down. Weather code incomplete.
3	05/19/03	9:02	9.29	15.4		7.27	578	44.8	
3	06/16/03	9:40	4.22	20.52		7.48	679	20.9	
3	07/21/03	9:15	9.11	22.5		7.71	431	144	
3	08/18/03	10:01	9.72	25.16		8.19	598	21.4	
3	09/22/03	9:30	7.33	19.02		7.98	677	21.3	
3	10/20/03	9:15	10.11	11.18		7.04	557	31.9	
3	11/17/03	8:50	11.47	6.52		7.87	703	6.97	
3	12/15/03	10:00	13.98	1.64		7.32	608	45	
4	01/14/02	12:30						3.79	
4	02/18/02	13:25	11.26	2.7		8.17	819	10.8	
4	03/18/02	12:28	10.99	6.42		7.9	760	38.7	
4	04/15/02	11:15	8.6	15		7.69	519	304	
4	05/20/02	13:15	10.21	11.3		7.78		71.5	
4	06/17/02	13:50	10.79	20.29		8.32	923	79	
4	07/15/02	13:20	15.3	25.7		8.69	1174	70	
4	08/19/02	13:45	7.21	23.55		7.8	1080	50.2	
4	09/16/02	11:39	9.4	20.89		8.19	136	45.2	
4	10/21/02	12:56	15.73	9.06		8.51	1551	16.79	
4	11/18/02	12:16	9.74	4.13		7.55	1047	16.1	
4	12/16/02	12:39	15.75	0.28		7.65	1345	2.74	
4	01/21/03	12:05							
4	02/18/03	11:50							
4	03/18/03	13:27	7.9	6.12		7.15	375	136	
4	04/21/03	13:30	16.5	15		8.4		22.5	Time of collection, specific conductivity not written down. Weather code incomplete.
4	05/19/03	12:47	7.9	16.3		7.7	509	137	
4	06/16/03	12:40	3.11	20.31		6.97	381	304	
4	07/21/03	11:59	6.03	21.3		7.13	398	231	
4	08/18/03	12:20	9.76	23.51		8.03	772	35.3	
4	09/22/03	12:00	7.71	17.37		8.18	1042	34.6	
4	10/20/03	12:00	7.99	11.3		7.06	582	36.6	
4	11/17/03	11:34	9.9	7.52		7.67	728	2.2	
4	12/15/03	12:50	12.83	1.37		7.34	598	76.6	
5	01/14/02	9:15						4.19	
5	02/18/02	9:53	12.18	2.9		8.11	779	17.29	
5	03/18/02	9:36	10.85	685		7.92	750	2.96	

IDEM Fort Wayne Rivers - Field Data - Years 2002 and 2003

Station	Sample Date	Sample Time	Dissolved Oxygen (mg/L)	Water Temperature (C)	Saturation PerCent (%)	pH (SU)	Specific Conductance (uS/cm)	Turbidity (NTU)	COMMENTS
5	04/15/02	9:25	8.6	14.19		7.69	542	169	
5	05/20/02	9:32	9.45	11.39		7.8	486	91.4	
5	06/17/02	10:22	8.49	20.79		7.9	771	45.79	
5	07/15/02	9:45	10.3	26.1		8	930	19.2	
5	07/17/02	10:40	5.5	26.89		7.8	1030	22	
5	08/19/02	10:23	4.04	22.97		7.13	802	32.79	
5	09/16/02	9:02	7.8	21.89		7.75	108	20	
5	10/21/02	9:36	10.69	10.82		7.92	1002	20.6	
5	11/18/02	9:30	7.47	5.42		7.25	911	26.89	
5	12/16/02	9:25							
5	01/21/03	9:17							
5	02/18/03	9:35							
5	03/18/03	9:47	9.55	5.5		7.12	382	147	
5	04/21/03	9:20	10.5	15.3		7.8		26.6	Time of collection, Specific Conductivity not written down. Weather code incomplete
5	05/19/03	8:40	7.14	15.4		7.12	539	129	
5	06/16/03	9:20	3.14	19.78		7.03	410	286	
5	07/21/03	8:59	7.69	20.9		7.13	195	254	
5	08/18/03	9:45	11.54	24.66		8.04	755	30.2	
5	09/22/03	9:15	10.28	18.77		8.08	749	30.7	
5	10/20/03	9:00	7.5	11.21		6.84	570	34.8	
5	11/17/03	8:30	10.02	6.65		7.7	761	15.5	
5	12/15/03	9:40	12.85	1.26		7.21	587	79.6	
6	01/14/02	10:30						5.3	
6	02/18/02	9:04	13.26	2.7		8.11	627	15.5	
6	03/18/02	10:53	11.73	6.9		7.96	581	559	
6	04/15/02	9:09	9.8	13.8		7.69	433	173	
6	05/20/02	8:50	11.03	11.3		7.82	393	65.4	
6	06/17/02	9:56	8.97	21		8.1	685	53	
6	07/15/02	9:30	8.2	25.29		7.8	756	29.89	
6	08/19/02	9:59	5.36	24.64		7.17	946	31.6	
6	09/16/02	8:39	6.2	22.89		7.4	896	12.3	
6	10/21/02	9:01	10.18	11.46		7.8	796	16.39	
6	11/18/02	9:07	10.24	5.88		7.4	788	21	
6	12/16/02	9:05	13.3	1.39		7.28	1038	4.3	
6	01/21/03	8:57	13.36	0.16		7.04	1027	6.68	
6	02/18/03	9:12	9.91	0.21		6.5	969	9.71	
6	03/18/03	9:25	10.59	4.52		7.08	411	127	
6	04/21/03	8:45	10.5	15.3		7.8		303	
6	05/19/03	8:07	9.03	15.4		7.07	558	84.2	
6	06/16/03	8:55	5.96	19.95		6.87	460	238	
6	07/21/03	8:33	7.28	21.6		6.93	342	230	
6	08/18/03	9:15	9.13	25.37		7.76	645	30	
6	09/22/03	8:55	9.11	19.42		7.73	736	20.8	
6	10/20/03	8:45	10.78	11.13		6.59	558	35.1	
6	11/17/03	8:10	11.31	6.89		7.83	725	162.2	
6	12/15/03	9:15	14.5	1.52		7.14	600	63.8	
7	01/14/02	12:00						7.3	
7	02/18/02	12:48	11.45	3.29		8.15	649	15.1	
7	03/18/02	12:02	11.4	7.01		7.92	594	58.79	
7	04/15/02	11:40	9.6	14.19		7.69	441	257	

IDEM Fort Wayne Rivers - Field Data - Years 2002 and 2003

Station	Sample Date	Sample Time	Dissolved Oxygen (mg/L)	Water Temperature (C)	Saturation PerCent (%)	pH (SU)	Specific Conductance (uS/cm)	Turbidity (NTU)	COMMENTS
7	05/20/02	12:35	11.48	11.6		7.86	524	77.59	
7	06/17/02	12:40	9.5	21.2		8.07	721	55.5	
7	07/15/02	13:00	6.9	25.39		7.8	873	27.1	
7	08/19/02	13:17	6.75	24.21		7.48	1025	29.5	
7	09/16/02	11:12	4.2	22.39		7.5	989	17.39	
7	10/21/02	12:22	9.76	11.43		7.67	904	9.77	
7	11/18/02	11:47	9.62	6.3		7.57	824	18.29	
7	12/16/02	11:55	12.28	3.09		7.59	1083	4.09	
7	01/21/03	11:23	13.74	0.11		7.1	1086	6.47	
7	02/18/03	11:11	8.88	0.37		7.1	10.39	9.2	
7	03/18/03	13:01	9.4	4.78		7.21	244	133	
7	04/21/03	13:00	12.2	15.3		8.1		28.6	Time of collection, specific conductivity not written down. Weather code incomplete
7	05/19/03	12:17	8.7	16.5		7.7	548	86.5	
7	06/16/03	11:55	3.64	20.13		7.13	460	239	
7	07/21/03	13:16	7.92	21.9		7.32	351	184	
7	08/18/03	13:00	10.4	25.1		8.13	699	30.4	
7	09/22/03	11:25	6.78	19.02		7.98	869	34.8	
7	10/20/03	10:55	10.05	11.53		7.23	579	35.2	
7	11/17/03	11:00	10.98	7.34		7.82	752	8.4	
7	12/15/03	12:15	13.86	1.74		7.37	614	57.5	
8	01/14/02	11:30						5.69	
8	02/18/02	12:13	11.76	2.9		8.22	640	13.8	
8	03/18/02	11:38	11.1	7.17		7.94	576	63	
8	04/15/02	11:14	9.2	14.3		7.69	427	211	
8	05/20/02	12:10	9.8	11.39		7.8	405	86.59	
8	06/17/02	12:15	11.27	22.29		8.27	718	46.59	
8	07/15/02	11:30	17	26.6		8.69	786	34.79	
8	08/19/02	12:45	6.97	24.86		7.73	772	22.5	
8	09/16/02	10:44	14	22.1		8.5	910	13.3	
8	10/21/02	11:49	11.63	10		7.94	880	9.85	
8	11/18/02	11:18	10.13	5.32		7.65	849	19.2	
8	12/16/02	11:22	15.16	1.39		7.75	1074	3.31	
8	01/21/03	10:54	14.01	0		7.08	1053	6.28	
8	02/18/03	10:39	9.76	0		7	1014	9.08	
8	03/18/03	12:34	10.3	4.66		7.22	425	124	
8	04/21/03	12:35	14.4	15		8.2		23.1	Time of collection, specific conductivity not written down. Weather code incomplete.
8	05/19/03	11:50	8.5	16		7.7	551	45.4	
8	06/16/03	11:20	3.56	20.05		7.17	416	326	
8	07/21/03	12:49	7.14	21.6		7.15	353	247	
8	08/18/03	11:30	11.7	24.86		8.34	682	26.5	
8	09/22/03	11:00	8.09	19		8.34	757	21.6	
8	10/20/03	10:30	9.59	11.5		7.21	579	32.6	
8	11/17/03	10:35	11.25	7.22		7.85	767	5	
8	12/15/03	11:45	13.62	1.78		7.38	602	62.4	

IDEM Fort Wayne Rivers - Metals - Years 2002 and 2003

Station	Sample Date	Arsenic (Total) (ug/L)	Cadmium (Total) (ug/L)	Chromium (Total) (ug/L)	Copper (Dissolved) (ug/L)	Copper (Total) (ug/L)	Iron (Dissolved) (ug/L)	Iron (Total) (ug/L)	Lead (Dissolved) (ug/L)	Lead (Total) (ug/L)	Manganese (Dissolved) (ug/L)	Manganese (Total) (ug/L)	Mercury (Total) (ug/L)	Nickel (Total) (ug/L)	Zinc (Dissolved) (ug/L)	Zinc (Total) (ug/L)	Hardness (as CaCO3) (mg/L)
1	01/14/02 10:30	1.5	< 1	< 1.2		1.87		407.4056		< 1			< 0.2	2.84		< 6	373
1	02/18/02 11:21	1.7	< 1	< 1.2				414.4965		< 1			< 0.2	2.85		< 6	328
1	03/18/02 10:53	1.35	< 1	< 1.2		2.36		592.1672		< 1			< 0.2	3.11		6.7564 (UJ)	306
1	04/15/02 10:31	2.01	< 1	3.25		4.94		2435.6394		1.84			< 0.2	5.08		13.8803	242
1	05/20/02 11:30	1.93	< 1	1.7		2.94		1230		< 1			< 0.2	3.99		6.41 (UJ)	282
1	06/17/02 11:30	1.84	< 1	< 1.2		1.71		352		< 1			< 0.2	2.74		< 6	369
1	07/15/02 11:00	2.19	< 1	1.61		2.59		577		< 1			< 0.2	3.79		< 6	353
1	08/19/02 12:00	2.88	< 1	1.82		2.77		1300		1.22			< 0.2	3.8		10.1 (UJ)	329
1	09/16/02 10:01	1.9	< 1	1.62		1.66		475		< 1			< 0.2	2.45		< 6	355
1	10/21/02 11:10	1.65	< 1	< 1.2		2.04		381		< 1			< 0.2	2		< 6	300
1	11/18/02 10:42	1.55	< 1	< 1.2		1.53		438		< 1			< 0.2	2.03		< 6	346
1	12/16/02 10:44	1.33	< 1	< 1.2		1.43		489		< 1			< 0.2	3.36		< 6	368
1	03/18/03 11:58	1.46	< 1	1.79				1350		1.48			< 0.2	4.25			294
1	04/21/03 12:00	1.63	< 1	< 1.2		2.33		419		< 1			< 0.2	3.91		< 6	367
1	05/19/03 10:06	2.63	< 1	2.27		4.19		1650		1.54			< 0.2			7.2	316
1	06/16/03 10:45	3.06	< 1	2.14		3.09		794		< 1			< 0.2	5.11		7.42	372
1	07/21/03 10:09	4.79	< 1	8.73		10		9180		6.55			< 0.2	11.8		42.2	240
1	08/18/03 11:00	2.11	< 1	< 1.2		2.67		376		< 1			< 0.2	2.56		7.68	374
2	01/14/02 10:00	1.37	< 1	< 1.2		1.38		334.0284		< 1			< 0.2	2.25		< 6	335
2	02/18/02 10:56	1.6	< 1	< 1.2				679.6733		< 1			< 0.2	2.47		< 6	276
2	03/18/02 10:33	1.96	< 1	3.12		3.97		2520.7947		1.47			< 0.2	4.49		11.3995 (UJ)	242
2	04/15/02 10:05	2.82	< 1	7.48		8.03		6109.0117		3.95			< 0.2	8.51		24.6042	190
2	05/20/02 11:27	2.15	< 1	3.95		4.21		2590		1.94			< 0.2	11.1		12.2	191
2	06/17/02 11:00	2.43	< 1	2.42		3.25		1740		1.23			< 0.2	4.17		11 (UJ)	317
2	07/15/02 10:30	3.02	< 1	2.89		3.04		1490		1.17			< 0.2	4.38		16.6	309
2	08/19/02 11:32	3.35	< 1	2.31		3.12		1640		1.34			< 0.2	4.01		10.8 (UJ)	280
2	09/16/02 9:41	3.28	< 1	1.88		2.34		1230		1.12			< 0.2	3.36		7.39 (UJ)	321
2	10/21/02 10:42	2.05	< 1	< 1.2		1.89		526		< 1			< 0.2	2.84		< 6	357
2	11/18/02 10:21	1.68	< 1	< 1.2		1.82		617		< 1			< 0.2	2.52		< 6	324
2	12/16/02 10:23	1.57	< 1	< 1.2		1.49		342		< 1			< 0.2	2.99		< 6	348
2	03/18/03 11:01	1.62	< 1	2.9				2200		1.9			< 0.2	4.63			208
2	04/21/03 11:35	2.05	< 1	2.12		3.31		1250		1.46			< 0.2	5.03		8.45	336
2	05/19/03 9:46	2.58	< 1	3.02		4.84		2350		1.78			< 0.2			9.5	289
2	06/16/03 10:15	3.47	< 1	3.04		3.93		1980		1.51			< 0.2	5.72		11.5	307
2	07/21/03 9:46	4.83	< 1	9.24		12.7		9910		6.3			< 0.2	12.6		41.2	226
2	08/18/03 10:25	2.93	< 1	1.85		3.75		1570		1.39			< 0.2	4.04		9.14	306
3	01/14/02 9:45	1.32	< 1	< 1.2	1.29	1.68	17.7714	344.7804	< 1	< 1	45.68	48.07	< 0.2	2.35		< 6	343
3	02/18/02 10:15	1.6	< 1	< 1.2			34.6602	682.1683	< 1	< 1	24.21	37.69	< 0.2	2.53		6.6753 (UJ)	270
3	03/18/02 9:50	1.82	< 1	3.03	1.8	4.58	33.5314	2451.8926	< 1	1.52	23.74	64.17	< 0.2	4.46	< 3	11.4023 (UJ)	244
3	04/15/02 8:45	3.1	< 1	7.38	2.58	8.31	71.2608	6110.4522	< 1	4.17	13.55	109.3	< 0.2	8.68	8.22	24.734	184
3	05/20/02 9:40	2.53	< 1	4.03	2.16	5.16	62.1	3150	< 1	4.3	6.64	74.8	< 0.2	5.43	6.22	12.9	185
3	06/17/02 10:32	2.18	< 1	1.58	1.84	2.51	< 8	809	< 1	< 1	1.3	91.4	< 0.2	3.23	4.73	7.3 (UJ)	321
3	07/15/02 10:00	3.46	< 1	1.89	1.87	2.94	< 8	716	< 1	1.04	4.08	103	< 0.2	4.21	3.82	8.64 (UJ)	296
3	08/19/02 10:47	2.74	< 1	2.48	1.75	3.41	9.18	1350	< 1	2.04	9.55	111	< 0.2	3.58	10.6	12.6	225
3	09/16/02 9:15	3.29	< 1	< 1.2	1.2	1.44	< 8	262	< 1	< 1	6.72	133	< 0.2	2.93	< 3	< 6	315
3	10/21/02 9:59	2.31	< 1	< 1.2	1.03	1.65	< 8	417	< 1	< 1	5.7	95	< 0.2	2.54	7.83	< 6	353
3	11/18/02 9:53	1.51	< 1	< 1.2	1.5	1.93	55.4	452	< 1	< 1	41.4	79.1	< 0.2	2.34		< 6	318
3	12/16/02 9:48	1.39	< 1	< 1.2	1.36	1.57	26.6	357	< 1	< 1	19.3	46.7	< 0.2	2.66	10.1 (UJ)	< 6	356
3	03/18/03 10:12	1.95	< 1	2.77			135	2420	< 1	2.03	44.7	94.2	< 0.2	4.78			191
3	04/21/03 9:35	2.36	< 1	2.01	1.6	3.24	19.9	1220	< 1	1.22	3.11	104	< 0.2	4.89	< 3	9.5	328
3	05/19/03 9:02	2.52	< 1	2.63	2.3	4.52	102	2080	< 1	1.76	17.8	81.7	< 0.2		9.85	9.34	279
3	06/16/03 9:40	4.2	< 1	2.23	1.86	3.08	25.8	820	< 1	< 1	2.95	78.3	< 0.2	4.87	8.71	6.7	323

IDEM Fort Wayne Rivers - Metals - Years 2002 and 2003

Station	Sample Date	Arsenic (Total) (ug/L)	Cadmium (Total) (ug/L)	Chromium (Total) (ug/L)	Copper (Dissolved) (ug/L)	Copper (Total) (ug/L)	Iron (Dissolved) (ug/L)	Iron (Total) (ug/L)	Lead (Dissolved) (ug/L)	Lead (Total) (ug/L)	Manganese (Dissolved) (ug/L)	Manganese (Total) (ug/L)	Mercury (Total) (ug/L)	Nickel (Total) (ug/L)	Zinc (Dissolved) (ug/L)	Zinc (Total) (ug/L)	Hardness (as CaCO3) (mg/L)
3	07/21/03 9:15	4.05	< 1	7.09	2.79	10.9	36.6	6930	< 1	6.68	2.36	176	< 0.2	9.9	13.2	41.3	219
3	08/18/03 10:01	2.2	< 1	1.53	2.22	4.64	18.6	840	< 1	1.16	2.58	98.7	< 0.2	3.53	10.6	9.64	287
4	01/14/02 12:30	1.49	< 1	< 1.2		1.85		170.378		< 1			< 0.2	2.99		< 6	412
4	02/18/02 13:25	1.83	< 1	< 1.2				426.7022		< 1			< 0.2	2.82		< 6	362
4	03/18/02 12:28	1.7	< 1	2.05		3.49		1496.7236		< 1			< 0.2	4.01		9.0433 (UJ)	324
4	04/15/02 11:15	3.23	< 1	7.71		9.21		6995.438		4.42			< 0.2	9.16		27.3183	236
4	05/20/02 13:15	2.57	< 1	4.87		6.85		4050		2.6			< 0.2	6.97		18.2	246
4	07/15/02 13:20	3.87	< 1	3.14		4.27		1750		1.78			< 0.2	6.79		10.3 (UJ)	363
4	08/19/02 13:45	4.03	< 1	2.97		4.02		2120		2.17			< 0.2	5.99		13	323
4	09/16/02 11:39	3.98	< 1	1.93		3.07		1550		1.74			< 0.2	6.07		9.5 (UJ)	398
4	10/21/02 12:56	3.2	< 1	1.23		2.42		515		< 1			< 0.2	5.56		< 6	460
4	11/18/02 12:16	2.31	< 1	< 1.2		2.94		480		< 1			< 0.2	3.98		< 6	334
4	12/16/02 12:39	1.96	< 1	< 1.2		2.37		148		< 1			< 0.2	4.72		< 6	418
4	03/18/03 13:27	2.87	< 1	5.7				6000		4.06			< 0.2	7.74			176
4	04/21/03 13:30	1.77	< 1	1.53		2.85		683		< 1			< 0.2	4.41		11.2	363
4	05/19/03 12:47	3.35	< 1	6.32		7.88		5770		3.99			< 0.2	8.9 (JB)		24	253
4	06/16/03 12:40	5.42	< 1	9.72		11.4		11100		6.58			< 0.2	12.4		47.2	183
4	07/21/03 11:59	5.33	< 1	10.8		13.2		11400		7.82			< 0.2	14.5		44.2	201
4	08/18/03 12:20	3.31	< 1	1.77		4.45		1540		1.36			< 0.2	5.92		8.53	332
5	01/14/02 9:15	1.49	< 1	< 1.2	1.56	2.14	10.7493	251.9506	< 1	< 1	36.88	40.2	< 0.2	3.31		< 6	428
5	02/18/02 9:53	2.01	< 1	1.4			18.7022	720.5372	< 1	< 1	19	29.38	< 0.2	3.42		10.7384 (UJ)	346
5	03/18/02 9:36	1.65	< 1	1.76	1.99	3.53	21.5142	1296.6771	< 1	< 1	16.41	34.57	< 0.2	3.72	4.6497	8.1896 (UJ)	336
5	04/15/02 9:25	3.2	< 1	7.38	2.8	9.31	32.9641	7018.4336	< 1	4.6	12.36	92.62	< 0.2	8.96	3.7158	30.5354	244
5	05/20/02 9:32	2.89	< 1	4.62	3.16	6.9	60.1	4170	< 1	2.81	8.01	57.7	< 0.2	6.8	7.4	17.8	223
5	06/17/02 10:22	2.42	< 1	2.7	2.16	3.93	9.8	2220	< 1	1.56	21.9	78.4	< 0.2	4.65	4.29	11.9	329
5	07/15/02 9:45	3.45	< 1	1.56	1.66	2.31	12.2	506	< 1	< 1	27	104	< 0.2	4.42	5.3	7.58 (UJ)	317
5	08/19/02 10:23	3.79	< 1	2.96	1.48	6.56	46.5	1970	< 1	6.28	123	172	< 0.2	5.7	11.7	26.6	274
5	09/16/02 9:02	3.43	< 1	< 1.2	1.12	3	< 8	604	< 1	1.66	1.17	106	< 0.2	4.36	3.1	7.21 (UJ)	298
5	10/21/02 9:36	2.57	< 1	< 1.2	< 1	2.2	18.4	537	< 1	1.39	8.83	71.4	< 0.2	4.44	< 3	6.46 (UJ)	373
5	11/18/02 9:30	2.19	< 1	1.2	2.59	3.46	115	882	< 1	< 1	48.5	64.6	< 0.2	4.07		7.5 (UJ)	320
5	03/18/03 9:47	2.98	< 1	6.73		9.27 (JB)	87.1	6980	< 1	5.1	13.6	81.3	< 0.2	8.77			157
5	04/21/03 9:20	1.89	< 1	1.79	1.62	2.91	19.4	1080	< 1	1.11	3.17	92.8	< 0.2	4.19	13.3	7.99	330
5	05/19/03 8:40	3.19	< 1	6.21	2.53	7.64	49.3	5740	< 1	4.79	11.8	94.5	< 0.2	8.51 (JB)	12.6	23.8	232
5	06/16/03 9:20	4.52	< 1	9.83	3.23	11.6	59.3	10500	< 1	6.85	3.36	114	< 0.2	12	14.8	44.3	206
5	07/21/03 8:59	5.66	< 1	12.8	2.17	18.7	41.3	11700	< 1	17.5	18.2	199	< 0.2	15.7	17.3	74.4	159
5	08/18/03 9:45	2.93	< 1	< 1.2	2.9	3.94	48.6	827	< 1	1.27	2.76	63	< 0.2	4.36	9.67	6.88	338
6	01/14/02 8:45	1.32	< 1	< 1.2		1.62		325.8321		< 1			< 0.2	2.63		< 6	355
6	02/18/02 9:04	1.7	< 1	< 1.2				716.8975		< 1			< 0.2	2.57		< 6	290
6	03/18/02 10:53	1.94	< 1	3.13		3.91		2388.2632		1.48			< 0.2	4.51		10.9454 (UJ)	266
6	04/15/02 9:09	2.96	< 1	7.01		8.24		6051.5464		3.96			< 0.2	8.34		25.1867	202
6	05/20/02 8:50	2.91	< 1	4.64		5.94		3750		2.49			< 0.2	6.26		15.8	193
6	06/17/02 9:56	2.64	< 1	3.19		4.05		2440		1.78			< 0.2	4.82		26.4	304
6	07/15/02 9:30	3.04	< 1	1.87		2.54		600		< 1			< 0.2	3.77		15.6	296
6	08/19/02 9:59	3.78	< 1	1.83		4.09		1370		3.27			< 0.2	4.69		14.4	323
6	09/16/02 8:39	3.33	< 1	< 1.2		1.84		450		< 1			< 0.2	3.42		< 6	304
6	10/21/02 9:01	2.44	< 1	< 1.2		2.17		604		1.44			< 0.2	3.06		6.32 (UJ)	351
6	11/18/02 9:07	2.3	< 1	1.28		3.18		856		< 1			< 0.2	3.75		13	302
6	12/16/02 9:05	1.95	< 1	< 1.2		2.31		331		< 1			< 0.2	4.29		< 6	380
6	02/18/03 9:12	1.85	< 1	< 1.2		3.13		440		< 1			< 0.2	4.47		8.05	373
6	03/18/03 9:25	3.04	< 1	5.17				5360		3.74			< 0.2	7.17			175
6	04/21/03 8:45	2.36	< 1	2.16		3.52		1750		1.28			< 0.2	5.22		10.2	334
6	05/19/03 8:07	2.97	< 1	4.37		6.61		3990		2.92			< 0.2	7.46 (JB)		16.6	276

IDEM Fort Wayne Rivers - Metals - Years 2002 and 2003

Station	Sample Date	Arsenic (Total) (ug/L)	Cadmium (Total) (ug/L)	Chromium (Total) (ug/L)	Copper (Dissolved) (ug/L)	Copper (Total) (ug/L)	Iron (Dissolved) (ug/L)	Iron (Total) (ug/L)	Lead (Dissolved) (ug/L)	Lead (Total) (ug/L)	Manganese (Dissolved) (ug/L)	Manganese (Total) (ug/L)	Mercury (Total) (ug/L)	Nickel (Total) (ug/L)	Zinc (Dissolved) (ug/L)	Zinc (Total) (ug/L)	Hardness (as CaCO3) (mg/L)
6	06/16/03 8:55	5.25	< 1	8.74		11.4		9010		6.47			< 0.2	11.9		40.3	217
6	07/21/03 8:33	5.04	< 1	10.4		15.4		11000		15			< 0.2	13		72.2	194
6	08/18/03 9:15	2.96	< 1	1.6		4.43		1100		1.5			< 0.2	4.51		11	305
7	01/14/02 12:00	1.28	< 1	< 1.2	1.31	1.7	19.8872	419.2436	< 1	< 1	44.1	49.31	< 0.2	3.14		< 6	347
7	02/18/02 12:48	1.73	< 1	1.28			27.8411	791.3895	< 1	< 1	27.1	43.19	< 0.2	3.62		6.2601 (UJ)	284
7	03/18/02 12:02	1.81	< 1	2.81	2.4	3.9	203.2131	2100.0881	< 1	1.55	41.39	58.91	< 0.2	4.88	7.6171	11.8509	268
7	04/15/02 11:40	3.02	< 1	7.23	2.49	8.16	55.0708	5940.6572	< 1	4.08	7.72	98.84	< 0.2	8.5	3.0516	27.8513	202
7	05/20/02 12:35	2.85	< 1	4.11	2.42	5.68	61.7	3450	< 1	2.35	14.8	72.7	< 0.2	5.88	16.9	14.8	193
7	06/17/02 12:40	2.39	< 1	3.53	2.18	4.92	8.94	2720	< 1	2.8	4.95	120	< 0.2	8.17	6.46	16.4	309
7	07/15/02 13:00	2.83	< 1	2.25	1.99	3.92	9.97	902	< 1	2.02	31.5	130	< 0.2	7.34	7.93	15.3	302
7	08/19/02 13:17	2.59	< 1	2.2	2.4	5.92	18.1	1250	< 1	3.33	30.1	134	< 0.2	8.7	14.4	21.4	274
7	09/16/02 11:12	2.49	< 1	1.45	1.44	3.55	16.3	762	< 1	2.05	47.2	128	< 0.2	8.42	10.8	17.4	298
7	10/21/02 12:22	1.76	< 1	< 1.2	1.38	2.69	10.8	478	< 1	1.51	41.3	109	< 0.2	11	8.7	15	322
7	11/18/02 11:47	1.89	< 1	< 1.2	1.86	2.93	90.2	730	< 1	1.06	37.9	65.8	< 0.2	6.88		11.7 (UJ)	288
7	12/16/02 11:55	1.49	< 1	< 1.2	1.74	2.28	37.5	324	< 1	< 1	48.3	58.4	< 0.2	8.43	16.3 (UJ)	16.7	366
7	01/21/03 11:23	1.25	< 1	< 1.2	2.2		21	350	< 1	< 1	44.5	46.5	< 0.2			26	390
7	02/18/03 11:11	1.69	< 1	1.22	3.91	2.89	39.4	377	< 1	< 1	57.7	65.2	< 0.2	6.81	35.4	11.8	356
7	03/18/03 13:01	2.88	< 1	6.12	2.41 (JB)		92.8	5850	< 1	5.16	25.2	91.8	< 0.2	8.05			182
7	04/21/03 13:00	2.26	< 1	2.3	1.68	4.01	14.1	1500	< 1	1.96	5.34	97.7	< 0.2	5.79	3.08	12.9	337
7	05/19/03 12:17	3.02	< 1	4.86	2.39	6.8	61.2	4280	< 1	3.37	18.2	97.5	< 0.2	7.75 (JB)	11.8	20.3	279
7	06/16/03 11:55	4.76	< 1	8.24	2.96	10.6	41.6	8810	< 1	6.64	2.86	107	< 0.2	11.4	13.9	41.5	219
7	07/21/03 13:16	4.65	< 1	9.26	2.76	13.8	38.8	8710	< 1	11.7	5.6	175	< 0.2	11.8	19.2	54.1	189
7	08/18/03 13:00	2.3	< 1	1.91	2.73	4.89	27.8	1590	< 1	2.3	2.96	110	< 0.2	5.18	11.2	13	308
8	01/14/02 11:30	1.44	< 1	< 1.2		1.83		345.3799		< 1			< 0.2	3.53		< 6	365
8	02/18/02 12:13	1.63	< 1	1.2				673.4157		< 1			< 0.2	3.41		< 6	298
8	03/18/02 11:38	1.92	< 1	3.06		4.11		2455.5657		1.69			< 0.2	5		12.646	272
8	04/15/02 11:14	3.13	< 1	7.83		9.11		6766.8091		6.51			< 0.2	9.22		28.9009	198
8	05/20/02 12:10	2.84	< 1	4.93		6.66		3890		2.86			< 0.2	6.53		17.7	191
8	06/17/02 12:15	2.49	< 1	2.57		4.24		1720		1.86			< 0.2	7.93		13.6	300
8	07/15/02 11:30	3.25	< 1	2		4.12		620		1.48			< 0.2	7.17		10.9 (UJ)	298
8	08/19/02 12:45	2.87	< 1	1.78		3.78		781		1.83			< 0.2	7.76		15.5	272
8	09/16/02 10:44	1.8	< 1	< 1.2		4.6		363		1.05			< 0.2	7.41		11.4 (UJ)	254
8	10/21/02 11:49	1.93	< 1	< 1.2		2.5		306		1.15			< 0.2	8.33		8.26 (UJ)	331
8	11/18/02 11:18	1.81	< 1	< 1.2		3.04		686		1.07			< 0.2	6.87		11.6 (UJ)	296
8	12/16/02 11:22	1.45	< 1	< 1.2		2.34		214		< 1			< 0.2	8.31		11.3 (UJ)	350
8	01/21/03 10:54	1.24	< 1	< 1.2				371		< 1			< 0.2			11.4	376
8	02/18/03 10:39	1.56	< 1	< 1.2		3.06		385		< 1			< 0.2	6.87		13	372
8	03/18/03 12:34	3	< 1	5.78				5780		4.59			< 0.2	7.83			179
8	04/21/03 12:35	2.03	< 1	1.87		3.56		898		1.43			< 0.2	5.38		13.5	336
8	05/19/03 11:50	2.64	< 1	4.29		6.19		3640		3.09			< 0.2			17.8	279
8	06/16/03 11:20	5.95	< 1	11.8		13.8		12500		8.9			< 0.2	14.4		55.6	207
8	07/21/03 12:49	5.86	< 1	12.8		26.4		12400		25.6			< 0.2	16.1		97.1	209
8	08/18/03 11:30	2.25	< 1	1.67		4.52		1000		1.89			< 0.2	4.85		9.81	304

IDEM Fort Wayne Rivers - General Chemicals - Years 2002 and 2003

Station	Sample Date & Time	Alkalinity (as CaCO3) (mg/L)	Chloride (mg/L)	COD (mg/L)	Cyanide (Total) (mg/L)	E_ Coli (MPN/100mL)	Fluoride (mg/L)	Hardness (as CaCO3) (mg/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, Nitrate+Nitrite (mg/L)	pH (SU)	Phosphorus, Total (mg/L)	Sulfate (mg/L)	TBOD5 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TS (mg/L)	TSS (mg/L)
1	01/14/02 10:30	281	40.4382	15.5				373	0.1166	1.7791	7.9	0.0481	75.8209		490	0.551	5.657	497	4
1	02/18/02 11:21	245	31.6018	17.7				328	< 0.1	1.7796	8.2	0.0479	68.6123		433	0.529	6.875	433	5
1	03/18/02 10:53	229	30.2759	21.2				306	< 0.1	2.0297	8.3	0.0604	55.8277		391	0.9324	7.966	421	10
1	04/15/02 10:31	183	22.6211	28.9				242	< 0.1	2.4789	8.1	0.1705	41.6565		341	1.3834	9.125	393	49
1	05/20/02 11:30			20.9				282	< 0.1	2		0.11				1.2	8.4		
1	06/17/02 11:30	281	36	16.3				369	< 0.1	1.4	8.4	0.07	66		463	0.5	6.3	501	8
1	07/15/02 11:00	276	42	14.4				353	< 0.1	1	8.6	0.07	75		473	0.4	4.6	500	15
1	08/19/02 12:00	270	49	16				329	< 0.1	1.3	8.1	0.14	60		467	0.5	3.8	517	30
1	09/16/02 10:01	296	60	10.6				355	< 0.1	1.5	8.2	0.1	72		507	0.3	3.5	532	15
1	10/21/02 11:10	228	46	12				300	0.1	1.2	8	0.07	62		400	0.4 (QJ)	3.9	419	< 4
1	11/18/02 10:42	278	59	11.8				346	< 0.1	1.2	8	0.07	74		501	0.4	3.8	511	< 4
1	12/16/02 10:44	294	65	9.8				368	< 0.1	1.3	8.1	< 0.03	77		519	0.4	3	532	< 4
1	03/18/03 11:58	134	47	32				294	0.2	6.5	7.7	0.2	112		415	1.4	10.3	472	30
1	04/21/03 12:00	234	47	31.3				367	< 0.1	2	8.2	0.13	84		483	1	8.3	527	9
1	05/19/03 10:06	179	31	33.6				316	< 0.1	4.5	7.9	0.12	63		407	1.4 (QJ)	10.4	478	37
1	06/16/03 10:45	223	41	31.6				372	< 0.1	5.7	8	0.11	76		473	0.9	9	516	22
1	07/21/03 10:09	136	38	39.5				240	< 0.1	1.4	8.1	0.34	41		324	1.6	8.2	560	240
1	08/18/03 11:00	270	46	20.5				374	< 0.1	1.1	8.2	0.06	81		492	0.8	7.8	522	9
2	01/14/02 10:00	263	31.8905	14.7				335	< 0.1	1.3176	8	0.0415	51.9985		432	0.5547	4.943	439	5
2	02/18/02 10:56	207	25.1056	18				276	< 0.1	1.4914	8.2	0.0563	49.0156		364	0.5889	6.544	366	12
2	03/18/02 10:33	187	22.6653	22.7				242	< 0.1	1.5727	8.2	0.1225	39.5352		309	1.1128	7.768	366	42
2	04/15/02 10:05	143	16.7335	31.5				190	< 0.1	1.7299	8	0.281	28.7059		300	1.5665	9.241	389	105
2	05/20/02 11:27	147	13	22.4				191	< 0.1	1.1	8.1	0.15	22		251	1.1	8.3	303	41
2	06/17/02 11:00	248	29	22.8				317	< 0.1	0.8	8.6	0.13	46		398	0.9	7	464	45
2	07/15/02 10:30	238	33	20.1				309	< 0.1	0.5	8.6	0.13	53		407	0.8	5.5	454	44
2	08/19/02 11:32	225	38		< 0.005			280			8.2		53		397			448	44
2	09/16/02 9:41	261	46	18.6				321	< 0.1	0.5	8.2	0.14	57		434	0.8	4.6	480	38
2	10/21/02 10:42	265	54	14.7				357	< 0.1	0.6	8.3	0.05	67		463	0.5 (QJ)	4.5	487	15
2	11/18/02 10:21	255	50	15.6				324	< 0.1	0.6	8	0.07	60		443	0.5	5.2	468	10
2	12/16/02 10:23	282	52	12	< 0.005			348	< 0.1	0.7	8.1	0.04	73		472	0.5	4.3	492	4
2	03/18/03 11:01	96	34	36.8				208	0.3	4.2	7.6	0.28	54		303	1.8	10.8	360	39
2	04/21/03 11:35	207	39	30.5				336	< 0.1	3.4	8.3	0.11	80		436	1.1	7.2	484	40
2	05/19/03 9:46	163	29	38.6				289	< 0.1	3.3	7.9	0.16	51		355	1.5	10.2	428	57
2	06/16/03 10:15	181	35	37				307	0.2	5.7	7.8	0.16	55		402	1.5	9	462	45
2	07/21/03 9:46	107	25	44				226	0.1	1.2	7.9	0.4	37		257	1.9	9	519	246
2	08/18/03 10:25	216	29	31.5				306	< 0.1	0.4	8.4	0.11	50		380	1.3	9.4	425	35
3	01/14/02 9:45	259	33.9024	14.7	< 0.005		0.2963	343	< 0.1		7.9	0.0414	57.5199		432	0.4262	5.182	443	5
3	02/18/02 10:15	205	25.0799	19.2	< 0.005		0.2331	270	< 0.1	1.4931	8.2	0.0501	43.9513	< 1	357	0.589	6.382	365	12
3	03/18/02 9:50	185	22.5503	24.3			0.2303	244	< 0.1	1.6007	8.3	0.1195	36.9492		313	1.2116	7.871	363	43
3	04/15/02 8:45	141	16.0942	33.1	< 0.005		0.1687	184	< 0.1	1.723	8.1	0.2744	27.0358	1.9	298	1.6576	9.219	389	109
3	05/20/02 9:40	139	13	22.8	< 0.005			185	< 0.1	1.1	8.1	0.15	21		253	1.2	7.7	307	48
3	06/17/02 10:32	257	28	20.9	< 0.005		0.3	321	< 0.1	0.7	8.6	0.11	52	2.6	386	0.9	6.9	428	26
3	07/15/02 10:00	230	38	39.9			0.4	296	< 0.1	0.4	8.7	0.12	55		402	1	6.3	439	23
3	08/19/02 10:47	180	30	25.1	< 0.005		0.4	225	< 0.1	0.2	8	0.12	46	3.7 (QJ)	316	0.9	5	367	46
3	09/16/02 9:15	225	74	22.8	< 0.005		0.5	315	< 0.1	< 0.1	8	0.11	87		485	1	6.1	511	16
3	10/21/02 9:59	262	51	15.9	< 0.005		0.6	353	< 0.1	0.2	8.2	0.08	65	2	445	0.5 (QJ)	4.6	470	13
3	11/18/02 9:53	248	47	13.7	< 0.005		0.5	318	< 0.1	0.3	7.9	0.05	61		432	0.5	4.6	457	9
3	12/16/02 9:48	276	50	15.4	< 0.005		0.5	356	< 0.1	1	8.1	0.06	69		468	0.6	5	491	6
3	03/18/03 10:12	92	35	37.2	< 0.005		0.2	191	0.4	3.6	7.6	0.27	48		297	2.2	10.8	354	42
3	04/21/03 9:35	206	38	32.5	< 0.005		0.2	328	< 0.1	2.2	8.3	0.09	77	3.6	422	0.9	8.1	474	35
3	05/19/03 9:02	161	28	38.6	< 0.005		0.2	279	< 0.1	3.4	7.9	0.14	55		360	1.5	10.1	431	56
3	06/16/03 9:40	201	37	32.9	< 0.005		0.3	323	< 0.1	4.4	7.9	0.1	52	2.1	408	1	8.2	444	22
3	07/21/03 9:15	118	24	33.5	< 0.005		0.2	219	< 0.1	1.4	8.1	0.24	36		259	1.5	7.2	459	176

IDEM Fort Wayne Rivers - General Chemicals - Years 2002 and 2003

Station	Sample Date & Time	Alkalinity (as CaCO3) (mg/L)	Chloride (mg/L)	COD (mg/L)	Cyanide (Total) (mg/L)	E_ Coli (MPN/100mL)	Fluoride (mg/L)	Hardness (as CaCO3) (mg/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, Nitrate+Nitrite (mg/L)	pH (SU)	Phosphorus, Total (mg/L)	Sulfate (mg/L)	TBOD5 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TS (mg/L)	TSS (mg/L)
3	08/18/03 10:01	205	28	30.4	< 0.005		0.3	287	< 0.1	0.5	8.4	0.1	47	3.9	366	1.4	9.4	403	28
4	01/14/02 12:30	232	98.1907	12.8	< 0.005			412	0.1619	3.7408	7.9	0.1138	161.0924		660	0.8602	4.154	678	5
4	02/18/02 13:25	213	55.2666	14.2	< 0.005			362	< 0.1	5.6744	8.2	0.1019	109.9339	< 1	538	0.5524	4.221	542	10
4	03/18/02 12:28	195	50.4839	16.9	< 0.005			324	< 0.1	5.8312	8.2	0.1428	89.2051		483	1.1802	5.119	520	31
4	04/15/02 11:15	149	27.277	28.1	< 0.005			236	< 0.1	5.5288	8	0.3378	52.6548	1.9	375	1.8075	7.23	501	131
4	05/20/02 13:15	153	26	23.2	< 0.005			246	< 0.1	6.5	8	0.26	50		365	1.5	7.3	444	58
4	06/17/02 13:50	228	71	29.3	< 0.005			365	< 0.1	3.7	8.7	0.29	121	5	581	1.8	5.9	684	88
4	07/15/02 13:20	187	125	49.4	< 0.005			363	< 0.1	< 0.1	9.1	0.29	180		691	3	10.1	812	94
4	08/19/02 13:45	179	127	28.9	< 0.005			323	< 0.1	1.4	8.1	0.28	124	3.6 (QJ)	622	1.4	7.2	745	69
4	09/16/02 11:39	201	176	30.4	< 0.005			398	< 0.1	0.4	8.3	0.32	220		784	1.6	8	869	61
4	10/21/02 12:56	203	214	31.4	< 0.005			460	0.1	0.5	8.7	0.22	234	7.3	914	1.6 (QJ)	7.8	970	12
4	11/18/02 12:16	164	111	25.8	< 0.005			334	< 0.1	9.6	7.8	0.2	138		599	1.6	9.1	667	11
4	12/16/02 12:39	213	149	20.3				418	< 0.1	3.7	8.2	0.14	200	1.1	779	0.8	7.1	813	< 4
4	03/18/03 13:27	57	25	26.4	< 0.005			176	0.2	8	7.5	0.42	34		290	1.3	7.1	385	84
4	04/21/03 13:30	180	66	46.1	< 0.005			363	0.2	5.3	8.7	0.15	134	6.2	522	1.7	5.6	603	38
4	05/19/03 12:47	114	28	27.7	< 0.005			253	< 0.1	8	7.8	0.33 (QJ)	44		348	1.6	6.2	476	114
4	06/16/03 12:40	67	16	39.5	< 0.005			183	0.2	11	7.5	0.5	26	2.3	319	1.9	7.7	510	202
4	07/21/03 11:59	92	23	49.3	< 0.005			201	0.1	1.8	7.7	0.51	38		266	2.1	11.4	605	344
4	08/18/03 12:20	210	46	35	< 0.005			332	< 0.1	1.3	8.3	0.19	101	3.6	473	1.8	10.8	532	45
4	09/22/03 12:00																3		
5	01/14/02 9:15	240	98.5652	13.2	< 0.005			428	0.1592	3.3549	7.6	0.1103	147.4126		675	0.7408	4.219	690	5
5	02/18/02 9:53	221	52.9883	14.2	< 0.005			346	< 0.1	5.4481	8.1	0.1094	96.3798	< 1	512	0.7025	4.7	521	14
5	03/18/02 9:36	209	51.3001	18	< 0.005			336	< 0.1	5.3801	8.2	0.1397	93.1994		475	0.9883	5.133	523	25
5	04/15/02 9:25	153	28.5758	27.4	< 0.005			244	< 0.1	5.9769	8	0.3159	53.6047	1.8	390	1.9347	6.995	478	96
5	05/20/02 9:32	145	23	23.2	< 0.005			223	< 0.1	6.5	7.9	0.31	42		347	1.6	8	427	59
5	06/17/02 10:22	202	48	23.9	< 0.005			329	< 0.1	5.8	8.3	0.21	87	3	485	1.6	6.1	586	46
5	07/15/02 9:45	179	85	28.1	< 0.005			317	0.2	0.1	8.5	0.24	121		529	1.9	8	577	17
5	08/19/02 10:23	170	84	38.4	< 0.005			274	0.6	0.3	7.4	0.32	95	7.3 (QJ)	484	2.2	7.6	564	55
5	09/16/02 9:02	208	120	37.2	< 0.005			298	0.5	< 0.1	8	0.37	145		620	2.3	9.4	677	46
5	10/21/02 9:36	201	112	32.6	< 0.005			373	0.1	< 0.1	8.3	0.14	152	5.5	598	1.7 (QJ)	8.1	644	23
5	11/18/02 9:30	147	84	27	< 0.005			320	0.2	12	7.6	0.22	108		521	1.9	8.8	600	18
5	03/18/03 9:47	53	25	33.5	< 0.005			157	0.2	8	7.5	0.46	30		303	2.3	6.4	388	96
5	04/21/03 9:20	182	65	27.2	< 0.005			330	0.3	5.7	8.4	0.15	113	6.6	508	1.8	5.2	583	35
5	05/19/03 8:40	110	28	28.6	< 0.005			232	0.1	7.5	7.8	0.37	50		348	1.9	6.2	478	118
5	06/16/03 9:20	74	16	39.1	< 0.005			206	0.3	12	7.5	0.54	27	2.6	311	2.2	7.4	525	188
5	07/21/03 8:59	53	12	6.8	< 0.005			159	0.2	1	7.7	0.42	21		168	2.1	7.4	478	340
5	08/18/03 9:45	220	42	39.9	< 0.005			338	< 0.1	0.8	8.4	0.18	101	5.5	462	2.2	10.6	516	37
6	01/14/02 8:45	259	43.6749	13.6				355	< 0.1	1.6453	8	0.0505	76.6375		481	0.491	4.852	489	< 4
6	02/18/02 9:04	205	33.8181	16.1				290	< 0.1	2.6627	8.2	0.0693	63.8187		400	0.5212	5.94	410	12
6	03/18/02 10:53	185	31.3963	21.2				266	< 0.1	2.6572	8.3	0.1337	52.5478		366	1.4352	7.095	416	40
6	04/15/02 9:09	145	20.6687	31.2				202	< 0.1	3.0244	8	0.276	35.3273		333	1.8348	8.896	419	105
6	05/20/02 8:50	143	16	23.6				193	< 0.1	2.7	8.1	0.19	26		275	1.4	7.7	343	54
6	06/17/02 9:56	228	34	27.4				304	< 0.1	2.6	8.5	0.16	60		433	1.2	7	494	56
6	07/15/02 9:30	212	49	23.2				296	0.1	0.2	8.5	0.16	73		430	1.3	6.6	469	27
6	08/19/02 9:59	215	91		< 0.005			323			7.7		106		550			617	45
6	09/16/02 8:39	206	81	23.6				304	0.2	< 0.1	7.9	0.13	106		502	1.2	6.8	535	22
6	10/21/02 9:01	248	58	19				351	< 0.1	0.1	8.3	0.07	78		457	0.7 (QJ)	4.8	488	20
6	11/18/02 9:07	183	60	21.7				302	0.1	7.2	7.8	0.15	83		457	1.3	7.1	504	18
6	12/16/02 9:05	255	86	16.9				380	< 0.1	3.8	8	0.08	119		598	0.9	5.6	614	< 4
6	01/21/03 8:57	218	80	18.4				408	0.1	10	7.8	0.1	112		627	1	5.8	649	5
6	02/18/03 9:12	210	88	20.3				373	0.3	4.4	7.7	0.14	114		568	1.1	6.5	592	8
6	03/18/03 9:25	62	29	33.9				175	0.3	5.6	7.6	0.4	38		289	1.8	8.7	372	76
6	04/21/03 8:45	195	47	26.8				334	< 0.1	2.5	8.3	0.06	83		448	0.7	8.5	515	39

IDEM Fort Wayne Rivers - General Chemicals - Years 2002 and 2003

Station	Sample Date & Time	Alkalinity (as CaCO3) (mg/L)	Chloride (mg/L)	COD (mg/L)	Cyanide (Total) (mg/L)	E_Coli (MPN/100mL)	Fluoride (mg/L)	Hardness (as CaCO3) (mg/L)	Nitrogen, Ammonia (mg/L)	Nitrogen, Nitrate+Nitrite (mg/L)	pH (SU)	Phosphorus, Total (mg/L)	Sulfate (mg/L)	TBOD5 (mg/L)	TDS (mg/L)	TKN (mg/L)	TOC (mg/L)	TS (mg/L)	TSS (mg/L)
6	05/19/03 8:07	140	28	34.9				276	< 0.1	5.7	7.9	0.23	53		359	1.5	8.6	445	82
6	06/16/03 8:55	104	20	35.8				217	0.2	11	7.6	0.44	33		328	2	7.8	504	176
6	07/21/03 8:33	82	19	40.6				194	0.2	1.1	7.9	0.39	32		207	1.9	6.8	506	292
6	08/18/03 9:15	208	33	31.9				305	< 0.1	0.6	8.4	0.13	65		390	1.5	9.7	443	39
7	01/14/02 12:00	265	45.2815	15.1	0.0052			347			7.9	0.0659	72.6763		468	0.7559	5.376	481	6
7	02/18/02 12:48	207	38.1459	17.7	< 0.005			284	< 0.1	2.7978	8.2	0.08	60.8273	< 1	410	0.6739	6.189	418	15
7	03/18/02 12:02	185	34.516	20.8	< 0.005			268	0.1075	2.8558	8.2	0.1391	54.0424		366	1.2728	7.214	425	40
7	04/15/02 11:40	145	21.811	33.8	< 0.005			202	< 0.1	3.0153	8	0.2918	36.6474	1.9	339	1.8606	8.685	428	106
7	05/20/02 12:35	143	18	24.3	< 0.005			193	< 0.1	2.8	8.1	0.21	29		279	1.2	8	348	55
7	06/17/02 12:40	220	44	23.2	< 0.005			309	< 0.1	3.5	8.4	0.2	65	3.3	447	1.3	6.9	528	61
7	07/15/02 13:00	204	76	25.1	< 0.005			302	0.1	1.4	8.4	0.19	91		500	1.4	6.8	550	33
7	08/19/02 13:17	172	139	25.8	< 0.005			274	0.1	2.5	7.8	0.21	91	3.8 (QJ)	579	1.5	7.1	636	39
7	09/16/02 11:12	197	108	20.9	< 0.005			298	0.4	2.9	7.7	0.18	102		549	1.6	6.9	587	27
7	10/21/02 12:22	210	94	21.7	< 0.005			322	< 0.1	3.1	8	0.08	81	2.3	508	1 (QJ)	5.6	525	27
7	11/18/02 11:47	174	74	20.5	< 0.005			288	0.2	7.3	7.8	0.19	84		474	1.4	7.3	512	16
7	12/16/02 11:55	225	110	17.7	< 0.005			366	0.2	5.2	7.9	0.15	129	1.4	614	1	6.1	638	< 4
7	01/21/03 11:23	204	108	18.8	< 0.005			390	0.2	11	7.8	0.12	113		650	1.1	6.1	680	5
7	02/18/03 11:11	188	113	18.8	< 0.005			356	0.3	6	7.7	0.17	110	< 1	602	1.1	6.9	628	8
7	03/18/03 13:01	60	31	32	< 0.005			182	0.3	5.8	7.5	0.38	37		296	1.5	8.6	377	74
7	04/21/03 13:00	195	55	30.9	< 0.005	57		337	0.1	4.1	8.3	0.14	87	4.6	467	1.2	7.8	528	37
7	05/19/03 12:17	141	30	45.8	< 0.005			279	< 0.1	5.8	7.9	0.24 (QJ)	54		373	1.6 (QJ)	8.4	469	82
7	06/16/03 11:55	102	21	39.9	< 0.005			219	0.3	11	7.6	0.5	32	2.7	317	2	7.6	519	196
7	07/21/03 13:16	87	20	36.5	< 0.005			189	0.2	1.2	7.8	0.32	34		218	1.7	6.7	436	216
7	08/18/03 13:00	210	42	31.5	< 0.005			308	< 0.1	1.1	8.4	0.14	71	4.2	417	1.6	9.3	476	47
8	01/14/02 11:30	252	57.6559	14.7	< 0.005			365	0.1024	2.4235	7.9	0.0771	82.6496		524	0.6339	5.003	531	6
8	02/18/02 12:13	205	37.2766	16.1	< 0.005			298	< 0.1	2.8423	8.2	0.0776	62.1253	< 1	411	0.5928	5.846	417	13
8	03/18/02 11:38	189	33.4136	23.5	< 0.005			272	< 0.1	2.9133	8.2	0.1515	54.8104		360	1.2672	7.02	423	48
8	04/15/02 11:14	139	21.2029	34.2	< 0.005			198	< 0.1	3.0206	8	0.3116	34.3184		322	2.0296	8.746	427	137
8	05/20/02 12:10	141	18	23.9	< 0.005			191	< 0.1	2.9	8.1	0.24	28		273	1.4	8.3	354	64
8	06/17/02 12:15	218	44	25.5	< 0.005			300	< 0.1	3	8.5	0.19	55	3	435	1.2	6.9	496	52
8	07/15/02 11:30	190	64	31.9	< 0.005			298	< 0.1	0.6	8.8	0.14	80		438	1.5	8.3	512	62
8	08/19/02 12:45	176	72	27.4	< 0.005			272	< 0.1	1.8	8	0.19	80	2.7 (QJ)	446	1.1	7	507	37
8	09/16/02 10:44	164	110	31.2	< 0.005			254	< 0.1	2.3	8.6	0.12	98		502	1.5	7.8	543	32
8	10/21/02 11:49	213	89	19.4	< 0.005			331	< 0.1	1.4	8.3	0.08	85	2.9	494	0.9 (QJ)	5.6	527	13
8	11/18/02 11:18	166	74	20.9	< 0.005			296	0.2	9.2	7.9	0.16	86		488	1.3	7.3	530	14
8	12/16/02 11:22	220	107	18	< 0.005			350	< 0.1	5.1	8.1	0.11	112	1.2	604	0.7	6.2	626	< 4
8	01/21/03 10:54	206	101	18	< 0.005			376	0.1	11	7.8	0.12	107		626	1	6.2	654	7
8	02/18/03 10:39	189	108	22.9	< 0.005			372	0.3	5.8	7.8	0.17	101	1.4	587	1.2	6.8	620	8
8	03/18/03 12:34	59	32	33.1	< 0.005			179	0.3	6.1	7.5	0.4	36		295	1.6	8.5	388	102
8	04/21/03 12:35	198	54	28	< 0.005			336	< 0.1	3.8	8.5	0.14	96	4.8	465	1.2	7.3	528	31
8	05/19/03 11:50	142	31	36.5	< 0.005			279	< 0.1	6	7.9	0.24	56		364	1.6	8.2	454	86
8	06/16/03 11:20	90	18	42	< 0.005			207	0.2	10	7.6	0.5	29	2.5	299	2.1	7.5	565	232
8	07/21/03 12:49	87	21	49.6	< 0.005			209	0.2	1.5	7.8	0.54	34		228	2.2	7.6	574	344
8	08/18/03 11:30	209	40	30.8	< 0.005			304	< 0.1	1	8.5	0.12	71	4.5	408	1.7	9.3	460	41

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
DEPTH	4/1/02	13.55	13.6	7.71	15.79	15.71	18.73
DEPTH	4/8/02	4.86	9.69	6.47	12.43	8.28	11.63
DEPTH	4/15/02	5.39	10.83	7.89	13.04	9.85	13.19
DEPTH	4/22/02	2.61	9.34	5.27	11.58	5.96	9.32
DEPTH	4/29/02	7.24	9.86	2.68	12.02	8.12	10.64
DEPTH	5/6/02	2.84	7.19	1.55	10.51	3.51	7.2
DEPTH	5/13/02	7.72	11.46	9.08	13.79	13.45	17.68
DEPTH	5/20/02	4.15	9.94	5.69	12.37	8.63	11.12
DEPTH	5/29/02	2.6	8.36	4.42	10.47	4.16	6.98
DEPTH	6/3/02	4.1	8.9	2.84	11.43	4.27	7.84
DEPTH	6/10/02	2.03	7.51	2.41	9.52	3.36	6.75
DEPTH	6/17/02	1.61	8.82	2.73	11.3	1.34	6.25
DEPTH	6/24/02	0.66	9.02	2.57	11.22	1.78	5.22
DEPTH	7/1/02	1.28	8.87	2.09	10.87	1.84	5.8
DEPTH	7/8/02	1.36	9.1	11.08	11.7	2.15	5.87
DEPTH	7/15/02	0.1	8.27	1.51	10.72	1.39	5.27
DEPTH	7/22/02	0.51	8.66	2.66	10.71	1	4.46
DEPTH	7/29/02	0.28	9.31	3.57	11.28	1.94	5.3
DEPTH	8/5/02	0.56	8.16	2.04	10.21	2.46	5.73
DEPTH	8/12/02	0.94	3.19	2.07	5.34	0.96	4.73
DEPTH	8/19/02	0.97	5.35	2.94	7.64	1.74	5.77
DEPTH	8/26/02	1.59	5.05	2.21	7.23	1.48	5.64
DEPTH	9/3/02	0.89	8.69	2.76	10.99	1.23	4.88
DEPTH	9/9/02	1.03	8.59	2.83	10.92	1.1	4.59
DEPTH	9/16/02	0.65	8.63	1.86	10.7	0.98	4.33
DEPTH	9/23/02	1.24	8.77	2.74	11.06	1.31	4.72
DEPTH	9/30/02	1.72	8.94	1.7	11.11	2.01	5.69
DEPTH	10/7/02	1.32	8.83	1.71	11.06	1.72	4.73
DEPTH	10/14/02	0.85	8.69	3	11.08	1.21	4.59
DEPTH	10/21/02	0.74	8.89	1.09	11.17	1.06	4.79
DEPTH	10/28/02	0.64	8.74	0.89	10.85	1.06	4.66
DO	4/1/02	11.26	10.85	11.49	11.94	10.99	11.07
DO	4/8/02	10.99	10.89	11.73	12.52	12.17	12.16
DO	4/15/02	8.69	8.65	9.5	9.92	9.84	9.66
DO	4/22/02	9.78	8.13	9.66	9.96	9.93	9.96
DO	4/29/02	9.06	8.84	11.57	11.47	10.36	10.44
DO	5/6/02	9.13	10.86	10.26	12.19	12.09	10.64
DO	5/13/02	9.35	8.78	9.3	10.3	9.71	9.34
DO	5/20/02	10.21	9.45	10.71	11.21	11.03	11.48
DO	5/29/02	9.01	9.01	11.1	11.72	11.28	10.1
DO	6/3/02	7.03	7.28	9.98	9.34	8.72	8.97
DO	6/10/02	10.2	7.98	8.96	9.72	8.91	8.79
DO	6/17/02	10.79	8.49	9.13	9.66	8.97	9.5
DO	6/24/02	13.74	17.83	6.92	7.79	8.51	6.9
DO	7/1/02	8.95	6.53	6.53	7.27	7.5	6.81

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
DO	7/8/02	9.34	10.95	5.24	7.58	6.84	5.51
DO	7/15/02	15.34	10.32	6.79	9.27	8.25	6.92
DO	7/22/02	9.88	9.73	5.9	11.47	5.47	6.88
DO	7/29/02	7.86	10.51	6.34	5.91	7.67	6.06
DO	8/5/02	10.61	8.74	5.2	5.32	5.87	5.28
DO	8/12/02	8.53	1.9	6.04	8.9	6.44	7.68
DO	8/19/02	7.21	4.04	6.47	6.72	5.36	6.75
DO	8/26/02	5.54	2.69	6.52	6.39	5.51	4.88
DO	9/3/02	7.01	15.77	6.27	11.85	6.65	7.11
DO	9/9/02	10.38	16.56	6.88	8.17	7.31	4.76
DO	9/16/02	9.49	7.81	6.88	5.6	6.29	4.26
DO	9/23/02	5.35	0.77	7.58	7.16	6.53	5.25
DO	9/30/02	8.48	3.21	7.3	10.14	8.17	6.2
DO	10/7/02	8.56	5.61	8.01	13.89	6.74	10.71
DO	10/14/02	11.15	9.01	9.13	8.75	8.45	8.18
DO	10/21/02	15.73	10.69	10.46	10.12	10.18	9.76
DO	10/28/02	11.81	9.67	11.38	10.7	10.81	10.37
ECOLI	4/1/02	396	884	548	544	616	768
ECOLI	4/8/02	800	740	1280	320	1040	440
ECOLI	4/15/02	640	660	200	220	460	400
ECOLI	4/22/02	460	680	620	200	360	300
ECOLI	4/29/02	5660	3740	500	360	4440	5000
ECOLI	5/6/02	200	1000	100	100	300	400
ECOLI	5/13/02	7500	5400	3300	5600	4300	5400
ECOLI	5/20/02	100	500	100	100	100	300
ECOLI	5/29/02	1450	2700	350	100	1100	1800
ECOLI	6/3/02	420	560	180	140	540	200
ECOLI	6/10/02	700	1400	380	290	330	470
ECOLI	6/17/02	350	420	120	140	260	250
ECOLI	6/24/02	2880	360	510	240	430	660
ECOLI	7/1/02	170	220	740	240	540	430
ECOLI	7/8/02	760	300	240	210	290	420
ECOLI	7/15/02	60	380	240	220	70	fail
ECOLI	7/22/02	750	170	80	150	470	400
ECOLI	7/29/02	90	270	240	80	60	130
ECOLI	8/5/02	180	740	20	50	270	160
ECOLI	8/12/02	130	55	265	245	600	65
ECOLI	8/19/02	130	130	360	980	400	620
ECOLI	8/26/02	400	fail	100	210	2400	1480
ECOLI	9/3/02	200	1600	90	70	110	420
ECOLI	9/9/02	240	60	90	50	50	560
ECOLI	9/16/02	100	240	70	30	90	370
ECOLI	9/23/02	350	250	200	320	900	640
ECOLI	9/30/02	385	220	195	415	310	680
ECOLI	10/7/02	230	260	270	100	220	220

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
ECOLI	10/14/02	280	600	110	10	70	130
ECOLI	10/21/02	15	190	80	75	115	105
ECOLI	10/28/02	80	160	35	150	800	270
NH3-N	4/1/02	0.1	0.188	0.206	0.172	0.189	0.173
NH3-N	4/8/02	0.1	0.0493	0.0407	0.0371	0.0387	0.0469
NH3-N	4/15/02	0.1	0.1	0.1	0.1	0.1	0.1
NH3-N	4/22/02	0.0401	0.0283	0.0554	0.0425	0.0399	0.0506
NH3-N	4/29/02	0.804	0.779	0.125	0.0183	0.503	0.495
NH3-N	5/6/02	0.0485	0.0149	0.0202	0.0291	0.015	0.0265
NH3-N	5/13/02	0.25	0.155	0.12	0.0796	0.118	0.115
NH3-N	5/20/02	0.1	0.1	0.1	0.1	0.1	0.1
NH3-N	5/29/02	0.0565	0.0825	0.002	0.002	0.022	0.0416
NH3-N	6/3/02	0.0317	0.0357	0.0189	0.0106	0.0249	0.0452
NH3-N	6/10/02	0.002	0.002	0.002	0.002	0.002	0.002
NH3-N	6/17/02	0.1	0.1	0.1	0.1	0.1	0.1
NH3-N	6/24/02	0.37	0.0135	0.0097	0.0093	0.0657	0.155
NH3-N	7/1/02	0.0415	0.0235	0.0058	0.002	0.0063	0.0439
NH3-N	7/8/02	0.002	0.002	0.002	0.002	0.0557	0.112
NH3-N	7/15/02	0.1	0.2	0.1	0.1	0.1	0.1
NH3-N	7/22/02	0.101	0.0275	0.187	0.0517	0.298	0.114
NH3-N	7/29/02	0.002	0.002	0.002	0.002	0.0053	0.0215
NH3-N	8/5/02	0.0225	0.0216	0.0433	0.0439	0.0353	0.157
NH3-N	8/12/02	0.0189	0.782	0.0322	0.0026	0.179	0.0164
NH3-N	8/19/02	0.1	0.6	N/A	0.1	N/A	0.1
NH3-N	8/26/02	0.0565	0.321	0.0051	0.0546	0.244	0.218
NH3-N	9/3/02	0.0146	0.0172	0.024	0.0038	0.171	0.08
NH3-N	9/9/02	0.19	0.16	0.071	0.14	0.262	0.458
NH3-N	9/16/02	0.1	0.5	0.1	0.1	0.2	0.4
NH3-N	9/23/02	0.173	0.361	0.0583	0.0822	0.195	0.325
NH3-N	9/30/02	0.002	0.324	0.0055	0.002	0.0925	0.241
NH3-N	10/7/02	0.002	0.0697	0.147	0.002	0.186	0.124
NH3-N	10/14/02	0.106	0.117	0.0483	0.0217	0.109	0.258
NH3-N	10/21/02	0.1	0.1	0.1	0.1	0.1	0.1
NH3-N	10/28/02	0.137	0.0979	0.0555	0.0298	0.074	0.127
PH	4/1/02	8.17	7.56	7.69	7.71	7.52	7.64
PH	4/8/02	7.91	7.73	7.87	7.86	7.77	7.82
PH	4/15/02	7.76	7.73	7.76	7.72	7.75	7.74
PH	4/22/02	7.93	7.78	7.91	7.98	7.88	7.95
PH	4/29/02	7.48	7.36	7.87	7.89	7.61	7.71
PH	5/6/02	7.8	7.82	8.14	8.14	7.96	7.96
PH	5/13/02	7.52	7.48	7.61	7.63	7.51	7.6
PH	5/20/02	7.79	7.8	7.89	7.91	7.83	7.86
PH	5/29/02	7.85	7.66	8.06	8.03	7.85	7.88
PH	6/3/02	7.7	7.62	8.1	8.01	7.69	7.87
PH	6/10/02	8.01	7.71	8.04	8.09	7.91	7.9

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
PH	6/17/02	8.33	7.91	8.28	8.31	8.1	8.08
PH	6/24/02	8.34	7.76	7.87	8.2	7.87	7.72
PH	7/1/02	8.32	7.42	7.95	7.99	7.79	7.64
PH	7/8/02	8.35	7.77	7.75	7.89	7.76	7.56
PH	7/15/02	8.77	8.04	8.12	8.24	7.87	7.81
PH	7/22/02	8.46	7.95	7.84	8.23	7.52	7.69
PH	7/29/02	8.1	8.28	7.98	7.94	7.98	7.77
PH	8/5/02	8.7	7.61	7.9	7.72	7.48	7.8
PH	8/12/02	8.28	7.22	7.77	7.65	7.41	7.57
PH	8/19/02	7.8	7.14	7.9	7.77	7.2	7.5
PH	8/26/02	7.47	7.15	7.9	7.71	7.29	7.39
PH	9/3/02	7.82	8.03	7.9	8.04	7.42	7.67
PH	9/9/02	8.41	7.77	8.01	7.94	7.35	7.42
PH	9/16/02	8.21	7.75	7.98	7.66	7.45	7.5
PH	9/23/02	7.29	7.02	7.78	7.7	7.42	7.37
PH	9/30/02	7.24	7	7.71	7.97	7.57	7.3
PH	10/7/02	7.83	7.5	7.65	7.91	7.61	7.66
PH	10/14/02	7.81	7.5	7.88	7.85	7.49	7.36
PH	10/21/02	8.51	7.93	7.88	7.93	7.81	7.68
PH	10/28/02	7.75	7.63	7.95	7.82	7.61	7.73
PHOS	4/1/02	0.1	0.489	0.279	0.261	0.39	0.417
PHOS	4/8/02	0.14	0.308	0.177	0.183	0.205	0.216
PHOS	4/15/02	0.34	0.31	0.28	0.27	0.28	0.29
PHOS	4/22/02	0.212	0.128	0.188	0.141	0.151	0.155
PHOS	4/29/02	0.959	0.994	0.139	0.095	0.643	0.671
PHOS	5/6/02	0.237	0.12	0.072	0.061	0.089	0.099
PHOS	5/13/02	0.714	0.631	0.47	0.526	0.585	0.509
PHOS	5/20/02	0.26	0.31	0.15	0.15	0.19	0.21
PHOS	5/29/02	0.346	0.408	0.156	0.146	0.253	0.291
PHOS	6/3/02	0.411	0.373	0.145	0.104	0.254	0.25
PHOS	6/10/02	0.299	0.304	0.165	0.152	0.236	0.407
PHOS	6/17/02	0.29	0.21	0.13	0.11	0.16	0.2
PHOS	6/24/02	0.239	0.188	0.135	0.089	0.104	0.131
PHOS	7/1/02	0.371	0.249	0.188	0.125	0.174	0.204
PHOS	7/8/02	0.281	0.22	0.191	0.16	0.138	0.179
PHOS	7/15/02	0.29	0.24	0.13	0.12	0.16	0.19
PHOS	7/22/02	0.454	0.298	0.179	0.118	0.229	0.215
PHOS	7/29/02	0.394	0.151	0.21	0.128	0.14	0.201
PHOS	8/5/02	0.35	0.14	0.114	0.072	0.165	0.161
PHOS	8/12/02	0.26	0.369	0.108	0.112	0.146	0.167
PHOS	8/19/02	0.28	0.32	N/A	0.12	N/A	0.21
PHOS	8/26/02	0.447	0.271	0.164	0.116	0.21	0.178
PHOS	9/3/02	0.193	0.082	0.088	0.06	0.016	0.009
PHOS	9/9/02	0.346	0.062	0.139	0.063	0.058	0.198
PHOS	9/16/02	0.32	0.37	0.14	0.11	0.13	0.18

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
PHOS	9/23/02	0.312	0.297	0.158	0.121	0.202	0.206
PHOS	9/30/02	0.186	0.26	0.207	0.183	0.213	0.326
PHOS	10/7/02	0.597	0.245	0.243	0.132	0.399	0.533
PHOS	10/14/02	0.266	0.211	0.102	0.101	0.147	0.263
PHOS	10/21/02	0.22	0.14	0.05	0.08	0.07	0.08
PHOS	10/28/02	0.279	0.06	0.015	0.0.18	0.039	0.073
TDS	4/1/02	538	140	104	124	180	72
TDS	4/8/02	483	276	188	216	216	244
TDS	4/15/02	375	390	300	298	333	339
TDS	4/22/02	376	332	236	240	264	284
TDS	4/29/02	336	328	328	312	320	320
TDS	5/6/02	440	524	352	412	456	456
TDS	5/13/02	388	356	276	280	300	308
TDS	5/20/02	365	347	251	253	275	279
TDS	5/29/02	540	464	392	360	392	416
TDS	6/3/02	504	500	360	332	384	352
TDS	6/10/02	460	412	336	304	388	388
TDS	6/17/02	581	485	398	386	433	447
TDS	6/24/02	544	532	452	460	416	448
TDS	7/1/02	568	432	448	472	364	372
TDS	7/8/02	628	488	384	320	388	432
TDS	7/15/02	691	529	407	402	430	500
TDS	7/22/02	772	572	432	432	448	488
TDS	7/29/02	544	408	324	308	336	456
TDS	8/5/02	144	400	296	324	400	368
TDS	8/12/02	916	840	472	464	628	608
TDS	8/19/02	622	484	397	316	550	579
TDS	8/26/02	444	436	444	380	396	472
TDS	9/3/02	720	532	508	376	400	572
TDS	9/9/02	796	416	404	380	388	492
TDS	9/16/02	784	620	434	485	502	549
TDS	9/23/02	496	440	412	456	552	520
TDS	9/30/02	528	368	428	464	428	460
TDS	10/7/02	688	484	408	328	424	476
TDS	10/14/02	852	560	460	472	488	532
TDS	10/21/02	914	598	463	445	457	508
TDS	10/28/02	884	460	440	424	464	508
TEMPF	4/1/02	36.78	41.69	41.97	42.08	41.85	42.23
TEMPF	4/8/02	43.56	44.94	42.59	42.48	43.29	43.76
TEMPF	4/15/02	59.11	57.62	56.8	56.46	56.85	57.66
TEMPF	4/22/02	56.14	57.38	55.48	57.12	57.77	57.7
TEMPF	4/29/02	50.91	50.43	49.72	50.89	50.57	50.68
TEMPF	5/6/02	58.64	59.2	58.55	59.11	59.54	59.68
TEMPF	5/13/02	55.61	54.92	53.69	57.48	53.99	54.04
TEMPF	5/20/02	52.38	52.68	51.84	52.13	52.45	52.94

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
TEMPF	5/29/02	61.98	61.74	62.2	62.21	62.21	62.24
TEMPF	6/3/02	68.7	68.07	67.96	69.8	69.21	69.36
TEMPF	6/10/02	71.43	71.33	71.55	71.93	70.61	71.02
TEMPF	6/17/02	68.68	69.53	68.55	69.96	69.9	70.24
TEMPF	6/24/02	77.49	79.65	75.44	79.99	77.02	76.29
TEMPF	7/1/02	78.61	78.66	76.89	77.78	78.04	77.14
TEMPF	7/8/02	77.36	80.87	77.12	80.31	80	79.53
TEMPF	7/15/02	78.38	79.02	74.84	77.58	77.69	77.84
TEMPF	7/22/02	81.94	83.48	79.24	82.69	79.98	81.71
TEMPF	7/29/02	79.2	79.81	77.93	78.31	78.61	78.6
TEMPF	8/5/02	81.06	82.47	79.6	80.73	80.85	81.27
TEMPF	8/12/02	75.48	75.82	75.38	77.56	76.83	77.7
TEMPF	8/19/02	74.42	73.38	73.66	74.66	76.38	75.61
TEMPF	8/26/02	73.64	75.35	74.15	75.12	76.25	75.11
TEMPF	9/3/02	75.02	77.2	74.64	77.65	76.39	76.14
TEMPF	9/9/02	73.16	77.48	72.23	77.02	75.63	76.18
TEMPF	9/16/02	69.67	73.25	69.54	73.1	73.29	72.43
TEMPF	9/23/02	61.9	67.29	62.52	68.99	69.33	65.54
TEMPF	9/30/02	64.68	65.72	64.98	65.84	65.26	67.03
TEMPF	10/7/02	58.49	65.19	64.55	65.51	65.46	63.8
TEMPF	10/14/02	52.29	58.85	53.66	59.54	59.4	57.26
TEMPF	10/21/02	48.33	51.51	47.11	51.04	52.63	52.6
TEMPF	10/28/02	47.61	47.82	47.19	48.15	48.51	50.74
TSS	4/1/02	10	112	96	100	144	100
TSS	4/8/02	31	26	64	66	76	84
TSS	4/15/02	131	96	105	109	333	106
TSS	4/22/02	42	260	66	56	46	60
TSS	4/29/02	286	44	176	24	224	224
TSS	5/6/02	94	272	40	38	44	50
TSS	5/13/02	336	59	208	220	260	244
TSS	5/20/02	58	110	41	48	54	55
TSS	5/29/02	112	158	76	42	74	108
TSS	6/3/02	138	76	34	14	58	66
TSS	6/10/02	84	46	36	58	76	74
TSS	6/17/02	88	34	45	26	56	61
TSS	6/24/02	104	36	30	24	48	36
TSS	7/1/02	80	34	60	30	70	66
TSS	7/8/02	56	17	44	37	27	27
TSS	7/15/02	94	20	44	23	27	33
TSS	7/22/02	76	20	32	40	150	210
TSS	7/29/02	60	13	120	25	11	28
TSS	8/5/02	70	62	24	21	36	53
TSS	8/12/02	64	55	42	34	37	32
TSS	8/19/02	69	76	44	46	45	39
TSS	8/26/02	104	28	36	27	52	52

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
TSS	9/3/02	54	11	35	11	17	21
TSS	9/9/02	46	46	25	15	10	20
TSS	9/16/02	61	6	38	16	22	27
TSS	9/23/02	46	11	36	15	17	70
TSS	9/30/02	52	19	23	29	10	13
TSS	10/7/02	20	51	15	10	9	13
TSS	10/14/02	32	23	19	20	27	33
TSS	10/21/02	12	20	15	13	20	27
TSS	10/28/02	60	20	70	10	20	20
DEPTH	04/07/03	7.09	11.48	6.52	13.53	11.24	14.59
DEPTH	04/14/03	3.01	9.54	3.41	11.69	3.63	8.02
DEPTH	04/21/03	2.06	9.27	2.88	11.55	2.84	6.39
DEPTH	04/28/03	1.54	9.15	1.91	11.31	1.98	6.04
DEPTH	05/05/03	11.07	12.04	7.58	14.12	11.45	15.57
DEPTH	05/12/03	15.81	16.53	9.58	18.73	18.41	21.48
DEPTH	05/19/03	3.28	10.46	4.19	12.27	6.35	9.48
DEPTH	05/27/03	1.84	9.08	3.06	11.01	1.66	6.07
DEPTH	06/02/03	2.27	9.19	2.73	11.3	1.97	6.17
DEPTH	06/09/03	2.19	9.15	3.01	11.32	2.19	5.93
DEPTH	06/16/03	9.63	11.01	3.34	13.38	8.96	11.97
DEPTH	06/23/03	5.57	9.43	2.69	11.92	4.79	8.6
DEPTH	06/30/03	2.14	9.38	2.37	11.29	2.2	5.87
DEPTH	07/07/03	17	13.25	12.57	15.36	15.44	18.95
DEPTH	07/15/03	11.35	11.82	2.97	13.91	10.82	14.98
DEPTH	07/21/03	6.03	12.27	5.04	14.37	12.56	17.65
DEPTH	07/28/03	5.55	10.44	5.08	12.95	5.61	9.29
DEPTH	08/04/03	11.27	12.1	6.52	14.46	11.88	15.2
DEPTH	08/11/03	4.24	9.97	3.66	12.01	4.44	8.52
DEPTH	08/18/03	2.25	9.83	2.42	11.51	2.62	6.45
DEPTH	08/25/03	2.11	9.09	3.09	11.2	1.75	5.9
DEPTH	09/02/03	9.03	12.63	10.54	15.51	13.85	16.98
DEPTH	09/08/03	5.09	10.13	3.55	12.16	5.07	8.84
DEPTH	09/15/03	1.88	9.61	3.44	12.07	3.12	7.26
DEPTH	09/22/03	2.18	9.62	3.15	11.93	7.39	7.55
DEPTH	09/29/03	11.42	12.19	5.98	14.3	12.21	15.51
DEPTH	10/06/03	3.06	9.58	3.49	11.96	3.05	7.5
DEPTH	10/13/03	2.19	9.34	1.67	11.58	2.15	6.38
DEPTH	10/20/03						
DEPTH	10/27/03	2.64	9.61	2.38	11.69	2.64	6.49
DO	04/07/03	6.01	5.8	6.26	7.12	7.36	4.9
DO	04/14/03	7.25	8.62	9.05	9.64	10.43	8.46
DO	04/21/03	16.51	15.57	9.91	10.7	10.54	12.28
DO	04/28/03	15.37	20.36	11.72	13.74	13.55	12.52
DO	05/05/03	10.02	9.81	10.67	11.3	10.78	10.03
DO	05/12/03	9.36	8.19	11.14	10.75	8.4	9.41

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
DO	05/19/03	7.9	7.14	9.10	9.29	9.03	8.7
DO	05/27/03	10.49	10.92	10.01	10.33	10.37	9.87
DO	06/02/03	11.78	11.8	9.74	10.36	9.89	9.98
DO	06/09/03	8.7	8.35	9.24	9.84	8.98	9.32
DO	06/16/03	3.11	3.14	4.07	4.22	5.96	3.64
DO	06/23/03	6.75	7.05	7.66	10.25	8.48	8.07
DO	06/30/03	7.56	8.22	5.03	5.68	7.01	5.93
DO	07/07/03	2.78	5.8	4.19	7.12	6.35	2.84
DO	07/15/03	1.38	1.43	4.43	6.13	2.77	2.74
DO	07/21/03	6.03	7.69	7	9.11	7.28	7.92
DO	07/28/03	6.78	6.74	7.32	8.07	8.47	7.12
DO	08/04/03	2.3	9.71	3.32	3.45	6.71	2.66
DO	08/11/03	6.62	6.24	8.02	8.15	8.29	7.6
DO	08/18/03	9.76	11.54	8.49	9.72	9.13	10.4
DO	08/25/03	11.64	13.22	6.47	13.63	8.16	7.07
DO	09/02/03	6.24	5.85	7.19	7.18	6.81	6.9
DO	09/08/03	7.37	7.25	8.63	8.74	9.04	8.5
DO	09/15/03	9.78	8.05	8.08	8.89	8.99	7.88
DO	09/22/03	7.71	10.28	6.55	7.33	9.11	6.78
DO	09/29/03	6.67	7.00	9.16	9.37	8.29	7.62
DO	10/06/03	9.8	9.62	11	10.9	11.06	10.41
DO	10/13/03	8.32	9.33	9.9	9.53	9.8	9.48
DO	10/20/03						
DO	10/27/03	8.8	8.82	10.77	10.11	10.62	10.68
ECOLI	04/07/03	6	32	Failed	8	Failed	32
ECOLI	04/14/03	18	8	16	34	80	36
ECOLI	04/21/03	6	20	9	5	9	7
ECOLI	04/28/03	7	8	4	3	13	48
ECOLI	05/05/03	8	8	8	12	28	28
ECOLI	05/12/03	1200	2000	1300	700	1100	1000
ECOLI	05/19/03	76	249	62	78	146	152
ECOLI	05/27/03	52	88	94	76	84	64
ECOLI	06/02/03	28	36	30	38	40	352
ECOLI	06/09/03	224	20	54	80	44	296
ECOLI	06/16/03	720	300	150	130	495	500
ECOLI	06/23/03	540	260	60	40	320	340
ECOLI	06/30/03	240	620	100	190	400	500
ECOLI	07/07/03	370	250	1040	360	250	200
ECOLI	07/15/03	200	500	<100	500	300	1500
ECOLI	07/21/03	320	200	340	440	140	140
ECOLI	07/28/03	30	20	10	60	10	15
ECOLI	08/04/03	416	800	780	640	760	840
ECOLI	08/11/03	290	340	190	120	230	250
ECOLI	08/18/03	288	29	52	54	42	78
ECOLI	08/25/03	65	67	35	20	26	22

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
ECOLI	09/02/03	4	24	2	8	10	8
ECOLI	09/08/03	38	34	48	96	14	20
ECOLI	09/15/03	120	3	168	92	3	1
ECOLI	09/22/03	116	5	132	92	5	7
ECOLI	09/29/03	80	64	176	184	104	24
ECOLI	10/06/03	30	18	76	104	80	78
ECOLI	10/13/03	70	56	106	20	136	84
ECOLI	10/20/03						
ECOLI	10/27/03	15	1	18	23	15	52
NH3-N	04/07/03	0.239	0.294	0.190	0.181	0.261	0.246
NH3-N	04/14/03	0.221	0.050	0.427	0.081	0.030	0.092
NH3-N	04/21/03	0.2	0.300	<0.1	<0.1	<0.1	0.100
NH3-N	04/28/03	0.003	0.003	<0.003	<0.003	<0.003	<0.003
NH3-N	05/05/03	0.507	0.271	0.219	0.062	0.170	0.242
NH3-N	05/12/03	0.26	0.188	0.174	0.313	0.144	0.156
NH3-N	05/19/03	0.1	0.100	<0.1	<0.1	<0.1	<0.1
NH3-N	05/27/03	0.054	0.011	0.098	0.027	0.005	0.043
NH3-N	06/02/03	0.113	0.003	<0.003	<0.003	<0.003	<0.003
NH3-N	06/09/03	0.0487	0.035	0.007	<0.003	0.082	0.048
NH3-N	06/16/03	0.2	0.300	0.200	<0.1	0.200	0.300
NH3-N	06/23/03	0.0405	0.016	0.037	0.018	0.019	0.035
NH3-N	06/30/03	0.0169	0.036	0.099	0.053	0.030	0.060
NH3-N	07/07/03	0.142	0.072	0.119	0.047	0.070	0.063
NH3-N	07/15/03	0.0237	0.014	0.024	0.011	0.012	0.034
NH3-N	07/21/03	0.1	0.200	0.100	<0.1	0.200	0.200
NH3-N	07/28/03	0.148	0.036	0.063	0.023	0.010	0.047
NH3-N	08/04/03	0.0394	0.068	0.060	0.077	0.071	0.060
NH3-N	08/11/03	0.0234	0.143	0.029	0.012	0.053	0.046
NH3-N	08/18/03	0.1	0.100	<0.1	<0.1	<0.1	<0.1
NH3-N	08/25/03	0.0105	0.035	0.027	0.155	0.039	0.101
NH3-N	09/02/03	0.244	0.174	0.119	0.076	0.082	0.078
NH3-N	09/08/03	0.0892	0.016	0.047	0.029	0.011	0.024
NH3-N	09/15/03	0.0166	0.162	0.022	0.024	0.046	0.133
NH3-N	09/22/03	0.1	0.300	<0.1	<0.1	0.200	0.100
NH3-N	09/29/03	0.0226	0.028	0.052	0.043	0.022	0.023
NH3-N	10/06/03	0.0511	0.037	0.051	0.039	0.031	0.049
NH3-N	10/13/03	0.004	0.004	<0.004	0.009	<0.004	<0.004
NH3-N	10/20/03						
NH3-N	10/27/03	0.0929	0.074	0.018	0.034	0.029	0.111
PH	04/07/03	7.03	6.95	7.06	7.07	6.95	7.01
PH	04/14/03	7.26	7.1	7.3	7.28	6.95	7.27
PH	04/21/03	8.43	8.05	8.02	8	7.81	8.11
PH	04/28/03	8.21	8.14	8.09	8.15	8.15	8.04
PH	05/05/03	7.2	7.24	7.45	7.58	7.24	7.59
PH	05/12/03	7.06	6.95	7.01	7.08	6.69	7.08

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
PH	05/19/03	7.7	7.12	7.18	7.27	7.07	7.70
PH	05/27/03	8.21	7.7	8.05	7.87	7.33	8.05
PH	06/02/03	8.6	8.6	8.5	8.6	8.4	8.4
PH	06/09/03	8	7.80	8.40	8.3	7.6	8.1
PH	06/16/03	6.97	7.03	7.39	7.48	6.87	7.13
PH	06/23/03	6.78	6.99	7.21	7.67	7.37	6.99
PH	06/30/03	7.76	7.72	7.46	7.63	7.7	7.62
PH	07/07/03	6.95	6.95	7.48	7.07	6.94	7.16
PH	07/15/03	7.15	7.03	7.4	7.35	6.92	7.22
PH	07/21/03	7.13	7.13	7.45	7.71	6.93	7.32
PH	07/28/03	7.18	7.09	7.25	7.32	7.06	7.12
PH	08/04/03	7.18	7.11	7.21	7.26	6.85	7.22
PH	08/11/03	7.28	7.07	7.44	7.23	7.01	7.39
PH	08/18/03	8.03	8.04	8.15	8.19	7.76	8.13
PH	08/25/03	7.93	7.83	7.53	7.67	7.49	7.49
PH	09/02/03	7.1	7.21	7.09	7.27	7.02	7.16
PH	09/08/03	7.1	7.12	7.23	7.19	6.91	7.23
PH	09/15/03	7.64	7.37	7.67	7.61	7.4	7.51
PH	09/22/03	8.18	8.08	7.85	7.98	7.73	7.98
PH	09/29/03	6.31	6.24	6.35	6.41	6.2	6.39
PH	10/06/03	7.07	6.89	7.1	7.01	6.89	7.16
PH	10/13/03	7.19	7.16	7.37	7.33	7.08	7.36
PH	10/20/03						
PH	10/27/03	6.92	6.88	7.15	7.13	6.93	7.13
PHOS	04/07/03	0.438	0.499	0.320	0.348	0.337	0.438
PHOS	04/14/03						
PHOS	04/21/03	0.15	0.150	0.110	0.130	0.060	0.140
PHOS	04/28/03	0.027	0.087	0.190	0.079	0.106	0.160
PHOS	05/05/03	1.38	0.573	0.411	0.174	0.421	0.444
PHOS	05/12/03	0.694	0.763	0.263	0.358	0.605	0.620
PHOS	05/19/03	0.33	0.370	0.160	0.140	0.230	0.240
PHOS	05/27/03	0.286	0.145	0.241	0.225	0.215	0.241
PHOS	06/02/03	0.173	0.119	0.219	0.057	0.117	0.094
PHOS	06/09/03	0.03	0.121	< 0.02	0.021	0.075	0.081
PHOS	06/16/03	0.5	0.54	0.16	0.1	0.44	0.500
PHOS	06/23/03	0.265	0.262	0.139	0.120	0.288	0.319
PHOS	06/30/03	0.057	0.175	0.187	0.131	0.153	0.176
PHOS	07/07/03	0.358	0.406	0.124	0.136	0.378	0.382
PHOS	07/15/03	1.904	1.248	1.426	0.793	1.131	1.133
PHOS	07/21/03	0.51	0.420	0.400	0.350	0.390	0.320
PHOS	07/28/03	0.322	0.261	0.494	0.192	0.219	0.238
PHOS	08/04/03	0.501	0.583	0.495	0.316	0.458	0.497
PHOS	08/11/03	0.309	0.255	0.225	0.145	0.190	0.208
PHOS	08/18/03	0.19	0.180	0.110	0.100	0.130	0.140
PHOS	08/25/03	0.252	0.176	0.081	0.126	0.141	0.136

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
PHOS	09/02/03	0.661	0.506	0.518	0.541	0.553	0.644
PHOS	09/08/03	0.197	0.168	0.150	0.110	0.188	0.129
PHOS	09/15/03	0.082	0.072	0.085	0.009	0.041	0.183
PHOS	09/22/03	0.22	0.220	0.120	0.110	0.150	0.180
PHOS	09/29/03	0.337	0.515	0.331	0.279	0.420	0.491
PHOS	10/06/03	0.152	0.203	0.181	0.153	0.208	0.211
PHOS	10/13/03	0.201	0.184	0.132	0.107	0.125	0.169
PHOS	10/20/03						
PHOS	10/27/03	0.207	0.159	0.112	0.062	0.137	0.151
TDS	04/07/03	236	208	272	260	244	284
TDS	04/14/03	428	422	390	370	362	400
TDS	04/21/03	522	508	436	483	448	467
TDS	04/28/03	578	548	426	420	458	480
TDS	05/05/03	320	272	366	394	310	348
TDS	05/12/03	220	224	300	308	272	292
TDS	05/19/03	348	348	355	412	359	373
TDS	05/27/03	452	524	352	372	412	404
TDS	06/02/03	576	536	400	440	440	456
TDS	06/09/03	490	484	474	468	462	488
TDS	06/16/03	319	311	402	408	328	317
TDS	06/23/03	212	228	332	336	220	224
TDS	06/30/03	126	118	98	100	109	115
TDS	07/07/03	104	124	296	212	120	100
TDS	07/15/03	140	128	316	288	152	132
TDS	07/21/03	266	168	257	328	207	218
TDS	07/28/03	336	324	296	392	328	308
TDS	08/04/03	156	204	232	256	180	200
TDS	08/11/03	268	276	340	324	296	312
TDS	08/18/03	473	462	380	366	390	417
TDS	08/25/03	496	400	316	264	332	388
TDS	09/02/03	236	144	176	188	232	272
TDS	09/08/03	272	292	304	316	280	300
TDS	09/15/03	452	340	296	300	288	360
TDS	09/22/03	607	402	411	394	437	497
TDS	09/29/03	192	172	224	244	176	168
TDS	10/06/03	352	352	328	304	308	320
TDS	10/13/03	592	536	472	444	496	504
TDS	10/20/03						
TDS	10/27/03	572	492	436	432	476	468
TEMPF	04/07/03	41.1	41.34	39.73	40.11	40.87	41.04
TEMPF	04/14/03	51.2	50.92	50.22	51.05	50.81	51.19
TEMPF	04/21/03	59.1	60.01	58.49	59.16	59.68	59.67
TEMPF	04/28/03	57.3	56.49	56.52	57.02	56.63	56.28
TEMPF	05/05/03	54.1	54.77	56.52	57.56	55.74	55.07
TEMPF	05/12/03	59.3	59.76	57.34	57.86	59.24	59.4

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
TEMPF	05/19/03	61.3	59.83	59.47	59.84	59.72	61.7
TEMPF	05/27/03	61.0	61.16	60.26	61.7	61.52	62.42
TEMPF	06/02/03	61.5	62.78	62.60	62.78	62.78	63.14
TEMPF	06/09/03	63.7	64.4	64.04	65.12	63.68	65.48
TEMPF	06/16/03	68.6	67.61	69.59	68.95	67.92	68.25
TEMPF	06/23/03	68.2	69.14	70.16	73.33	69.70	69.35
TEMPF	06/30/03	70.8	71.35	71.54	73.58	73.17	72.24
TEMPF	07/07/03	72.9	71.98	75.85	75.27	72.3	72.71
TEMPF	07/15/03	73.9	74.24	72.74	74.3	74.43	74.77
TEMPF	07/21/03	70.4	69.73	70.64	72.58	71.03	71.47
TEMPF	07/28/03	72.0	71.73	71.34	73.3	72.17	72.04
TEMPF	08/04/03	70.9	70.83	69.25	70.63	70.73	70.86
TEMPF	08/11/03	71.5	71.85	72.06	72.5	72.43	72.79
TEMPF	08/18/03	74.3	76.4	75.4	77.29	77.68	77.19
TEMPF	08/25/03	73.0	75.86	73.24	77.35	76.14	75.37
TEMPF	09/02/03	65.8	65.58	63.48	64.04	64.76	65.21
TEMPF	09/08/03	67.0	67.1	66.49	66.36	66.93	67.38
TEMPF	09/15/03	68.1	69.69	68.28	69.37	69.96	69.57
TEMPF	09/22/03	63.3	65.79	63.88	66.24	66.96	66.23
TEMPF	09/29/03	57.7	58.1	56.26	56.96	57.86	58
TEMPF	10/06/03	50.8	52.18	50.38	51.01	51.32	51.80
TEMPF	10/13/03	57.5	60.31	57.39	58.76	60.05	58.85
TEMPF	10/20/03						
TEMPF	10/27/03	48.7	50.25	49.47	50.57	50.73	50.92
TSS	04/07/03	146	166	74	90	108	110
TSS	04/14/03	46	33	30	25	29	34
TSS	04/21/03	38	35	40	9	39	37
TSS	04/28/03	30	24	23	26	30	25
TSS	05/05/03	1220	536	372	124	374	308
TSS	05/12/03	340	392	144	176	356	260
TSS	05/19/03	114	118	57	39	82	82
TSS	05/27/03	43	39	39	28	35	43
TSS	06/02/03	41	35	35	27	40	34
TSS	06/09/03	44	22	18	14	30	34
TSS	06/16/03	202	188	45	22	176	196
TSS	06/23/03	88	92	59	35	64	110
TSS	06/30/03	38	41	29	26	29	35
TSS	07/07/03	134	232	116	54	246	222
TSS	07/15/03	32	33	58	42	36	40
TSS	07/21/03	344	340	246	236	292	216
TSS	07/28/03	80	36	196	72	37	49
TSS	08/04/03	98	136	89	87	139	126
TSS	08/11/03	47	25	35	31	32	40
TSS	08/18/03	45	37	35	28	39	47
TSS	08/25/03	31	26	14	13	17	11

Fort Wayne River Sampling Data

Parameter	Date	St. Marys River @ Ferguson	St. Marys River @ Spy Run	St. Joseph River @ Mayhew	St. Joseph River @ Tennessee	Maumee River @ Anthony	Maumee River @ Landin
TSS	09/02/03	232	100	103	200	216	210
TSS	09/08/03	38	33	26	20	27	40
TSS	09/15/03	27	33	44	38	32	46
TSS	09/22/03	40	30	28	25	31	44
TSS	09/29/03	94	102	65	63	100	73
TSS	10/06/03	18	21	31	22	29	26
TSS	10/13/03	7	14.4	19.2	18.4	20	32.8
TSS	10/20/03						
TSS	10/27/03	6.5	16	17.5	22.4	23.2	21

APPENDIX F

Water Pollution Control Plant

Effluent Sampling Data Results

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
01/01/02	2.68	0.70	0.266	0.272	2.1	7.8		
01/02/02	2.76	0.62	0.328	0.308	2.7	7.3		
01/03/02	3.28	0.72	0.359	0.313	3.2	7.2		
01/04/02	2.76	1.08	0.335	0.408	2.2	7.3		
01/05/02	7.02	2.11	0.339	0.479	4.8	7.4		
01/06/02	2.46	1.22	0.324	0.469	4.2	7.5		
01/07/02	2.57	0.59	0.222	0.412	3.4	7.4		
01/08/02	2.80	0.78	0.228	0.334	3.6	7.4		
01/09/02	2.80	1.01	0.222	0.278	3.6	7.5		
01/10/02	2.34	0.73	0.209	0.278	2.2	7.6		
01/11/02	2.88	1.07	0.289	0.308	5.4	7.4		
01/12/02	3.02	0.62	0.313	0.292	3.8	7.5		
01/13/02	2.54	0.61	0.397	0.268	3.2	7.3		
01/14/02	2.68	0.99	0.283	0.283	2.8	7.3		
01/15/02	2.62	1.59	0.341	0.268	6.0	7.4		
01/16/02	2.64	0.56	0.328	0.268	3.0	7.3		
01/17/02	3.28	0.68	0.312	0.272	2.2	7.3		
01/18/02	2.58	0.62	0.272	0.263	2.8	7.4		
01/19/02	3.12	0.58	0.204	0.249	2.6	7.4		
01/20/02	3.10	0.66	0.311	0.283	1.6	7.7		
01/21/02	2.72	0.66	0.323	0.282	3.2	7.4		
01/22/02	2.84	0.92	0.347	0.347	4.0	7.0		
01/23/02	3.48	0.96	0.316	0.308	1.4	7.2		
01/24/02	4.38	0.70	0.326	0.360	3.0	7.2		
01/25/02	5.16	1.40	0.374	0.306	6.0	7.0		
01/26/02	3.76	0.81	0.375	0.269	4.2	7.0		
01/27/02	3.46	0.94	0.384	0.226	4.2	7.2		
01/28/02	3.86	1.20	0.484	0.322	2.8	7.1		
01/29/02	4.48	0.87	0.670	0.244	1.0	7.1		
01/30/02	5.36	2.00	1.070	0.358	4.8	7.0		
01/31/02	4.88	1.66	1.360	0.306	4.6	7.2		
02/01/02	5.30	1.42	0.623	0.134	3.8	7.1		
02/02/02	3.92	1.69	0.739	0.182	1.4	7.3		
02/03/02	3.90	2.25	0.465	0.128	4.4	7.5		
02/04/02	2.52	0.51	0.592	0.136	3.4	7.2		
02/05/02	3.20	1.06	0.640	0.124	3.6	7.2		
02/06/02	3.12	1.34	0.599	0.135	4.0	7.3		
02/07/02	4.38	1.22	0.735	0.128	2.0	7.2		
02/08/02	6.10	2.09	0.896	0.248	4.2	7.2		
02/09/02	3.98	1.31	1.120	0.271	5.4	7.0		
02/10/02	4.50	1.07	1.110	0.268	4.2	7.4		
02/11/02	6.72	1.56	1.430	0.226	2.8	7.3		
02/12/02	6.62	1.71	1.300	0.213	5.0	7.3		
02/13/02	4.84	1.60	0.875	0.236	1.8	7.2		
02/14/02	5.22	1.27	0.629	0.242	1.4	7.2		
02/15/02	4.08	1.48	0.469	0.262	2.0	7.3		
02/16/02	2.94	0.87	0.386	0.233	2.2	7.5		
02/17/02	4.02	0.81	0.372	0.221	2.0	7.5		
02/18/02			0.336	0.221	3.4	7.4		

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
02/19/02	3.02	0.83	0.427	0.196	3.0	7.2		
02/20/02	3.84	1.11	0.464	0.262	2.4	7.1		
02/21/02	6.21	1.03	0.566	0.240	3.2	7.2		
02/22/02	2.57	1.30	0.315	0.224	3.2	7.2		
02/23/02	3.00	0.97	0.236	0.225	3.0	7.1		
02/24/02	3.36	0.80	0.192	0.210	4.4	7.1		
02/25/02	3.58	1.21	0.226	0.277	3.8	7.2		
02/26/02	3.90	1.05	0.267	0.266	4.1	7.2		
02/27/02	4.54	1.32	0.472	0.242	3.6	7.3		
02/28/02	5.52	1.16	0.483	0.291	3.6	7.3		
03/01/02	4.38	1.76	0.441	0.214		7.2		
03/02/02	3.76	0.89	0.252	0.206		7.2		
03/03/02	3.98	0.88	0.411	0.216		7.8		
03/04/02	4.12	0.79	0.181	0.192	2.4	7.3		
03/05/02	3.62	0.96	0.108	0.154	2.4	7.3		
03/06/02	1.62	1.11	0.109	0.171	3.4	7.3		
03/07/02	4.20	0.72	0.128	0.559	3.4	7.3		
03/08/02	5.56	1.02	0.249	0.197	5.4	7.3		
03/09/02	4.52	0.79	0.295	0.238	6.2	7.2		
03/10/02	4.02	0.68	0.385	0.198	8.0	7.7		
03/11/02	4.38	0.79	0.200	0.122	2.0	7.2		
03/12/02	3.16	1.14	0.164	0.118	2.8	7.3		
03/13/02	4.54	1.04	0.157	0.194	1.0	7.2		
03/14/02	5.04	1.10	0.180	0.198	4.6	7.3		
03/15/02	4.12	0.99	0.216	0.268	4.6	7.3		
03/16/02	3.86	1.34	0.238	0.218	5.6	7.3		
03/17/02	3.64	1.16	0.171	0.221	3.8	7.7		
03/18/02	3.70	0.48	0.269	0.204	4.2	7.3		
03/19/02	3.46	0.56	0.220	0.184	2.2	7.4		
03/20/02	4.44	1.38	0.208	0.192	2.4	7.4		
03/21/02	4.64	1.41	0.310	0.174	5.8	7.4		
03/22/02	4.28	1.60	0.229	0.116	5.0	7.4		
03/23/02	3.62	1.33	0.301	0.103	2.6	7.4		
03/24/02	3.04	1.28	0.236	0.096	2.2	7.7		
03/25/02	4.42	3.80	0.244	0.156	2.0	7.5		207
03/26/02	4.14	1.06	0.169	0.129	4.6	7.4		250
03/27/02	4.24	1.24	0.309	0.198	1.2	7.3		32
03/28/02	6.02	1.44	0.235	0.210	2.0	7.2		15
03/29/02	3.76	1.96	0.136	0.294	2.2	7.1		12
03/30/02	2.87	1.08	0.137	0.248	1.0	7.3		9
03/31/02	2.25	1.00	0.105	0.203	2.4	7.4		1
04/01/02	2.76	1.13	0.099	0.156	3.1	7.2	4	1
04/02/02	2.22	1.03	0.134	0.101	2.2	7.4	1	1
04/03/02	3.92	1.63	0.108	0.198	3.4	7.2	24	16
04/04/02	3.50	1.02	0.109	0.184	3.0	7.2	26	21
04/05/02	3.64	1.39	0.114	0.205	4.4	7.1	25	4
04/06/02	3.96	1.12	0.119	0.144	4.4	7.2	10	5
04/07/02	3.48	2.64	0.131	0.144	3.6	7.3		14
04/08/02	4.70	0.92	0.137	0.184	2.2	7.2	28	10
04/09/02	4.28	0.98	0.215	0.135	0.5	7.3	24	10
04/10/02	3.88	1.29	0.111	0.171	2.5	7.1	16	3

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
04/11/02	4.02	0.94	0.153	0.166	2.7	7.2	21	18
04/12/02	2.96	1.52	0.148	0.212	2.0	7.2	27	8
04/13/02	3.06	1.09	0.119	0.168	4.8	7.2	42	35
04/14/02	2.80	1.19	0.107	0.114	2.1	7.4		11
04/15/02	2.28	0.71	0.086	0.160	2.2	7.2	34	11
04/16/02	2.52	1.14	0.096	0.128	2.2	7.4	73	25
04/17/02	2.88	1.47	0.094	0.138	3.0	7.5	51	34
04/18/02	3.06	1.87	0.109	0.170	4.6	7.1	41	33
04/19/02	3.24	1.53	0.150	0.176	5.6	7.2	37	40
04/20/02	2.80	1.02	0.141	0.176	4.6	7.2	56	20
04/21/02	2.82	0.88	0.134	0.226	3.6	7.4		20
04/22/02	3.14	1.03	0.122	0.260	2.0	7.0	9	4
04/23/02	2.50	0.86	0.096	0.228	1.6	7.3	15	6
04/24/02	3.22	1.44	0.153	0.246	2.8	7.5	29	16
04/25/02	3.62	1.40	0.149	0.274	6.4	7.4	55	22
04/26/02	3.52	1.54	0.209	0.330	3.2	7.2	24	28
04/27/02	3.08	1.10	0.178	0.266	5.8	7.1	Too numerous	103
04/28/02	2.78	1.04	0.161	0.260	4.0	7.0		14
04/29/02	2.92	0.90	0.123	0.338	3.6	7.5	32	27
04/30/02	2.98	1.04	0.136	0.272	3.4	7.2	15	10
05/01/02	2.84	1.19	0.139	0.298	2.6	7.2	9	5
05/02/02	5.72	1.43	0.171	0.226	3.0	7.2	10	8
05/03/02	3.56	1.40	0.158	0.205	4.8	7.2	13	12
05/04/02	3.70	1.55	0.148	0.186	1.8	7.5	11	11
05/05/02	3.74	1.50	0.191	0.172	3.6	7.6		18
05/06/02	2.48	0.96	0.148	0.172	1.8	7.2	214	205
05/07/02	2.62	1.73	0.145	0.165	1.6	7.3	15	13
05/08/02	3.28	1.54	0.172	0.251	4.6	7.6	41	38
05/09/02	3.56	1.43	0.145	0.294	2.6	7.2	29	7
05/10/02	2.24	2.24	0.132	0.340	4.4	7.6	45	16
05/11/02	2.34	0.79	0.140	0.302	4.8	7.6	26	26
05/12/02	2.14	0.81	0.092	0.284	3.0	7.6		24
05/13/02	2.20	0.52	0.107	0.273	0.8	8.0	22	21
05/14/02	2.26	0.73	0.151	0.248	1.0	7.6	21	11
05/15/02	2.20	1.42	0.147	0.274	4.0	7.3	22	5
05/16/02	2.92	1.12	0.140	0.278	2.8	7.3	10	9
05/17/02	3.18	1.50	0.197	0.312	2.6	7.4	23	6
05/18/02	3.34	1.09	0.148	0.239	2.0	7.0	39	14
05/19/02	3.42	1.03	0.127	0.184	3.6	7.6		11
05/20/02	1.80	0.96	0.108	0.226	1.8	7.4	12	14
05/21/02	1.32	1.15	0.087	0.174	2.4	7.4	22	5
05/22/02	3.34	1.93	0.106	0.116	2.4	7.2	29	22
05/23/02	6.14	3.47	0.086	0.314	9.2	7.3	20	23
05/24/02	4.14	2.07	0.154	0.322	5.6	7.4	29	29
05/25/02	3.00	1.60	0.142	0.322	5.0	7.5	17	32
05/26/02	2.24	1.37	0.133	0.247	3.0	7.4		26
05/27/02	1.74	0.75	0.114	0.200	2.4	7.4	19	17
05/28/02	2.68	1.95	0.041	0.400	5.6	7.4	24	17
05/29/02	1.68	2.61	0.052	0.366	4.6	7.1	59	15
05/30/02	4.08	2.07	0.068	0.390	2.4	7.2	27	28
05/31/02	2.24	1.60	0.122	0.382	1.4	7.3	38	32
06/01/02	2.30	1.32	0.132	0.392	3.2	7.5	33	42

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
06/02/02	2.20	1.42	0.153	0.367	4.4	7.5		38
06/03/02	4.10	1.30	0.150	0.314	1.6	7.5	43	64
06/04/02	3.30	1.20	0.149	0.256	1.6	7.4	21	32
06/05/02	2.20	1.57	0.149	0.224	2.0	7.1	10	17
06/06/02	2.26	1.22	0.211	0.246	1.4	7.2	16	15
06/07/02	2.96	2.42.	0.203	0.296	2.0	7.3	19	20
06/08/02	2.56	1.42	0.174	0.256	3.5	7.4	12	32
06/09/02	2.78	1.65	0.378	0.278	2.4	7.5		52
06/10/02	2.70	1.43	0.052	0.313	3.4	7.5	56	40
06/11/02	2.46	1.47	0.147	0.349	4.2	7.4	32	43
06/11/02	3.74	2.21	0.199	0.287	0.6	7.5	30	43
06/12/02	4.10	2.04	0.279	0.264	1.6	7.5	24	43
06/14/02	3.60	1.28	0.306	0.386	4.2	7.4	88	21
06/15/02	1.98	1.22	0.361	0.394	3.4	7.4	3	68
06/16/02	2.98	1.38	0.312	0.314	0.8	7.6		26
06/17/02	2.32	1.40	0.325	0.290	5.2	7.6	21	21
06/18/02	2.50	1.41	0.240	0.282	3.4	7.5	72	61
06/19/02	4.10	2.04	0.160	0.324	3.6	7.3		31
06/20/02	3.98	1.61	0.271	0.318	2.0	7.4	31	42
06/21/02	4.76	2.23	0.337	0.321	3.0	7.3	25	38
06/22/02	4.68	1.54	0.348	0.323	4.0	7.3	34	57
06/23/02	5.22	1.81	0.296	0.296	4.2	7.2		50
06/24/02	4.88	2.67	0.312	0.379	5.4	7.3	26	43
06/25/02	4.06	1.99	0.283	0.408	8.8	7.2	6	59
06/26/02	3.78	2.57	0.214	0.465	7.8	7.2	51	88
06/27/02	4.06	2.14	0.229	0.390	11.2	7.3	300	539
06/28/02	3.30	1.70	0.285	0.339	8.4	7.2	36	68
06/29/02	1.98	0.71	0.201	0.276	4.4	7.0	100	136
06/30/02	1.84	1.10	0.247	0.251	6.2	7.1		106
07/01/02			0.153	0.246	4.6	7.1	80	84
07/02/02	2.44	0.92	0.113	0.226	7.4	7.2	90	138
07/03/02	3.92	2.83	0.111	0.223	8.2	7.2	62	65
07/04/02	4.76	3.60	0.102	0.210	6.8	7.3	56	51
07/05/02	5.20	3.74	0.059	0.260	12.8	7.6	52	44
07/06/02	4.98	3.06	0.124	0.318	15.6	7.4	76	59
07/07/02	4.50	2.43	0.144	0.334	10.8	7.3		33
07/08/02	5.28	3.07	0.043	0.334	7.2	7.3	8	15
07/09/02	4.76	2.50	0.058	0.309	6.8	7.4	11	28
07/10/02	5.02	2.64	0.042	0.293	13.2	7.4	30	41
07/11/02	2.88	1.82	0.201	0.326	11.2	7.4	28	34
07/12/02	3.04	1.11	0.189	0.328	10.8	7.5	11	35
07/13/02	2.92	0.70	0.231	0.320	8.4	7.4	5	48
07/14/02	2.00	1.13	0.322	0.426	9.8	7.3		51
07/15/02	1.96	0.54	0.179	0.254	8.6	7.0	18	12
07/16/02	2.30	0.97	0.509	0.265	7.2	7.4	18	19
07/17/02	2.22	1.56	0.194	0.275	9.8	7.0	6	23
07/18/02	3.12	2.14	0.156	0.252	8.0	7.2	36	26
07/19/02	4.38	3.13	0.509	0.316	11.1	7.1	32	36
07/20/02	5.26	3.09	0.364	0.256	13.6	7.5	39	25
07/21/02	5.66	3.25	0.101	0.183	10.8	7.2		52
07/22/02	3.18	1.92	0.120	0.249	9.6	7.3	14	23
07/23/02	4.04	3.00	0.054	0.214	8.8	7.4	31	37

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
07/24/02	3.82	2.46	0.046	0.255	6.4	7.3	142	100
07/25/02			< 0.002	0.272	13.5	7.2	53	36
07/26/02	3.30	1.74	0.125	0.192	7.6	7.3	62	57
07/27/02	2.40	1.60	0.042	0.178	4.6	7.3	35	30
07/28/02	2.20	1.53	0.014	0.207	9.2	7.4		27
07/29/02	2.22	1.59	0.026	0.172	12.1	7.3	3	21
07/30/02	2.62	2.03	0.064	0.164	5.9	7.4	49	23
07/31/02	3.50	2.72	0.016	0.186	7.9	7.2	44	28
08/01/02	3.54	2.42	0.111	0.168	7.9	7.2	95	41
08/02/02	4.88	2.50	0.025	0.236	15.3	7.3	<1	109
08/03/02	6.64	3.97	0.039	0.227	16.9	7.4	62	47
08/04/02	5.60	3.14	0.030	0.260	12.1	7.5		27
08/05/02	7.22	4.04	0.038	0.230	15.3	7.8	19	25
08/06/02	8.30	3.83	<0.002	0.290	24.4	7.3	62	49
08/07/02	8.04	4.74	0.029	0.225	21.7	7.5	45	52
08/08/02	5.18	3.33	0.081	0.214	12.1	7.2	27	12
08/09/02	2.15	1.87	0.139	0.280	8.8	7.2	18	18
08/10/02	3.34	1.24	0.183	0.281	6.3	7.4	40	21
08/11/02	3.66	1.52	0.166	0.272	8.7	7.2		34
08/12/02	2.58	1.70	0.104	0.293	8.8	7.0	15	7
08/13/02	2.08	1.42	0.108	0.238	8.1	7.1	14	24
08/14/02	2.16	1.52	0.124	0.222	7.3	7.0	33	17
08/15/02	2.08	1.51	0.188	0.202	5.1	7.2	104	77
08/16/02	1.66	1.32	0.184	0.328	8.0	7.3	59	34
08/17/02	1.61	1.17	0.192	0.305	7.6	7.3	60	18
08/18/02	1.97	1.62	0.146	0.281	9.7	7.0		6
08/19/02	2.02	1.08	0.207	0.280	8.2	7.5	7	2
08/20/02	2.26	1.28	0.196	0.238	7.6	7.2	29	12
08/21/02	2.00	1.03	0.199	0.233	8.2	7.3	18	6
08/22/02	2.22	1.22	0.146	0.200	5.1	7.3	25	10
08/23/02	3.18	1.02	0.225	0.235	6.3	7.3	68	35
08/24/02	2.98	1.15	0.183	0.168	7.7	7.0	36	20
08/25/02	3.54	1.32	0.155	0.257	8.2	7.0		17
08/26/02	3.58	0.71	0.117	0.327	4.3	7.0	45	13
08/27/02	4.42	1.38	0.163	0.334	9.7	7.4	62	15
08/28/02	4.37	1.83	0.163	0.306	10.3	7.5	15	12
08/29/02	3.42	1.70	0.174	0.188	8.5	7.4	12	11
08/30/02	2.13	1.78	0.175	0.292	6.7	7.4	39	23
08/31/02								
09/01/02	3.80	2.51	0.022	0.207	8.4	7.4		41
09/02/02	4.55	2.25	0.006	0.164	10.6	7.7	3	53
09/03/02	5.52	3.50	0.069	0.131	14.9	7.6	9	46
09/04/02	5.47	3.77	0.010	0.325	10.3	7.9	23	17
09/05/02	4.09	2.83	0.216	0.366	11.7	7.6	26	32
09/06/02	1.64	1.68	0.319	0.239	9.6	7.4	46	44
09/07/02	2.05	1.26	0.348	0.312	5.9	7.6	48	29
09/08/02	2.00	1.54	0.283	0.439	8.0	7.5		51
09/09/02	3.94	1.00	0.255	0.592	4.8	7.5	104	47
09/10/02								
09/11/02	7.25	5.14	<0.002	0.382	14.7	7.5	13	54
09/12/02	6.93	4.76	0.043	0.321	16.5	7.6	2	74
09/13/02	5.40	4.20	0.042	0.279	12.1	8.0	57	71

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
09/14/02	3.22	2.45	0.119	0.265	9.9	7.7	62	67
09/15/02	3.37	2.22	0.239	0.256	8.8	7.6		54
09/16/02	3.32	2.21	0.357	0.282	8.5	7.6	80	26
09/17/02	3.30	2.12	0.313	0.291	11.5	7.5	72	10
09/18/02	3.35	1.87	0.359	0.241	7.7	7.5	85	31
09/19/02	3.60	1.55	0.259	0.177	11.7	7.5	104	44
09/20/02	4.40	1.66	0.257	0.210	8.8	7.5	120	30
09/21/02	3.50	1.20	0.208	0.261	5.2	7.5	240	106
09/22/02	2.90	1.00	0.212	0.242	4.9	7.5		72
09/23/02	2.34	1.26	0.261	0.274	10.8	7.4	3	58
09/24/02	3.68	1.76	0.209	0.308	5.6	7.5	200	70
09/25/02	3.46	1.43	0.242	0.633	7.5	7.5	116	70
09/26/02	3.34	1.57	0.222	0.380	7.3	7.5	160	75
09/27/02	2.70	1.08	0.325	0.572	7.3	7.4	221	175
09/27/02	3.10	0.97	0.272	0.889	10.7	7.4	220	193
09/29/02	2.70	1.20	0.258	0.850	12.1	7.3		164
09/30/02	2.76	0.67	0.276	0.579	10.0	7.3	176	105
10/01/02	2.80	0.93	0.172	0.486	13.5	7.4	128	68
10/02/02	3.00	1.21	0.220	0.323	9.7	7.4	64	66
10/03/02	3.13	1.36	0.256	0.275	7.7	7.5	134	56
10/04/02	2.34	1.82	0.257	0.413	7.6	7.4	30	35
10/05/02	2.53	0.96	0.247	0.448	5.2	7.5	66	39
10/06/02	2.92	0.94	0.269	0.475	4.0	7.4		7
10/07/02	3.00	1.03	0.319	0.598	9.4	7.5	24	19
10/08/02	3.38	1.94	0.266	2.280	8.4	7.5	32	3
10/09/02	3.95	1.45	0.342	3.830	6.8	7.5	24	1
10/10/02	2.68	1.32	0.340	4.090	7.2	7.4	26	< 1
10/11/02	2.52	1.48	0.345	2.442	6.8	7.3	43	7
10/12/02	2.84	1.00	0.353	0.830	5.6	7.2	38	15
10/13/02	3.06	1.56	0.481	0.374	8.6	7.2		30
10/14/02	2.20	0.86	0.310	0.219	8.2	7.2	49	2
10/15/02	2.58	1.34	0.277	0.385	4.6	7.3	30	4
10/16/02	1.90	1.48	0.265	0.154	5.8	7.3	29	2
10/17/02	1.82	1.03	0.241	0.081	6.4	7.4	6	9
10/18/02	1.50	0.83	0.175	0.155	4.2	7.4	85	19
10/19/02	1.12	0.36	0.188	0.170.	4.4	7.1	80	19
10/20/02	1.34	0.75	0.186	0.130	6.4	7.1		11
10/21/02	1.46	0.41	0.196	0.154	5.4	7.3	56	8
10/22/02	1.12	0.78	0.257	0.137	5.2	7.4	13	9
10/23/02	1.88	1.33	0.336	0.153	5.4	7.5	20	3
10/24/02	2.40	0.73	0.423	0.139	5.4	7.4	4	12
10/25/02	1.70	1.02	0.437	0.205	4.2	7.6	40	4
10/26/02	2.15	1.27	0.285	0.205	4.0	7.2	49	3
10/27/02	2.10	1.70	0.228	0.194	4.2	7.2		5
10/28/02	2.00	1.58	0.200	0.137	4.8	7.8	5	4
10/29/02	2.20	1.28	0.243	0.145	5.8	7.4	10	4
10/30/02	2.45	1.64	0.244	0.108	4.6	7.5	31	5
10/31/02	1.70	0.88	0.265	0.102	3.8	7.4	24	<1
11/01/02	2.20	1.81	0.260	< 0.060	4.6	7.3		
11/02/02	1.38	0.28	0.241	< 0.060	2.2	7.3		
11/03/02	1.17	0.56	0.246	0.054	2.4	8.7		
11/04/02	1.58	0.64	0.357	0.180	4.4	7.4		

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
11/05/02	1.93	0.82	0.660	0.160	1.4	7.3		
11/06/02	2.57	1.81	0.399	0.101	0.8	7.2		
11/07/02	1.53	0.76	0.278	0.111	2.2	7.4		
11/08/02	3.76	2.07	0.205	0.161	3.8	7.2		
11/09/02	1.55	0.92	0.228	0.172	5.0	7.2		
11/11/02	1.87	1.10	0.179	0.131	5.4	7.3		
11/12/02	1.67	1.04	0.260	0.165	3.8	7.8		
11/12/02	1.73	1.15	0.131		5.2	7.2		
11/13/02	2.52	1.84	0.138	0.122	3.6	7.3		
11/14/02	3.08	2.09	0.206	0.130	4.8	7.4		
11/15/02	2.25	0.97	0.352	0.162	3.4	7.5		
11/16/02	1.48	0.52	0.504	0.079	4.4	7.5		
11/17/02	1.72	1.19	0.421	0.152	4.4	7.5		
11/18/02	2.70	1.39	0.640	0.382	2.2	7.5		
11/19/02	1.97	0.94	0.913	0.368	6.0	7.4		
11/20/02	2.72	1.50	0.691		3.2	7.3		
11/21/02	5.88	2.10	0.290	0.195	4.2	7.4		
11/22/02	2.00	1.34	0.241	0.198	5.0	7.4		
11/23/02	1.88	1.08	0.057	0.406	2.8	7.1		
11/24/02	2.85	0.89	0.209	0.201	3.2	7.3		
11/25/02	2.50	1.36	0.149	0.223	3.0	7.4		
11/26/02	2.47	1.43	0.211	0.216	3.6	7.4		
11/27/02	2.68	1.19	0.205	0.395	3.0	7.4		
11/28/02	1.88	1.22	0.415	0.339	5.0	7.3		
11/29/02	2.80	1.20	0.213	0.263	5.4	7.5		
11/30/02	1.98	1.01	0.238	0.181	3.6	7.7		
12/01/02	2.10	1.49	0.334	0.188	3.0	7.4		
12/02/02	2.26	0.90	0.240	0.288	1.0	7.5		
12/03/02	2.10	1.10	0.193	0.254	3.8	7.6		
12/04/02	1.98	1.22	0.158	0.380	2.4	7.4		
12/05/02	2.82	1.28	0.117	0.409	2.4	7.5		
12/06/02	2.96	1.18	0.020	0.316	4.6	7.6		
12/07/02	2.18	0.94	0.191	0.321	2.2	7.6		
12/08/02	2.58	1.25	0.184	0.311	3.4	8.1		
12/09/02	2.82	1.49	0.317	0.346	2.8	7.6		
12/10/02	2.75	1.56	0.326	0.297	3.8	7.4		
12/11/02	3.53	1.22	0.489	0.328	2.2	7.4		
12/12/02	2.72	1.22	0.614	0.330	5.2	7.3		
12/13/02	3.82	1.27	0.497	0.475	2.8	7.3		
12/14/02	1.68	0.98	0.282	0.571	5.0	7.4		
12/15/02	2.60	1.26	0.278	0.466	5.6	7.7		
12/16/02	2.83	0.97	0.226	0.293	4.8	7.6		
12/17/02	2.98	1.26	0.248	0.249	2.8	7.6		
12/18/02	2.82	1.38	0.235	0.196	2.8	7.5		
12/19/02	3.47	1.60	0.475	0.314	2.2	7.4		
12/20/02	4.72	1.69	0.563	0.184	4.6	7.3		
12/21/02	4.25	0.95	0.331	0.165	3.4	7.5		
12/22/02	4.25	0.76	0.408	0.188	2.2	7.9		
12/23/02	4.23	1.45	0.315	0.248	0.6	7.6		
12/24/02	2.02	0.57	0.250	0.214	2.0	7.6		
12/25/02	2.16	0.95	0.244	0.216	2.0	8.5		
12/26/02	3.52	1.08	0.359	0.219	2.0	7.6		

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
12/27/02	2.95	1.00	0.321	0.239	3.6	7.5		
12/28/02	2.35	0.93	0.291	0.273	5.8	7.4		
12/29/02	2.37	0.91	0.052	0.260	2.6	7.4		
12/30/02	3.73	1.22	0.487	0.202	3.8	7.4		
12/31/02	3.33	1.44	0.260	0.166	4.6	7.5		
01/01/03	3.88	1.54	0.269	0.133	2.2	7.8		
01/02/03	4.95	1.13	0.705	0.138	2.4	7.5		
01/03/03	3.95	1.46	1.190	0.170	3.2	7.4		
01/04/03	7.47	0.85	1.250	0.196	2.0	7.2		
01/05/03	6.00	0.83	0.957	0.185	1.9	7.4		
01/06/03	7.68	1.19	0.959	0.545	4.0	7.4		
01/07/03	3.38	1.50	0.766	0.496	3.2	7.4		
01/08/03	5.50	1.97	0.917	0.162	5.0	7.5		
01/09/03	5.33	1.27	1.070	0.170	2.2	7.5		
01/10/03	4.92	1.06	0.516	0.220	4.6	7.4		
01/11/03	3.22	1.24	0.230	0.172	2.2	7.4		
01/12/03	2.48	1.37	0.203	0.139	2.2	7.7		
01/13/03	3.57		0.260	0.036	2.0	7.5		
01/14/03	3.57		0.218	0.045	2.4	7.7		
01/15/03	3.53	0.93	0.228	0.155	2.2	7.6		
01/16/03	2.95	0.80	0.263	0.174	1.8	7.6		
01/17/03	2.87	0.80	0.196	0.159	2.6	7.6		
01/18/03	3.93	0.75	0.497	0.184	2.2	7.3		
01/19/03	4.53	0.99	0.444	0.215	2.0	7.6		
01/20/03	3.65	0.51	0.347	0.156	2.6	7.5		
01/21/03	3.70	0.70	0.328	0.194	2.2	7.5		
01/22/03	3.67	1.47	0.347	0.221	1.8	7.4		
01/23/03			0.313	0.227	2.0	7.5		
01/24/03	3.02	0.98	0.641	0.222	2.6	7.5		
01/25/03	3.82	0.30	0.803	0.211	2.2	7.5		
01/26/03	3.87	0.57	0.706	0.196	1.8	7.1		
01/27/03	3.57	0.48	0.450	0.261	4.8	7.5		
01/28/03	2.90	0.38	0.296	0.285	3.0	7.4		
01/29/03	3.73	0.76	0.285	0.335	3.6	7.5		
01/30/03	1.57	0.62	0.263	0.364	4.2	7.4		
01/31/03	3.52	0.97	0.281	0.416	4.4	7.4		
02/01/03	1.78	0.80	0.299	0.402	5.8	7.3		
02/02/03	2.07	1.13	0.358	0.389	4.6	7.3		
02/03/03	2.98	0.62	0.852	0.330	3.4	7.4		
02/04/03	3.52	0.81	0.488	0.219	4.0	7.5		
02/05/03	3.32	0.72	0.335	0.194	2.2	7.6		
02/06/03	2.45	0.54	0.283	0.136	1.8	7.5		
02/07/03	2.72	0.87	0.587	0.162	4.2	7.4		
02/08/03	2.77	0.72	0.529	0.192	2.0	7.4		
02/09/03	2.42	0.80	0.583	0.180	2.2	7.9		
02/10/03	1.95	0.76	0.368	0.221	3.0	7.5		
02/11/03	1.57	0.70	0.510	0.213	3.8	7.4		
02/12/03	2.85	1.28	0.438	0.256	2.8	7.5		
02/13/03	2.58	1.11	0.376	0.248	2.2	7.6		
02/14/03	2.80	1.33	0.231	0.277	2.8	7.5		
02/15/03	2.08	0.77	0.234	0.278	5.6	7.4		
02/16/03	2.38	0.91	0.293	0.283	2.4	7.5		

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
02/17/03	2.63	0.54	0.277	0.236	3.0	7.5		
02/18/03	2.95	0.83	0.011	0.215	2.0	7.5		
02/19/03	3.37	0.79	0.292	0.232	1.8	7.5		
02/20/03	3.07	1.23	0.251	0.219	2.8	7.6		
02/21/03	3.25	0.97	0.298	0.358	2.2	7.4		
02/22/03	2.52	0.87	0.315	0.360	6.2	7.3		
02/23/03	3.90	0.97	0.309	0.218	3.2	7.1		
02/24/03	4.05	1.10	0.414	0.282	3.4	7.4		
02/25/03	3.95	1.14	0.561	0.154	2.2	7.4		
02/26/03	4.02	1.27	0.535	0.260	1.8	7.4		
02/27/03	4.37	1.58	0.339	0.237	2.6	7.3		
02/28/03	4.32	1.60	0.306	0.200	2.8	7.3		
03/01/03	3.88	1.55	0.518	0.329	3.6	7.2		
03/02/03	4.60	1.53	0.646	0.354	5.8	7.9		
03/03/03	3.50	0.98	0.961	0.333	3.6	7.2		
03/04/03	2.82	1.10	0.671	0.326	2.0	7.4		
03/05/03	3.15	0.82	0.388	0.319	3.0	7.4		
03/06/03	3.82	1.14	0.493	0.200	4.8	7.4		
03/07/03	3.50	1.18	0.394	0.203	2.0	7.3		
03/08/03	3.78	0.90	0.641	0.216	3.0	7.3		
03/09/03	4.89	1.19	0.600	0.199	6.0	7.6		
03/10/03	4.40	1.20	0.541	0.178	3.0	7.5		
03/11/03	4.48	1.51	0.627	0.177	2.4	7.4		
03/12/03	4.67	1.51	0.731	0.235	1.8	7.4		
03/13/03	5.85	1.52	1.160	0.247	3.8	7.2		
03/14/03	5.80	1.53	0.791	0.229	3.0	7.2		
03/15/03	4.08	0.72	0.466	0.176	5.2	7.3		
03/16/03	4.37	0.83	0.592	0.179	3.8	7.4		
03/17/03	4.85	0.46	0.599	0.239	3.0	7.2		
03/18/03	4.98	0.70	0.463	0.245	4.4	7.2		
03/19/03	4.88	1.06	0.447	0.241	5.0	7.3		
03/20/03	5.22	1.09	0.347	0.219	5.0	7.3		
03/21/03	3.87	0.96	0.573	0.256	3.8	7.3		
03/22/03	3.60	0.66	0.402	0.247	7.2	7.4		
03/23/03	4.03	0.77	0.224	0.228	3.0	7.5		
03/24/03	4.38	0.76	0.396	0.230	3.8	7.3		
03/25/03	5.28	1.23	0.618	0.262	3.8	7.3		
03/26/03	5.15	1.48	0.518	0.229	4.8	7.3		
03/27/03	5.52	1.38	0.464	0.235	4.8	7.2		24
03/28/03	4.03	1.56	0.312	0.350	3.0	7.3		5
03/29/03	3.83	1.21	0.282	0.365	4.0	7.4		3
03/30/03	3.78	1.44	0.258	0.267	2.2	7.3		1
03/31/03	3.07	0.96	0.225	0.206	3.4	7.3	2	<1
04/01/03	3.52	1.42	0.136	0.230	2.0	7.4	18	1
04/02/03	4.80	1.43	0.173	0.230	6.6	7.5	21	<1
04/03/03	5.28	1.51	0.234	0.261	6.4	7.4	10	< 1
04/04/03	4.35	1.94	0.302	0.311	3.4	7.4	10	1
04/05/03	3.91	0.99	0.212	0.345	2.2	7.2		<1
04/06/03	4.28	1.63	0.160	0.295	2.6	7.4	4	<1
04/07/03	3.15	0.94	0.200	0.286	2.0	7.4	15	1
04/08/03	3.73	1.29	0.152	0.312	2.2	7.4	5	1
04/09/03	3.67	1.40	0.214	0.317	3.2	7.4	11	2

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
04/10/03	4.30	1.23	0.280	0.338	4.8	7.5	4	2
04/11/03	4.10	1.15	0.186	0.196	4.6	7.5	22	4
04/12/03	2.68	0.83	0.217	0.217	6.2	7.4		1
04/13/03	2.72	1.28	0.305	0.268	3.4	7.3	5	1
04/14/03	3.72	1.15	0.471	0.299	5.4	7.3	9	<1
04/15/03	3.87	1.40	0.259	0.303	7.8	7.3	9	3
04/16/03	4.93	1.69	0.203	0.363	6.4	7.5	18	5
04/17/03	5.53	2.16	0.224	0.454	8.8	7.4	8	10
04/18/03	3.00	1.60	0.288	0.516	6.0	7.5	7	5
04/19/03	3.33	1.37	0.333	0.523	4.0	7.3		5
04/20/03	3.53	1.73	0.293	0.463	5.0	7.4	4	4
04/21/03	4.48	1.62	0.388	0.525	7.4	7.5	23	18
04/22/03	4.30	1.97	0.363	0.500	8.8	7.5	12	11
04/23/03	4.00	1.41	0.325	0.104	5.0	7.5	10	6
04/24/03	5.13	2.40	0.396	0.658	5.8	7.4	34	13
04/25/03	4.75	1.61	0.399	0.194	6.0	7.4	57	18
04/26/03	3.73	1.60	0.330	0.374	4.8	7.4		34
04/27/03	3.90	1.96	0.387	0.351	3.2	7.3	14	8
04/28/03	4.25	1.57	0.299	0.428	5.6	7.4	10	21
04/29/03	4.42	1.54	0.375	0.443	5.8	7.5	32	12
04/30/03	4.33	1.71	0.398	0.277	6.2	7.6	48	54
05/01/03	4.43	1.44	0.337	0.242	6.8	7.4		34
05/02/03	7.15	1.73	0.290	0.158	8.2	7.4	800	370
05/03/03	6.00	1.42	0.256	0.083	5.2	7.1		456
05/04/03	5.47	1.62	0.338	0.066	4.0	7.4	64	40
05/05/03	4.28	1.55	0.451	0.319	5.0	7.4	20	38
05/06/03	4.72	1.83	0.781	0.368	6.4	7.2	57	18
05/07/03	5.20	1.61	0.289	0.035	3.6	7.3	80	30
05/08/03	3.08	1.16	0.309	0.034	6.0	7.3	68	24
05/09/03	3.17	1.27	0.229	0.363	6.6	7.3	252	37
05/10/03	3.35	3.45	0.302	0.358	15.4	7.3		237
05/11/03	3.40	0.97	0.212	0.275	5.8	7.3	114	71
05/12/03	4.85	1.58	0.257	0.265	7.4	7.6	40	54
05/13/03	3.02	1.01	0.290	0.282	9.0	7.5	58	30
05/14/03	3.27	1.08	0.319	0.315	5.0	7.4	2	27
05/15/03	5.27	1.46	0.742	0.350	12.0	7.5	30	12
05/16/03	3.92	1.20	0.263	0.294	7.2	7.4	11	10
05/17/03	3.38	0.59	0.199	0.476	3.4	7.4		9
05/18/03	3.52	0.96	0.242	0.521	4.8	7.6	32	25
05/19/03	4.63	0.92	0.315	0.336	5.6	7.6	21	44
05/20/03	3.30	1.03	0.236	0.312	3.4	7.4	11	9
05/21/03	3.49	0.64	0.207	0.260	4.8	7.4	14	25
05/22/03	4.23	0.76	0.191	0.224	4.2	7.6	77	16
05/23/03	3.82	0.98	0.126	0.346	3.0	7.5	41	55
05/24/03	3.37	0.30	0.158	0.354	4.2	7.5		33
05/25/03	3.52	0.68	0.180	0.342	3.4	7.5	25	15
05/26/03	3.18	0.86	0.148	0.308	4.4	7.5	14	11
05/27/03	2.63	0.95	0.214	0.294	5.0	7.6	25	17
05/28/03	3.45	0.90	0.169	0.206	6.2	7.7	11	25
05/29/03	3.15	1.15	0.165	0.592	5.8	7.6	23	17
05/30/03	3.38	1.22	0.123	0.390	5.8	7.7		26
05/31/03	3.05	1.06	0.096	0.338	4.0	7.6		

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
06/01/03	2.63	0.85	0.098	0.415	2.6	7.6		21
06/02/03	2.57	0.98	0.167	0.313	4.0	7.7	5	27
06/03/03	3.27	1.14	0.187	0.365	4.8	7.7	23	20
06/04/03	3.30	1.13	0.187	0.345	3.8	7.6	25	19
06/05/03	3.42	1.09	0.218	0.337	5.4	7.5	26	14
06/06/03	3.60	0.99	0.186	0.287	6.8	7.7	20	15
06/07/03	2.47	0.95	0.179	0.294	6.6	7.6	24	17
06/08/03	3.18	1.10	0.171	0.214	5.0	7.5		13
06/09/03	3.08	1.12	0.200	0.213	3.4	7.5	10	21
06/10/03	3.00	1.17	0.246	0.227	4.8	7.5	19	13
06/11/03	2.87	1.22	0.235	0.251	2.4	7.5	14	18
06/12/03	1.68	1.04	0.293	0.270	5.4	7.6	4	12
06/13/03	3.90	1.78	0.254	0.387	6.8	7.5	16	29
06/14/03	5.95	3.11	0.228	0.484	13.6	7.5	35	23
06/15/03	4.73	2.80	0.201	0.323	6.8	7.4		13
06/16/03	3.92	1.32	0.267	0.273	5.6	7.5	17	14
06/17/03	1.93	1.32	0.226	0.336	5.2	7.5	5	19
06/18/03	2.88	1.07	0.220	0.335	2.4	7.4	7	18
06/19/03	3.47	1.18	0.207	0.311	3.8	7.4	5	17
06/20/03	3.30	1.37	0.230	0.352	5.0	7.4	34	25
06/21/03	2.26	1.09	0.158	0.305	3.6	7.5	42	27
06/22/03	2.28	1.40	0.295	0.332	2.0	7.5		24
06/23/03	3.68	1.38	0.358	0.376	3.8	7.6	12	18
06/24/03	3.13	1.27	0.221	0.358	3.2	7.6	26	60
06/25/03	3.28	1.86	0.266	0.330	3.6	7.6	17	18
06/26/03	4.22	2.04	0.213	0.363	6.0	7.6	10	11
06/27/03	3.20	1.91	0.359	0.411	5.0	7.6	24	36
06/28/03	3.00	1.65	4.600	0.411	4.4	7.5	22	24
06/29/03	3.50	1.85	0.109	0.406	5.0	7.4		79
06/30/03	3.75	1.79	0.458	0.481	4.2	7.5	42	46
07/01/03	3.48	1.95	0.341	0.338	6.4	7.6	78	36
07/02/03	3.65	2.01	0.235	0.484	5.2	7.5	54	45
07/03/03	2.87	1.54	0.219	0.435	5.0	7.5	42	34
07/04/03	3.52	2.00	0.213	0.475	7.7	7.6	34	21
07/05/03	3.07	1.66	0.331	0.467	9.2	7.6	116	144
07/06/03	3.45	1.73	0.362	0.455	6.2	7.5		38
07/07/03	1.83	1.29	0.355	0.216	7.2	7.4	32	44
07/08/03	2.56	1.20	0.515	0.253	4.2	7.3	66	55
07/09/03						7.3	28	37
07/10/03	2.70	1.32	0.395	0.360	2.2	7.2	34	38
07/11/03	2.68	1.50	0.486	0.436	5.8	7.3	14	37
07/12/03	2.53	1.58	0.773	0.636	9.2	7.5	10	9
07/13/03	3.05	1.99	0.687	0.525	8.2	7.7		20
07/14/03	3.62	2.26	0.786	0.436	8.2	7.4	14	16
07/15/03	3.47	1.92	0.458	0.478	11.8	7.4	16	35
07/16/03	1.60	0.74	0.591	0.435	12.0	7.5	18	46
07/17/03	3.27	1.77	0.329	0.363	6.8	7.4	50	60
07/18/03	3.73	2.44	0.385	0.326	5.8	7.4	112	96
07/19/03	2.18	0.84	0.422	0.325	7.2	7.4	80	120
07/20/03	2.28	1.01	0.482	0.266	5.2	7.4		99
07/21/03	2.25	0.85	0.490	0.362	8.4	7.5	46	48
07/22/03	2.52	1.18	0.470	0.291	5.8	7.5	18	37

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
07/23/03	2.37	0.79	0.245	0.317	7.0	7.5	30	58
07/24/03	2.68	0.91	0.219	0.304	7.2	7.6	14	39
07/25/03	2.17	1.17	0.311	0.390	5.6	7.5	42	46
07/26/03	1.20	0.35	0.227	0.356	5.0	7.4	33	52
07/27/03	1.83	0.94	0.255	0.352	7.2	7.5		53
07/28/03	1.78	0.92	0.256	0.313	6.4	7.5	20	64
07/29/03	2.18	0.91	0.270	0.261	5.8	7.5	4	47
07/30/03	1.93	1.17	0.224	0.313	3.0	7.3	27	39
07/31/03	2.01	1.04	0.178	0.346	4.8	7.4	14	51
08/01/03	2.02	1.15	0.292	0.257	4.4	7.4	25	47
08/02/03	1.38	0.77	0.229	0.254	8.0	7.3	102	128
08/03/03	1.82	1.09	0.259	0.247	4.8	7.3		85
08/04/03	1.88	0.98	0.407	0.320	6.8	7.4	50	52
08/05/03	1.67	0.85	0.218	0.267	6.8	7.2	42	46
08/06/03	1.77	1.23	0.186	0.324	4.6	7.3	7	53
08/07/03	2.22	1.47	0.174	0.331	7.2	7.3	17	58
08/08/03	2.95	1.55	0.279	0.366	5.6	7.3	80	55
08/09/03	2.23	1.08	0.257	0.305	4.6	7.4	72	88
08/10/03	2.15	1.21	0.236	0.321	5.6	7.4		84
08/11/03	2.60	0.70	0.305	0.258	4.2	7.4	30	120
08/12/03	3.02	1.01	0.323	0.255	7.4	7.5	25	66
08/13/03	2.58	1.25	0.226	0.330	4.6	7.6	23	129
08/14/03	3.83	2.22	0.277	0.289	3.8	7.5	18	116
08/15/03	2.77	2.07	0.309	0.325	3.4	7.5	128	69
08/16/03	1.93	1.00	0.286	0.260	2.6	7.5	84	61
08/17/03	4.25	3.26	0.215	0.257	4.4	7.6		256
08/18/03	1.93	1.24	0.328	0.206	9.6	7.7	31	77
08/19/03	2.88	1.75	0.526	0.280	8.0	7.4	45	56
08/20/03	2.33	1.65	0.631	0.400	6.6	7.4	45	47
08/21/03	3.43	1.43	0.605	0.414	4.8	7.3	45	41
08/22/03	3.52	1.78	0.472	0.453	8.2	7.5	77	83
08/23/03	1.88	0.82	0.384	0.825	6.2	7.6	106	80
08/24/03	1.25	0.98	0.452	0.420	7.4	7.5		60
08/25/03	2.73	1.00	0.365	0.763	5.2	7.5	63	68
08/26/03	3.52	1.44	0.460	0.484	7.2	7.5	43	34
08/27/03	3.63	1.33	0.361	0.446	5.0	7.5	110	82
08/28/03	2.02	1.32	0.333	0.468	5.2	7.4	58	81
08/29/03			0.414	0.499	6.2	7.5	70	56
08/29/03	3.54	1.61	0.381	0.365	7.4	7.5	46	68
08/31/03	2.51	1.93	0.464	0.273	8.0	7.6		58
09/01/03	2.58	1.24	0.400	0.313	8.8	7.4	88	98
09/02/03	2.62	1.41	0.350	0.346	6.8	7.4	32	68
09/03/03	2.92	1.39	0.386	0.304	5.4	7.3	56	46
09/04/03	2.84	1.70	0.395	0.469	6.4	7.4	20	33
09/05/03	2.92	2.28	0.243	0.584	7.2	7.4	102	69
09/06/03	2.57	1.20	0.307	0.481	5.8	7.4	16	50
09/07/03	2.48	1.67	0.279	0.305	4.6	7.4		55
09/08/03	1.98	1.46	0.263	0.231	4.4	7.4	15	47
09/09/03	2.18	1.22	0.301	0.200	5.6	7.4	17	44
09/10/03	2.12	1.81	0.280	0.727	5.2	7.5	8	32
09/11/03	2.92	1.53	0.277	0.365	5.8	7.5	7	37
09/12/03	2.37	1.26	0.339	0.389	6.0	7.4	32	39

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
09/13/03	1.91	1.09	0.363	0.357	5.0	7.5	38	27
09/14/03	2.68	1.42	0.376	0.327	4.4	7.6		20
09/15/03	2.03	1.12	0.322	0.166	7.4	7.4	6	43
09/16/03	2.25	1.49	0.291	0.096	5.4	7.4	12	45
09/17/03	2.58	1.70	0.303	0.179	3.8	7.5	10	24
09/18/03	2.73	1.53	0.271	0.112	5.4	7.5	15	35
09/19/03	2.80	1.40	0.389	0.215	7.8	7.5	16	22
09/20/03	2.02	1.16	0.473	0.052	3.8	7.5	16	24
09/21/03	2.72	1.65	0.435	0.243	6.8	7.4		30
09/22/03	2.22	1.26	0.392	0.349	6.8	7.4	12	23
09/23/03	2.63	1.56	0.449	0.336	6.0	7.4	22	21
09/24/03	2.97	1.73	0.328	0.334	6.0	7.4	6	31
09/25/03	3.10	1.78	0.276	0.348	7.4	7.5	15	21
09/26/03	3.40	1.93	0.224	0.410	7.8	7.3	56	37
09/27/03	2.18	1.24	0.196	0.542	8.6	7.4	58	45
09/28/03	2.32	1.32	0.252	0.417	7.0	7.3		35
09/29/03	2.22	1.22	0.198	0.479	6.0	7.4	10	30
09/30/03	2.13	1.42	0.246	0.406	6.4	7.4	6	29
10/01/03	2.13	1.73	0.227	0.367	4.8	7.4	9	13
10/02/03	1.80	1.18	0.229	0.394	5.0	7.5	6	17
10/03/03	1.98	1.31	0.302	0.375	6.6	7.5	20	29
10/04/03	1.67	1.08	0.223	0.336	4.8	7.5	11	67
10/05/03	1.92	1.32	0.248	0.307	4.2	7.5		50
10/06/03	2.50	1.54	0.232	0.343	4.0	7.5	32	71
10/07/03	2.32	1.56	0.199	0.304	3.8	7.5	16	83
10/08/03	2.92	1.43	0.392	0.312	2.0	7.5	14	86
10/09/03	3.62	2.01	0.374	0.354	4.0	7.5	9	111
10/10/03	3.22	1.99	0.328	0.388	5.6	7.5	110	117
10/11/03	2.17	1.51	0.247	0.377	6.2	7.4	98	78
10/12/03	2.83	2.08	0.386	0.330	5.4	7.4		64
10/13/03	2.18	1.62	0.308	0.412	5.4	7.5	22	84
10/14/03	2.48	1.79	0.270	0.349	5.4	7.6	30	51
10/15/03	2.58	1.92	0.297	0.340	4.8	7.5	41	18
10/16/03	2.90	1.89	0.065	0.288	4.0	7.4	28	39
10/17/03	2.43	2.32	0.259	0.284	5.2	7.4	52	48
10/18/03	2.02	1.48	0.214	0.244	3.4	7.3	51	110
10/19/03	2.58	1.74	0.374	0.271	4.8	7.5		65
10/20/03			0.318	0.314	4.4	7.5	20	105
10/21/03	2.55	1.67	0.302	0.309	5.4	7.5	18	90
10/22/03	2.13	1.73	0.283	0.331	5.4	7.5	38	51
10/23/03	2.85	1.69	0.288	0.317	5.2	7.6	10	58
10/24/03	2.07	1.53	0.311	0.256	4.6	7.2	17	46
10/25/03	2.15	1.30	0.317	0.268	4.4	7.5	66	54
10/26/03	2.55	1.52	0.304	0.503	4.6	7.5		54
10/27/03	2.40	1.28	0.265	0.305	6.0	7.5	11	60
10/28/03	2.83	1.67	0.283	0.286	3.0	7.5	15	46
10/29/03	2.88	1.87	0.231	0.298	4.4	7.6	43	51
10/30/03	3.05	1.79	0.231	0.303	2.8	7.5	13	35
10/31/03	3.07	1.75	0.303	0.282	5.2	7.4	34	31
11/01/03	2.85	1.74	0.444	0.376	5.0	7.6		
11/02/03	3.75	2.02	0.957	0.374	5.2	7.6		
11/03/03	3.90	1.41	0.835	0.296	5.6	7.5		

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
11/04/03	3.18	1.45	0.834	0.274	6.4	7.5		
11/05/03	4.40	2.07	0.369	0.304	4.2	7.6		
11/06/03	3.28	1.37	0.407	0.278	4.0	7.6		
11/07/03	4.20	1.98	0.302	0.388	2.6	7.5		
11/08/03	2.72	1.39	0.294	0.358	6.6	7.5		
11/09/03	2.57	1.43	0.249	0.409	3.6	7.8		
11/10/03	3.02	1.44	0.270	0.347	1.8	7.5		
11/11/03	3.43	1.59	0.316	0.307	6.4	7.5		
11/12/03	5.72	2.52	0.305	0.430	3.8	7.4		
11/13/03	4.10	1.47	0.332	0.487	9.0	7.7		
11/14/03	4.23	2.79	0.337	0.526	4.4	7.8		
11/15/03	3.40	2.03	0.217	0.490	5.2	7.6		
11/16/03	2.78	1.87	0.197	0.407	3.8	7.7		
11/17/03	3.80	1.79	0.271	0.394	4.6	7.4		
11/18/03	3.13	1.88	0.348	0.332	4.4	7.5		
11/19/03	3.30	1.83	0.326	0.310	4.8	7.5		
11/20/03	3.35	1.43	0.267	0.345	5.0	7.5		
11/21/03	3.73	1.99	0.455	0.483	6.6	7.4		
11/22/03	4.72	1.93	0.532	0.465	9.4	7.4		
11/23/03	2.80	1.72	0.373	0.341	4.0	7.4		
11/24/03	3.62	1.45	0.368	0.417	7.6	7.6		
11/25/03	2.72	1.58	0.271	0.235	2.8	7.6		
11/26/03	3.07	1.91	0.269	0.357	2.6	7.4		
11/27/03	1.92	1.91	0.298	0.304	4.4	7.4		
11/28/03	2.00	1.82	0.315	0.307	5.0	7.5		
11/29/03	1.80	1.08	0.247	0.263	5.2	7.6		
11/30/03	1.70	1.02	0.205	0.266	4.4	7.1		
12/01/03	1.63	1.01	0.173	0.304	5.2	7.7		
12/02/03	1.27	0.46	0.243	0.233	5.2	7.7		
12/03/03	1.98	1.20	0.272	0.235	5.0	7.5		
12/04/03	1.78	0.72	0.176	0.146	6.4	7.6		
12/05/03	2.03	1.21	0.283	0.185	3.8	7.6		
12/06/03	2.23	1.10	0.264	0.244	5.6	7.5		
12/07/03	2.32	1.04	0.244	0.166	3.4	7.2		
12/08/03	1.87	0.78	0.137	0.454	6.0	7.4		
12/09/03	2.63	0.95	0.175	0.367	5.2	7.4		
12/10/03	2.50	1.22	0.131	0.288	2.2	7.4		
12/11/03	2.55	1.63	0.145	0.274	5.6	7.5		
12/12/03	3.03	1.66	0.175	0.360	3.4	7.6		
12/13/03	1.62	0.72	0.122	0.351	2.4	7.1		
12/14/03	1.85	1.07	0.135	0.392	2.6	7.7		
12/15/03	3.33	1.55	0.140	0.282	3.4	7.5		
12/16/03	2.55	1.35	0.211	0.182	4.2	7.5		
12/17/03	2.03	1.22	0.218	0.230	3.8	7.6		
12/18/03	1.87	1.13	0.155	0.215	2.2	7.8		
12/19/03	2.58	1.60	0.186	0.189	4.4	7.6		
12/20/03	2.26	1.00	0.209	0.231	3.6	7.6		
12/21/03	2.28	1.14	0.218	0.240	4.2	7.6		
12/22/03	2.80	1.21	0.349	0.283	4.0	7.6		
12/23/03	2.83	1.12	0.207	0.318	2.8	7.5		
12/24/03	3.42	2.25	0.221	0.370	5.6	7.3		
12/25/03	3.20	1.17	0.115	0.220	4.0	7.4		

WWTP - Pond 3 Effluent

Date	BOD (mg/L)	CBOD (mg/L)	NH3-N (mg/L)	TP (mg/L)	TSS (mg/L)	pH	ECOLI (col./100mL)	FCOLI (col./100mL)
12/26/03	2.55	0.84	0.134	0.303	2.2	7.4		
12/27/03	2.20	1.00	0.150	0.338	2.6	7.4		
12/28/03	2.48	1.16	0.164	0.420	2.8	8.4		
12/29/03	3.12	1.06	0.295	0.506	3.2	7.5		
12/30/03	2.60	1.11	0.241	0.528	3.8	7.4		
12/31/03	2.37	0.85	0.175	0.511	4.2	7.5		

WWTP - Pond 3 Influent / Effluent - Metals Data

Raw (Influent)			Pond 3 (Effluent)		
Date	Parameter	Value	Date	Parameter	Value
01/07/02	AG	0.01	01/09/02	AG	<0.002
01/14/02	AG	0.01	01/16/02	AG	<0.002
02/11/02	AG	0.0065	02/13/02	AG	<0.002
02/25/02	AG	<0.002	02/27/02	AG	<0.002
03/12/02	AG	0.0075	03/14/02	AG	<0.002
03/18/02	AG	0.0065	03/20/02	AG	<0.002
04/01/02	AG	0.003	04/03/02	AG	<0.002
04/08/02	AG	0.018	04/10/02	AG	<0.002
05/13/02	AG	0.007	05/15/02	AG	<0.0020
05/20/02	AG	0.0025	05/22/02	AG	<0.0020
06/11/02	AG	0.014	06/12/02	AG	<0.0005
06/17/02	AG	0.004	06/19/02	AG	<0.0005
07/16/02	AG	0.024	07/18/02	AG	0.0006
07/22/02	AG	0.011	07/24/02	AG	0.0035
08/14/02	AG	0.0036	08/07/02	AG	0.0009
09/17/02	AG	0.021	08/15/02	AG	0.0019
09/24/02	AG	0.0029	09/25/02	AG	<0.0005
10/14/02	AG	0.008	10/16/02	AG	<0.0005
10/28/02	AG	0.01	10/30/02	AG	0.0009
11/04/02	AG	0.016	11/06/02	AG	<0.0005
11/12/02	AG	0.022	11/14/02	AG	<0.0005
12/16/02	AG	0.021	12/18/02	AG	0.0007
12/17/02	AG	0.0069	12/19/02	AG	<0.0005
01/07/03	AG	0.026	01/08/03	AG	0.0016
01/13/03	AG	0.0087	01/15/03	AG	0.0026
02/10/03	AG	0.0027	02/12/03	AG	<0.0005
02/17/03	AG	0.0042	02/19/03	AG	0.0013
03/10/03	AG	0.0056	03/12/03	AG	0.0016
03/17/03	AG	0.0071	03/19/03	AG	0.0005
04/07/03	AG	0.0041	04/09/03	AG	0.003
04/14/03	AG	0.0037	04/16/03	AG	0.01
05/05/03	AG	0.0042	05/07/03	AG	<0.0005
05/13/03	AG	0.001	05/14/03	AG	<0.0005
06/02/03	AG	0.0061	06/04/03	AG	0.0016
06/09/03	AG	0.0047	06/11/03	AG	<0.0005
07/14/03	AG	0.0014	07/17/03	AG	0.0005
07/22/03	AG	0.0064	07/24/03	AG	0.0016
08/12/03	AG	0.0035	08/13/03	AG	<0.0005
08/18/03	AG	0.004	08/20/03	AG	0.0014
09/08/03	AG	0.0021	09/11/03	AG	<0.0005
09/15/03	AG	0.0017	09/17/03	AG	0.002
10/06/03	AG	0.0045	10/08/03	AG	<0.0005
10/13/03	AG	0.0013	10/15/03	AG	<0.0005
11/03/03	AG	0.0017	11/05/03	AG	<0.0005
11/17/03	AG	0.0017	11/19/03		<0.0005
12/01/03	AG	0.0005	12/03/03	AG	<0.0005
12/08/03	AG	0.005	12/10/03	AG	<0.0005
01/07/02	CD	0.0007	01/09/02	CD	0.0002
01/14/02	CD	0.0006	01/16/02	CD	0.0005
02/11/02	CD	0.0009	02/13/02	CD	0.0014
02/25/02	CD	0.0012	02/27/02	CD	0.0007
03/12/02	CD	0.0025	03/14/02	CD	<0.002
03/18/02	CD	<0.002	03/20/02	CD	<0.002

WWTP - Pond 3 Influent / Effluent - Metals Data

Raw (Influent)			Pond 3 (Effluent)		
Date	Parameter	Value	Date	Parameter	Value
04/01/02	CD	<0.002	04/03/02	CD	<0.002
04/08/02	CD	0.002	04/10/02	CD	0.0025
05/13/02	CD	<0.0020	05/15/02	CD	<0.0020
05/20/02	CD	<0.0020	05/22/02	CD	<0.0020
06/11/02	CD	0.0005	06/12/02	CD	<0.0005
06/17/02	CD	0.001	06/19/02	CD	<0.0005
07/16/02	CD	0.002	07/18/02	CD	<0.0005
07/22/02	CD	0.0005	07/24/02	CD	<0.0005
08/14/02	CD	< 0.0005	08/07/02	CD	<0.0005
09/17/02	CD	<0.0005	08/15/02	CD	< 0.0005
09/24/02	CD	<0.0005	09/25/02	CD	<0.0005
10/14/02	CD	0.0005	10/16/02	CD	<0.0005
10/28/02	CD	<0.0005	10/30/02	CD	<0.0005
11/04/02	CD	<0.0005	11/06/02	CD	<0.0005
11/12/02	CD	<0.0005	11/14/02	CD	<0.0005
12/16/02	CD	0.0011	12/18/02	CD	<0.0005
12/17/02	CD	<0.0005	12/19/02	CD	<0.0005
01/07/03	CD	<0.0005	01/08/03	CD	<0.0005
01/13/03	CD	<0.0005	01/15/03	CD	<0.0005
02/10/03	CD	<0.0005	02/12/03	CD	<0.0005
02/17/03	CD	<0.0005	02/19/03	CD	<0.0005
03/10/03	CD	0.0016	03/12/03	CD	<0.0005
03/17/03	CD	0.0006	03/19/03	CD	<0.0005
04/07/03	CD	0.0002	04/09/03	CD	<0.0002
04/14/03	CD	0.0004	04/16/03	CD	<0.0002
05/05/03	CD	<0.0002	05/07/03	CD	<0.0002
05/13/03	CD	<0.0002	05/14/03	CD	0.0009
06/02/03	CD	0.0003	06/04/03	CD	<0.0002
06/09/03	CD	0.0002	06/11/03	CD	<0.0002
07/14/03	CD	<0.0002	07/17/03	CD	<0.0002
07/22/03	CD	<0.0002	07/24/03	CD	<0.0002
08/12/03	CD	0.0003	08/13/03	CD	<0.0002
08/18/03	CD	0.0004	08/20/03	CD	<0.0002
09/08/03	CD	0.0002	09/11/03	CD	<0.0002
09/15/03	CD	0.0009	09/17/03	CD	0.0005
10/06/03	CD	0.001	10/08/03	CD	<0.0002
10/13/03	CD	0.0015	10/15/03	CD	<0.0002
11/03/03	CD	0.0002	11/05/03	CD	<0.0002
11/17/03	CD	0.0004	11/19/03	CD	<0.0002
12/01/03	CD	0.0002	12/03/03	CD	<0.0002
12/08/03	CD	0.0002	12/10/03	CD	<0.0002
01/07/02	CN	0.002	01/09/02	CN	0.002
01/14/02	CN	0.002	01/16/02	CN	0.002
02/11/02	CN	0.002	02/13/02	CN	0.002
02/25/02	CN	0.002	02/27/02	CN	0.002
03/12/02	CN	0.0001	03/14/02	CN	0.0004
03/18/02	CN	0.0007	03/20/02	CN	0.0005
04/01/02	CN	0.0006	04/03/02	CN	0.0008
04/08/02	CN	0.0007	04/10/02	CN	0.0013
05/13/02	CN	0.0008	05/15/02	CN	0.0013
05/20/02	CN	0.0008	05/22/02	CN	0.0017
06/11/02	CN	0.0015	06/12/02	CN	0.0016
06/17/02	CN	0.0003	06/19/02	CN	0.0011

WWTP - Pond 3 Influent / Effluent - Metals Data

Raw (Influent)			Pond 3 (Effluent)		
Date	Parameter	Value	Date	Parameter	Value
07/16/02	CN	0.0095	07/18/02	CN	0.0018
07/22/02	CN	0.0014	07/24/02	CN	0.0027
08/14/02	CN	0.0008	08/07/02	CN	0.0027
09/17/02	CN	0.00034	08/15/02	CN	0.0012
09/24/02	CN	0.00054	09/25/02	CN	0.000675
10/14/02	CN	0.00163	10/16/02	CN	0.00129
10/28/02	CN	0.0014	10/30/02	CN	0.00132
11/04/02	CN	0.0008	11/06/02	CN	0.0013
11/12/02	CN	0.0014	11/14/02	CN	0.0019
12/16/02	CN	0.00063	12/18/02	CN	0.00052
12/17/02	CN	0.0013	12/19/02	CN	0.00054
01/07/03	CN	0.00064	01/08/03	CN	0.00093
01/13/03	CN	0.0012	01/15/03	CN	0.00073
02/10/03	CN	0.0011	02/12/03	CN	0.00061
02/17/03	CN	0.00069	02/19/03	CN	0.00024
03/10/03	CN	< 0.0002	03/12/03	CN	0.0003
03/17/03	CN	0.0006	03/19/03	CN	0.0007
04/07/03	CN	0.0008	04/09/03	CN	< 0.002
04/14/03	CN	0.003	04/16/03	CN	0.003
05/05/03	CN	0.0011	05/07/03	CN	0.00085
05/13/03	CN	0.00076	05/14/03	CN	0.0011
06/02/03	CN	0.001	06/04/03	CN	0.001
06/09/03	CN	0.003	06/11/03	CN	0.002
07/14/03	CN	0.0012	07/17/03	CN	0.0009
07/22/03	CN	0.0004	07/24/03	CN	0.0017
08/12/03	CN	0.001	08/13/03	CN	0.00012
08/18/03	CN	0.0005	08/20/03	CN	0.001
09/08/03	CN	0.0007	09/11/03	CN	0.0008
09/15/03	CN	0.0006	09/17/03	CN	0.0007
10/06/03	CN	0.0004	10/08/03	CN	0.0015
10/13/03	CN	0.001	10/15/03	CN	0.001
11/03/03	CN	<0.0002	11/05/03	CN	0.0007
11/17/03	CN	0.0036	11/19/03	CN	0.0021
12/01/03	CN	0.00036	12/03/03	CN	0.00061
12/08/03	CN	0.00072	12/10/03	CN	0.00016
01/07/02	CR	0.011	01/09/02	CR	0.002
01/14/02	CR	0.014	01/16/02	CR	0.002
02/11/02	CR	0.014	02/13/02	CR	0.002
02/25/02	CR	0.002	02/27/02	CR	0.002
03/12/02	CR	0.016	03/14/02	CR	<0.002
03/18/02	CR	0.02	03/20/02	CR	<0.002
04/01/02	CR	0.011	04/03/02	CR	<0.002
04/08/02	CR	0.014	04/10/02	CR	<0.002
05/13/02	CR	0.012	05/15/02	CR	<0.0020
05/20/02	CR	0.009	05/22/02	CR	<0.0020
06/11/02	CR	0.01	06/12/02	CR	0.0015
06/17/02	CR	0.011	06/19/02	CR	0.0025
07/16/02	CR	0.016	07/18/02	CR	<0.0005
07/22/02	CR	0.014	07/24/02	CR	0.0012
08/14/02	CR	0.011	08/07/02	CR	0.035
09/17/02	CR	0.0072	08/15/02	CR	0.0012
09/24/02	CR	0.0037	09/25/02	CR	0.0016
10/14/02	CR	0.024	10/16/02	CR	0.0018

WWTP - Pond 3 Influent / Effluent - Metals Data

Raw (Influent)			Pond 3 (Effluent)		
Date	Parameter	Value	Date	Parameter	Value
10/28/02	CR	0.0099	10/30/02	CR	0.0013
11/04/02	CR	0.005	11/06/02	CR	0.003
11/12/02	CR	0.0089	11/14/02	CR	0.0022
12/16/02	CR	0.028	12/18/02	CR	0.0023
12/17/02	CR	0.015	12/19/02	CR	0.0016
01/07/03	CR	0.0078	01/08/03	CR	<0.0005
01/13/03	CR	0.01	01/15/03	CR	0.0007
02/10/03	CR	0.0051	02/12/03	CR	0.0006
02/17/03	CR	0.0095	02/19/03	CR	0.002
03/10/03	CR	0.0089	03/12/03	CR	0.0052
03/17/03	CR	0.012	03/19/03	CR	0.0064
04/07/03	CR	0.0024	04/09/03	CR	0.0012
04/14/03	CR	0.0059	04/16/03	CR	0.0018
05/05/03	CR	0.0085	05/07/03	CR	0.0026
05/13/03	CR	0.003	05/14/03	CR	0.0032
06/02/03	CR	0.0068	06/04/03	CR	0.0026
06/09/03	CR	0.0055	06/11/03	CR	0.0029
07/14/03	CR	0.0043	07/17/03	CR	0.0016
07/22/03	CR	0.0031	07/24/03	CR	0.0019
08/12/03	CR	0.0023	08/13/03	CR	0.0015
08/18/03	CR	0.0027	08/20/03	CR	0.0011
09/08/03	CR	0.0028	09/11/03	CR	0.01
09/15/03	CR	0.0027	09/17/03	CR	0.005
10/06/03	CR	0.0075	10/08/03	CR	0.0007
10/13/03	CR	0.0057	10/15/03	CR	0.0006
11/03/03	CR	0.0055	11/05/03	CR	0.0008
11/17/03	CR	0.0023	11/19/03	CR	0.0006
12/01/03	CR	0.0016	12/03/03	CR	0.0011
12/08/03	CR	0.0031	12/10/03	CR	0.0004
01/07/02	CU	0.1	01/09/02	CU	0.016
01/14/02	CU	0.098	01/16/02	CU	0.012
02/11/02	CU	0.082	02/13/02	CU	0.013
02/25/02	CU	0.026	02/27/02	CU	0.014
03/12/02	CU	0.09	03/14/02	CU	0.012
03/18/02	CU	0.089	03/20/02	CU	0.01
04/01/02	CU	0.06	04/03/02	CU	0.012
04/08/02	CU	0.16	04/10/02	CU	0.014
05/13/02	CU	0.066	05/15/02	CU	0.013
05/20/02	CU	0.038	05/22/02	CU	0.011
06/11/02	CU	0.051	06/12/02	CU	0.0095
06/17/02	CU	0.066	06/19/02	CU	0.01
07/16/02	CU	0.059	07/18/02	CU	0.0057
07/22/02	CU	0.084	07/24/02	CU	0.015
08/14/02	CU	0.069	08/07/02	CU	0.0084
09/17/02	CU	0.064	08/15/02	CU	0.01
09/24/02	CU	0.065	09/25/02	CU	0.0037
10/14/02	CU	0.073	10/16/02	CU	0.004
10/28/02	CU	0.089	10/30/02	CU	0.0045
11/04/02	CU	0.07	11/06/02	CU	0.0033
11/12/02	CU	0.054	11/14/02	CU	0.0043
12/16/02	CU	0.12	12/18/02	CU	0.0025
12/17/02	CU	0.064	12/19/02	CU	0.0028
01/07/03	CU	0.042	01/08/03	CU	0.0017

WWTP - Pond 3 Influent / Effluent - Metals Data

Raw (Influent)			Pond 3 (Effluent)		
Date	Parameter	Value	Date	Parameter	Value
01/13/03	CU	0.052	01/15/03	CU	0.0022
02/10/03	CU	0.058	02/12/03	CU	0.0024
02/17/03	CU	0.076	02/19/03	CU	0.004
03/10/03	CU	0.064	03/12/03	CU	0.0038
03/17/03	CU	0.091	03/19/03	CU	0.0052
04/07/03	CU	0.036	04/09/03	CU	0.007
04/14/03	CU	0.052	04/16/03	CU	0.0068
05/05/03	CU	0.076	05/07/03	CU	0.019
05/13/03	CU	0.031	05/14/03	CU	0.0051
06/02/03	CU	0.07	06/04/03	CU	0.0038
06/09/03	CU	0.054	06/11/03	CU	0.0033
07/14/03	CU	0.027	07/17/03	CU	0.0061
07/22/03	CU	0.03	07/24/03	CU	0.0065
08/12/03	CU	0.035	08/13/03	CU	0.0047
08/18/03	CU	0.041	08/20/03	CU	0.004
09/08/03	CU	0.029	09/11/03	CU	0.0042
09/15/03	CU	0.032	09/17/03	CU	0.004
10/06/03	CU	0.034	10/08/03	CU	0.0037
10/13/03	CU	0.06	10/15/03	CU	0.0038
11/03/03	CU	0.026	11/05/03	CU	0.0024
11/17/03	CU	0.031	11/19/03	CU	0.0022
12/01/03	CU	0.038	12/03/03	CU	0.0041
12/08/03	CU	0.039	12/10/03	CU	0.0021
01/07/02	HG	0.00023	01/09/02	HG	0.000035
01/14/02	HG	0.00018	01/16/02	HG	0.000016
02/11/02	HG	0.00015	02/13/02	HG	0.000071
02/25/02	HG	0.00023	02/27/02	HG	0.000016
03/12/02	HG	0.00018	03/14/02	HG	0.000073
03/18/02	HG	0.00013	03/20/02	HG	<0.000016
04/01/02	HG	0.000098	04/03/02	HG	<0.000016
04/08/02	HG	0.00013	04/10/02	HG	<0.000016
05/13/02	HG	0.00011	05/15/02	HG	<0.000016
05/20/02	HG	0.00002	05/22/02	HG	<0.000016
06/11/02	HG	0.0002	06/12/02	HG	0.00007
06/17/02	HG	0.0001	06/19/02	HG	0.00003
07/16/02	HG	0.00018	07/18/02	HG	<0.000016
07/22/02	HG	0.0002	07/24/02	HG	0.00002
08/14/02	HG	0.00021	08/07/02	HG	0.000018
09/17/02	HG	0.0019	08/15/02	HG	0.000022
09/24/02	HG	0.00023	09/25/02	HG	0.000026
10/14/02	HG	0.00054	10/16/02	HG	0.000078
10/28/02	HG	0.00029	10/30/02	HG	0.00002
11/04/02	HG	0.00029	11/06/02	HG	0.000024
11/12/02	HG	0.00018	11/14/02	HG	0.000017
12/16/02	HG	0.00029	12/18/02	HG	0.000054
12/17/02	HG	0.00015	12/19/02	HG	0.000041
01/07/03	HG	0.00013	01/08/03	HG	0.000017
01/13/03	HG	0.000043	01/15/03	HG	0.0000085
02/10/03	HG	0.000038	02/12/03	HG	0.0000062
02/17/03	HG	0.000059	02/19/03	HG	0.000026
03/10/03	HG	0.000072	03/12/03	HG	<0.000005
03/17/03	HG	0.000061	03/19/03	HG	<0.000005
04/07/03	HG	0.000084	04/09/03	HG	<0.000007

WWTP - Pond 3 Influent / Effluent - Metals Data

Raw (Influent)			Pond 3 (Effluent)		
Date	Parameter	Value	Date	Parameter	Value
04/14/03	HG	0.000046	04/16/03	HG	<0.000007
05/05/03	HG	0.00027	05/07/03	HG	0.000017
05/13/03	HG	0.00013	05/14/03	HG	0.000017
06/02/03	HG	0.0002	06/04/03	HG	<0.000007
06/09/03	HG	0.00054	06/11/03	HG	0.000024
07/14/03	HG	0.000059	07/17/03	HG	<0.000007
07/22/03	HG	0.00013	07/24/03	HG	0.000088
08/12/03	HG	0.000041	08/13/03	HG	0.0000096
08/18/03	HG	0.0001	08/20/03	HG	<0.000007
09/08/03	HG	0.000027	09/11/03	HG	<0.000007
09/15/03	HG	0.000031	09/17/03	HG	<0.000007
10/06/03	HG	0.000039	10/08/03	HG	0.0000095
10/13/03	HG	0.00013	10/15/03	HG	0.0000086
11/03/03	HG	0.00012	11/05/03	HG	<0.000007
11/17/03	HG	0.00015	11/19/03	HG	<0.000007
12/01/03	HG	0.00014	12/03/03	HG	<0.000007
12/08/03	HG	0.000065	12/10/03	HG	0.0000085
01/07/02	NI	0.018	01/09/02	NI	0.007
01/14/02	NI	0.025	01/16/02	NI	0.012
02/11/02	NI	0.022	02/13/02	NI	0.019
02/25/02	NI	0.014	02/27/02	NI	0.01
03/12/02	NI	0.024	03/14/02	NI	0.015
03/18/02	NI	0.02	03/20/02	NI	0.014
04/01/02	NI	0.024	04/03/02	NI	0.014
04/08/02	NI	0.02	04/10/02	NI	0.024
05/13/02	NI	0.014	05/15/02	NI	0.007
05/20/02	NI	0.012	05/22/02	NI	0.0095
06/11/02	NI	0.026	06/12/02	NI	0.049
06/17/02	NI	0.016	06/19/02	NI	0.021
07/16/02	NI	0.022	07/18/02	NI	0.012
07/22/02	NI	0.025	07/24/02	NI	0.006
08/14/02	NI	0.025	08/07/02	NI	0.015
09/17/02	NI	0.02	08/15/02	NI	0.0035
09/24/02	NI	0.012	09/25/02	NI	0.0088
10/14/02	NI	0.038	10/16/02	NI	0.024
10/28/02	NI	0.035	10/30/02	NI	0.013
11/04/02	NI	0.013	11/06/02	NI	0.014
11/12/02	NI	0.025	11/14/02	NI	0.019
12/16/02	NI	0.089	12/18/02	NI	0.02
12/17/02	NI	0.078	12/19/02	NI	0.028
01/07/03	NI	0.054	01/08/03	NI	0.015
01/13/03	NI	0.04	01/15/03	NI	0.018
02/10/03	NI	0.013	02/12/03	NI	0.013
02/17/03	NI	0.015	02/19/03	NI	0.01
03/10/03	NI	0.018	03/12/03	NI	0.012
03/17/03	NI	0.014	03/19/03	NI	0.0096
04/07/03	NI	0.0051	04/09/03	NI	0.0058
04/14/03	NI	0.02	04/16/03	NI	0.0091
05/05/03	NI	0.016	05/07/03	NI	0.0065
05/13/03	NI	0.0062	05/14/03	NI	0.0062
06/02/03	NI	0.015	06/04/03	NI	0.0083
06/09/03	NI	0.01	06/11/03	NI	0.0091
07/14/03	NI	0.0082	07/17/03	NI	0.0077

WWTP - Pond 3 Influent / Effluent - Metals Data

Raw (Influent)			Pond 3 (Effluent)		
Date	Parameter	Value	Date	Parameter	Value
07/22/03	NI	0.0099	07/24/03	NI	0.0064
08/12/03	NI	0.0098	08/13/03	NI	0.0081
08/18/03	NI	0.012	08/20/03	NI	0.0082
09/08/03	NI	0.0093	09/11/03	NI	0.0068
09/15/03	NI	0.013	09/17/03	NI	0.007
10/06/03	NI	0.0095	10/08/03	NI	0.0063
10/13/03	NI	0.013	10/15/03	NI	0.0087
11/03/03	NI	0.0068	11/05/03	NI	0.009
11/17/03	NI	0.0066	11/19/03	NI	0.0066
12/01/03	NI	0.0088	12/03/03	NI	0.0068
12/08/03	NI	0.016	12/10/03	NI	0.01
01/07/02	PB	0.01	01/09/02	PB	0.022
01/14/02	PB	0.0065	01/16/02	PB	0.002
02/11/02	PB	0.008	02/13/02	PB	0.002
02/25/02	PB	0.002	02/27/02	PB	0.002
03/12/02	PB	0.011	03/14/02	PB	0.015
03/18/02	PB	0.0095	03/20/02	PB	<0.002
04/01/02	PB	0.021	04/03/02	PB	0.014
04/08/02	PB	0.058	04/10/02	PB	0.018
05/13/02	PB	0.02	05/15/02	PB	0.007
05/20/02	PB	0.01	05/22/02	PB	0.0055
06/11/02	PB	0.011	06/12/02	PB	0.006
06/17/02	PB	0.014	06/19/02	PB	0.0045
07/16/02	PB	0.014	07/18/02	PB	<0.0005
07/22/02	PB	0.016	07/24/02	PB	0.0006
08/14/02	PB	0.015	08/07/02	PB	0.0022
09/17/02	PB	0.0056	08/15/02	PB	0.0009
09/24/02	PB	0.0029	09/25/02	PB	<0.001
10/14/02	PB	0.0061	10/16/02	PB	<0.001
10/28/02	PB	0.0042	10/30/02	PB	0.001
11/04/02	PB	0.0044	11/06/02	PB	<0.001
11/12/02	PB	0.0055	11/14/02	PB	<0.001
12/16/02	PB	<0.001	12/18/02	PB	<0.001
12/17/02	PB	<0.001	12/19/02	PB	<0.001
01/07/03	PB	0.0029	01/08/03	PB	<0.001
01/13/03	PB	0.0032	01/15/03	PB	<0.001
02/10/03	PB	0.0015	02/12/03	PB	<0.001
02/17/03	PB	0.004	02/19/03	PB	0.001
03/10/03	PB	0.0065	03/12/03	PB	<0.001
03/17/03	PB	0.0079	03/19/03	PB	0.001
04/07/03	PB	0.0086	04/09/03	PB	<0.001
04/14/03	PB	0.0034	04/16/03	PB	<0.001
05/05/03	PB	0.011	05/07/03	PB	0.0027
05/13/03	PB	0.0051	05/14/03	PB	<0.001
06/02/03	PB	0.0068	06/04/03	PB	<0.001
06/09/03	PB	0.0036	06/11/03	PB	<0.001
07/14/03	PB	0.0029	07/17/03	PB	0.0023
07/22/03	PB	0.0028	07/24/03	PB	<0.001
08/12/03	PB	0.002	08/13/03	PB	0.001
08/18/03	PB	0.0049	08/20/03	PB	<0.001
09/08/03	PB	0.0028	09/11/03	PB	<0.001
09/15/03	PB	0.0037	09/17/03	PB	0.0055
10/06/03	PB	0.0095	10/08/03	PB	<0.001

WWTP - Pond 3 Influent / Effluent - Metals Data

Raw (Influent)			Pond 3 (Effluent)		
Date	Parameter	Value	Date	Parameter	Value
10/13/03	PB	0.0054	10/15/03	PB	<0.001
11/03/03	PB	0.0014	11/05/03	PB	<0.001
11/17/03	PB	0.0026	11/19/03	PB	<0.001
12/01/03	PB	0.0026	12/03/03	PB	0.001
12/08/03	PB	0.0033	12/10/03	PB	0.0009
01/07/02	ZN	0.098	01/09/02	ZN	0.034
01/14/02	ZN	0.12	01/16/02	ZN	0.03
02/11/02	ZN	0.092	02/13/02	ZN	0.028
02/25/02	ZN	0.005	02/27/02	ZN	0.028
03/12/02	ZN	0.094	03/14/02	ZN	0.027
03/18/02	ZN	0.095	03/20/02	ZN	0.023
04/01/02	ZN	0.066	04/03/02	ZN	0.014
04/08/02	ZN	0.12	04/10/02	ZN	0.18
05/13/02	ZN	0.078	05/15/02	ZN	0.021
05/20/02	ZN	0.048	05/22/02	ZN	0.024
06/11/02	ZN	0.084	06/12/02	ZN	0.022
06/17/02	ZN	0.092	06/19/02	ZN	0.022
07/16/02	ZN	0.082	07/18/02	ZN	0.035
07/22/02	ZN	0.12	07/24/02	ZN	0.021
08/14/02	ZN	0.095	08/07/02	ZN	0.037
09/17/02	ZN	0.08	08/15/02	ZN	0.014
09/24/02	ZN	0.059	09/25/02	ZN	0.02
10/14/02	ZN	0.096	10/16/02	ZN	0.022
10/28/02	ZN	0.063	10/30/02	ZN	0.023
11/04/02	ZN	0.062	11/06/02	ZN	0.026
11/12/02	ZN	0.066	11/14/02	ZN	0.026
12/16/02	ZN	0.12	12/18/02	ZN	0.021
12/17/02	ZN	0.089	12/19/02	ZN	0.026
01/07/03	ZN	0.052	01/08/03	ZN	<0.0005
01/13/03	ZN	0.058	01/15/03	ZN	0.022
02/10/03	ZN	0.044	02/12/03	ZN	0.027
02/17/03	ZN	0.062	02/19/03	ZN	0.026
03/10/03	ZN	0.08	03/12/03	ZN	0.028
03/17/03	ZN	0.088	03/19/03	ZN	0.026
04/07/03	ZN	0.054	04/09/03	ZN	0.022
04/14/03	ZN	0.068	04/16/03	ZN	0.028
05/05/03	ZN	0.076	05/07/03	ZN	0.03
05/13/03	ZN	0.038	05/14/03	ZN	0.014
06/02/03	ZN	0.072	06/04/03	ZN	0.023
06/09/03	ZN	0.056	06/11/03	ZN	0.0002
07/14/03	ZN	0.035	07/17/03	ZN	0.021
07/22/03	ZN	0.041	07/24/03	ZN	0.016
08/12/03	ZN	0.048	08/13/03	ZN	0.021
08/18/03	ZN	0.067	08/20/03	ZN	0.018
09/08/03	ZN	0.043	09/11/03	ZN	0.017
09/15/03	ZN	0.049	09/17/03	ZN	0.014
10/06/03	ZN	0.047	10/08/03	ZN	0.016
10/13/03	ZN	0.076	10/15/03	ZN	0.02
11/03/03	ZN	0.038	11/05/03	ZN	0.018
11/17/03	ZN	0.04	11/19/03	ZN	0.018
12/01/03	ZN	0.052	12/03/03	ZN	0.023
12/08/03	ZN	0.054	12/10/03	ZN	0.02
01/12/04	ZN	0.058	01/14/04	ZN	0.0199

WWTP - Pond 3 Influent / Effluent - Metals Data

Raw (Influent)			Pond 3 (Effluent)		
Date	Parameter	Value	Date	Parameter	Value
01/20/04	ZN	PENDING	01/22/04	ZN	PENDING
02/09/04	ZN	0.1043	02/11/04	ZN	0.0018
02/16/04	ZN	0.0869	02/18/04	ZN	0.0282
03/01/04	ZN	PENDING	03/03/04	ZN	PENDING

AG - Silver
CD - Cadmium
CN - Cyanide
CR - Chromium
CU - Copper
HG - Mercury
NI - Nickel
PB - Lead
ZN - Zinc

APPENDIX G

Significant Industrial Users

Industrial Wastewater Discharge Permits
Sampling Data Results
Site Consumption (Flow) Reports

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **01801**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Cintas Corporation 3201 Brooklyn Avenue Fort Wayne, IN 46809	Same

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 403 standards.

is permit shall become effective on **July 31, 2003.**

This permit and the authorization to discharge wastewater shall expire on **July 31, 2008.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

it via Certified mail to:

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **Cintas Corporation** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Self-Monitoring Frequency	Sample Type
pH	6.0-12.0	2/month	grab
Oil and Grease	100	2/month	grab

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

C. Location of sampling:

All samples must be collected from the control manhole located in the drive outside of the truck gate. Sampling points shall not be changed without notification to and the approval of the City of Fort Wayne.

Cintas Corporation

Sample Date	Parameter	Result	Limit
02/06/02	Ammonia-Nitrogen	3	25.00
05/14/02	Ammonia-Nitrogen	1.28	
08/14/02	Ammonia-Nitrogen	0.537	
02/26/03	Ammonia-Nitrogen	3	
05/22/03	Ammonia-Nitrogen	1	
08/22/03	Ammonia-Nitrogen	7	
11/19/03	Ammonia-Nitrogen	1.9	
02/06/02	Biochemical Oxygen Demand 5 Day	189	300.00
05/14/02	Biochemical Oxygen Demand 5 Day	282	
08/14/02	Biochemical Oxygen Demand 5 Day	100	
02/26/03	Biochemical Oxygen Demand 5 Day	194	
05/22/03	Biochemical Oxygen Demand 5 Day	168	
08/22/03	Biochemical Oxygen Demand 5 Day	198	
11/19/03	Biochemical Oxygen Demand 5 Day	129	
02/06/02	Cadmium	<0.04	0.70
05/14/02	Cadmium	<0.04	
08/14/02	Cadmium	< 0.01	
02/26/03	Cadmium	<0.01	
05/22/03	Cadmium	<0.01	
08/22/03	Cadmium	<0.01	
11/19/03	Cadmium	<0.01	
02/06/02	Chemical Oxygen Demand	564	600.00
05/14/02	Chemical Oxygen Demand	724	
08/14/02	Chemical Oxygen Demand	450	
02/26/03	Chemical Oxygen Demand	646	
05/22/03	Chemical Oxygen Demand	489	
08/22/03	Chemical Oxygen Demand	650	
11/19/03	Chemical Oxygen Demand	831	
02/06/02	Chromium	<0.04	10.00
05/14/02	Chromium	<0.04	
08/14/02	Chromium	0.017	
02/26/03	Chromium	0.02	
05/22/03	Chromium	0.02	
08/22/03	Chromium	0.03	
11/19/03	Chromium	0.03	
02/06/02	Copper	0.18	2.00
05/06/02	Copper	0.179	
05/14/02	Copper	0.22	
08/14/02	Copper	0.2	
11/05/02	Copper	0.096	
02/26/03	Copper	0.15	
05/06/03	Copper	0.234	
05/22/03	Copper	0.16	
08/22/03	Copper	0.29	
11/12/03	Copper	0.097	
11/19/03	Copper	0.2	
02/06/02	Lead	0.06	0.60
05/06/02	Lead	<0.040	
05/14/02	Lead	0.05	
08/14/02	Lead	0.041	
11/05/02	Lead	<0.040	
02/26/03	Lead	0.05	
05/06/03	Lead	<0.040	
05/22/03	Lead	<0.03	
08/22/03	Lead	<0.03	

Cintas Corporation

Sample Date	Parameter	Result	Limit
11/12/03	Lead	<0.040	
11/19/03	Lead	0.04	
02/06/02	Mercury	0.000056	0.01
02/26/03	Mercury	0.000018	
02/06/02	Nickel	<0.04	3.00
05/14/02	Nickel	<0.04	
08/14/02	Nickel	0.016	
02/26/03	Nickel	0.01	
05/22/03	Nickel	0.01	
08/22/03	Nickel	0.03	
11/19/03	Nickel	0.03	
01/02/02	pH	10.4	6.0-12.0
01/03/02	pH	10.4	
02/04/02	pH	10.5	
02/05/02	pH	10.4	
02/06/02	pH	10.6	
03/04/02	pH	10.4	
03/05/02	pH	10.8	
05/01/02	pH	10.6	
05/03/02	pH	10.6	
05/06/02	pH	10.6	
05/07/02	pH	10.2	
05/14/02	pH	9.8	
06/03/02	pH	10.5	
06/06/02	pH	10	
08/01/02	pH	10	
08/02/02	pH	9.8	
08/14/02	pH	10	
09/04/02	pH	10	
09/05/02	pH	10.1	
10/03/02	pH	10.3	
10/04/02	pH	10.5	
11/04/02	pH	10.7	
11/05/02	pH	10.7	
12/02/02	pH	10	
12/03/02	pH	<10.0	
01/07/03	pH	10.9	
01/08/03	pH	11.2	
02/03/03	pH	10.3	
02/04/03	pH	10.7	
02/26/03	pH	10	
04/03/03	pH	11	
04/07/03	pH	11.1	
05/05/03	pH	10.4	
05/06/03	pH	10.5	
05/22/03	pH	8.5	
06/16/03	pH	10.5	
06/17/03	pH	10.5	
07/01/03	pH	10.3	
07/02/03	pH	10.5	
08/04/03	pH	9.6	
08/05/03	pH	10	
08/22/03	pH	9.8	
09/02/03	pH	9	
09/03/03	pH	10.6	

Cintas Corporation

Sample Date	Parameter	Result	Limit
10/07/03	pH	10.1	
10/08/03	pH	10.1	
11/06/03	pH	9.8	
11/07/03	pH	10.1	
11/19/03	pH	10.6	
12/01/03	pH	10.1	
12/02/03	pH	10.1	
02/06/02	Silver	<0.04	0.30
05/14/02	Silver	<0.04	
08/14/02	Silver	<0.01	
02/26/03	Silver	<0.01	
05/22/03	Silver	<0.01	
08/22/03	Silver	0.01	
11/19/03	Silver	<0.01	
02/06/02	Tot. Suspended Solids	62	300.00
05/14/02	Tot. Suspended Solids	66	
08/14/02	Tot. Suspended Solids	140	
02/26/03	Tot. Suspended Solids	170	
05/22/03	Tot. Suspended Solids	240	
08/22/03	Tot. Suspended Solids	216	
11/19/03	Tot. Suspended Solids	128	
02/06/02	Total Phosphorus	23.4	10.00
05/14/02	Total Phosphorus	55	
08/14/02	Total Phosphorus	9.9	
02/26/03	Total Phosphorus	1	
05/22/03	Total Phosphorus	31	
08/22/03	Total Phosphorus	27	
11/19/03	Total Phosphorus	39.087	
02/06/02	Zinc	0.11	6.00
05/06/02	Zinc	0.255	
05/14/02	Zinc	0.25	
08/14/02	Zinc	0.36	
11/05/02	Zinc	0.043	
02/26/03	Zinc	0.29	
05/06/03	Zinc	0.165	
05/22/03	Zinc	0.3	
08/22/03	Zinc	0.4	
11/12/03	Zinc	0.117	
11/19/03	Zinc	0.33	

Site Consumption

: ny: CINTAS CORP.
Site Name: CINTAS CORP.

IWS Number: 6605
Site Number: 1

Begin	End	Water	Sewer
12/10/2001	01/10/2002	2,104	2,062
01/10/2002	02/07/2002	2,076	2,034
02/07/2002	03/12/2002	2,135	2,092
03/12/2002	04/09/2002	2,125	2,082
04/09/2002	05/13/2002	2,437	2,388
05/13/2002	07/15/2002	4,030	3,949
07/15/2002	08/13/2002	1,845	1,808
08/13/2002	09/13/2002	2,592	2,540
09/13/2002	10/11/2002	1,851	1,814
10/11/2002	11/12/2002	2,179	2,135
11/12/2002	12/10/2002	1,930	1,891
12/10/2002	01/10/2003	2,660	2,607
01/10/2003	02/04/2003	0	1,975
02/04/2003	03/07/2003	2,498	2,448
03/07/2003	04/07/2003	2,162	2,119
04/07/2003	05/09/2003	2,827	2,770
05/09/2003	06/09/2003	2,584	2,532
06/09/2003	07/08/2003	2,324	2,278
07/08/2003	08/08/2003	2,035	1,994
08/08/2003	09/08/2003	2,306	2,260
09/08/2003	10/07/2003	1,855	1,818
10/07/2003	11/07/2003	2,523	2,523
11/07/2003	12/05/2003	1,960	1,921
12/05/2003	01/09/2004	2,761	2,706

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **04301**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
The Crown Group, Fort Wayne Plant 4301 Engle Road Fort Wayne, IN 46804	Same Phone: (219) 432-6900

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 433.17 standards.

This permit shall become effective on **February 26, 1999.**

This permit and the authorization to discharge wastewater shall expire on **February 26, 2004.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

Sent via Certified mail to:

Name:

Permit 04301

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **The Crown Group** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for Monthly Avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.11	0.07	2/year	composite
Chromium	2.69	1.66	2/year	composite
Copper	2.00	2.01	2/year	composite
ıd	0.60	0.42	2/month	composite
ıckel	3.00	2.31	2/month	composite
Silver	0.30	0.23	2/year	composite
Zinc	2.53	1.44	2/month	composite
Cyanide	1.16	0.63	2/year	composite
T.T.O.	2.07	N/A	2/year	
pH	6.0-12.0		2/month	grab

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

Crown Group

Sample Date	Parameter	Result	Limit
02/06/02	Ammonia-Nitrogen	18	25
05/14/02	Ammonia-Nitrogen	0.02	
08/14/02	Ammonia-Nitrogen	1.2	
02/26/03	Ammonia-Nitrogen	3	
05/22/03	Ammonia-Nitrogen	3	
08/22/03	Ammonia-Nitrogen	3	
11/19/03	Ammonia-Nitrogen	4.5	
02/06/02	Biochemical Oxygen Demand 5 Day	186	300
05/14/02	Biochemical Oxygen Demand 5 Day	59	
08/14/02	Biochemical Oxygen Demand 5 Day	49	
02/26/03	Biochemical Oxygen Demand 5 Day	49	
05/22/03	Biochemical Oxygen Demand 5 Day	16	
08/22/03	Biochemical Oxygen Demand 5 Day	26	
11/19/03	Biochemical Oxygen Demand 5 Day	70	
02/06/02	Cadmium	<0.04	0.07
05/14/02	Cadmium	<0.04	
08/14/02	Cadmium	< 0.01	
11/01/02	Cadmium	<0.01	
11/05/02	Cadmium	<0.01	
02/26/03	Cadmium	<0.01	
05/06/03	Cadmium	<0.01	
05/22/03	Cadmium	<0.01	
05/23/03	Cadmium	<0.01	
08/22/03	Cadmium	<0.01	
11/04/03	Cadmium	<0.01	
11/19/03	Cadmium	<0.01	
11/20/03	Cadmium	<0.01	
02/06/02	Chemical Oxygen Demand	618	600
05/14/02	Chemical Oxygen Demand	197	
08/14/02	Chemical Oxygen Demand	347	
02/26/03	Chemical Oxygen Demand	568	
05/22/03	Chemical Oxygen Demand	151	
08/22/03	Chemical Oxygen Demand	154	
11/19/03	Chemical Oxygen Demand	257	
02/06/02	Chromium	<0.04	1.66
05/14/02	Chromium	<0.04	
08/14/02	Chromium	< 0.01	
11/01/02	Chromium	0.01	
11/05/02	Chromium	<0.01	
02/26/03	Chromium	<0.01	
05/06/03	Chromium	0.01	
05/22/03	Chromium	0.07	
05/23/03	Chromium	0.07	
08/22/03	Chromium	<0.01	
11/04/03	Chromium	<0.01	
11/19/03	Chromium	<0.01	
11/20/03	Chromium	0.01	
02/06/02	Copper	0.07	2.01
05/14/02	Copper	0.05	
08/14/02	Copper	0.013	
11/01/02	Copper	0.08	
11/05/02	Copper	0.02	
02/26/03	Copper	0.02	
05/06/03	Copper	0.06	
05/22/03	Copper	0.06	

Crown Group

Sample Date	Parameter	Result	Limit
05/23/03	Copper	0.07	
08/22/03	Copper	0.01	
11/04/03	Copper	0.02	
11/19/03	Copper	0.02	
11/20/03	Copper	0.04	
01/08/02	Lead	<0.02	0.42
01/15/02	Lead	0.04	
01/22/02	Lead	0.05	
01/30/02	Lead	<0.02	
02/05/02	Lead	0.04	
02/06/02	Lead	<0.04	
02/07/02	Lead	0.05	
02/12/02	Lead	0.06	
02/19/02	Lead	0.04	
02/26/02	Lead	0.03	
03/05/02	Lead	0.03	
03/12/02	Lead	<0.02	
03/19/02	Lead	0.03	
03/27/02	Lead	0.03	
04/02/02	Lead	0.04	
04/09/02	Lead	<0.02	
04/16/02	Lead	<0.02	
04/23/02	Lead	<0.02	
05/02/02	Lead	<0.02	
05/08/02	Lead	<0.02	
05/14/02	Lead	<0.04	
05/15/02	Lead	<0.02	
05/22/02	Lead	<0.01	
05/22/02	Lead	<0.02	
06/05/02	Lead	<0.06	
06/12/02	Lead	<0.06	
06/19/02	Lead	<0.06	
06/26/02	Lead	<0.06	
07/08/02	Lead	<0.06	
07/09/02	Lead	<0.06	
07/18/02	Lead	<0.06	
07/23/02	Lead	<0.06	
08/06/02	Lead	0.11	
08/13/02	Lead	<0.06	
08/14/02	Lead	< 0.01	
08/20/02	Lead	0.07	
08/27/02	Lead	<0.06	
09/05/02	Lead	<0.06	
09/11/02	Lead	<0.06	
09/18/02	Lead	<0.06	
09/25/02	Lead	<0.06	
10/01/02	Lead	<0.06	
10/08/02	Lead	<0.06	
10/15/02	Lead	<0.06	
10/22/02	Lead	<0.06	
11/01/02	Lead	<0.06	
11/05/02	Lead	<0.06	
11/12/02	Lead	0.08	
11/19/02	Lead	<0.06	
11/26/02	Lead	<0.06	

Crown Group

Sample Date	Parameter	Result	Limit
12/03/02	Lead	<0.06	
12/10/02	Lead	<0.06	
12/17/02	Lead	<0.06	
12/26/02	Lead	<0.06	
01/07/03	Lead	<0.06	
01/14/03	Lead	<0.06	
01/21/03	Lead	<0.06	
01/28/03	Lead	0.14	
02/04/03	Lead	<0.06	
02/11/03	Lead	0.07	
02/18/03	Lead	<0.06	
02/25/03	Lead	<0.06	
02/26/03	Lead	<0.02	
02/27/03	Lead	<0.06	
03/03/03	Lead	<0.06	
03/11/03	Lead	<0.06	
03/18/03	Lead	<0.06	
03/25/03	Lead	<0.06	
04/01/03	Lead	<0.06	
04/08/03	Lead	<0.06	
04/15/03	Lead	<0.06	
04/22/03	Lead	<0.06	
05/06/03	Lead	<0.06	
05/13/03	Lead	0.14	
05/22/03	Lead	<0.03	
05/23/03	Lead	0.09	
05/28/03	Lead	<0.06	
06/03/03	Lead	<0.06	
06/10/03	Lead	<0.06	
06/17/03	Lead	<0.06	
06/24/03	Lead	<0.06	
07/01/03	Lead	<0.06	
07/08/03	Lead	<0.06	
07/15/03	Lead	<0.06	
07/22/03	Lead	<0.06	
08/05/03	Lead	<0.06	
08/12/03	Lead	<0.06	
08/19/03	Lead	<0.06	
08/22/03	Lead	<0.03	
08/22/03	Lead	<0.06	
08/26/03	Lead	<0.06	
09/02/03	Lead	<0.06	
09/10/03	Lead	<0.06	
09/16/03	Lead	<0.06	
09/23/03	Lead	<0.06	
10/07/03	Lead	<0.06	
10/14/03	Lead	<0.06	
10/21/03	Lead	0.09	
10/28/03	Lead	<0.06	
11/04/03	Lead	<0.06	
11/11/03	Lead	<0.06	
11/18/03	Lead	<0.06	
11/19/03	Lead	<0.03	
11/20/03	Lead	<0.06	
11/25/03	Lead	<0.06	

Crown Group

Sample Date	Parameter	Result	Limit
12/02/03	Lead	<0.06	
12/09/03	Lead	<0.06	
12/17/03	Lead	<0.06	
12/23/03	Lead	0.1	
02/06/02	Mercury	0.000057	0.01
02/26/03	Mercury	<0.000005	
01/08/02	Nickel	0.23	3.00
01/15/02	Nickel	0.13	
01/18/02	Nickel	0.6	
01/18/02	Nickel	0.43	
01/22/02	Nickel	0.05	
01/30/02	Nickel	0.42	
02/05/02	Nickel	0.29	
02/06/02	Nickel	0.12	
02/07/02	Nickel	0.14	
02/12/02	Nickel	0.39	
02/19/02	Nickel	0.37	
02/26/02	Nickel	0.34	
03/05/02	Nickel	1.23	
03/12/02	Nickel	0.21	
03/19/02	Nickel	0.4	
03/27/02	Nickel	0.16	
04/02/02	Nickel	1.43	
04/09/02	Nickel	0.2	
04/16/02	Nickel	0.16	
04/23/02	Nickel	0.3	
05/02/02	Nickel	0.28	
05/08/02	Nickel	0.18	
05/14/02	Nickel	0.28	
05/15/02	Nickel	0.25	
05/22/02	Nickel	0.27	
05/22/02	Nickel	0.2	
06/05/02	Nickel	0.13	
06/12/02	Nickel	0.1	
06/19/02	Nickel	0.12	
06/26/02	Nickel	0.4	
07/08/02	Nickel	0.4	
07/09/02	Nickel	0.33	
07/18/02	Nickel	0.11	
07/23/02	Nickel	0.16	
08/06/02	Nickel	0.42	
08/13/02	Nickel	0.17	
08/14/02	Nickel	0.19	
08/20/02	Nickel	0.18	
08/27/02	Nickel	0.13	
09/05/02	Nickel	0.13	
09/11/02	Nickel	0.12	
09/18/02	Nickel	0.09	
09/25/02	Nickel	0.12	
10/01/02	Nickel	0.16	
10/08/02	Nickel	0.15	
10/15/02	Nickel	0.28	
10/22/02	Nickel	0.26	
11/01/02	Nickel	0.54	
11/05/02	Nickel	0.15	

Crown Group

Sample Date	Parameter	Result	Limit
11/12/02	Nickel	0.45	
11/19/02	Nickel	0.09	
11/26/02	Nickel	0.13	
12/03/02	Nickel	0.38	
12/10/02	Nickel	0.04	
12/17/02	Nickel	0.11	
12/26/02	Nickel	0.11	
01/07/03	Nickel	0.2	
01/14/03	Nickel	0.12	
01/21/03	Nickel	0.4	
01/28/03	Nickel	0.79	
02/04/03	Nickel	0.09	
02/11/03	Nickel	0.63	
02/18/03	Nickel	0.07	
02/25/03	Nickel	0.14	
02/26/03	Nickel	0.5	
02/27/03	Nickel	0.42	
03/03/03	Nickel	0.15	
03/11/03	Nickel	0.07	
03/18/03	Nickel	0.12	
03/25/03	Nickel	0.18	
04/01/03	Nickel	0.08	
04/08/03	Nickel	0.1	
04/15/03	Nickel	0.12	
04/22/03	Nickel	0.16	
05/06/03	Nickel	0.25	
05/13/03	Nickel	9.36	
05/22/03	Nickel	5.59	
05/23/03	Nickel	4.41	
05/28/03	Nickel	0.16	
06/03/03	Nickel	0.52	
06/10/03	Nickel	0.36	
06/17/03	Nickel	0.3	
06/24/03	Nickel	0.17	
07/01/03	Nickel	0.15	
07/07/03	Nickel	0.15	
07/08/03	Nickel	0.14	
07/08/03	Nickel	0.32	
07/15/03	Nickel	0.44	
07/21/03	Nickel	0.34	
07/22/03	Nickel	0.11	
07/22/03	Nickel	0.31	
08/05/03	Nickel	0.51	
08/12/03	Nickel	0.18	
08/19/03	Nickel	0.23	
08/22/03	Nickel	0.14	
08/22/03	Nickel	0.12	
08/26/03	Nickel	0.13	
09/02/03	Nickel	0.33	
09/10/03	Nickel	0.22	
09/16/03	Nickel	0.1	
09/23/03	Nickel	0.14	
10/07/03	Nickel	0.21	
10/14/03	Nickel	0.16	
10/21/03	Nickel	0.33	

Crown Group

Sample Date	Parameter	Result	Limit
10/28/03	Nickel	0.26	
11/04/03	Nickel	0.16	
11/11/03	Nickel	0.4	
11/18/03	Nickel	0.69	
11/19/03	Nickel	0.23	
11/20/03	Nickel	0.23	
11/25/03	Nickel	0.5	
12/02/03	Nickel	0.27	
12/09/03	Nickel	0.03	
12/17/03	Nickel	0.03	
12/23/03	Nickel	0.6	
01/08/02	pH	8.37	6.0-12.0
01/15/02	pH	7.14	
01/22/02	pH	6.92	
01/30/02	pH	7.39	
02/05/02	pH	6.54	
02/06/02	pH	9.3	
02/12/02	pH	7.34	
02/19/02	pH	7.18	
02/26/02	pH	8.54	
03/05/02	pH	6.79	
03/12/02	pH	7.58	
03/19/02	pH	7.82	
03/27/02	pH	7.76	
04/02/02	pH	7.67	
04/09/02	pH	6.74	
04/16/02	pH	7.42	
04/23/02	pH	7.58	
05/02/02	pH	7.32	
05/08/02	pH	6.91	
05/14/02	pH	8.9	
05/15/02	pH	8.03	
05/22/02	pH	8.11	
06/05/02	pH	8.33	
06/12/02	pH	8.32	
06/19/02	pH	8.13	
06/26/02	pH	8.04	
07/08/02	pH	7.03	
07/09/02	pH	7.93	
07/18/02	pH	9.63	
07/23/02	pH	8.85	
08/06/02	pH	9.33	
08/13/02	pH	7.68	
08/14/02	pH	9.2	
08/20/02	pH	7.54	
08/27/02	pH	8.33	
09/05/02	pH	8.59	
09/11/02	pH	10.12	
09/18/02	pH	9.36	
09/25/02	pH	8.98	
10/01/02	pH	6.96	
10/08/02	pH	9.23	
10/15/02	pH	9.86	
10/22/02	pH	9.26	
11/05/02	pH	6	

Crown Group

Sample Date	Parameter	Result	Limit
11/12/02	pH	9.15	
11/19/02	pH	7.34	
11/26/02	pH	9.11	
12/03/02	pH	8.31	
12/10/02	pH	8.75	
12/17/02	pH	8.12	
12/26/02	pH	7.44	
01/07/03	pH	8.02	
01/14/03	pH	8.23	
01/21/03	pH	7.46	
01/28/03	pH	6.11	
02/04/03	pH	8.29	
02/11/03	pH	8.11	
02/18/03	pH	7.62	
02/25/03	pH	8.1	
02/26/03	pH	9.5	
03/03/03	pH	8.12	
03/11/03	pH	7.6	
03/18/03	pH	9.61	
03/25/03	pH	8.87	
04/01/03	pH	8.39	
04/08/03	pH	8.74	
04/15/03	pH	8.34	
04/22/03	pH	8.86	
05/06/03	pH	7.49	
05/13/03	pH	7.61	
05/20/03	pH	8.63	
05/22/03	pH	7.2	
05/28/03	pH	8.38	
06/03/03	pH	8.23	
06/10/03	pH	8.12	
06/17/03	pH	8.68	
06/24/03	pH	9.27	
07/01/03	pH	6.98	
07/08/03	pH	9.28	
07/15/03	pH	8.26	
07/22/03	pH	8.27	
08/05/03	pH	7.39	
08/12/03	pH	8.32	
08/19/03	pH	7.69	
08/22/03	pH	10.9	
08/26/03	pH	8.31	
09/02/03	pH	8.43	
09/10/03	pH	8.51	
09/16/03	pH	7.21	
09/23/03	pH	7.72	
10/07/03	pH	8.81	
10/14/03	pH	8.34	
10/21/03	pH	8.96	
10/28/03	pH	8.44	
11/04/03	pH	8.14	
11/11/03	pH	8.01	
11/18/03	pH	8.53	
11/19/03	pH	8.6	
11/25/03	pH	6.78	

Crown Group

Sample Date	Parameter	Result	Limit
12/02/03	pH	8.94	
12/09/03	pH	7.17	
12/17/03	pH	6.9	
12/23/03	pH	8.68	
02/06/02	Silver	<0.04	0.23
05/14/02	Silver	<0.04	
08/14/02	Silver	< 0.01	
11/01/02	Silver	0.01	
11/05/02	Silver	<0.01	
02/26/03	Silver	<0.01	
05/06/03	Silver	0.06	
05/22/03	Silver	<0.01	
05/23/03	Silver	<0.01	
08/22/03	Silver	0.01	
11/04/03	Silver	<0.01	
11/19/03	Silver	<0.01	
11/20/03	Silver	0.01	
02/06/02	Tot. Suspended Solids	28	300
05/14/02	Tot. Suspended Solids	11	
08/14/02	Tot. Suspended Solids	16	
02/26/03	Tot. Suspended Solids	35	
05/22/03	Tot. Suspended Solids	158	
08/22/03	Tot. Suspended Solids	15	
11/19/03	Tot. Suspended Solids	21	
02/06/02	Total Cyanide	0.0034	0.63
05/14/02	Total Cyanide	0.0006	
08/14/02	Total Cyanide	0.0011	
11/05/02	Total Cyanide	<0.01	
02/26/03	Total Cyanide	0.00068	
05/06/03	Total Cyanide	<0.01	
05/22/03	Total Cyanide	0.0017	
08/22/03	Total Cyanide	0.0009	
11/04/03	Total Cyanide	<0.01	
11/19/03	Total Cyanide	0.0122	
02/06/02	Total Phosphorus	11.6	10
05/14/02	Total Phosphorus	0.8	
08/14/02	Total Phosphorus	0.508	
02/26/03	Total Phosphorus	17	
05/22/03	Total Phosphorus	7	
08/22/03	Total Phosphorus	0.376	
11/19/03	Total Phosphorus	2.24	
01/08/02	Zinc	0.12	2.53
01/15/02	Zinc	0.07	
01/18/02	Zinc	0.66	
01/18/02	Zinc	0.46	
01/22/02	Zinc	0.06	
01/30/02	Zinc	0.39	
02/05/02	Zinc	0.07	
02/06/02	Zinc	0.09	
02/07/02	Zinc	0.11	
02/12/02	Zinc	0.1	
02/19/02	Zinc	0.26	
02/26/02	Zinc	0.26	
03/05/02	Zinc	0.38	
03/12/02	Zinc	0.06	

Crown Group

Sample Date	Parameter	Result	Limit
03/19/02	Zinc	0.17	
03/27/02	Zinc	0.11	
04/02/02	Zinc	1.13	
04/09/02	Zinc	0.13	
04/16/02	Zinc	0.08	
04/23/02	Zinc	0.15	
05/02/02	Zinc	0.1	
05/08/02	Zinc	0.09	
05/14/02	Zinc	0.11	
05/15/02	Zinc	0.14	
05/22/02	Zinc	0.1	
05/22/02	Zinc	0.07	
06/05/02	Zinc	0.07	
06/12/02	Zinc	0.03	
06/19/02	Zinc	0.04	
06/26/02	Zinc	0.31	
07/08/02	Zinc	0.06	
07/09/02	Zinc	0.05	
07/18/02	Zinc	0.06	
07/23/02	Zinc	0.11	
08/06/02	Zinc	0.15	
08/13/02	Zinc	0.04	
08/14/02	Zinc	0.081	
08/20/02	Zinc	0.08	
08/27/02	Zinc	0.07	
09/05/02	Zinc	0.06	
09/11/02	Zinc	0.06	
09/18/02	Zinc	0.03	
09/25/02	Zinc	0.1	
10/01/02	Zinc	0.15	
10/08/02	Zinc	0.11	
10/15/02	Zinc	0.09	
10/22/02	Zinc	0.15	
11/01/02	Zinc	0.34	
11/05/02	Zinc	0.06	
11/12/02	Zinc	0.42	
11/19/02	Zinc	0.06	
11/26/02	Zinc	0.05	
12/03/02	Zinc	0.29	
12/10/02	Zinc	0.02	
12/17/02	Zinc	0.03	
12/26/02	Zinc	0.03	
01/07/03	Zinc	0.08	
01/14/03	Zinc	0.04	
01/21/03	Zinc	0.05	
01/28/03	Zinc	3.37	
02/04/03	Zinc	0.08	
02/11/03	Zinc	0.78	
02/18/03	Zinc	0.1	
02/25/03	Zinc	0.12	
02/26/03	Zinc	1.24	
02/27/03	Zinc	0.99	
03/03/03	Zinc	0.06	
03/11/03	Zinc	0.06	
03/18/03	Zinc	0.07	

Crown Group

Sample Date	Parameter	Result	Limit
03/25/03	Zinc	0.27	
04/01/03	Zinc	0.06	
04/08/03	Zinc	0.1	
04/15/03	Zinc	0.07	
04/22/03	Zinc	0.12	
05/06/03	Zinc	0.09	
05/13/03	Zinc	6.89	
05/22/03	Zinc	4.72	
05/23/03	Zinc	3.92	
05/28/03	Zinc	0.08	
06/03/03	Zinc	0.12	
06/10/03	Zinc	0.13	
06/17/03	Zinc	0.08	
06/24/03	Zinc	0.1	
07/01/03	Zinc	0.11	
07/07/03	Zinc	0.13	
07/08/03	Zinc	0.12	
07/08/03	Zinc	0.08	
07/15/03	Zinc	0.45	
07/21/03	Zinc	0.45	
07/22/03	Zinc	0.08	
07/22/03	Zinc	0.42	
08/05/03	Zinc	0.19	
08/12/03	Zinc	0.12	
08/19/03	Zinc	0.2	
08/22/03	Zinc	0.15	
08/22/03	Zinc	0.14	
08/26/03	Zinc	0.12	
09/02/03	Zinc	0.17	
09/10/03	Zinc	0.13	
09/16/03	Zinc	0.08	
09/23/03	Zinc	0.13	
10/07/03	Zinc	0.11	
10/14/03	Zinc	0.14	
10/21/03	Zinc	0.14	
10/28/03	Zinc	0.13	
11/04/03	Zinc	0.09	
11/11/03	Zinc	0.17	
11/18/03	Zinc	0.31	
11/19/03	Zinc	0.2	
11/20/03	Zinc	0.19	
11/25/03	Zinc	0.27	
12/02/03	Zinc	0.22	
12/09/03	Zinc	0.08	
12/17/03	Zinc	0.06	
12/23/03	Zinc	0.25	

Site Consumption

ny: THE CROWN GROUP, FORT WAYNE IN PLANT IWS Number: 5527
Name: CROWN GROUP Site Number: 1

Begin	End	Water	Sewer
2/12/2001	01/11/2002	335	352
01/11/2002	02/13/2002	591	601
02/13/2002	03/15/2002	496	515
03/15/2002	04/10/2002	628	648
04/10/2002	05/09/2002	747	763
05/09/2002	06/13/2002	768	792
06/13/2002	07/17/2002	554	573
07/17/2002	08/16/2002	871	891
08/16/2002	09/16/2002	961	973
09/16/2002	10/14/2002	810	830
10/14/2002	11/11/2002	730	745
11/11/2002	12/16/2002	906	969
12/16/2002	01/14/2003	557	680
01/14/2003	02/10/2003	799	829
02/10/2003	03/08/2003	803	832
03/08/2003	04/09/2003	851	877
04/09/2003	05/08/2003	787	829
05/08/2003	06/09/2003	1,132	1,160
06/09/2003	07/08/2003	1,022	1,042
07/08/2003	08/11/2003	866	879
08/11/2003	09/10/2003	1,276	1,287
09/10/2003	10/10/2003	1,015	1,040
1 /2003	11/07/2003	1,059	1,059
11/07/2003	12/12/2003	1,156	1,179
12/12/2003	01/09/2004	628	644

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **02401**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Edy's Grand Ice Cream 3426 North Wells Street Fort Wayne, IN 46808	Same

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 403 standards.

..is permit shall become effective on **September 18, 2003**.

This permit and the authorization to discharge wastewater shall expire on **September 18, 2008**.

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

ent via Certified mail to:

Name: Pete Hunter

Permit 02401

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **Edy's Grand Ice cream** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	**Maximum for any one day mg/l**	**Self-Monitoring Frequency**	**Sample Type**
pH (units)	6.0-12.0	1/week	grab
Oil and Grease	3000	1/week	grab

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

C. Location of sampling:

All samples must be collected from the control manhole located along the fence line East of the building. Sampling points shall not be changed without notification to and the approval of the City of Fort Wayne.

D. Basis for pollutant limitations:

The Permittee's pollutant limitations shall be the limitations contained in Chapter 51 and/or the Rules and Regulations.

Edy's

Sample Date	Parameter	Result	Limit
01/22/02	Ammonia-Nitrogen	12.6	25
07/16/02	Ammonia-Nitrogen	5.2	
07/30/02	Ammonia-Nitrogen	7.83	
08/28/02	Ammonia-Nitrogen	9	
10/15/02	Ammonia-Nitrogen	4	
01/09/03	Ammonia-Nitrogen	18	
02/06/03	Ammonia-Nitrogen	9	
04/09/03	Ammonia-Nitrogen	38	
07/01/03	Ammonia-Nitrogen	18.8	
10/24/03	Ammonia-Nitrogen	12	
01/22/02	Biochemical Oxygen Demand 5 Day	11667	300
07/16/02	Biochemical Oxygen Demand 5 Day	7109	
07/30/02	Biochemical Oxygen Demand 5 Day	7123	
08/28/02	Biochemical Oxygen Demand 5 Day	11400	
10/15/02	Biochemical Oxygen Demand 5 Day	9958	
01/09/03	Biochemical Oxygen Demand 5 Day	14106	
02/06/03	Biochemical Oxygen Demand 5 Day	16800	
04/09/03	Biochemical Oxygen Demand 5 Day	4108	
07/01/03	Biochemical Oxygen Demand 5 Day	6936	
10/24/03	Biochemical Oxygen Demand 5 Day	11147	
01/22/02	Chemical Oxygen Demand	17000	600
07/16/02	Chemical Oxygen Demand	10250	
07/30/02	Chemical Oxygen Demand	20960	
08/28/02	Chemical Oxygen Demand	14760	
10/15/02	Chemical Oxygen Demand	14030	
01/09/03	Chemical Oxygen Demand	19760	
02/06/03	Chemical Oxygen Demand	21840	
04/09/03	Chemical Oxygen Demand	5640	
07/01/03	Chemical Oxygen Demand	8820	
10/24/03	Chemical Oxygen Demand	18300	
01/08/02	pH	8.05	6.0-12.0
01/15/02	pH	6.15	
01/22/02	pH	6.7	
01/22/02	pH	6.03	
01/29/02	pH	6.38	
02/04/02	pH	6.9	
02/11/02	pH	7.41	
02/18/02	pH	6.39	
02/26/02	pH	6.98	
03/04/02	pH	6.73	
03/11/02	pH	7.23	
03/18/02	pH	6.83	
03/25/02	pH	7.02	
04/02/02	pH	7.28	
04/09/02	pH	6.54	
04/16/02	pH	7.44	
04/23/02	pH	7.58	
04/29/02	pH	7.92	
05/07/02	pH	6.31	
05/14/02	pH	10.56	
05/21/02	pH	6.03	
05/29/02	pH	10.91	
06/04/02	pH	6.08	
06/11/02	pH	6.63	
06/18/02	pH	6.93	

Edy's

Sample Date	Parameter	Result	Limit
06/25/02	pH	6.36	
07/02/02	pH	6.81	
07/16/02	pH	9.3	
07/16/02	pH	6.17	
07/22/02	pH	9.81	
07/30/02	pH	7	
07/30/02	pH	6.91	
08/06/02	pH	10.22	
08/07/02	pH	6.29	
08/13/02	pH	6.23	
08/20/02	pH	6.39	
08/27/02	pH	7.02	
09/04/02	pH	6.73	
09/10/02	pH	6.49	
09/17/02	pH	9.28	
09/24/02	pH	6.86	
10/07/02	pH	6.11	
10/14/02	pH	10.06	
10/15/02	pH	7.5	
10/21/02	pH	4.91	
10/28/02	pH	5.49	
11/05/02	pH	6.38	
11/12/02	pH	6.65	
11/19/02	pH	5.68	
11/26/02	pH	7.31	
12/02/02	pH	6.59	
12/09/02	pH	6.87	
12/16/02	pH	7.07	
12/20/02	pH	9.6	
12/23/02	pH	6.68	
12/30/02	pH	9.78	
01/07/03	pH	6.11	
01/09/03	pH	7.7	
01/14/03	pH	6.64	
01/21/03	pH	7.2	
01/22/03	pH	6.9	
01/28/03	pH	7.38	
02/03/03	pH	8.38	
02/10/03	pH	7.58	
02/17/03	pH	6.89	
02/24/03	pH	7.63	
03/03/03	pH	7.33	
03/10/03	pH	7.23	
03/17/03	pH	8.68	
03/26/03	pH	6.12	
04/01/03	pH	6.41	
04/08/03	pH	7.2	
04/09/03	pH	6.7	
04/15/03	pH	6.93	
04/22/03	pH	6.11	
04/29/03	pH	6.65	
05/05/03	pH	7.45	
05/12/03	pH	8.23	
05/19/03	pH	6.03	
05/27/03	pH	7.46	

Edy's

Sample Date	Parameter	Result	Limit
06/03/03	pH	8.57	
06/10/03	pH	7.01	
06/17/03	pH	6.03	
06/24/03	pH	7.36	
07/01/03	pH	5.8	
07/01/03	pH	6.04	
07/08/03	pH	6.01	
07/15/03	pH	6.68	
07/22/03	pH	9.96	
07/29/03	pH	7.66	
08/05/03	pH	6.17	
08/12/03	pH	6.94	
08/18/03	pH	6.4	
08/19/03	pH	6.78	
08/26/03	pH	8.94	
09/04/03	pH	9.34	
09/09/03	pH	6.81	
09/16/03	pH	6.33	
09/22/03	pH	6.74	
09/30/03	pH	6.69	
10/07/03	pH	6.59	
10/14/03	pH	7.11	
10/21/03	pH	6.38	
10/24/03	pH	6.1	
10/28/03	pH	6.46	
11/04/03	pH	6.02	
11/11/03	pH	6.28	
11/18/03	pH	5.64	
11/25/03	pH	9.04	
12/02/03	pH	7.31	
12/09/03	pH	5.85	
12/16/03	pH	6.01	
12/23/03	pH	6.01	
12/30/03	pH	7.06	
01/22/02	Tot. Suspended Solids	268	300
07/16/02	Tot. Suspended Solids	2080	
07/30/02	Tot. Suspended Solids	5468	
08/28/02	Tot. Suspended Solids	4310	
10/15/02	Tot. Suspended Solids	2198	
01/09/03	Tot. Suspended Solids	8060	
02/06/03	Tot. Suspended Solids	2190	
04/09/03	Tot. Suspended Solids	1190	
07/01/03	Tot. Suspended Solids	1660	
10/24/03	Tot. Suspended Solids	3140	
01/22/02	Total Phosphorus	62	10
07/16/02	Total Phosphorus	45.7	
07/30/02	Total Phosphorus	80.3	
10/15/02	Total Phosphorus	56	
01/09/03	Total Phosphorus	105	
02/06/03	Total Phosphorus	73	
04/09/03	Total Phosphorus	26	
07/01/03	Total Phosphorus	319	
10/24/03	Total Phosphorus	63	

Site Consumption

Company: EDY'S GRAND ICE CREAM
Site Name:

IWS Number: 4875
Site Number: 1

Begin	End	Water	Sewer
12/17/2001	01/15/2002	4,551	3,962 x100 cft
01/15/2002	02/15/2002	5,345	4,610
02/15/2002	03/18/2002	5,237	4,697
03/18/2002	04/15/2002	5,674	5,005
04/15/2002	05/16/2002	7,140	6,006
05/16/2002	06/14/2002	5,527	4,614
06/14/2002	07/15/2002	7,193	6,512
07/15/2002	08/15/2002	7,274	5,139
08/15/2002	09/17/2002	7,098	5,796
09/17/2002	10/15/2002	5,315	4,416
10/15/2002	11/12/2002	4,543	3,911
11/12/2002	12/16/2002	6,059	5,287
12/16/2002	01/17/2003	4,271	3,904
01/17/2003	02/12/2003	0	4,183
02/12/2003	03/11/2003	4,267	3,931
03/11/2003	04/11/2003	5,167	4,384
04/11/2003	05/12/2003	4,558	3,649
05/12/2003	06/13/2003	5,706	4,482
06/13/2003	07/10/2003	5,150	3,685
07 9/2003	08/12/2003	6,001	4,395
C 2/2003	09/15/2003	6,068	5,173
09/15/2003	10/10/2003	0	3,969
10/10/2003	11/10/2003	4,997	4,997
11/10/2003	12/12/2003	6,405	5,081
12/12/2003	01/15/2004	3,372	2,751

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **03101**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Fort Wayne Anodizing, Inc. 2535 Wayne Trace Fort Wayne, IN 46803	same

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 413 standards.

.s permit shall become effective on **January 30, 2004.**

This permit and the authorization to discharge wastewater shall expire on **January 30, 2009.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

ıt via Certified mail to:

Name: Tom Poiry

Permit 03101

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **Fort Wayne Anodizing, Inc.** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for 4-Day Avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.70	0.69	2/year	composite
Chromium	6.86	3.92	2/year	composite
Copper	2.00	2.65	2/year	composite
Lead	0.59	0.39	2/year	composite
Nickel	3.00	2.55	2/year	composite
Silver	0.30	N/A	Not Required	
Zinc	4.12	2.55	2/year	composite
Cyanide	1.20	0.98	2/year	grab
Total Metals	10.29	6.66		
pH	6.0-12.0		2/month	grab

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

Fort Wayne Anodizing 01

Sample Date	Parameter	Result	Limit
01/09/02	Ammonia-Nitrogen	0.512	25
04/11/02	Ammonia-Nitrogen	0.7	
07/17/02	Ammonia-Nitrogen	0.18	
10/08/02	Ammonia-Nitrogen	0.05	
01/14/03	Ammonia-Nitrogen	1	
04/16/03	Ammonia-Nitrogen	1	
07/16/03	Ammonia-Nitrogen	<3	
10/09/03	Ammonia-Nitrogen	<3	
01/09/02	Biochemical Oxygen Demand 5 Day	7	300
04/11/02	Biochemical Oxygen Demand 5 Day	13	
07/17/02	Biochemical Oxygen Demand 5 Day	22	
10/08/02	Biochemical Oxygen Demand 5 Day	11	
01/14/03	Biochemical Oxygen Demand 5 Day	13	
04/16/03	Biochemical Oxygen Demand 5 Day	9	
07/16/03	Biochemical Oxygen Demand 5 Day	7	
10/09/03	Biochemical Oxygen Demand 5 Day	9	
01/09/02	Cadmium	<0.04	0.69
04/11/02	Cadmium	<0.04	
05/14/02	Cadmium	Not detected	
07/17/02	Cadmium	0.02	
10/08/02	Cadmium	<0.01	
11/21/02	Cadmium	<0.01	
01/14/03	Cadmium	<0.01	
04/16/03	Cadmium	<0.01	
05/13/03	Cadmium	<0.01	
07/16/03	Cadmium	<0.01	
10/09/03	Cadmium	<0.01	
11/20/03	Cadmium	<0.01	
01/09/02	Chemical Oxygen Demand	28	600
04/11/02	Chemical Oxygen Demand	48	
07/17/02	Chemical Oxygen Demand	80	
10/08/02	Chemical Oxygen Demand	24	
01/14/03	Chemical Oxygen Demand	58	
04/16/03	Chemical Oxygen Demand	18	
07/16/03	Chemical Oxygen Demand	32	
10/09/03	Chemical Oxygen Demand	30	
01/09/02	Chromium	0.63	3.92
04/11/02	Chromium	0.21	
05/14/02	Chromium	0.529	
07/17/02	Chromium	0.21	
10/08/02	Chromium	0.01	
11/21/02	Chromium	1.24	
01/14/03	Chromium	0.52	
04/16/03	Chromium	0.17	
05/13/03	Chromium	0.178	
07/16/03	Chromium	1.35	
10/09/03	Chromium	0.17	
11/20/03	Chromium	<0.01	
01/09/02	Copper	0.15	2.00
04/11/02	Copper	0.21	
05/14/02	Copper	0.244	
07/17/02	Copper	0.55	
10/08/02	Copper	0.08	
11/21/02	Copper	0.014	
01/14/03	Copper	0.43	

Fort Wayne Anodizing 01

Sample Date	Parameter	Result	Limit
04/16/03	Copper	0.37	
05/13/03	Copper	0.312	
07/16/03	Copper	0.2	
10/09/03	Copper	0.48	
11/20/03	Copper	0.178	
01/09/02	Lead	<0.04	0.39
04/11/02	Lead	0.14	
05/14/02	Lead	0.051	
07/17/02	Lead	0.26	
10/08/02	Lead	0.03	
11/21/02	Lead	<0.02	
01/14/03	Lead	0.05	
04/16/03	Lead	0.06	
05/13/03	Lead	0.061	
07/16/03	Lead	0.09	
10/09/03	Lead	0.11	
11/20/03	Lead	<0.01	
01/09/02	Mercury	0.000016	0.01
01/14/03	Mercury	0.00012	
01/09/02	Nickel	0.42	3.00
04/11/02	Nickel	0.93	
05/14/02	Nickel	0.327	
07/17/02	Nickel	5.54	
09/06/02	Nickel	0.17	
10/08/02	Nickel	0.07	
11/21/02	Nickel	0.054	
01/14/03	Nickel	0.85	
04/16/03	Nickel	0.61	
05/13/03	Nickel	0.575	
07/16/03	Nickel	0.18	
10/09/03	Nickel	0.42	
11/20/03	Nickel	0.241	
01/02/02	pH	8.2	6.0-12.0
01/09/02	pH	8.9	
01/16/02	pH	8.35	
02/12/02	pH	8.08	
02/25/02	pH	7	
03/04/02	pH	8.14	
03/21/02	pH	7.08	
04/09/02	pH	7.65	
04/11/02	pH	6.6	
04/24/02	pH	7.5	
05/02/02	pH	8.1	
05/14/02	pH	7.9	
07/09/02	pH	8.1	
07/17/02	pH	7.6	
07/23/02	pH	8	
08/08/02	pH	8.24	
08/19/02	pH	8.45	
09/12/02	pH	6.59	
09/23/02	pH	10.5	
10/02/02	pH	7	
10/08/02	pH	7.7	
10/18/02	pH	8	
11/05/02	pH	7.4	

Fort Wayne Anodizing 01

Sample Date	Parameter	Result	Limit
11/21/02	pH	7.32	
12/05/02	pH	7.4	
12/17/02	pH	7.93	
01/08/03	pH	7.1	
01/14/03	pH	9.4	
01/21/03	pH	7	
02/05/03	pH	7.8	
02/20/03	pH	7.15	
03/11/03	pH	7.55	
03/26/03	pH	8.23	
04/08/03	pH	8.25	
04/16/03	pH	6.5	
04/23/03	pH	7.65	
05/02/03	pH	9	
05/13/03	pH	8.91	
06/05/03	pH	7.45	
06/16/03	pH	8.1	
07/08/03	pH	8.4	
07/16/03	pH	7	
07/23/03	pH	8.5	
08/05/03	pH	7.8	
08/19/03	pH	8.55	
09/09/03	pH	7.97	
09/24/03	pH	7.52	
10/09/03	pH	8.2	
10/13/03	pH	7.1	
10/29/03	pH	7.61	
11/03/03	pH	9.1	
11/20/03	pH	9	
12/02/03	pH	7.81	
12/15/03	pH	7.8	
01/09/02	Silver	<0.04	0.3
04/11/02	Silver	<0.04	
07/17/02	Silver	<0.01	
10/08/02	Silver	0.01	
01/14/03	Silver	<0.01	
04/16/03	Silver	<0.01	
07/16/03	Silver	<0.01	
10/09/03	Silver	<0.01	
01/09/02	Tot. Suspended Solids	102	300
04/11/02	Tot. Suspended Solids	386	
07/17/02	Tot. Suspended Solids	342	
10/08/02	Tot. Suspended Solids	45	
01/14/03	Tot. Suspended Solids	262	
04/16/03	Tot. Suspended Solids	238	
07/16/03	Tot. Suspended Solids	127	
10/09/03	Tot. Suspended Solids	372	
01/09/02	Total Cyanide	0.017	0.98
04/11/02	Total Cyanide	0.0072	
05/14/02	Total Cyanide	0.063	
07/17/02	Total Cyanide	0.0022	
11/21/02	Total Cyanide	0.041	
01/14/03	Total Cyanide	0.0019	
04/16/03	Total Cyanide	0.0008	
05/13/03	Total Cyanide	<0.002	

Fort Wayne Anodizing 01

Sample Date	Parameter	Result	Limit
07/16/03	Total Cyanide	0.394	
10/09/03	Total Cyanide	0.006	
11/20/03	Total Cyanide	0.023	
01/09/02	Total Metal (40CFR413)	1.29	6.66
04/11/02	Total Metal (40CFR413)	1.51	
07/17/02	Total Metal (40CFR413)	6.53	
10/08/02	Total Metal (40CFR413)	0.21	
01/14/03	Total Metal (40CFR413)	1.98	
04/16/03	Total Metal (40CFR413)	1.31	
07/16/03	Total Metal (40CFR413)	1.88	
10/09/03	Total Metal (40CFR413)	1.26	
01/09/02	Total Phosphorus	4.7	10
04/11/02	Total Phosphorus	11.8	
07/17/02	Total Phosphorus	1.8	
10/08/02	Total Phosphorus	0.514	
01/14/03	Total Phosphorus	17	
04/16/03	Total Phosphorus	3	
07/16/03	Total Phosphorus	4	
10/09/03	Total Phosphorus	2	
01/09/02	Zinc	0.09	2.55
04/11/02	Zinc	0.16	
05/14/02	Zinc	0.205	
07/17/02	Zinc	0.23	
10/08/02	Zinc	0.05	
11/21/02	Zinc	<0.01	
01/14/03	Zinc	0.18	
04/16/03	Zinc	0.16	
05/13/03	Zinc	0.228	
07/16/03	Zinc	0.15	
10/09/03	Zinc	0.19	
11/20/03	Zinc	0.086	

Site Consumption

ny: FW ANODIZING
Name: FW ANODIZING 01

IWS Number: 2087
Site Number: 1

Begin	End	Water	Sewer
.2/04/2001	01/04/2002	1,166	3,372
)1/04/2002	01/30/2002	901	2,501
)1/30/2002	03/04/2002	971	971
)3/04/2002	04/02/2002	932	2,192
)4/02/2002	05/02/2002	1,118	2,605
)5/02/2002	06/05/2002	897	2,376
)6/05/2002	07/02/2002	815	2,149
)7/02/2002	08/05/2002	1,207	2,735
)8/05/2002	08/30/2002	1,006	2,351
)8/30/2002	10/02/2002	1,292	2,917
L0/02/2002	11/01/2002	970	970
L1/01/2002	12/02/2002	715	1,865
L2/02/2002	01/03/2003	969	2,047
)1/03/2003	01/29/2003	1,417	2,544
)1/29/2003	03/04/2003	1,826	3,408
)3/04/2003	04/04/2003	1,561	2,626
)4/04/2003	05/05/2003	1,357	3,141
)5/05/2003	06/06/2003	1,128	2,931
)6/06/2003	07/01/2003	1,128	2,581
)7/01/2003	08/01/2003	1,356	2,682
)8/01/2003	09/01/2003	1,569	3,153
)9/01/2003	10/01/2003	994	2,576
1 /2003	10/30/2003	1,373	1,373
L0/30/2003	11/25/2003	852	2,039
L1/25/2003	12/30/2003	815	1,967

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **03102**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Fort Wayne Anodizing, Inc. 2535 Wayne Trace Fort Wayne, IN 46803	same

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 413 standards.

This permit shall become effective on **January 30, 2004.**

...is permit and the authorization to discharge wastewater shall expire on **January 30, 2009.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

Sent via Certified mail to:

...me: Tom Poiry

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **Fort Wayne Anodizing, Inc.** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for 4-Day Avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.70	0.69	2/year	composite
Chromium	6.86	3.92	2/year	composite
Copper	2.00	2.65	2/year	composite
Lead	0.59	0.39	2/year	composite
Nickel	3.00	2.55	2/year	composite
Silver	0.30	N/A	Not Required	
Zinc	4.12	2.55	2/year	composite
Cyanide	1.20	0.98	2/year	grab
Total Metals	10.29	6.66		
pH	6.0-12.0		2/month	grab

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours).

Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

Fort Wayne Anodizing 02

Sample Date	Parameter	Result	Limit
01/09/02	Ammonia-Nitrogen	0.393	25
04/11/02	Ammonia-Nitrogen	0.3	
07/17/02	Ammonia-Nitrogen	0.113	
10/08/02	Ammonia-Nitrogen	0.26	
01/14/03	Ammonia-Nitrogen	1	
04/16/03	Ammonia-Nitrogen	1	
07/17/03	Ammonia-Nitrogen	<3	
10/09/03	Ammonia-Nitrogen	<3	
01/09/02	Biochemical Oxygen Demand 5 Day	29	300
04/11/02	Biochemical Oxygen Demand 5 Day	2	
07/17/02	Biochemical Oxygen Demand 5 Day	test failed	
10/08/02	Biochemical Oxygen Demand 5 Day	8	
01/14/03	Biochemical Oxygen Demand 5 Day	16	
04/16/03	Biochemical Oxygen Demand 5 Day	8	
07/17/03	Biochemical Oxygen Demand 5 Day	6	
10/09/03	Biochemical Oxygen Demand 5 Day	8	
01/09/02	Cadmium	<0.04	0.69
04/11/02	Cadmium	<0.04	
05/14/02	Cadmium	Not detected	
07/17/02	Cadmium	<0.01	
10/08/02	Cadmium	<0.01	
11/21/02	Cadmium	<0.01	
01/14/03	Cadmium	<0.01	
04/16/03	Cadmium	<0.01	
05/13/03	Cadmium	<0.01	
07/17/03	Cadmium	<0.01	
10/09/03	Cadmium	<0.01	
11/20/03	Cadmium	<0.01	
01/09/02	Chemical Oxygen Demand	127	600
04/11/02	Chemical Oxygen Demand	50	
07/17/02	Chemical Oxygen Demand	76	
10/08/02	Chemical Oxygen Demand	23	
01/14/03	Chemical Oxygen Demand	75	
04/16/03	Chemical Oxygen Demand	66	
07/17/03	Chemical Oxygen Demand	16	
10/09/03	Chemical Oxygen Demand	33	
01/09/02	Chromium	<0.04	3.92
04/11/02	Chromium	<0.04	
05/14/02	Chromium	0.04	
07/17/02	Chromium	0.02	
10/08/02	Chromium	0.43	
11/21/02	Chromium	0.015	
01/14/03	Chromium	0.02	
04/16/03	Chromium	<0.01	
05/13/03	Chromium	0.012	
07/17/03	Chromium	0.03	
10/09/03	Chromium	0.1	
11/20/03	Chromium	0.161	
01/09/02	Copper	0.08	2.65
04/11/02	Copper	<0.04	
05/14/02	Copper	0.121	
07/17/02	Copper	0.03	
10/08/02	Copper	0.28	
11/21/02	Copper	0.022	
01/14/03	Copper	0.14	

Fort Wayne Anodizing 02

Sample Date	Parameter	Result	Limit
04/16/03	Copper	0.04	
05/13/03	Copper	0.04	
07/17/03	Copper	0.1	
10/09/03	Copper	0.27	
11/20/03	Copper	0.196	
01/09/02	Lead	<0.04	0.39
04/11/02	Lead	<0.04	
05/14/02	Lead	Not detected	
07/17/02	Lead	<0.01	
10/08/02	Lead	0.04	
11/21/02	Lead	<0.02	
01/14/03	Lead	<0.02	
04/16/03	Lead	<0.03	
05/13/03	Lead	<0.02	
07/17/03	Lead	0.03	
10/09/03	Lead	0.06	
11/20/03	Lead	<0.01	
01/09/02	Mercury	<0.000016	0.01
01/14/03	Mercury	<0.000005	
01/09/02	Nickel	<0.04	2.55
04/11/02	Nickel	<0.04	
05/14/02	Nickel	0.095	
07/17/02	Nickel	0.02	
10/08/02	Nickel	0.45	
11/21/02	Nickel	0.03	
01/14/03	Nickel	0.02	
04/16/03	Nickel	0.08	
05/13/03	Nickel	0.032	
07/17/03	Nickel	0.1	
10/09/03	Nickel	0.29	
11/20/03	Nickel	0.559	
01/02/02	pH	8.28	6.0-12.0
01/09/02	pH	9	
01/16/02	pH	7.2	
02/12/02	pH	8.75	
02/25/02	pH	8.79	
03/04/02	pH	8.96	
03/21/02	pH	6.6	
04/09/02	pH	10	
04/11/02	pH	7.8	
04/27/02	pH	9.1	
05/02/02	pH	9.51	
05/14/02	pH	9.5	
07/09/02	pH	9.4	
07/17/02	pH	10	
07/23/02	pH	9.3	
08/08/02	pH	9	
08/19/02	pH	9.1	
09/12/02	pH	9.9	
09/23/02	pH	7.55	
10/02/02	pH	8.4	
10/08/02	pH	6.9	
10/18/02	pH	9.26	
11/05/02	pH	9.8	
11/21/02	pH	9.1	

Fort Wayne Anodizing 02

Sample Date	Parameter	Result	Limit
12/05/02	pH	8.9	
12/17/02	pH	8.36	
01/08/03	pH	7.9	
01/14/03	pH	9.8	
01/21/03	pH	9.1	
02/05/03	pH	9.75	
02/20/03	pH	9.1	
03/11/03	pH	8	
03/26/03	pH	9.5	
04/08/03	pH	9.04	
04/16/03	pH	11.3	
04/23/03	pH	9.11	
05/02/03	pH	8.1	
05/13/03	pH	8.66	
06/05/03	pH	8.22	
06/16/03	pH	7.32	
07/08/03	pH	9.1	
07/17/03	pH	8.4	
07/23/03	pH	9	
08/05/03	pH	9	
08/19/03	pH	9.21	
09/09/03	pH	9.25	
09/24/03	pH	9.1	
10/09/03	pH	9.4	
10/13/03	pH	7.7	
10/29/03	pH	8.77	
11/03/03	pH	8.31	
11/20/03	pH	8.75	
12/02/03	pH	9.1	
12/15/03	pH	8.75	
01/09/02	Silver	<0.04	0.3
04/11/02	Silver	<0.04	
07/17/02	Silver	<0.01	
10/08/02	Silver	<0.01	
01/14/03	Silver	<0.01	
04/16/03	Silver	<0.01	
07/17/03	Silver	<0.01	
10/09/03	Silver	<0.01	
01/09/02	Tot. Suspended Solids	36	300
04/11/02	Tot. Suspended Solids	4	
07/17/02	Tot. Suspended Solids	160	
10/08/02	Tot. Suspended Solids	230	
01/14/03	Tot. Suspended Solids	142	
04/16/03	Tot. Suspended Solids	9	
07/17/03	Tot. Suspended Solids	72	
10/09/03	Tot. Suspended Solids	28	
01/09/02	Total Cyanide	0.0032	0.98
04/11/02	Total Cyanide	0.0025	
05/14/02	Total Cyanide	0.042	
07/17/02	Total Cyanide	0.0047	
11/21/02	Total Cyanide	<0.002	
01/14/03	Total Cyanide	0.011	
04/16/03	Total Cyanide	0.004	
05/13/03	Total Cyanide	0.039	
07/17/03	Total Cyanide	0.009	

Fort Wayne Anodizing 02

Sample Date	Parameter	Result	Limit
10/09/03	Total Cyanide	0.002	
11/20/03	Total Cyanide	0.046	
01/09/02	Total Metal (40CFR413)	0.16	6.66
04/11/02	Total Metal (40CFR413)	0.08	
07/17/02	Total Metal (40CFR413)	0.13	
10/08/02	Total Metal (40CFR413)	1.39	
01/14/03	Total Metal (40CFR413)	0.27	
04/16/03	Total Metal (40CFR413)	0.21	
07/17/03	Total Metal (40CFR413)	0.29	
10/09/03	Total Metal (40CFR413)	0.82	
01/09/02	Total Phosphorus	0.1	10
04/11/02	Total Phosphorus	<0.06	
07/17/02	Total Phosphorus	0.092	
10/08/02	Total Phosphorus	3	
01/14/03	Total Phosphorus	0.546	
04/16/03	Total Phosphorus	< 0.06	
07/17/03	Total Phosphorus	1	
10/09/03	Total Phosphorus	0.046	
01/09/02	Zinc	0.04	2.55
04/11/02	Zinc	<0.04	
05/14/02	Zinc	0.051	
07/17/02	Zinc	0.06	
10/08/02	Zinc	0.23	
11/21/02	Zinc	<0.01	
01/14/03	Zinc	0.09	
04/16/03	Zinc	0.03	
05/13/03	Zinc	0.036	
07/17/03	Zinc	0.06	
10/09/03	Zinc	0.16	
11/20/03	Zinc	0.097	

ompany: FW ANODIZING
ite Name: FW ANODIZING 02

IWS Number: 2087
Site Number: 2

in	End	Water	Sewer
2/04/2001	01/04/2002	5,000	5,000
1/04/2002	01/30/2002	1,064	1,064
1/30/2002	03/04/2002	3,331	2,582
3/04/2002	04/02/2002	3,001	3,001
4/02/2002	05/02/2002	2,759	2,759
5/02/2002	06/05/2002	2,570	2,570
6/05/2002	07/02/2002	1,964	1,964
7/02/2002	08/05/2002	2,333	2,333
8/05/2002	08/30/2002	2,008	2,008
8/30/2002	10/02/2002	2,546	2,546
0/02/2002	11/01/2002	1,940	1,940
1/01/2002	12/02/2002	1,851	1,851
2/02/2002	01/03/2003	1,877	1,877
1/03/2003	01/29/2003	1,794	1,794
1/29/2003	03/04/2003	2,337	2,337
3/04/2003	04/04/2003	1,649	1,649
4/04/2003	05/05/2003	4,811	2,471
5/05/2003	06/06/2003	2,340	2,340
6/06/2003	07/01/2003	2,096	2,096
7/01/2003	08/01/2003	2,028	2,028
8/01/2003	09/01/2003	2,113	2,113
9/01/2003	10/01/2003	1,763	1,763
10/01/2003	10/30/2003	2,304	2,304
10 /2003	11/25/2003	1,587	1,587
/2003	12/30/2003	2,028	2,028

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **03301**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:

Fort Wayne Newspapers
600 West Main Street
Fort Wayne, IN 46802

Mailing Address:

Fort Wayne Newspapers, Inc.
P.O. Box 100
Fort Wayne, IN 46801-0100

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 403 standards.

This permit shall become effective on **August 14, 2003.**

.nis permit and the authorization to discharge wastewater shall expire on **August 14, 2008.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

Sent via Certified mail to:

ame: Denzil Cogar

Permit 03301

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **Fort Wayne Newspapers** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Self-Monitoring Frequency	Sample Type
pH	6.0-12.0	2/month	grab
Silver	4.0	2/month	composite
TPH (Total Petroleum Hydrocarbons)	100	2/month	grab

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

C. Location of sampling:

All samples must be collected from the control manhole located in the sidewalk along Main Street. Sampling points shall not be changed without notification to and the approval of the City of Fort Wayne.

Fort Wayne Newspapers

Sample Date	Parameter	Result	Limit
01/30/02	Ammonia-Nitrogen	31	25.00
05/22/02	Ammonia-Nitrogen	40.2	
08/27/02	Ammonia-Nitrogen	95.4	
11/06/02	Ammonia-Nitrogen	160	
12/03/02	Ammonia-Nitrogen	48	
02/06/03	Ammonia-Nitrogen	49	
05/28/03	Ammonia-Nitrogen	70	
08/12/03	Ammonia-Nitrogen	40	
11/04/03	Ammonia-Nitrogen	40	
01/30/02	Biochemical Oxygen Demand 5 Day	211	300.00
05/22/02	Biochemical Oxygen Demand 5 Day	284	
08/27/02	Biochemical Oxygen Demand 5 Day	1677	
11/06/02	Biochemical Oxygen Demand 5 Day	4998	
12/03/02	Biochemical Oxygen Demand 5 Day	592	
02/06/03	Biochemical Oxygen Demand 5 Day	682	
05/28/03	Biochemical Oxygen Demand 5 Day	840	
08/12/03	Biochemical Oxygen Demand 5 Day	654	
11/04/03	Biochemical Oxygen Demand 5 Day	337	
01/30/02	Cadmium	<0.04	0.70
05/22/02	Cadmium	<0.04	
08/27/02	Cadmium	<0.01	
11/06/02	Cadmium	<0.01	
02/06/03	Cadmium	<0.01	
05/28/03	Cadmium	<0.01	
08/12/03	Cadmium	<0.01	
11/04/03	Cadmium	<0.01	
01/30/02	Chemical Oxygen Demand	628	600.00
05/22/02	Chemical Oxygen Demand	1076	
08/27/02	Chemical Oxygen Demand	3492	
11/06/02	Chemical Oxygen Demand	12880	
12/03/02	Chemical Oxygen Demand	3400	
02/06/03	Chemical Oxygen Demand	2932	
05/28/03	Chemical Oxygen Demand	2758	
08/12/03	Chemical Oxygen Demand	1500	
11/04/03	Chemical Oxygen Demand	980	
01/30/02	Chromium	<0.04	10.00
05/22/02	Chromium	<0.04	
08/27/02	Chromium	0.04	
11/06/02	Chromium	1.01	
02/06/03	Chromium	0.2	
05/28/03	Chromium	0.08	
08/12/03	Chromium	0.21	
11/04/03	Chromium	0.07	
01/30/02	Copper	0.06	2.00
05/22/02	Copper	<0.04	
08/27/02	Copper	0.32	
11/06/02	Copper	7.8	
12/04/02	Copper	1.41	
12/26/02	Copper	1.55	
02/06/03	Copper	1.68	
05/28/03	Copper	0.24	
08/12/03	Copper	0.08	
11/04/03	Copper	0.03	
01/30/02	Lead	<0.04	0.60
05/22/02	Lead	<0.04	

Fort Wayne Newspapers

Sample Date	Parameter	Result	Limit
08/27/02	Lead	0.08	
11/06/02	Lead	6.47	
12/04/02	Lead	0.06	
12/26/02	Lead	0.02	
02/06/03	Lead	<0.02	
05/28/03	Lead	0.51	
08/12/03	Lead	<0.03	
11/04/03	Lead	<0.03	
01/30/02	Mercury	0.0002	0.01
02/06/03	Mercury	0.000015	
01/30/02	Nickel	<0.04	3.00
05/22/02	Nickel	<0.04	
08/27/02	Nickel	0.02	
11/06/02	Nickel	0.13	
02/06/03	Nickel	<0.01	
05/28/03	Nickel	0.02	
08/12/03	Nickel	<0.01	
11/04/03	Nickel	<0.01	
01/02/02	pH	7.92	6.0-12.0
01/15/02	pH	7.14	
01/28/02	pH	6.94	
01/30/02	pH	6.5	
02/06/02	pH	7.12	
02/18/02	pH	6.91	
03/13/02	pH	7.42	
03/20/02	pH	6.88	
04/10/02	pH	7.35	
04/24/02	pH	8.03	
05/16/02	pH	6.6	
05/22/02	pH	7.7	
05/24/02	pH	6.72	
06/14/02	pH	7.81	
06/20/02	pH	7.16	
07/02/02	pH	7.56	
07/17/02	pH	6.17	
08/06/02	pH	6.78	
08/20/02	pH	7.48	
08/27/02	pH	8.2	
09/11/02	pH	7.24	
09/25/02	pH	7.19	
10/01/02	pH	8.73	
10/15/02	pH	7.22	
11/05/02	pH	7.31	
11/06/02	pH	6.5	
11/19/02	pH	7.49	
12/04/02	pH	8.22	
12/17/02	pH	7.92	
01/16/03	pH	8.35	
01/21/03	pH	7.22	
02/04/03	pH	8.21	
02/06/03	pH	8.8	
02/18/03	pH	7.58	
03/04/03	pH	7.18	
03/18/03	pH	8.4	
04/01/03	pH	7.89	

Fort Wayne Newspapers

Sample Date	Parameter	Result	Limit
04/15/03	pH	7.64	
05/06/03	pH	7.37	
05/20/03	pH	7.49	
05/28/03	pH	8	
06/03/03	pH	6.84	
06/17/03	pH	7.72	
07/08/03	pH	8.83	
07/29/03	pH	7.52	
08/05/03	pH	6.61	
08/12/03	pH	8.3	
08/15/03	pH	7.72	
09/09/03	pH	7.53	
09/23/03	pH	8.36	
10/07/03	pH	7.75	
10/21/03	pH	8.66	
11/04/03	pH	Scratched	
11/11/03	pH	7.33	
11/20/03	pH	8.16	
12/09/03	pH	7.17	
12/23/03	pH	6.68	
01/02/02	Silver	0.59	4.00
01/15/02	Silver	3.73	
01/18/02	Silver	0.75	
01/18/02	Silver	0.53	
01/28/02	Silver	0.27	
01/30/02	Silver	1.78	
02/06/02	Silver	0.25	
02/11/02	Silver	0.6	
02/18/02	Silver	0.14	
03/13/02	Silver	0.79	
03/20/02	Silver	0.17	
04/10/02	Silver	0.57	
04/24/02	Silver	0.25	
05/16/02	Silver	1.12	
05/22/02	Silver	0.45	
05/24/02	Silver	1.25	
06/14/02	Silver	0.75	
06/20/02	Silver	0.5	
07/02/02	Silver	0.39	
07/17/02	Silver	2.22	
08/06/02	Silver	0.85	
08/20/02	Silver	0.44	
08/27/02	Silver	0.6	
08/28/02	Silver	0.72	
09/11/02	Silver	0.2	
09/25/02	Silver	1.14	
10/01/02	Silver	0.87	
10/15/02	Silver	0.91	
11/05/02	Silver	0.75	
11/06/02	Silver	3.56	
11/07/02	Silver	39.9	
11/19/02	Silver	0.12	
12/04/02	Silver	0.57	
12/04/02	Silver	0.81	
12/04/02	Silver	0.57	

Fort Wayne Newspapers

Sample Date	Parameter	Result	Limit
12/17/02	Silver	0.48	
12/27/02	Silver	1.36	
01/16/03	Silver	1.31	
01/21/03	Silver	0.6	
02/04/03	Silver	0.44	
02/06/03	Silver	2.89	
02/07/03	Silver	2.64	
02/18/03	Silver	0.19	
03/04/03	Silver	0.47	
03/18/03	Silver	1.7	
04/01/03	Silver	0.79	
04/15/03	Silver	1.8	
05/06/03	Silver	1.6	
05/20/03	Silver	0.26	
05/28/03	Silver	0.82	
06/03/03	Silver	1.1	
06/17/03	Silver	0.71	
07/08/03	Silver	0.36	
07/29/03	Silver	1.24	
08/05/03	Silver	2.92	
08/12/03	Silver	0.53	
08/12/03	Silver	0.48	
08/15/03	Silver	0.47	
09/09/03	Silver	0.34	
09/23/03	Silver	2.49	
10/07/03	Silver	0.31	
10/21/03	Silver	0.31	
11/04/03	Silver	0.42	
11/05/03	Silver	0.47	
11/11/03	Silver	0.35	
11/20/03	Silver	0.67	
12/09/03	Silver	0.1	
12/23/03	Silver	0.2	
01/30/02	Tot. Suspended Solids	108	300.00
05/22/02	Tot. Suspended Solids	232	
08/27/02	Tot. Suspended Solids	2070	
11/06/02	Tot. Suspended Solids	6940	
12/03/02	Tot. Suspended Solids	585	
02/06/03	Tot. Suspended Solids	860	
05/28/03	Tot. Suspended Solids	1615	
08/12/03	Tot. Suspended Solids	86	
11/04/03	Tot. Suspended Solids	253	
02/06/02	Total Petroleum Hydrocarbon	5	100.00
02/18/02	Total Petroleum Hydrocarbon	<5	
04/10/02	Total Petroleum Hydrocarbon	35	
04/24/02	Total Petroleum Hydrocarbon	60	
05/16/02	Total Petroleum Hydrocarbon	60	
05/24/02	Total Petroleum Hydrocarbon	31	
06/14/02	Total Petroleum Hydrocarbon	61	
06/20/02	Total Petroleum Hydrocarbon	<5	
08/06/02	Total Petroleum Hydrocarbon	26	
08/20/02	Total Petroleum Hydrocarbon	24	
09/11/02	Total Petroleum Hydrocarbon	39	
09/25/02	Total Petroleum Hydrocarbon	90	
10/01/02	Total Petroleum Hydrocarbon	88	

Fort Wayne Newspapers

Sample Date	Parameter	Result	Limit
10/15/02	Total Petroleum Hydrocarbon	8	
11/05/02	Total Petroleum Hydrocarbon	21	
11/19/02	Total Petroleum Hydrocarbon	9	
12/04/02	Total Petroleum Hydrocarbon	<5	
12/17/02	Total Petroleum Hydrocarbon	<5	
01/16/03	Total Petroleum Hydrocarbon	21	
01/21/03	Total Petroleum Hydrocarbon	15	
02/04/03	Total Petroleum Hydrocarbon	13	
02/06/03	Total Petroleum Hydrocarbon	54	
02/18/03	Total Petroleum Hydrocarbon	<5.0	
03/04/03	Total Petroleum Hydrocarbon	12	
03/18/03	Total Petroleum Hydrocarbon	35	
04/01/03	Total Petroleum Hydrocarbon	70	
04/15/03	Total Petroleum Hydrocarbon	102	
05/06/03	Total Petroleum Hydrocarbon	55	
05/20/03	Total Petroleum Hydrocarbon	21	
06/03/03	Total Petroleum Hydrocarbon	40	
06/17/03	Total Petroleum Hydrocarbon	69	
07/08/03	Total Petroleum Hydrocarbon	26	
07/29/03	Total Petroleum Hydrocarbon	7	
08/05/03	Total Petroleum Hydrocarbon	66	
08/12/03	Total Petroleum Hydrocarbon	<44	
08/15/03	Total Petroleum Hydrocarbon	11	
09/09/03	Total Petroleum Hydrocarbon	34	
09/23/03	Total Petroleum Hydrocarbon	23	
10/07/03	Total Petroleum Hydrocarbon	67	
10/21/03	Total Petroleum Hydrocarbon	36	
11/04/03	Total Petroleum Hydrocarbon	void	
11/11/03	Total Petroleum Hydrocarbon	<5.0	
11/20/03	Total Petroleum Hydrocarbon	28	
12/09/03	Total Petroleum Hydrocarbon	15	
12/23/03	Total Petroleum Hydrocarbon	<5.0	
01/30/02	Total Phosphorus	3.5	10.00
05/22/02	Total Phosphorus	4.5	
07/02/02	Total Phosphorus	16	
07/17/02	Total Phosphorus	115	
08/27/02	Total Phosphorus	44	
11/06/02	Total Phosphorus	134	
12/03/02	Total Phosphorus	80	
02/06/03	Total Phosphorus	9	
05/28/03	Total Phosphorus	28	
08/12/03	Total Phosphorus	13	
11/04/03	Total Phosphorus	4	
01/30/02	Zinc	0.08	6.00
05/22/02	Zinc	0.13	
08/27/02	Zinc	0.99	
11/06/02	Zinc	4.2	
02/06/03	Zinc	0.15	
05/28/03	Zinc	0.68	
08/12/03	Zinc	0.4	
11/04/03	Zinc	0.18	

Site Consumption

ɔmpany: FW NEWSPAPERS INC
ite Name:

IWS Number: 4782
Site Number: 1

Begin	End	Water	Sewer
2/05/2001	01/04/2002	250	238
1/04/2002	02/04/2002	229	229
2/04/2002	03/01/2002	338	338
3/01/2002	04/03/2002	363	351
4/03/2002	05/03/2002	471	372
5/03/2002	06/04/2002	568	409
6/04/2002	07/05/2002	642	356
7/05/2002	07/31/2002	695	348
7/31/2002	08/31/2002	868	429
8/31/2002	10/03/2002	618	353
0/03/2002	10/30/2002	435	366
0/30/2002	12/03/2002	477	463
2/03/2002	01/03/2003	392	392
1/03/2003	02/01/2003	321	321
2/01/2003	02/27/2003	283	283
2/27/2003	03/27/2003	281	281
3/27/2003	04/29/2003	380	276
4/29/2003	05/29/2003	501	337
5/29/2003	06/30/2003	543	292
6/ /2003	07/30/2003	688	312
/2003	08/29/2003	753	351
8/29/2003	09/30/2003	517	283
9/30/2003	10/30/2003	475	475
.0/30/2003	12/02/2003	476	361
.2/02/2003	01/02/2004	284	284

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **03501**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Franke Plating Works, Inc. 2109 East Washington Blvd. Fort Wayne, IN 46803	Same

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 413 standards.

This permit shall become effective on **October 31, 2003.**

This permit and the authorization to discharge wastewater shall expire on **October 31, 2008.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

Sent via Certified mail to:

Name: Warren Franke

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **Franke Plating Works, Inc.** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for 4-Day Avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.70	0.50	1/week	composite
Chromium	4.97	2.84	1/week	composite
Copper	2.00	1.92	1/week	composite
Lead	0.43	0.28	2/year	composite
Nickel	2.91	1.85	1/week	composite
Silver	0.30	0.50	2/year	composite
Zinc	2.98	1.85	1/week	composite
Cyanide	1.20	0.71	1/week	grab
pH	6.0-12.0		1/week	grab
Total Metals	7.46	4.83	N/A	N/A

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

Franke Plating

Sample Date	Parameter	Result	Limit
01/09/02	Ammonia-Nitrogen	9.3	25
04/18/02	Ammonia-Nitrogen	36.5	
07/16/02	Ammonia-Nitrogen	3.4	
10/09/02	Ammonia-Nitrogen	3	
02/05/03	Ammonia-Nitrogen	6	
04/15/03	Ammonia-Nitrogen	2	
07/15/03	Ammonia-Nitrogen	<3	
10/21/03	Ammonia-Nitrogen	<3	
01/09/02	Biochemical Oxygen Demand 5 Day	20	300
04/18/02	Biochemical Oxygen Demand 5 Day	25	
07/16/02	Biochemical Oxygen Demand 5 Day	12	
10/09/02	Biochemical Oxygen Demand 5 Day	5	
02/05/03	Biochemical Oxygen Demand 5 Day	33	
04/15/03	Biochemical Oxygen Demand 5 Day	12	
07/15/03	Biochemical Oxygen Demand 5 Day	7	
10/21/03	Biochemical Oxygen Demand 5 Day	8	
01/02/02	Cadmium	0.13	0.7
01/09/02	Cadmium	0.24	
01/10/02	Cadmium	0.23	
01/16/02	Cadmium	0.13	
02/06/02	Cadmium	0.16	
02/20/02	Cadmium	<0.01	
04/10/02	Cadmium	0.15	
04/17/02	Cadmium	0.41	
04/18/02	Cadmium	0.15	
04/18/02	Cadmium	0.14	
04/24/02	Cadmium	<0.01	
04/29/02	Cadmium	0.04	
05/02/02	Cadmium	0.57	
05/16/02	Cadmium	0.24	
06/13/02	Cadmium	0.1	
06/27/02	Cadmium	0.02	
07/10/02	Cadmium	0.06	
07/16/02	Cadmium	0.06	
07/17/02	Cadmium	0.05	
07/24/02	Cadmium	0.07	
08/01/02	Cadmium	0.15	
08/07/02	Cadmium	0.03	
08/15/02	Cadmium	0.04	
08/22/02	Cadmium	0.03	
08/29/02	Cadmium	0.07	
09/06/02	Cadmium	0.03	
09/10/02	Cadmium	0.05	
09/17/02	Cadmium	0.03	
09/25/02	Cadmium	0.01	
10/01/02	Cadmium	0.04	
10/08/02	Cadmium	0.05	
10/09/02	Cadmium	0.06	
10/10/02	Cadmium	0.05	
10/15/02	Cadmium	0.05	
10/22/02	Cadmium	0.03	
10/29/02	Cadmium	0.07	
11/04/02	Cadmium	0.01	
11/08/02	Cadmium	0.4	
11/08/02	Cadmium	0.39	

Franke Plating

Sample Date	Parameter	Result	Limit
11/09/02	Cadmium	0.2	
11/09/02	Cadmium	0.23	
11/11/02	Cadmium	0.03	
11/15/02	Cadmium	0.04	
11/18/02	Cadmium	0.17	
11/25/02	Cadmium	0.06	
12/02/02	Cadmium	0.01	
12/09/02	Cadmium	0.12	
12/16/02	Cadmium	0.28	
12/26/02	Cadmium	<0.01	
12/30/02	Cadmium	0.48	
01/06/03	Cadmium	0.08	
01/13/03	Cadmium	0.58	
01/20/03	Cadmium	0.26	
01/27/03	Cadmium	0.07	
02/03/03	Cadmium	0.16	
02/05/03	Cadmium	0.07	
02/06/03	Cadmium	0.06	
02/10/03	Cadmium	0.09	
02/17/03	Cadmium	0.08	
02/24/03	Cadmium	0.06	
03/03/03	Cadmium	0.29	
03/10/03	Cadmium	0.03	
03/17/03	Cadmium	0.05	
03/24/03	Cadmium	0.46	
03/31/03	Cadmium	0.05	
04/07/03	Cadmium	0.04	
04/14/03	Cadmium	0.02	
04/15/03	Cadmium	0.05	
04/16/03	Cadmium	0.04	
04/21/03	Cadmium	0.08	
04/28/03	Cadmium	0.07	
05/05/03	Cadmium	0.01	
05/12/03	Cadmium	<0.01	
05/20/03	Cadmium	0.02	
05/27/03	Cadmium	0.03	
06/02/03	Cadmium	0.06	
06/09/03	Cadmium	0.01	
06/16/03	Cadmium	0.02	
06/23/03	Cadmium	0.06	
06/30/03	Cadmium	0.36	
07/07/03	Cadmium	0.02	
07/14/03	Cadmium	0.1	
07/15/03	Cadmium	0.02	
07/21/03	Cadmium	0.03	
07/24/03	Cadmium	0.03	
07/28/03	Cadmium	0.01	
08/04/03	Cadmium	0.02	
08/11/03	Cadmium	<0.01	
08/19/03	Cadmium	0.01	
08/25/03	Cadmium	0.59	
09/02/03	Cadmium	0.12	
09/08/03	Cadmium	0.1	
09/15/03	Cadmium	0.39	
09/22/03	Cadmium	0.07	

Franke Plating

Sample Date	Parameter	Result	Limit
09/29/03	Cadmium	<0.01	
10/06/03	Cadmium	0.04	
10/13/03	Cadmium	0.32	
10/16/03	Cadmium	1.02	
10/20/03	Cadmium	0.05	
10/21/03	Cadmium	0.04	
10/22/03	Cadmium	0.04	
10/27/03	Cadmium	0.02	
11/03/03	Cadmium	0.03	
11/10/03	Cadmium	0.03	
11/17/03	Cadmium	0.08	
11/25/03	Cadmium	0.02	
12/01/03	Cadmium	0.07	
12/08/03	Cadmium	0.04	
12/15/03	Cadmium	0.05	
12/16/03	Cadmium	0.04	
12/22/03	Cadmium	0.09	
12/29/03	Cadmium	0.03	
01/09/02	Chemical Oxygen Demand	89	600
04/18/02	Chemical Oxygen Demand	114	
07/16/02	Chemical Oxygen Demand	35	
10/09/02	Chemical Oxygen Demand	< 14	
02/05/03	Chemical Oxygen Demand	86	
04/15/03	Chemical Oxygen Demand	23	
07/15/03	Chemical Oxygen Demand	10	
10/21/03	Chemical Oxygen Demand	26	
01/02/02	Chromium	0.52	4.97
01/09/02	Chromium	0.1	
01/10/02	Chromium	0.12	
01/16/02	Chromium	0.06	
02/06/02	Chromium	0.07	
02/20/02	Chromium	1.91	
04/10/02	Chromium	0.35	
04/17/02	Chromium	6.69	
04/18/02	Chromium	0.17	
04/18/02	Chromium	0.15	
04/24/02	Chromium	0.01	
04/29/02	Chromium	0.3	
05/02/02	Chromium	0.45	
05/16/02	Chromium	0.09	
06/13/02	Chromium	0.08	
06/18/02	Chromium	0.15	
06/27/02	Chromium	0.05	
07/10/02	Chromium	0.29	
07/16/02	Chromium	0.35	
07/17/02	Chromium	0.31	
07/24/02	Chromium	0.44	
08/01/02	Chromium	0.06	
08/07/02	Chromium	0.04	
08/15/02	Chromium	0.08	
08/22/02	Chromium	0.05	
08/29/02	Chromium	0.09	
09/06/02	Chromium	0.03	
09/10/02	Chromium	0.54	
09/17/02	Chromium	0.1	

Franke Plating

Sample Date	Parameter	Result	Limit
09/25/02	Chromium	<0.01	
10/01/02	Chromium	0.05	
10/08/02	Chromium	0.08	
10/09/02	Chromium	0.07	
10/10/02	Chromium	0.06	
10/15/02	Chromium	0.1	
10/22/02	Chromium	0.09	
10/29/02	Chromium	0.05	
11/04/02	Chromium	0.02	
11/08/02	Chromium	0.1	
11/08/02	Chromium	0.09	
11/09/02	Chromium	1.43	
11/09/02	Chromium	1.41	
11/11/02	Chromium	0.13	
11/15/02	Chromium	0.65	
11/18/02	Chromium	0.31	
11/25/02	Chromium	0.19	
12/02/02	Chromium	0.07	
12/09/02	Chromium	0.08	
12/16/02	Chromium	0.39	
12/26/02	Chromium	0.01	
12/30/02	Chromium	1.41	
01/06/03	Chromium	0.07	
01/13/03	Chromium	0.53	
01/20/03	Chromium	0.05	
01/27/03	Chromium	0.02	
02/03/03	Chromium	0.86	
02/05/03	Chromium	0.38	
02/06/03	Chromium	0.34	
02/10/03	Chromium	0.12	
02/17/03	Chromium	1.4	
02/24/03	Chromium	0.42	
03/03/03	Chromium	0.9	
03/10/03	Chromium	0.05	
03/17/03	Chromium	0.04	
03/24/03	Chromium	0.21	
03/31/03	Chromium	0.03	
04/07/03	Chromium	0.28	
04/14/03	Chromium	0.14	
04/15/03	Chromium	0.07	
04/16/03	Chromium	0.07	
04/21/03	Chromium	0.07	
04/28/03	Chromium	0.43	
05/05/03	Chromium	0.14	
05/12/03	Chromium	0.04	
05/20/03	Chromium	0.03	
05/27/03	Chromium	0.03	
06/02/03	Chromium	0.05	
06/09/03	Chromium	0.1	
06/16/03	Chromium	0.04	
06/23/03	Chromium	0.04	
06/30/03	Chromium	0.11	
07/07/03	Chromium	0.02	
07/14/03	Chromium	0.04	
07/15/03	Chromium	<0.01	

Franke Plating

Sample Date	Parameter	Result	Limit
07/21/03	Chromium	0.06	
07/24/03	Chromium	0.01	
07/28/03	Chromium	0.02	
08/04/03	Chromium	0.1	
08/11/03	Chromium	0.01	
08/19/03	Chromium	0.02	
08/25/03	Chromium	0.21	
09/02/03	Chromium	0.32	
09/08/03	Chromium	0.14	
09/15/03	Chromium	0.35	
09/22/03	Chromium	0.15	
09/29/03	Chromium	0.03	
10/06/03	Chromium	0.08	
10/13/03	Chromium	0.5	
10/16/03	Chromium	0.14	
10/20/03	Chromium	0.62	
10/21/03	Chromium	0.11	
10/22/03	Chromium	0.11	
10/27/03	Chromium	0.04	
11/03/03	Chromium	0.08	
11/10/03	Chromium	0.12	
11/17/03	Chromium	0.19	
11/25/03	Chromium	0.03	
12/01/03	Chromium	0.1	
12/08/03	Chromium	0.1	
12/15/03	Chromium	0.09	
12/22/03	Chromium	0.41	
12/29/03	Chromium	0.38	
01/09/02	Copper	1.91	2
01/10/02	Copper	1.77	
04/18/02	Copper	0.6	
04/18/02	Copper	0.53	
05/02/02	Copper	1.01	
07/16/02	Copper	0.29	
07/17/02	Copper	0.28	
07/24/02	Copper	0.2	
07/24/02	Copper	0.16	
08/01/02	Copper	0.37	
08/07/02	Copper	0.07	
08/15/02	Copper	0.11	
08/22/02	Copper	0.1	
08/29/02	Copper	0.2	
09/06/02	Copper	0.18	
09/10/02	Copper	0.08	
09/17/02	Copper	0.07	
09/25/02	Copper	0.03	
10/01/02	Copper	0.38	
10/08/02	Copper	0.13	
10/09/02	Copper	0.14	
10/10/02	Copper	0.12	
10/15/02	Copper	0.1	
10/22/02	Copper	0.15	
10/29/02	Copper	0.21	
11/04/02	Copper	0.04	
11/08/02	Copper	1.09	

Franke Plating

Sample Date	Parameter	Result	Limit
11/08/02	Copper	0.9	
11/09/02	Copper	1.04	
11/09/02	Copper	0.89	
11/11/02	Copper	0.14	
11/15/02	Copper	0.45	
11/18/02	Copper	0.56	
11/25/02	Copper	0.58	
12/02/02	Copper	0.07	
12/09/02	Copper	0.21	
12/16/02	Copper	0.58	
12/26/02	Copper	0.02	
12/30/02	Copper	0.19	
01/06/03	Copper	0.35	
01/13/03	Copper	3.33	
01/20/03	Copper	0.25	
01/27/03	Copper	0.22	
02/03/03	Copper	0.53	
02/05/03	Copper	0.13	
02/06/03	Copper	0.1	
02/10/03	Copper	0.28	
02/17/03	Copper	0.32	
02/24/03	Copper	0.25	
03/03/03	Copper	0.68	
03/10/03	Copper	0.07	
03/17/03	Copper	0.14	
03/24/03	Copper	6.29	
03/31/03	Copper	0.09	
04/01/03	Copper	0.08	
04/07/03	Copper	0.14	
04/14/03	Copper	0.06	
04/15/03	Copper	0.12	
04/16/03	Copper	0.1	
04/21/03	Copper	0.14	
04/28/03	Copper	0.22	
05/05/03	Copper	0.08	
05/12/03	Copper	0.4	
05/20/03	Copper	0.34	
05/27/03	Copper	0.2	
06/02/03	Copper	0.18	
06/03/03	Copper	0.09	
06/09/03	Copper	0.11	
06/16/03	Copper	0.15	
06/23/03	Copper	0.17	
06/30/03	Copper	0.96	
07/07/03	Copper	0.04	
07/14/03	Copper	0.42	
07/15/03	Copper	0.16	
07/21/03	Copper	0.09	
07/24/03	Copper	0.15	
07/28/03	Copper	0.05	
08/04/03	Copper	0.14	
08/11/03	Copper	0.05	
08/19/03	Copper	0.06	
08/25/03	Copper	0.13	
09/02/03	Copper	0.16	

Franke Plating

Sample Date	Parameter	Result	Limit
09/08/03	Copper	0.1	
09/15/03	Copper	0.13	
09/22/03	Copper	0.04	
09/29/03	Copper	0.03	
10/06/03	Copper	0.1	
10/13/03	Copper	0.22	
10/16/03	Copper	1.02	
10/20/03	Copper	0.09	
10/21/03	Copper	0.04	
10/22/03	Copper	0.05	
10/27/03	Copper	0.04	
11/03/03	Copper	0.06	
11/10/03	Copper	0.12	
11/17/03	Copper	0.07	
11/25/03	Copper	0.09	
12/01/03	Copper	0.1	
12/08/03	Copper	0.18	
12/15/03	Copper	0.1	
12/22/03	Copper	0.27	
12/29/03	Copper	0.26	
01/09/02	Lead	<0.04	0.43
01/10/02	Lead	0.07	
04/18/02	Lead	<0.04	
04/18/02	Lead	<0.02	
05/02/02	Lead	0.02	
07/16/02	Lead	<0.01	
07/17/02	Lead	<0.06	
10/09/02	Lead	<0.02	
10/10/02	Lead	<0.06	
11/04/02	Lead	<0.06	
11/08/02	Lead	<0.02	
11/08/02	Lead	<0.06	
11/09/02	Lead	<0.02	
11/09/02	Lead	<0.06	
11/15/02	Lead	<0.02	
02/05/03	Lead	<0.02	
02/06/03	Lead	<0.06	
04/15/03	Lead	<0.03	
04/16/03	Lead	<0.06	
05/05/03	Lead	<0.06	
07/15/03	Lead	<0.03	
07/24/03	Lead	<0.02	
10/21/03	Lead	<0.03	
10/22/03	Lead	<0.01	
11/03/03	Lead	<0.06	
01/09/02	Mercury	0.00013	0.01
02/05/03	Mercury	0.000014	
01/02/02	Nickel	0.61	2.91
01/09/02	Nickel	0.98	
01/10/02	Nickel	0.84	
01/16/02	Nickel	0.27	
02/06/02	Nickel	0.42	
02/20/02	Nickel	0.79	
04/10/02	Nickel	0.75	
04/17/02	Nickel	2.7	

Franke Plating

Sample Date	Parameter	Result	Limit
04/18/02	Nickel	0.28	
04/18/02	Nickel	0.26	
04/24/02	Nickel	0.03	
04/29/02	Nickel	0.17	
05/02/02	Nickel	0.43	
05/16/02	Nickel	0.58	
06/13/02	Nickel	0.9	
06/27/02	Nickel	0.36	
07/10/02	Nickel	0.18	
07/16/02	Nickel	0.2	
07/17/02	Nickel	0.22	
07/24/02	Nickel	0.21	
08/01/02	Nickel	0.39	
08/07/02	Nickel	0.11	
08/15/02	Nickel	0.1	
08/22/02	Nickel	0.1	
08/29/02	Nickel	0.28	
09/06/02	Nickel	0.27	
09/10/02	Nickel	0.14	
09/17/02	Nickel	0.06	
09/25/02	Nickel	0.04	
10/01/02	Nickel	0.29	
10/08/02	Nickel	0.16	
10/09/02	Nickel	0.17	
10/10/02	Nickel	0.15	
10/15/02	Nickel	0.12	
10/22/02	Nickel	0.25	
10/29/02	Nickel	0.35	
11/04/02	Nickel	0.05	
11/08/02	Nickel	0.83	
11/08/02	Nickel	0.81	
11/09/02	Nickel	1.15	
11/09/02	Nickel	1.2	
11/11/02	Nickel	0.14	
11/15/02	Nickel	0.25	
11/18/02	Nickel	0.47	
11/25/02	Nickel	0.22	
12/02/02	Nickel	0.05	
12/09/02	Nickel	0.2	
12/16/02	Nickel	0.23	
12/26/02	Nickel	0.01	
12/30/02	Nickel	0..13	
01/06/03	Nickel	0.21	
01/13/03	Nickel	1.96	
01/20/03	Nickel	0.11	
01/27/03	Nickel	0.1	
02/03/03	Nickel	0.28	
02/05/03	Nickel	0.13	
02/06/03	Nickel	0.11	
02/10/03	Nickel	0.12	
02/17/03	Nickel	0.23	
02/24/03	Nickel	0.13	
03/03/03	Nickel	0.42	
03/10/03	Nickel	0.07	
03/17/03	Nickel	0.14	

Franke Plating

Sample Date	Parameter	Result	Limit
03/24/03	Nickel	1.02	
03/31/03	Nickel	0.1	
04/07/03	Nickel	0.11	
04/14/03	Nickel	0.05	
04/15/03	Nickel	0.12	
04/16/03	Nickel	0.11	
04/21/03	Nickel	0.1	
04/28/03	Nickel	0.11	
05/05/03	Nickel	0.05	
05/12/03	Nickel	0.1	
05/20/03	Nickel	0.14	
05/27/03	Nickel	0.09	
06/02/03	Nickel	0.15	
06/09/03	Nickel	0.06	
06/16/03	Nickel	0.06	
06/23/03	Nickel	0.41	
06/30/03	Nickel	1.6	
07/07/03	Nickel	0.12	
07/14/03	Nickel	0.59	
07/15/03	Nickel	0.2	
07/21/03	Nickel	0.12	
07/24/03	Nickel	0.2	
07/28/03	Nickel	0.07	
08/04/03	Nickel	0.05	
08/11/03	Nickel	0.04	
08/19/03	Nickel	0.08	
08/25/03	Nickel	0.17	
09/02/03	Nickel	0.38	
09/08/03	Nickel	0.16	
09/15/03	Nickel	0.19	
09/22/03	Nickel	0.33	
09/29/03	Nickel	0.04	
10/06/03	Nickel	0.44	
10/13/03	Nickel	0.46	
10/16/03	Nickel	1.86	
10/20/03	Nickel	0.12	
10/21/03	Nickel	0.12	
10/22/03	Nickel	0.12	
10/27/03	Nickel	0.09	
11/03/03	Nickel	0.08	
11/10/03	Nickel	0.08	
11/17/03	Nickel	0.17	
11/25/03	Nickel	0.06	
12/01/03	Nickel	0.11	
12/08/03	Nickel	0.1	
12/15/03	Nickel	0.08	
12/22/03	Nickel	0.25	
12/29/03	Nickel	0.19	
01/02/02	pH	8.13	6.0-12.0
01/09/02	pH	9.1	
01/16/02	pH	7.23	
02/06/02	pH	6.93	
02/20/02	pH	7.04	
04/10/02	pH	8.86	
04/17/02	pH	7.19	

Franke Plating

Sample Date	Parameter	Result	Limit
04/18/02	pH	6.9	
04/24/02	pH	7.89	
04/29/02	pH	7.81	
05/02/02	pH	7.12	
05/16/02	pH	6.29	
06/13/02	pH	8.22	
06/27/02	pH	7.56	
07/10/02	pH	7.29	
07/16/02	pH	6.8	
07/24/02	pH	6.9	
08/01/02	pH	7.13	
08/07/02	pH	7.35	
08/15/02	pH	7.78	
08/22/02	pH	7.54	
08/29/02	pH	8.41	
09/06/02	pH	7.66	
09/10/02	pH	7.33	
09/17/02	pH	7.35	
09/25/02	pH	7.33	
10/01/02	pH	6.89	
10/08/02	pH	7.37	
10/09/02	pH	7.7	
10/15/02	pH	7.85	
10/22/02	pH	7.63	
10/29/02	pH	8.06	
11/04/02	pH	7.79	
11/11/02	pH	8.26	
11/18/02	pH	7.78	
11/25/02	pH	7.46	
12/02/02	pH	7.14	
12/09/02	pH	8.11	
12/16/02	pH	7.04	
12/26/02	pH	7.24	
12/30/02	pH	7.2	
01/06/03	pH	7.35	
01/13/03	pH	8.86	
01/20/03	pH	7.35	
01/27/03	pH	8.04	
02/03/03	pH	7.29	
02/05/03	pH	9.7	
02/10/03	pH	7.63	
02/17/03	pH	7.92	
02/24/03	pH	7.18	
03/03/03	pH	7.27	
03/10/03	pH	7.11	
03/17/03	pH	6.89	
03/24/03	pH	7.11	
03/31/03	pH	7.61	
04/07/03	pH	8.6	
04/14/03	pH	8.24	
04/15/03	pH	7.6	
04/21/03	pH	9.46	
04/28/03	pH	7.65	
05/05/03	pH	8.35	
05/12/03	pH	8.02	

Franke Plating

Sample Date	Parameter	Result	Limit
05/20/03	pH	8.96	
05/27/03	pH	7.77	
06/02/03	pH	7.86	
06/09/03	pH	8.48	
06/16/03	pH	8.16	
06/23/03	pH	7.14	
06/30/03	pH	7.96	
07/07/03	pH	7.62	
07/14/03	pH	6.83	
07/15/03	pH	8.8	
07/21/03	pH	8.79	
07/28/03	pH	7.96	
08/04/03	pH	9.06	
08/11/03	pH	8.52	
08/19/03	pH	8.92	
08/25/03	pH	9.36	
09/02/03	pH	8.74	
09/08/03	pH	8.64	
09/15/03	pH	9.02	
09/22/03	pH	9.43	
09/29/03	pH	8.49	
10/06/03	pH	9.71	
10/13/03	pH	6.49	
10/16/03	pH	7.58	
10/20/03	pH	8.63	
10/21/03	pH	9.1	
10/22/03	pH	7	
10/27/03	pH	7.75	
11/03/03	pH	9.54	
11/10/03	pH	8.42	
11/17/03	pH	7.63	
11/25/03	pH	8.39	
12/01/03	pH	8.72	
12/08/03	pH	9.08	
12/15/03	pH	8.48	
12/22/03	pH	9.78	
12/29/03	pH	9.17	
01/09/02	Silver	0.04	0.3
01/10/02	Silver	0.05	
04/18/02	Silver	<0.04	
04/18/02	Silver	<0.01	
05/02/02	Silver	<0.01	
07/16/02	Silver	<0.01	
07/17/02	Silver	0.02	
10/09/02	Silver	<0.01	
11/04/02	Silver	<0.01	
11/08/02	Silver	0.04	
11/08/02	Silver	0.04	
11/09/02	Silver	0.04	
11/09/02	Silver	0.03	
11/15/02	Silver	0.01	
02/05/03	Silver	<0.01	
02/06/03	Silver	0.02	
04/15/03	Silver	<0.01	
04/16/03	Silver	<0.01	

Franke Plating

Sample Date	Parameter	Result	Limit
05/05/03	Silver	<0.01	
07/15/03	Silver	<0.01	
07/24/03	Silver	<0.01	
10/21/03	Silver	<0.01	
10/22/03	Silver	<0.01	
11/03/03	Silver	0.02	
01/09/02	Tot. Suspended Solids	8	300
04/18/02	Tot. Suspended Solids	21	
07/16/02	Tot. Suspended Solids	5	
10/09/02	Tot. Suspended Solids	6	
02/05/03	Tot. Suspended Solids	11	
04/15/03	Tot. Suspended Solids	3	
07/15/03	Tot. Suspended Solids	7	
10/21/03	Tot. Suspended Solids	13	
01/02/02	Total Cyanide	0.06	1.2
01/09/02	Total Cyanide	<0.0001	
01/10/02	Total Cyanide	0.02	
01/16/02	Total Cyanide	<0.01	
02/06/02	Total Cyanide	0.1	
02/20/02	Total Cyanide	0.14	
04/10/02	Total Cyanide	0.08	
04/17/02	Total Cyanide	0.11	
04/18/02	Total Cyanide	0.011	
04/18/02	Total Cyanide	<0.01	
04/24/02	Total Cyanide	<0.01	
04/29/02	Total Cyanide	<0.01	
05/02/02	Total Cyanide	0.13	
05/16/02	Total Cyanide	0.03	
06/13/02	Total Cyanide	32.4	
06/27/02	Total Cyanide	0.03	
07/10/02	Total Cyanide	0.04	
07/16/02	Total Cyanide	0.0093	
07/24/02	Total Cyanide	<0.01	
08/01/02	Total Cyanide	<0.01	
08/07/02	Total Cyanide	<0.01	
08/15/02	Total Cyanide	0.033	
08/15/02	Total Cyanide	0.03	
08/15/02	Total Cyanide	0.06	
08/22/02	Total Cyanide	<0.01	
08/29/02	Total Cyanide	<0.01	
09/06/02	Total Cyanide	0.08	
09/10/02	Total Cyanide	0.03	
09/17/02	Total Cyanide	0.02	
09/25/02	Total Cyanide	<0.01	
10/01/02	Total Cyanide	0.04	
10/08/02	Total Cyanide	0.02	
10/09/02	Total Cyanide	0.00847	
10/10/02	Total Cyanide	0.02	
10/15/02	Total Cyanide	0.04	
10/22/02	Total Cyanide	0.04	
10/29/02	Total Cyanide	0.05	
11/04/02	Total Cyanide	<0.01	
11/11/02	Total Cyanide	0.05	
11/18/02	Total Cyanide	0.1	
11/25/02	Total Cyanide	0.02	

Franke Plating

Sample Date	Parameter	Result	Limit
12/02/02	Total Cyanide	<0.01	
12/09/02	Total Cyanide	0.02	
12/16/02	Total Cyanide	0.02	
12/26/02	Total Cyanide	<0.01	
12/30/02	Total Cyanide	0.03	
01/06/03	Total Cyanide	0.02	
01/13/03	Total Cyanide	0.09	
01/20/03	Total Cyanide	<0.01	
01/27/03	Total Cyanide	<0.01	
02/03/03	Total Cyanide	0.02	
02/05/03	Total Cyanide	0.00038	
02/06/03	Total Cyanide	0.02	
02/10/03	Total Cyanide	0.02	
02/17/03	Total Cyanide	0.05	
02/24/03	Total Cyanide	<0.01	
03/03/03	Total Cyanide	0.03	
03/10/03	Total Cyanide	<0.01	
03/17/03	Total Cyanide	0.08	
03/24/03	Total Cyanide	0.1	
03/31/03	Total Cyanide	0.02	
04/07/03	Total Cyanide	0.02	
04/14/03	Total Cyanide	<0.01	
04/15/03	Total Cyanide	0.011	
04/16/03	Total Cyanide	0.1	
04/21/03	Total Cyanide	0.05	
04/28/03	Total Cyanide	0.05	
05/05/03	Total Cyanide	0.01	
05/12/03	Total Cyanide	<0.01	
05/20/03	Total Cyanide	0.05	
05/27/03	Total Cyanide	0.04	
06/02/03	Total Cyanide	0.02	
06/09/03	Total Cyanide	<0.01	
06/16/03	Total Cyanide	<0.01	
06/23/03	Total Cyanide	0.05	
06/30/03	Total Cyanide	0.31	
07/07/03	Total Cyanide	0.02	
07/14/03	Total Cyanide	<0.01	
07/15/03	Total Cyanide	0.029	
07/21/03	Total Cyanide	0.04	
07/24/03	Total Cyanide	0.02	
07/28/03	Total Cyanide	0.03	
08/04/03	Total Cyanide	0.02	
08/11/03	Total Cyanide	0.04	
08/19/03	Total Cyanide	<0.01	
08/25/03	Total Cyanide	0.03	
09/02/03	Total Cyanide	0.02	
09/08/03	Total Cyanide	<0.01	
09/15/03	Total Cyanide	0.12	
09/22/03	Total Cyanide	0.02	
09/29/03	Total Cyanide	<0.01	
10/06/03	Total Cyanide	0.02	
10/13/03	Total Cyanide	0.04	
10/16/03	Total Cyanide	1.48	
10/20/03	Total Cyanide	<0.01	
10/21/03	Total Cyanide	0.002	

Franke Plating

Sample Date	Parameter	Result	Limit
10/22/03	Total Cyanide	<0.01	
10/27/03	Total Cyanide	<0.01	
11/03/03	Total Cyanide	<0.01	
11/10/03	Total Cyanide	<0.01	
11/17/03	Total Cyanide	<0.01	
11/25/03	Total Cyanide	<0.01	
12/01/03	Total Cyanide	0.02	
12/08/03	Total Cyanide	0.03	
12/15/03	Total Cyanide	0.02	
12/16/03	Total Cyanide	0.00046	
12/22/03	Total Cyanide	0.15	
12/29/03	Total Cyanide	0.03	
01/02/02	Total Metal (40CFR413)	1.63	7.46
01/09/02	Total Metal (40CFR413)	3.4	
01/10/02	Total Metal (40CFR413)	3.09	
01/16/02	Total Metal (40CFR413)	1.04	
02/06/02	Total Metal (40CFR413)	2.12	
02/20/02	Total Metal (40CFR413)	5.23	
04/10/02	Total Metal (40CFR413)	5.21	
04/17/02	Total Metal (40CFR413)	29	
04/18/02	Total Metal (40CFR413)	3.93	
04/18/02	Total Metal (40CFR413)	3.51	
04/24/02	Total Metal (40CFR413)	0.1	
04/29/02	Total Metal (40CFR413)	0.75	
05/02/02	Total Metal (40CFR413)	5.24	
05/16/02	Total Metal (40CFR413)	0.92	
06/13/02	Total Metal (40CFR413)	2.75	
06/19/02	Total Metal (40CFR413)	0.81	
06/27/02	Total Metal (40CFR413)	0.66	
07/10/02	Total Metal (40CFR413)	0.85	
07/16/02	Total Metal (40CFR413)	1.08	
07/17/02	Total Metal (40CFR413)	1.05	
07/24/02	Total Metal (40CFR413)	1.55	
07/24/02	Total Metal (40CFR413)	0.51	
08/01/02	Total Metal (40CFR413)	1.38	
08/07/02	Total Metal (40CFR413)	0.45	
08/15/02	Total Metal (40CFR413)	0.45	
08/22/02	Total Metal (40CFR413)	0.37	
08/29/02	Total Metal (40CFR413)	0.93	
09/06/02	Total Metal (40CFR413)	0.68	
09/10/02	Total Metal (40CFR413)	1.07	
09/17/02	Total Metal (40CFR413)	0.39	
09/25/02	Total Metal (40CFR413)	0.305	
10/01/02	Total Metal (40CFR413)	1.12	
10/08/02	Total Metal (40CFR413)	0.59	
10/09/02	Total Metal (40CFR413)	1.03	
10/10/02	Total Metal (40CFR413)	0.89	
10/15/02	Total Metal (40CFR413)	0.53	
10/22/02	Total Metal (40CFR413)	0.75	
10/29/02	Total Metal (40CFR413)	0.96	
11/04/02	Total Metal (40CFR413)	0.17	
11/08/02	Total Metal (40CFR413)	3.28	
11/08/02	Total Metal (40CFR413)	3.03	
11/09/02	Total Metal (40CFR413)	4.51	
11/09/02	Total Metal (40CFR413)	4.52	

Franke Plating

Sample Date	Parameter	Result	Limit
11/11/02	Total Metal (40CFR413)	0.74	
11/15/02	Total Metal (40CFR413)	1.48	
11/18/02	Total Metal (40CFR413)	2.85	
11/25/02	Total Metal (40CFR413)	1.35	
01/06/03	Total Metal (40CFR413)	1.55	
01/13/03	Total Metal (40CFR413)	6.44	
01/20/03	Total Metal (40CFR413)	0.65	
01/27/03	Total Metal (40CFR413)	0.44	
02/05/03	Total Metal (40CFR413)	1.74	
03/03/03	Total Metal (40CFR413)	6.45	
03/10/03	Total Metal (40CFR413)	0.38	
03/17/03	Total Metal (40CFR413)	0.74	
03/24/03	Total Metal (40CFR413)	8.65	
03/31/03	Total Metal (40CFR413)	0.46	
04/07/03	Total Metal (40CFR413)	0.72	
04/14/03	Total Metal (40CFR413)	0.48	
04/15/03	Total Metal (40CFR413)	0.7	
04/16/03	Total Metal (40CFR413)	0.62	
04/21/03	Total Metal (40CFR413)	0.51	
04/28/03	Total Metal (40CFR413)	0.97	
06/30/03	Total Metal (40CFR413)	3.55	
07/07/03	Total Metal (40CFR413)	0.29	
07/14/03	Total Metal (40CFR413)	1.77	
07/15/03	Total Metal (40CFR413)	0.495	
07/21/03	Total Metal (40CFR413)	0.4	
07/24/03	Total Metal (40CFR413)	0.53	
07/28/03	Total Metal (40CFR413)	0.24	
08/04/03	Total Metal (40CFR413)	0.58	
08/11/03	Total Metal (40CFR413)	0.14	
08/19/03	Total Metal (40CFR413)	0.26	
08/25/03	Total Metal (40CFR413)	3.08	
10/06/03	Total Metal (40CFR413)	1.41	
10/13/03	Total Metal (40CFR413)	7.39	
10/16/03	Total Metal (40CFR413)	4.83	
10/20/03	Total Metal (40CFR413)	1.19	
10/21/03	Total Metal (40CFR413)	0.73	
10/22/03	Total Metal (40CFR413)	0.7	
10/27/03	Total Metal (40CFR413)	0.39	
12/01/03	Total Metal (40CFR413)	0.8	
12/08/03	Total Metal (40CFR413)	1.08	
12/15/03	Total Metal (40CFR413)	0.68	
12/22/03	Total Metal (40CFR413)	2.17	
12/29/03	Total Metal (40CFR413)	1.45	
01/09/02	Total Phosphorus	4.5	10
04/18/02	Total Phosphorus	5.7	
07/16/02	Total Phosphorus	1.8	
10/09/02	Total Phosphorus	0.456	
02/05/03	Total Phosphorus	0.904	
04/15/03	Total Phosphorus	0.759	
07/15/03	Total Phosphorus	3	
10/21/03	Total Phosphorus	0.923	
01/02/02	Zinc	0.37	2.98
01/09/02	Zinc	0.41	
01/10/02	Zinc	0.36	
01/16/02	Zinc	0.58	

Franke Plating

Sample Date	Parameter	Result	Limit
02/06/02	Zinc	1.47	
02/20/02	Zinc	2.52	
04/10/02	Zinc	3.96	
04/17/02	Zinc	25.8	
04/18/02	Zinc	2.88	
04/18/02	Zinc	2.57	
04/24/02	Zinc	0.05	
04/29/02	Zinc	0.24	
05/02/02	Zinc	3.35	
05/16/02	Zinc	0.93	
06/13/02	Zinc	1.67	
06/18/02	Zinc	0.84	
06/19/02	Zinc	0.81	
06/27/02	Zinc	0.23	
07/10/02	Zinc	0.32	
07/16/02	Zinc	0.24	
07/17/02	Zinc	0.24	
07/23/02	Zinc	0.35	
07/24/02	Zinc	0.7	
07/24/02	Zinc	0.35	
08/01/02	Zinc	0.56	
08/07/02	Zinc	0.23	
08/15/02	Zinc	0.16	
08/22/02	Zinc	0.12	
08/29/02	Zinc	0.36	
09/06/02	Zinc	0.2	
09/10/02	Zinc	0.31	
09/17/02	Zinc	0.16	
09/25/02	Zinc	0.23	
10/01/02	Zinc	0.4	
10/08/02	Zinc	0.22	
10/09/02	Zinc	0.65	
10/10/02	Zinc	0.56	
10/15/02	Zinc	0.21	
10/22/02	Zinc	0.26	
10/29/02	Zinc	0.35	
11/04/02	Zinc	0.06	
11/08/02	Zinc	1.26	
11/08/02	Zinc	1.23	
11/09/02	Zinc	0.89	
11/09/02	Zinc	1.02	
11/11/02	Zinc	0.33	
11/15/02	Zinc	0.13	
11/18/02	Zinc	1.51	
11/25/02	Zinc	0.36	
12/02/02	Zinc	0.05	
12/09/02	Zinc	0.55	
12/16/02	Zinc	0.24	
12/26/02	Zinc	0.02	
12/30/02	Zinc	0.31	
01/06/03	Zinc	0.92	
01/13/03	Zinc	0.62	
01/20/03	Zinc	0.24	
01/27/03	Zinc	0.1	
02/03/03	Zinc	0.28	

Franke Plating

Sample Date	Parameter	Result	Limit
02/05/03	Zinc	1.1	
02/06/03	Zinc	0.99	
02/10/03	Zinc	0.53	
02/17/03	Zinc	0.82	
02/24/03	Zinc	0.59	
03/03/03	Zinc	4.45	
03/10/03	Zinc	0.19	
03/17/03	Zinc	0.42	
03/24/03	Zinc	1.13	
03/31/03	Zinc	0.24	
04/07/03	Zinc	0.19	
04/14/03	Zinc	0.23	
04/15/03	Zinc	0.39	
04/16/03	Zinc	0.34	
04/21/03	Zinc	0.2	
04/28/03	Zinc	0.21	
05/05/03	Zinc	0.25	
05/12/03	Zinc	0.09	
05/20/03	Zinc	0.31	
05/27/03	Zinc	0.2	
06/02/03	Zinc	0.41	
06/03/03	Zinc	0.08	
06/09/03	Zinc	0.72	
06/16/03	Zinc	0.17	
06/23/03	Zinc	0.34	
06/30/03	Zinc	0.52	
07/07/03	Zinc	0.09	
07/14/03	Zinc	0.62	
07/15/03	Zinc	0.13	
07/21/03	Zinc	0.1	
07/24/03	Zinc	0.14	
07/28/03	Zinc	0.09	
08/04/03	Zinc	0.27	
08/11/03	Zinc	0.04	
08/19/03	Zinc	0.09	
08/25/03	Zinc	1.98	
09/02/03	Zinc	1.02	
09/08/03	Zinc	0.98	
09/15/03	Zinc	1.57	
09/22/03	Zinc	0.73	
09/29/03	Zinc	0.18	
10/06/03	Zinc	0.79	
10/13/03	Zinc	6.21	
10/16/03	Zinc	1.81	
10/20/03	Zinc	0.36	
10/21/03	Zinc	0.46	
10/22/03	Zinc	0.42	
10/27/03	Zinc	0.22	
11/03/03	Zinc	0.43	
11/10/03	Zinc	0.45	
11/17/03	Zinc	2.1	
11/25/03	Zinc	0.15	
12/01/03	Zinc	0.42	
12/08/03	Zinc	0.66	
12/15/03	Zinc	0.36	

Franke Plating

Sample Date	Parameter	Result	Limit
12/16/03	Zinc	0.21	
12/22/03	Zinc	1.15	
12/29/03	Zinc	0.59	

Site Consumption

ny: FRANKE PLATING INC

Name:

IWS Number: 5167

Site Number: 1

Begin	End	Water	Sewer
.2/04/2001	01/04/2002	1,155	1,051
)1/04/2002	01/30/2002	1,027	906
)1/30/2002	03/04/2002	1,247	1,123
)3/04/2002	04/02/2002	1,311	1,187
)4/02/2002	05/02/2002	1,428	1,357
)5/02/2002	06/05/2002	1,499	1,457
)6/05/2002	07/02/2002	2,001	1,955
)7/02/2002	08/05/2002	3,103	3,063
)8/05/2002	08/30/2002	2,766	2,718
)8/30/2002	10/02/2002	2,970	2,995
L0/02/2002	11/01/2002	1,911	2,070
L1/01/2002	12/02/2002	1,588	1,609
L2/02/2002	01/03/2003	1,921	1,786
)1/03/2003	01/29/2003	1,533	1,455
)1/29/2003	03/04/2003	1,905	1,809
)3/04/2003	04/04/2003	1,514	1,474
)4/04/2003	05/05/2003	1,925	2,121
)5/05/2003	06/05/2003	1,535	1,487
)6/05/2003	07/01/2003	1,611	1,597
)7/01/2003	08/01/2003	2,532	2,518
)8/01/2003	09/01/2003	2,599	2,547
)9 /2003	10/01/2003	2,579	2,514
L /2003	10/30/2003	2,278	2,165
L0/30/2003	11/25/2003	1,461	1,244
L1/25/2003	12/30/2003	1,993	1,830

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **05701**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:

Fujicolor Processing, Inc.
3420 North Wells Street
Fort Wayne, IN 46808

Mailing Address:

P.O. Box 1234
Fort Wayne, IN 46896

Permit Classification: **Non-Major Industrial User**

Subject to 40 CFR 403 standards.

is permit shall become effective on **October 31, 2003.**

This permit and the authorization to discharge wastewater shall expire on **October 31, 2008.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____

_____
Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

it via Certified mail to:

I. LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS

A. **Fujicolor Processing, Inc.** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Self-Monitoring Frequency	Sample Type
pH	6.0-12.0	1/month	grab
Silver	4.0	1/month	composite

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

C. Location of sampling:

All samples must be collected from the control manhole located in the parking lot on the south side of the main building. Sampling points shall not be changed without notification to and the approval of the City of Fort Wayne.

Fujicolor Processing

Sample Date	Parameter	Result	Limit
01/22/02	Ammonia-Nitrogen	216	25
02/26/02	Ammonia-Nitrogen	33	
07/16/02	Ammonia-Nitrogen	24.6	
07/30/02	Ammonia-Nitrogen	23.3	
10/15/02	Ammonia-Nitrogen	19	
01/09/03	Ammonia-Nitrogen	35	
04/09/03	Ammonia-Nitrogen	185	
05/22/03	Ammonia-Nitrogen	46	
07/01/03	Ammonia-Nitrogen	66.3	
10/24/03	Ammonia-Nitrogen	84	
12/02/03	Ammonia-Nitrogen	38	
01/22/02	Biochemical Oxygen Demand 5 Day	451	300
02/26/02	Biochemical Oxygen Demand 5 Day	97	
07/16/02	Biochemical Oxygen Demand 5 Day	65	
07/30/02	Biochemical Oxygen Demand 5 Day	59	
10/15/02	Biochemical Oxygen Demand 5 Day	67	
01/09/03	Biochemical Oxygen Demand 5 Day	123	
04/09/03	Biochemical Oxygen Demand 5 Day	457	
05/22/03	Biochemical Oxygen Demand 5 Day	162	
07/01/03	Biochemical Oxygen Demand 5 Day	152	
10/24/03	Biochemical Oxygen Demand 5 Day	550	
01/22/02	Cadmium	<0.04	0.7
07/16/02	Cadmium	<0.04	
07/30/02	Cadmium	<0.01	
10/15/02	Cadmium	<0.01	
01/09/03	Cadmium	<0.01	
04/09/03	Cadmium	<0.01	
07/01/03	Cadmium	<0.01	
10/24/03	Cadmium	<0.01	
01/22/02	Chemical Oxygen Demand	1220	600
02/26/02	Chemical Oxygen Demand	414	
07/16/02	Chemical Oxygen Demand	370	
07/30/02	Chemical Oxygen Demand	276	
10/15/02	Chemical Oxygen Demand	357	
01/09/03	Chemical Oxygen Demand	535	
04/09/03	Chemical Oxygen Demand	1291	
05/22/03	Chemical Oxygen Demand	586	
07/01/03	Chemical Oxygen Demand	615	
10/24/03	Chemical Oxygen Demand	2100	
12/02/03	Chemical Oxygen Demand	880	
01/22/02	Chromium	<0.04	10
07/16/02	Chromium	<0.04	
07/30/02	Chromium	<0.01	
10/15/02	Chromium	<0.01	
01/09/03	Chromium	<0.01	
04/09/03	Chromium	0.02	
07/01/03	Chromium	<0.01	
10/24/03	Chromium	0.01	
01/22/02	Copper	0.04	2
07/16/02	Copper	<0.04	
07/30/02	Copper	0.03	
10/15/02	Copper	0.01	
01/09/03	Copper	0.03	
04/09/03	Copper	0.03	
07/01/03	Copper	0.02	

Fujicolor Processing

Sample Date	Parameter	Result	Limit
10/24/03	Copper	0.03	
01/22/02	Lead	<0.04	0.6
07/16/02	Lead	<0.04	
07/30/02	Lead	<0.01	
10/15/02	Lead	<0.02	
01/09/03	Lead	<0.02	
04/09/03	Lead	<0.03	
07/01/03	Lead	<0.03	
10/24/03	Lead	0.04	
01/22/02	Mercury	0.0004	0.01
01/09/03	Mercury	0.000094	
01/22/02	Nickel	<0.04	3
07/16/02	Nickel	<0.04	
07/30/02	Nickel	<0.01	
10/15/02	Nickel	<0.01	
01/09/03	Nickel	<0.01	
04/09/03	Nickel	0.03	
07/01/03	Nickel	<0.01	
10/24/03	Nickel	0.04	
01/04/02	pH	9.28	6.0-12.0
01/11/02	pH	9.19	
01/18/02	pH	8.12	
01/22/02	pH	7.9	
01/25/02	pH	7.77	
02/01/02	pH	6.67	
02/08/02	pH	7.83	
02/15/02	pH	8.55	
02/22/02	pH	7.39	
03/01/02	pH	7.49	
03/14/02	pH	9.2	
04/12/02	pH	9.08	
04/14/02	pH	9.86	
04/18/02	pH	Passed	
04/19/02	pH	9.58	
04/26/02	pH	9.79	
05/03/02	pH	8.51	
05/10/02	pH	9.15	
05/17/02	pH	9.26	
05/24/02	pH	8.1	
05/31/02	pH	9.24	
06/07/02	pH	8.59	
06/14/02	pH	8.87	
06/24/02	pH	6.89	
06/28/02	pH	8.53	
07/03/02	pH	9.06	
07/12/02	pH	8.47	
07/16/02	pH	9.1	
07/26/02	pH	9.17	
07/30/02	pH	7.6	
08/02/02	pH	8.8	
08/08/02	pH	9.3	
08/16/02	pH	7.8	
08/27/02	pH	8.5	
08/27/02	pH	7	
08/30/02	pH	7.3	

Fujicolor Processing

Sample Date	Parameter	Result	Limit
09/06/02	pH	7.2	
09/20/02	pH	8.7	
10/14/02	pH	9.46	
10/15/02	pH	9.1	
10/18/02	pH	9.04	
10/22/02	pH	9.11	
11/08/02	pH	9.26	
11/22/02	pH	8.47	
12/06/02	pH	9.47	
12/18/02	pH	8.96	
01/03/03	pH	9.67	
01/09/03	pH	9.7	
01/16/03	pH	8.83	
02/07/03	pH	9.31	
02/21/03	pH	9.39	
03/07/03	pH	9.04	
03/21/03	pH	8.84	
04/04/03	pH	9.28	
04/09/03	pH	8.1	
04/17/03	pH	8.87	
05/02/03	pH	7.92	
05/16/03	pH	9.24	
06/06/03	pH	7.74	
06/20/03	pH	8.64	
07/01/03	pH	8.8	
07/03/03	pH	7.11	
07/18/03	pH	9.95	
08/08/03	pH	7.88	
08/22/03	pH	8.82	
09/19/03	pH	7.75	
10/24/03	pH	9.4	
10/24/03	pH	8.34	
01/03/02	Silver	0.63	4
01/04/02	Silver	0.301	
01/04/02	Silver	0.409	
01/11/02	Silver	0.171	
01/18/02	Silver	0.191	
01/22/02	Silver	0.65	
01/23/02	Silver	0.321	
01/25/02	Silver	0.181	
02/01/02	Silver	<0.01	
02/08/02	Silver	0.253	
02/15/02	Silver	0.74	
02/15/02	Silver	0.63	
02/15/02	Silver	0.546	
02/22/02	Silver	0.663	
02/27/02	Silver	1.49	
03/01/02	Silver	1.02	
03/14/02	Silver	0.15	
03/15/02	Silver	0.21	
03/22/02	Silver	1.15	
03/29/02	Silver	0.2	
04/12/02	Silver	0.45	
04/14/02	Silver	<0.01	
04/18/02	Silver	1.11	

Fujicolor Processing

Sample Date	Parameter	Result	Limit
04/19/02	Silver	1.29	
04/26/02	Silver	0.09	
05/03/02	Silver	0.04	
05/10/02	Silver	0.531	
05/17/02	Silver	0.354	
05/24/02	Silver	0.322	
05/31/02	Silver	0.223	
06/07/02	Silver	0.276	
06/14/02	Silver	0.159	
06/24/02	Silver	0.07	
06/28/02	Silver	0.2	
07/03/02	Silver	0.202	
07/12/02	Silver	0.213	
07/16/02	Silver	1.35	
07/19/02	Silver	0.693	
07/26/02	Silver	<0.025	
07/30/02	Silver	0.84	
07/31/02	Silver	0.432	
08/01/02	Silver	0.432	
08/02/02	Silver	0.412	
08/08/02	Silver	0.61	
08/16/02	Silver	0.119	
08/27/02	Silver	0.278	
08/27/02	Silver	3.04	
08/30/02	Silver	0.255	
09/06/02	Silver	0.834	
09/20/02	Silver	0.086	
10/04/02	Silver	0.05	
10/15/02	Silver	0.22	
10/16/02	Silver	0.19	
10/18/02	Silver	0.289	
11/08/02	Silver	12.1	
11/22/02	Silver	1.33	
12/06/02	Silver	0.369	
12/18/02	Silver	2.97	
01/03/03	Silver	0.47	
01/09/03	Silver	0.31	
01/10/03	Silver	0.33	
01/16/03	Silver	0.69	
01/22/03	Silver	10.3	
01/28/03	Silver	9.44	
02/07/03	Silver	1.04	
02/21/03	Silver	0.627	
03/05/03	Silver	0.65	
03/06/03	Silver	0.61	
03/07/03	Silver	0.38	
03/21/03	Silver	0.51	
04/04/03	Silver	1.34	
04/09/03	Silver	2.95	
04/11/03	Silver	2.56	
04/17/03	Silver	0.55	
05/02/03	Silver	0.802	
05/16/03	Silver	0.897	
05/23/03	Silver	2.17	
06/06/03	Silver	0.208	

Fujicolor Processing

Sample Date	Parameter	Result	Limit
06/20/03	Silver	0.782	
07/01/03	Silver	0.05	
07/02/03	Silver	0.418	
07/03/03	Silver	1.98	
07/18/03	Silver	0.613	
08/08/03	Silver	0.342	
08/22/03	Silver	0.743	
09/19/03	Silver	0.501	
10/24/03	Silver	3.17	
10/24/03	Silver	1.33	
10/24/03	Silver	2.4	
01/22/02	Tot. Suspended Solids	7	300
02/26/02	Tot. Suspended Solids	31	
07/16/02	Tot. Suspended Solids	13	
07/30/02	Tot. Suspended Solids	12	
10/15/02	Tot. Suspended Solids	4	
01/09/03	Tot. Suspended Solids	14	
04/09/03	Tot. Suspended Solids	32	
05/22/03	Tot. Suspended Solids	65	
07/01/03	Tot. Suspended Solids	15	
10/24/03	Tot. Suspended Solids	212	
01/22/02	Total Phosphorus	3	10
02/26/02	Total Phosphorus	1.7	
07/16/02	Total Phosphorus	1.1	
07/30/02	Total Phosphorus	1.8	
10/15/02	Total Phosphorus	2	
01/09/03	Total Phosphorus	3	
04/09/03	Total Phosphorus	1.3	
05/22/03	Total Phosphorus	4	
07/01/03	Total Phosphorus	4	
10/24/03	Total Phosphorus	5	
01/22/02	Zinc	0.07	6
07/16/02	Zinc	<0.04	
07/30/02	Zinc	0.03	
10/15/02	Zinc	0.02	
01/09/03	Zinc	0.04	
04/09/03	Zinc	0.06	
07/01/03	Zinc	0.03	
10/24/03	Zinc	0.24	

Site Consumption

ny: FUJICOLOR PROCESSING, INC
Name: FUJI

IWS Number: 4024
Site Number: 1

Begin	End	Water	Sewer
2/17/2001	01/15/2002	884	884
1/15/2002	02/15/2002	725	725
2/15/2002	03/18/2002	924	924
3/18/2002	04/15/2002	1,019	1,019
4/15/2002	05/16/2002	1,496	1,496
5/16/2002	06/14/2002	1,640	1,640
6/14/2002	07/15/2002	1,572	1,572
7/15/2002	08/15/2002	1,642	1,642
8/15/2002	09/17/2002	1,685	1,685
9/17/2002	10/15/2002	1,151	1,151
0/15/2002	11/12/2002	760	760
1/12/2002	12/16/2002	1,266	1,266
2/16/2002	01/17/2003	662	662
1/17/2003	02/12/2003	496	496
2/12/2003	03/11/2003	432	432
3/11/2003	04/11/2003	455	455
4/11/2003	05/12/2003	604	604
5/12/2003	06/13/2003	697	697
6/13/2003	07/10/2003	681	681
7/10/2003	08/12/2003	886	886
8/12/2003	09/15/2003	802	802
9 /2003	10/10/2003	577	577
[redacted]		[redacted]	[redacted]

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **03803**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:

General Electric Company
1701 College Street
Fort Wayne, IN 46802

Mailing Address:

General Electric Company
P.O. Box 1701
Fort Wayne, IN 46801
Phone: (219) 439-2816

Permit Classification: **Non-Major Industrial User (SIU)**

Subject to 40 CFR 433.15 standards.

..is permit shall become effective on **September 25, 1998.**

This permit and the authorization to discharge wastewater shall expire on **September 25, 2003.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Manager of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

..nt via Certified mail to:

Name: Holly Buschman
Title: EHS Leader

I. LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for Monthly Avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.55	0.21	2/year	composite
Chromium	2.19	1.35	2/year	composite
Copper	2.00	1.64	2/year	composite
Lead	0.55	0.34	2/year	composite
Nickel	3.00	1.88	2/month	composite
Silver	0.30	0.19	2/year	composite
Zinc	2.06	1.17	2/month	composite
Cyanide	0.95	0.51	2/year	grab
T.T.O.	1.68	N/A	2/year	
pH	6.0-12.0	N/A	2/month	grab

REQUIRED REPORTS

PORT	DUE DATE
Discharge Monitoring Report (DMR)	due the 15th of each month, for the prior month sampling.
Compliance Monitoring Report (CMR)	June 28 and December 28 each year
Industrial Waste Questionnaire (IWQ)	January 15, each year
Baseline Monitoring Report (BMR) (Permit Application)	**July 25, 2003**

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

General Electric College Street

Sample Date	Parameter	Result	Limit
01/16/02	Ammonia-Nitrogen	8.5	25
01/16/02	Ammonia-Nitrogen	8.5	
04/17/02	Ammonia-Nitrogen	8	
04/17/02	Ammonia-Nitrogen	8	
04/17/02	Ammonia-Nitrogen	8	
08/06/02	Ammonia-Nitrogen	5.8	
08/06/02	Ammonia-Nitrogen	5.8	
08/06/02	Ammonia-Nitrogen	5.8	
10/02/02	Ammonia-Nitrogen	1	
10/02/02	Ammonia-Nitrogen	1	
02/04/03	Ammonia-Nitrogen	15	
02/04/03	Ammonia-Nitrogen	15	
02/04/03	Ammonia-Nitrogen	15	
04/24/03	Ammonia-Nitrogen	26	
04/24/03	Ammonia-Nitrogen	26	
04/24/03	Ammonia-Nitrogen	26	
07/23/03	Ammonia-Nitrogen	5	
07/24/03	Ammonia-Nitrogen	5	
07/24/03	Ammonia-Nitrogen	5	
01/16/02	Biochemical Oxygen Demand 5 Day	44	300
01/16/02	Biochemical Oxygen Demand 5 Day	44	
04/17/02	Biochemical Oxygen Demand 5 Day	25	
04/17/02	Biochemical Oxygen Demand 5 Day	40	
04/17/02	Biochemical Oxygen Demand 5 Day	89	
08/06/02	Biochemical Oxygen Demand 5 Day	36	
08/06/02	Biochemical Oxygen Demand 5 Day	36	
08/06/02	Biochemical Oxygen Demand 5 Day	36	
10/02/02	Biochemical Oxygen Demand 5 Day	34	
10/02/02	Biochemical Oxygen Demand 5 Day	34	
02/04/03	Biochemical Oxygen Demand 5 Day	227	
02/04/03	Biochemical Oxygen Demand 5 Day	227	
02/04/03	Biochemical Oxygen Demand 5 Day	227	
04/24/03	Biochemical Oxygen Demand 5 Day	304	
04/24/03	Biochemical Oxygen Demand 5 Day	304	
04/24/03	Biochemical Oxygen Demand 5 Day	304	
07/23/03	Biochemical Oxygen Demand 5 Day	56	
07/24/03	Biochemical Oxygen Demand 5 Day	56	
07/24/03	Biochemical Oxygen Demand 5 Day	56	
01/16/02	Cadmium	<0.04	0.55
01/16/02	Cadmium	<0.04	
04/17/02	Cadmium	<0.04	
04/17/02	Cadmium	<0.04	
04/17/02	Cadmium	<0.04	
05/09/02	Cadmium	<0.030	
08/06/02	Cadmium	< 0.01	
08/06/02	Cadmium	< 0.01	
08/06/02	Cadmium	< 0.01	
10/02/02	Cadmium	<0.01	
10/02/02	Cadmium	<0.01	
11/07/02	Cadmium	<0.030	
02/04/03	Cadmium	<0.01	
02/04/03	Cadmium	<0.01	
02/04/03	Cadmium	<0.01	
04/24/03	Cadmium	<0.01	
04/24/03	Cadmium	<0.01	

General Electric College Street

Sample Date	Parameter	Result	Limit
04/24/03	Cadmium	<0.01	
05/23/03	Cadmium	<0.001	
07/23/03	Cadmium	<0.01	
07/24/03	Cadmium	<0.01	
07/24/03	Cadmium	<0.01	
01/16/02	Chemical Oxygen Demand	100	600
01/16/02	Chemical Oxygen Demand	128	
04/17/02	Chemical Oxygen Demand	103	
04/17/02	Chemical Oxygen Demand	103	
04/17/02	Chemical Oxygen Demand	103	
08/06/02	Chemical Oxygen Demand	135	
08/06/02	Chemical Oxygen Demand	135	
08/06/02	Chemical Oxygen Demand	135	
10/02/02	Chemical Oxygen Demand	46	
10/02/02	Chemical Oxygen Demand	113	
02/04/03	Chemical Oxygen Demand	248	
02/04/03	Chemical Oxygen Demand	248	
02/04/03	Chemical Oxygen Demand	248	
04/24/03	Chemical Oxygen Demand	490	
04/24/03	Chemical Oxygen Demand	490	
04/24/03	Chemical Oxygen Demand	490	
07/23/03	Chemical Oxygen Demand	181	
07/24/03	Chemical Oxygen Demand	181	
07/24/03	Chemical Oxygen Demand	181	
01/10/02	Chromium	<0.05	2.19
01/16/02	Chromium	<0.04	
01/16/02	Chromium	<0.04	
01/24/02	Chromium	<0.0020	
02/08/02	Chromium	<0.002	
02/20/02	Chromium	<0.002	
04/04/02	Chromium	<0.002	
04/17/02	Chromium	<0.04	
04/17/02	Chromium	<0.04	
04/17/02	Chromium	<0.04	
04/18/02	Chromium	<0.002	
05/09/02	Chromium	<0.040	
08/06/02	Chromium	< 0.01	
08/06/02	Chromium	< 0.01	
08/06/02	Chromium	< 0.01	
10/02/02	Chromium	<0.01	
10/02/02	Chromium	<0.01	
11/07/02	Chromium	<0.040	
02/04/03	Chromium	<0.01	
02/04/03	Chromium	<0.01	
02/04/03	Chromium	0.01	
04/24/03	Chromium	<0.01	
04/24/03	Chromium	<0.01	
04/24/03	Chromium	0.01	
05/23/03	Chromium	<0.005	
07/23/03	Chromium	<0.01	
07/24/03	Chromium	<0.01	
07/24/03	Chromium	<0.01	
01/16/02	Copper	0.04	2
01/16/02	Copper	0.1	
04/17/02	Copper	<0.04	

General Electric College Street

Sample Date	Parameter	Result	Limit
04/17/02	Copper	<0.04	
04/17/02	Copper	<0.04	
05/09/02	Copper	<0.020	
08/06/02	Copper	0.08	
08/06/02	Copper	0.04	
08/06/02	Copper	0.08	
10/02/02	Copper	0.07	
10/02/02	Copper	0.09	
11/07/02	Copper	0.021	
02/04/03	Copper	0.07	
02/04/03	Copper	0.15	
02/04/03	Copper	0.38	
04/24/03	Copper	0.06	
04/24/03	Copper	0.07	
04/24/03	Copper	0.24	
05/23/03	Copper	0.0605	
07/23/03	Copper	0.02	
07/24/03	Copper	0.03	
07/24/03	Copper	0.02	
01/10/02	Lead	0.006	
01/16/02	Lead	<0.04	0.55
01/16/02	Lead	<0.04	
01/24/02	Lead	0.002	
02/08/02	Lead	<0.001	
02/20/02	Lead	0.005	
04/04/02	Lead	0.0012	
04/17/02	Lead	<0.04	
04/17/02	Lead	<0.04	
04/17/02	Lead	<0.04	
04/18/02	Lead	<0.0010	
05/09/02	Lead	<0.080	
08/06/02	Lead	< 0.01	
08/06/02	Lead	< 0.01	
08/06/02	Lead	0.02	
10/02/02	Lead	<0.02	
10/02/02	Lead	<0.02	
11/07/02	Lead	0.0015	
02/04/03	Lead	0.04	
02/04/03	Lead	0.04	
02/04/03	Lead	0.14	
04/24/03	Lead	<0.03	
04/24/03	Lead	<0.03	
04/24/03	Lead	0.1	
05/23/03	Lead	0.0228	
07/23/03	Lead	<0.03	
07/24/03	Lead	<0.03	
07/24/03	Lead	<0.03	
01/16/02	Mercury	<0.000016	0.01
01/16/02	Mercury	0.00018	
02/04/03	Mercury	0.000064	
02/04/03	Mercury	0.000056	
02/04/03	Mercury	0.00052	
01/10/02	Nickel	<0.005	3
01/16/02	Nickel	<0.04	
01/16/02	Nickel	<0.04	

General Electric College Street

Sample Date	Parameter	Result	Limit
01/24/02	Nickel	<0.005	
02/07/02	Nickel	0.005	
02/20/02	Nickel	<0.005	
03/07/02	Nickel	0.005	
03/22/02	Nickel	0.008	
04/04/02	Nickel	<0.005	
04/17/02	Nickel	<0.04	
04/17/02	Nickel	<0.04	
04/17/02	Nickel	<0.04	
04/18/02	Nickel	<0.005	
05/09/02	Nickel	<0.010	
05/23/02	Nickel	<0.005	
06/06/02	Nickel	<0.005	
06/20/02	Nickel	<0.005	
07/10/02	Nickel	<0.005	
07/18/02	Nickel	<0.005	
08/06/02	Nickel	< 0.01	
08/06/02	Nickel	< 0.01	
08/06/02	Nickel	< 0.01	
08/08/02	Nickel	<0.005	
08/22/02	Nickel	<0.005	
09/05/02	Nickel	<0.005	
09/23/02	Nickel	<0.005	
10/02/02	Nickel	<0.01	
10/02/02	Nickel	0.04	
10/09/02	Nickel	<0.005	
10/24/02	Nickel	<0.005	
11/07/02	Nickel	<0.010	
11/21/02	Nickel	<0.0050	
12/05/02	Nickel	<0.0050	
12/19/02	Nickel	<0.0050	
01/09/03	Nickel	<0.005	
01/23/03	Nickel	<0.005	
02/04/03	Nickel	<0.01	
02/04/03	Nickel	<0.01	
02/04/03	Nickel	0.01	
02/06/03	Nickel	<0.0050	
02/19/03	Nickel	0.016	
03/07/03	Nickel	<0.005	
03/21/03	Nickel	<0.010	
04/11/03	Nickel	<0.005	
04/24/03	Nickel	<0.01	
04/24/03	Nickel	<0.01	
04/24/03	Nickel	<0.01	
04/25/03	Nickel	0.006	
05/09/03	Nickel	<0.005	
05/23/03	Nickel	0.005	
06/05/03	Nickel	<0.005	
06/19/03	Nickel	0.0057	
07/17/03	Nickel	<0.005	
07/23/03	Nickel	<0.01	
07/24/03	Nickel	<0.01	
07/24/03	Nickel	<0.01	
07/24/03	Nickel	<0.005	
08/07/03	Nickel	<0.005	

General Electric College Street

Sample Date	Parameter	Result	Limit
08/21/03	Nickel	<0.005	
01/10/02	pH	8.3	6.0-12.0
01/10/02	pH	8	
01/16/02	pH	7	
01/16/02	pH	7.3	
01/24/02	pH	8.4	
01/24/02	pH	8.3	
02/07/02	pH	8.4	
02/08/02	pH	7.5	
02/20/02	pH	7.8	
02/20/02	pH	7.9	
03/07/02	pH	8.3	
03/22/02	pH	7.9	
04/04/02	pH	7.4	
04/04/02	pH	8.3	
04/17/02	pH	7.2	
04/17/02	pH	6.6	
04/17/02	pH	7.7	
04/18/02	pH	7.4	
04/18/02	pH	7.5	
05/09/02	pH	7.9	
05/23/02	pH	7.7	
06/06/02	pH	7.6	
06/20/02	pH	7.8	
07/10/02	pH	7.3	
07/18/02	pH	7.6	
08/06/02	pH	7.2	
08/06/02	pH	7.3	
08/06/02	pH	7.5	
08/08/02	pH	7.2	
08/22/02	pH	7.2	
09/05/02	pH	6.9	
09/23/02	pH	6.9	
10/02/02	pH	7.2	
10/02/02	pH	6.8	
10/09/02	pH	7.2	
10/24/02	pH	8.2	
11/07/02	pH	8.2	
11/21/02	pH	7.7	
12/05/02	pH	7.7	
12/19/02	pH	7.9	
01/09/03	pH	7.4	
01/23/03	pH	8.1	
02/04/03	pH	7.4	
02/04/03	pH	8.6	
02/04/03	pH	8.3	
02/06/03	pH	7.9	
02/19/03	pH	7.2	
03/07/03	pH	8.1	
03/21/03	pH	8.3	
04/11/03	pH	7	
04/24/03	pH	6.3	
04/24/03	pH	7.7	
04/24/03	pH	7.4	
04/25/03	pH	7.4	

General Electric College Street

Sample Date	Parameter	Result	Limit
05/09/03	pH	8.04	
05/23/03	pH	7.02	
06/05/03	pH	7.46	
06/19/03	pH	7.53	
07/17/03	pH	7.28	
07/23/03	pH	7.8	
07/24/03	pH	7.9	
07/24/03	pH	7.6	
07/24/03	pH	7.28	
08/07/03	pH	7.37	
08/21/03	pH	7.52	
01/16/02	Silver	<0.04	0.3
01/16/02	Silver	<0.04	
04/17/02	Silver	<0.04	
04/17/02	Silver	<0.04	
04/17/02	Silver	<0.04	
05/09/02	Silver	<0.040	
08/06/02	Silver	< 0.01	
08/06/02	Silver	< 0.01	
08/06/02	Silver	< 0.01	
10/02/02	Silver	<0.01	
10/02/02	Silver	<0.01	
11/07/02	Silver	<0.0005	
02/04/03	Silver	<0.01	
02/04/03	Silver	<0.01	
02/04/03	Silver	<0.01	
04/24/03	Silver	<0.01	
04/24/03	Silver	<0.01	
04/24/03	Silver	<0.01	
05/23/03	Silver	<0.0005	
07/23/03	Silver	<0.01	
07/24/03	Silver	<0.01	
07/24/03	Silver	<0.01	
01/16/02	Tot. Suspended Solids	89	300
01/16/02	Tot. Suspended Solids	89	
04/17/02	Tot. Suspended Solids	31	
04/17/02	Tot. Suspended Solids	33	
04/17/02	Tot. Suspended Solids	82	
08/06/02	Tot. Suspended Solids	63	
08/06/02	Tot. Suspended Solids	63	
08/06/02	Tot. Suspended Solids	63	
10/02/02	Tot. Suspended Solids	35	
10/02/02	Tot. Suspended Solids	35	
02/04/03	Tot. Suspended Solids	318	
02/04/03	Tot. Suspended Solids	318	
02/04/03	Tot. Suspended Solids	318	
04/24/03	Tot. Suspended Solids	578	
04/24/03	Tot. Suspended Solids	578	
04/24/03	Tot. Suspended Solids	578	
07/23/03	Tot. Suspended Solids	66	
07/24/03	Tot. Suspended Solids	66	
07/24/03	Tot. Suspended Solids	66	
01/16/02	Total Cyanide	0.0002	0.95
04/17/02	Total Cyanide	0.0005	
05/09/02	Total Cyanide	<0.005	

General Electric College Street

Sample Date	Parameter	Result	Limit
08/06/02	Total Cyanide	0.0013	
10/02/02	Total Cyanide	<0.0002	
11/07/02	Total Cyanide	<0.005	
02/04/03	Total Cyanide	0.00037	
04/24/03	Total Cyanide	0.0007	
05/23/03	Total Cyanide	<0.005	
07/23/03	Total Cyanide	0.0007	
01/16/02	Total Phosphorus	2	10
01/16/02	Total Phosphorus	2	
04/17/02	Total Phosphorus	1.3	
04/17/02	Total Phosphorus	1.3	
04/17/02	Total Phosphorus	1.3	
08/06/02	Total Phosphorus	1.1	
08/06/02	Total Phosphorus	1.1	
08/06/02	Total Phosphorus	1.1	
10/02/02	Total Phosphorus	1	
10/02/02	Total Phosphorus	3	
02/04/03	Total Phosphorus	5	
02/04/03	Total Phosphorus	5	
02/04/03	Total Phosphorus	5	
04/24/03	Total Phosphorus	4	
04/24/03	Total Phosphorus	4	
04/24/03	Total Phosphorus	4	
07/23/03	Total Phosphorus	1	
07/24/03	Total Phosphorus	1	
07/24/03	Total Phosphorus	1	
01/10/02	Zinc	0.64	2.06
01/10/02	Zinc	0.08	
01/16/02	Zinc	0.05	
01/16/02	Zinc	0.14	
01/24/02	Zinc	<0.050	
01/24/02	Zinc	0.24	
02/07/02	Zinc	0.386	
02/08/02	Zinc	<0.050	
02/20/02	Zinc	0.062	
02/20/02	Zinc	0.086	
03/07/02	Zinc	0.07	
03/22/02	Zinc	0.128	
04/04/02	Zinc	<0.050	
04/04/02	Zinc	0.053	
04/17/02	Zinc	<0.04	
04/17/02	Zinc	0.04	
04/17/02	Zinc	0.06	
04/18/02	Zinc	<0.050	
04/18/02	Zinc	<0.050	
05/09/02	Zinc	0.08	
05/23/02	Zinc	0.05	
06/06/02	Zinc	<0.050	
06/20/02	Zinc	<0.050	
07/10/02	Zinc	0.109	
07/18/02	Zinc	0.051	
08/06/02	Zinc	0.03	
08/06/02	Zinc	0.13	
08/06/02	Zinc	0.23	
08/08/02	Zinc	<0.050	

General Electric College Street

Sample Date	Parameter	Result	Limit
08/22/02	Zinc	<0.050	
09/05/02	Zinc	0.062	
09/23/02	Zinc	<0.05	
10/02/02	Zinc	0.08	
10/02/02	Zinc	0.08	
10/09/02	Zinc	0.059	
10/24/02	Zinc	0.086	
11/07/02	Zinc	<0.050	
11/21/02	Zinc	<0.050	
12/05/02	Zinc	0.122	
12/19/02	Zinc	0.066	
01/09/03	Zinc	0.05	
01/23/03	Zinc	<0.050	
02/04/03	Zinc	0.16	
02/04/03	Zinc	0.19	
02/04/03	Zinc	0.57	
02/06/03	Zinc	0.052	
02/19/03	Zinc	0.642	
03/07/03	Zinc	0.055	
03/21/03	Zinc	0.083	
04/11/03	Zinc	<0.050	
04/24/03	Zinc	0.1	
04/24/03	Zinc	0.1	
04/24/03	Zinc	0.45	
04/25/03	Zinc	0.182	
05/09/03	Zinc	<0.050	
05/23/03	Zinc	0.172	
06/05/03	Zinc	<0.050	
06/19/03	Zinc	0.204	
07/17/03	Zinc	<0.050	
07/23/03	Zinc	0.1	
07/24/03	Zinc	0.08	
07/24/03	Zinc	0.05	
07/24/03	Zinc	<0.050	
08/07/03	Zinc	<0.050	
08/21/03	Zinc	<0.050	

Site Consumption

ny: GENERAL ELECTRIC CO
Name: College Alley

IWS Number: 5519
Site Number: 2

Begin	End	Water	Sewer
.2/15/2001	01/17/2002	1,037	1,037
)1/17/2002	02/13/2002	464	464
)2/13/2002	03/13/2002	628	131
)3/13/2002	04/11/2002	659	162
)4/11/2002	05/08/2002	900	403
)5/08/2002	06/12/2002	1,246	746
)6/12/2002	07/10/2002	1,744	1,249
)7/10/2002	08/12/2002	2,398	1,900
)8/12/2002	09/12/2002	1,871	1,871
)9/12/2002	10/10/2002	1,471	978
L0/10/2002	11/13/2002	935	441
L1/13/2002	12/12/2002	1,500	1,005
L1/13/2002	01/09/2003	1,663	1,000
)1/09/2003	02/12/2003	1,001	509
)2/12/2003	03/12/2003	440	440
)3/12/2003	04/10/2003	457	457
)4/10/2003	05/14/2003	713	279
)5/14/2003	06/12/2003	577	577
)6/12/2003	07/10/2003	1,307	835
)7/10/2003	08/14/2003	1,771	1,308
)8/14/2003	09/12/2003	1,313	841

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **03807**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
General Electric Company 2000 Taylor Street Fort Wayne, IN 46802	P.O. Box 2205 Fort Wayne, IN 46801-2205 Phone: (219) 428-4002

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 433.15 standards.

is permit shall become effective on **January 1, 2000.**

This permit and the authorization to discharge wastewater shall expire on **December 31, 2004.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

it via Certified mail to:

Name: Larry Porter
Title: EHS Coordinator

I. LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for Monthly Avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.53	0.20	2/year	composite
Chromium	2.13	1.32	2/year	composite
Copper	2.00	1.59	2/month	composite
Lead	0.53	0.33	2/year	composite
Nickel	3.00	1.83	2/year	composite
Silver	0.30	0.18	2/year	composite
Zinc	2.01	1.14	2/month	composite
Cyanide	0.92	0.50	2/year	grab
T.T.O.	1.64	N/A	2/year	
Oil & Grease	100	N/A	2/month	grab
pH	6.0-12.0	N/A	2/month	grab

QUIRED REPORTS

REPORT	DUE DATE
Discharge Monitoring Report (DMR)	due the 15th of each month, for the prior month sampling.
Compliance Monitoring Report (CMR)	June 28 and December 28 each year
Industrial Waste Questionnaire (IWQ)	January 15, each year
Baseline Monitoring Report (BMR) (Permit Application)	**October 31, 2004**

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

General Electric Taylor Street

Sample Date	Parameter	Result	Limit
01/16/02	Ammonia-Nitrogen	3.4	25
05/01/02	Ammonia-Nitrogen	4.9	
08/01/02	Ammonia-Nitrogen	2.5	
10/01/02	Ammonia-Nitrogen	3	
01/28/03	Ammonia-Nitrogen	3	
04/30/03	Ammonia-Nitrogen	1	
07/22/03	Ammonia-Nitrogen	5	
10/14/03	Ammonia-Nitrogen	5	
01/16/02	Biochemical Oxygen Demand 5 Day	20	300
05/01/02	Biochemical Oxygen Demand 5 Day	54	
08/01/02	Biochemical Oxygen Demand 5 Day	15	
10/01/02	Biochemical Oxygen Demand 5 Day	57	
01/28/03	Biochemical Oxygen Demand 5 Day	29	
04/30/03	Biochemical Oxygen Demand 5 Day	21	
07/22/03	Biochemical Oxygen Demand 5 Day	26	
10/14/03	Biochemical Oxygen Demand 5 Day	40	
01/16/02	Cadmium	<0.04	0.53
05/01/02	Cadmium	<0.04	
05/09/02	Cadmium	<0.030	
08/01/02	Cadmium	<0.01	
10/01/02	Cadmium	<0.01	
11/07/02	Cadmium	<0.030	
01/28/03	Cadmium	<0.01	
04/30/03	Cadmium	<0.01	
05/23/03	Cadmium	<0.001	
07/22/03	Cadmium	<0.01	
10/14/03	Cadmium	<0.01	
12/04/03	Cadmium	<0.0010	
01/16/02	Chemical Oxygen Demand	76	600
05/01/02	Chemical Oxygen Demand	218	
08/01/02	Chemical Oxygen Demand	80	
10/01/02	Chemical Oxygen Demand	172	
01/28/03	Chemical Oxygen Demand	101	
04/30/03	Chemical Oxygen Demand	54	
07/22/03	Chemical Oxygen Demand	144	
10/14/03	Chemical Oxygen Demand	103	
01/16/02	Chromium	<0.04	2.13
05/01/02	Chromium	<0.04	
05/09/02	Chromium	<0.040	
08/01/02	Chromium	<0.01	
10/01/02	Chromium	0.02	
11/07/02	Chromium	<0.040	
01/28/03	Chromium	<0.01	
04/30/03	Chromium	0.64	
05/23/03	Chromium	0.0082	
07/22/03	Chromium	<0.01	
10/14/03	Chromium	<0.01	
12/04/03	Chromium	<0.0020	
01/10/02	Copper	0.0144	2
01/16/02	Copper	<0.04	
01/18/02	Copper	0.0167	
01/23/02	Copper	0.0084	
02/06/02	Copper	0.0229	
02/19/02	Copper	0.0176	
03/06/02	Copper	0.0392	

General Electric Taylor Street

Sample Date	Parameter	Result	Limit
03/21/02	Copper	0.0272	
05/01/02	Copper	0.06	
05/09/02	Copper	0.362	
05/23/02	Copper	0.0307	
06/06/02	Copper	0.222	
06/20/02	Copper	0.43	
06/20/02	Copper	0.198	
07/18/02	Copper	0.524	
07/25/02	Copper	0.227	
08/01/02	Copper	0.58	
08/08/02	Copper	0.197	
08/22/02	Copper	0.317	
09/05/02	Copper	0.308	
09/20/02	Copper	0.268	
10/01/02	Copper	1.04	
10/09/02	Copper	0.0747	
10/24/02	Copper	0.143	
11/07/02	Copper	0.06	
11/21/02	Copper	0.0307	
12/05/02	Copper	0.0378	
12/19/02	Copper	0.0506	
01/09/03	Copper	0.0273	
01/23/03	Copper	0.397	
01/28/03	Copper	0.08	
02/06/03	Copper	0.0671	
02/19/03	Copper	0.355	
03/07/03	Copper	0.0542	
03/20/03	Copper	0.0466	
04/11/03	Copper	0.0416	
04/25/03	Copper	0.0277	
04/30/03	Copper	0.08	
05/09/03	Copper	0.0201	
05/23/03	Copper	0.0887	
06/05/03	Copper	0.246	
06/18/03	Copper	0.185	
07/17/03	Copper	0.379	
07/22/03	Copper	0.59	
07/24/03	Copper	0.252	
08/07/03	Copper	0.482	
08/21/03	Copper	0.417	
09/04/03	Copper	0.368	
09/18/03	Copper	0.315	
10/02/03	Copper	0.03	
10/14/03	Copper	0.09	
10/17/03	Copper	0.0268	
11/06/03	Copper	0.0212	
11/20/03	Copper	0.0265	
12/04/03	Copper	0.0329	
12/18/03	Copper	0.0558	
01/16/02	Lead	<0.04	0.53
05/01/02	Lead	<0.04	
05/09/02	Lead	<0.080	
08/01/02	Lead	<0.01	
10/01/02	Lead	0.05	
11/07/02	Lead	0.0037	

General Electric Taylor Street

Sample Date	Parameter	Result	Limit
01/28/03	Lead	<0.02	
04/30/03	Lead	<0.03	
05/23/03	Lead	0.0093	
07/22/03	Lead	<0.03	
10/14/03	Lead	<0.03	
12/04/03	Lead	0.0016	
01/16/02	Mercury	<0.000016	0.01
01/28/03	Mercury	0.000021	
01/16/02	Nickel	<0.04	3
05/01/02	Nickel	<0.04	
05/09/02	Nickel	<0.010	
08/01/02	Nickel	<0.01	
10/01/02	Nickel	0.01	
11/07/02	Nickel	<0.010	
01/28/03	Nickel	<0.01	
04/30/03	Nickel	0.92	
05/23/03	Nickel	0.0103	
07/22/03	Nickel	<0.01	
10/14/03	Nickel	<0.01	
12/04/03	Nickel	0.0063	
01/10/02	pH	6.7	6.0-12.0
01/16/02	pH	6.8	
01/23/02	pH	7.5	
02/06/02	pH	6.7	
02/19/02	pH	7.4	
03/06/02	pH	6.9	
03/21/02	pH	6.9	
05/01/02	pH	7.1	
05/09/02	pH	7.1	
05/23/02	pH	6.9	
06/06/02	pH	6.6	
06/20/02	pH	6.6	
07/18/02	pH	7.2	
07/25/02	pH	6.6	
08/01/02	pH	6.9	
08/08/02	pH	7.3	
08/22/02	pH	6.8	
09/05/02	pH	6.8	
09/20/02	pH	7.3	
10/01/02	pH	7.4	
10/09/02	pH	6.7	
10/24/02	pH	7.6	
11/07/02	pH	7.1	
11/21/02	pH	7.6	
12/05/02	pH	6.6	
12/19/02	pH	6.9	
01/09/03	pH	6.9	
01/23/03	pH	6.7	
01/28/03	pH	6.5	
02/06/03	pH	6.6	
02/19/03	pH	6.6	
03/07/03	pH	6.8	
03/20/03	pH	7.3	
04/11/03	pH	7.05	
04/25/03	pH	7.27	

General Electric Taylor Street

Sample Date	Parameter	Result	Limit
04/30/03	pH	6.1	
05/09/03	pH	7.44	
05/23/03	pH	6.22	
06/05/03	pH	7.91	
06/18/03	pH	8.57	
07/17/03	pH	7.72	
07/22/03	pH	8.3	
07/24/03	pH	7.52	
08/07/03	pH	7.42	
08/21/03	pH	7.74	
09/04/03	pH	8.19	
09/18/03	pH	7.77	
10/02/03	pH	8.16	
10/14/03	pH	7.4	
10/17/03	pH	7.86	
11/06/03	pH	8.1	
11/20/03	pH	7.64	
12/04/03	pH	7.68	
12/18/03	pH	7.81	
01/16/02	Silver	<0.04	0.3
05/01/02	Silver	<0.04	
05/09/02	Silver	<0.040	
08/01/02	Silver	<0.01	
10/01/02	Silver	<0.01	
11/07/02	Silver	<0.0005	
01/28/03	Silver	<0.01	
04/30/03	Silver	<0.01	
05/23/03	Silver	<0.0005	
07/22/03	Silver	<0.01	
10/14/03	Silver	<0.01	
12/04/03	Silver	<0.0005	
01/16/02	Tot. Suspended Solids	18	300
05/01/02	Tot. Suspended Solids	72	
08/01/02	Tot. Suspended Solids	43	
10/01/02	Tot. Suspended Solids	142	
01/28/03	Tot. Suspended Solids	26	
04/30/03	Tot. Suspended Solids	23	
07/22/03	Tot. Suspended Solids	74	
10/14/03	Tot. Suspended Solids	38	
01/16/02	Total Cyanide	0.005	0.92
05/01/02	Total Cyanide	0.0045	
08/01/02	Total Cyanide	0.0027	
10/01/02	Total Cyanide	0.00208	
11/07/02	Total Cyanide	0.0056	
01/28/03	Total Cyanide	0.0047	
04/30/03	Total Cyanide	<0.002	
05/23/03	Total Cyanide	0.0093	
07/22/03	Total Cyanide	0.0006	
10/14/03	Total Cyanide	0.004	
12/04/03	Total Cyanide	<0.005	
01/16/02	Total Phosphorus	34	10
05/01/02	Total Phosphorus	10.4	
08/01/02	Total Phosphorus	7.8	
10/01/02	Total Phosphorus	19	
01/28/03	Total Phosphorus	9	

General Electric Taylor Street

Sample Date	Parameter	Result	Limit
04/30/03	Total Phosphorus	0.79	
07/22/03	Total Phosphorus	5	
10/14/03	Total Phosphorus	4	
01/10/02	Zinc	<0.050	2.01
01/16/02	Zinc	0.04	
01/18/02	Zinc	<0.050	
01/23/02	Zinc	<0.050	
02/06/02	Zinc	0.197	
02/19/02	Zinc	0.149	
03/06/02	Zinc	0.292	
03/21/02	Zinc	0.379	
05/01/02	Zinc	0.36	
05/09/02	Zinc	0.494	
05/23/02	Zinc	0.308	
06/06/02	Zinc	0.429	
06/20/02	Zinc	0.396	
07/18/02	Zinc	0.486	
07/25/02	Zinc	0.567	
08/01/02	Zinc	0.46	
08/08/02	Zinc	0.508	
08/22/02	Zinc	0.426	
09/05/02	Zinc	0.696	
09/20/02	Zinc	0.664	
10/01/02	Zinc	1.34	
10/09/02	Zinc	0.649	
10/24/02	Zinc	0.676	
11/07/02	Zinc	0.777	
11/21/02	Zinc	0.587	
12/05/02	Zinc	0.923	
12/19/02	Zinc	1.11	
01/09/03	Zinc	0.461	
01/23/03	Zinc	1.76	
01/28/03	Zinc	0.83	
02/06/03	Zinc	0.789	
02/19/03	Zinc	0.593	
03/07/03	Zinc	0.65	
03/20/03	Zinc	0.549	
04/11/03	Zinc	0.704	
04/25/03	Zinc	0.588	
04/30/03	Zinc	0.12	
05/09/03	Zinc	0.465	
05/23/03	Zinc	0.885	
06/05/03	Zinc	0.675	
06/18/03	Zinc	0.264	
07/17/03	Zinc	0.416	
07/22/03	Zinc	0.58	
07/24/03	Zinc	0.5	
08/07/03	Zinc	0.541	
08/21/03	Zinc	0.468	
09/04/03	Zinc	0.601	
09/18/03	Zinc	0.406	
10/02/03	Zinc	0.387	
10/14/03	Zinc	0.83	
10/17/03	Zinc	0.474	
11/06/03	Zinc	0.232	

General Electric Taylor Street

Sample Date	Parameter	Result	Limit
11/20/03	Zinc	0.543	
12/04/03	Zinc	0.58	
12/18/03	Zinc	0.639	

:ompany: GENERAL ELECTRIC CO

IWS Number: 5519

;ite Name: Taylor Street

Site Number: 5

in	End	Water	Sewer
.2/15/2001	01/17/2002	3,400	1,775
)1/17/2002	02/13/2002	4,745	2,475
)2/13/2002	03/13/2002	3,000	1,598
)3/13/2002	04/11/2002	2,830	1,525
)4/11/2002	05/08/2002	3,240	1,782
)5/08/2002	06/12/2002	4,840	2,732
)6/12/2002	07/10/2002	4,290	2,404
)7/10/2002	08/12/2002	5,930	3,303
)8/12/2002	09/12/2002	7,340	4,230
)9/12/2002	10/10/2002	7,090	4,106
L0/10/2002	11/13/2002	7,700	4,463
L1/13/2002	12/12/2002	6,360	3,724
L2/12/2002	01/09/2003	5,944	3,472
)1/09/2003	02/12/2003	4,931	2,769
)2/12/2003	03/12/2003	6,060	3,696
)3/12/2003	04/10/2003	5,970	3,496
)4/10/2003	05/14/2003	6,805	3,934
)5/14/2003	06/12/2003	5,120	2,976
)6/12/2003	07/10/2003	2,555	1,986
)7/10/2003	08/14/2003	3,215	2,479
)8/14/2003	09/12/2003	3,170	2,406
)9/12/2003	10/08/2003	2,760	2,004
10/08/2003	11/12/2003	3,465	3,465
1[illegible]/2003	12/12/2003	2,790	1,852
1[illegible]/2003	01/14/2004	3,755	2,358

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **03802**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:

General Electric Company
1635 Broadway
Fort Wayne, IN 46802

Mailing Address:

General Electric Company
P.O. Box 2204
Fort Wayne, In 46801-2204
Phone: (219) 439-4009

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 433.15 standards.

This permit shall become effective on **September 4, 1998.**

This permit and the authorization to discharge wastewater shall expire on **September 4, 2003.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Manager of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

ent via Certified mail to:

Name: Larry Porter
Title: EHS Coordinator

I. LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for Monthly Avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.10	0.04	2/year	composite
Chromium	0.39	0.24	2/month	composite
Copper	0.47	0.29	2/year	composite
Lead	0.10	0.06	2/month	composite
Nickel	0.56	0.33	2/year	composite
Silver	0.06	0.03	2/year	composite
Zinc	0.37	0.21	2/month	composite
Cyanide	0.17	0.09	2/year	grab
T.T.O.	0.30	N/A	2/year	
pH	6.0-12.0	N/A	2/month	grab

REQUIRED REPORTS

'ORT	DUE DATE
Discharge Monitoring Report (DMR)	due the 15th of each month, for the prior month sampling.
Compliance Monitoring Report (CMR)	June 28 and December 28 each year
Industrial Waste Questionnaire (IWQ)	January 15, each year
Baseline Monitoring Report (BMR) (Permit Application)	**May 31, 2003**

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

General Electric Lindley

Sample Date	Parameter	Result	Limit
01/16/02	Ammonia-Nitrogen	2.8	25
05/01/02	Ammonia-Nitrogen	4.8	
10/01/02	Ammonia-Nitrogen	1	
01/29/03	Ammonia-Nitrogen	1	
04/29/03	Ammonia-Nitrogen	1	
07/24/03	Ammonia-Nitrogen	<3	
01/16/02	Biochemical Oxygen Demand 5 Day	13	300
05/01/02	Biochemical Oxygen Demand 5 Day	19	
10/01/02	Biochemical Oxygen Demand 5 Day	14	
01/29/03	Biochemical Oxygen Demand 5 Day	22	
04/29/03	Biochemical Oxygen Demand 5 Day	33	
07/24/03	Biochemical Oxygen Demand 5 Day	6	
01/16/02	Cadmium	<0.04	0.7
05/01/02	Cadmium	<0.04	
05/09/02	Cadmium	<0.030	
10/01/02	Cadmium	<0.01	
11/07/02	Cadmium	<0.030	
01/29/03	Cadmium	<0.01	
04/29/03	Cadmium	<0.01	
05/23/03	Cadmium	<0.001	
07/24/03	Cadmium	<0.01	
01/16/02	Chemical Oxygen Demand	60	600
05/01/02	Chemical Oxygen Demand	68	
10/01/02	Chemical Oxygen Demand	36	
01/29/03	Chemical Oxygen Demand	550	
04/29/03	Chemical Oxygen Demand	26	
07/24/03	Chemical Oxygen Demand	47	
01/16/02	Chromium	<0.04	10
03/22/02	Chromium	<0.0050	
03/25/02	Chromium	<0.0020	
05/01/02	Chromium	<0.04	
05/09/02	Chromium	<0.040	
05/23/02	Chromium	<0.002	
06/06/02	Chromium	<0.0020	
06/20/02	Chromium	<0.0020	
07/18/02	Chromium	<0.002	
07/25/02	Chromium	<0.002	
08/08/02	Chromium	<0.002	
08/22/02	Chromium	<0.002	
09/05/02	Chromium	<0.002	
09/20/02	Chromium	<0.002	
10/01/02	Chromium	<0.01	
10/09/02	Chromium	<0.002	
10/24/02	Chromium	<0.002	
11/07/02	Chromium	<0.040	
11/21/02	Chromium	<0.0020	
12/05/02	Chromium	<0.002	
12/19/02	Chromium	<0.002	
01/09/03	Chromium	<0.002	
01/23/03	Chromium	<0.002	
01/29/03	Chromium	<0.01	
02/06/03	Chromium	<0.002	
02/19/03	Chromium	<0.002	
03/07/03	Chromium	<0.0020	
03/20/03	Chromium	<0.0020	

General Electric Lindley

Sample Date	Parameter	Result	Limit
04/11/03	Chromium	<0.002	
04/25/03	Chromium	<0.002	
04/29/03	Chromium	<0.01	
05/09/03	Chromium	0.0024	
05/23/03	Chromium	<0.002	
06/05/03	Chromium	<0.0020	
06/19/03	Chromium	<0.0020	
07/17/03	Chromium	<0.0020	
07/24/03	Chromium	<0.01	
07/24/03	Chromium	<0.0020	
08/07/03	Chromium	<0.002	
08/21/03	Chromium	<0.002	
01/16/02	Copper	<0.04	2
04/04/02	Copper	0.04	
04/18/02	Copper	2.05	
05/01/02	Copper	0.15	
05/09/02	Copper	<0.020	
10/01/02	Copper	0.01	
11/07/02	Copper	<0.020	
01/29/03	Copper	0.03	
04/29/03	Copper	0.03	
05/23/03	Copper	0.0095	
07/24/03	Copper	0.01	
01/16/02	Lead	<0.04	0.6
03/22/02	Lead	0.0012	
03/25/02	Lead	0.0016	
05/01/02	Lead	0.04	
05/09/02	Lead	<0.080	
05/23/02	Lead	<0.001	
06/06/02	Lead	<0.0010	
06/20/02	Lead	<0.0010	
07/18/02	Lead	0.0018	
07/25/02	Lead	0.0025	
08/08/02	Lead	<0.001	
08/22/02	Lead	0.0018	
09/05/02	Lead	<0.001	
09/20/02	Lead	0.0025	
10/01/02	Lead	<0.02	
10/09/02	Lead	<0.001	
10/24/02	Lead	0.0057	
11/07/02	Lead	<0.0010	
11/21/02	Lead	0.0032	
12/05/02	Lead	0.0011	
12/19/02	Lead	<0.0010	
01/09/03	Lead	0.0023	
01/23/03	Lead	0.0045	
01/29/03	Lead	<0.02	
02/06/03	Lead	0.0091	
02/19/03	Lead	<0.002	
03/07/03	Lead	0.0099	
03/20/03	Lead	0.0036	
04/11/03	Lead	0.0018	
04/25/03	Lead	0.0021	
04/29/03	Lead	<0.03	
05/09/03	Lead	0.0177	

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Sample Date	Parameter	Result	Limit
05/23/03	Lead	<0.001	
06/05/03	Lead	<0.0010	
06/19/03	Lead	0.0011	
07/17/03	Lead	<0.0010	
07/24/03	Lead	<0.03	
07/24/03	Lead	0.0022	
08/07/03	Lead	<0.002	
08/21/03	Lead	0.0033	
01/16/02	Mercury	<0.000016	0.01
01/29/03	Mercury	0.000022	
01/16/02	Nickel	<0.04	3
05/01/02	Nickel	<0.04	
05/09/02	Nickel	<0.010	
10/01/02	Nickel	<0.01	
11/07/02	Nickel	<0.010	
01/29/03	Nickel	<0.01	
04/29/03	Nickel	<0.01	
05/23/03	Nickel	<0.005	
07/24/03	Nickel	<0.01	
01/16/02	pH	7.1	6.0-12.0
03/22/02	pH	8.2	
03/25/02	pH	8.2	
04/04/02	pH	6.6	
04/18/02	pH	7.2	
05/01/02	pH	7.5	
05/09/02	pH	7.2	
05/23/02	pH	7.2	
06/06/02	pH	7.1	
06/20/02	pH	7	
07/18/02	pH	7.1	
07/25/02	pH	7.2	
08/08/02	pH	6.9	
08/22/02	pH	6.9	
09/05/02	pH	6.7	
09/20/02	pH	7.1	
10/01/02	pH	7.7	
10/09/02	pH	6.6	
10/24/02	pH	7.5	
11/07/02	pH	7.1	
11/21/02	pH	7.3	
12/05/02	pH	7.4	
12/19/02	pH	8.2	
01/09/03	pH	7.3	
01/23/03	pH	8	
01/29/03	pH	7.8	
02/06/03	pH	8.3	
02/19/03	pH	7	
03/07/03	pH	9.3	
03/20/03	pH	7.8	
04/11/03	pH	7	
04/25/03	pH	7.3	
04/29/03	pH	6.2	
05/09/03	pH	7.21	
05/23/03	pH	6.55	
06/05/03	pH	6.78	

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Sample Date	Parameter	Result	Limit
06/19/03	pH	7.2	
07/17/03	pH	6.75	
07/24/03	pH	6.5	
07/24/03	pH	7.1	
08/07/03	pH	7.15	
08/21/03	pH	7.15	
01/16/02	Silver	<0.04	0.3
05/01/02	Silver	<0.04	
05/09/02	Silver	<0.040	
10/01/02	Silver	<0.01	
11/07/02	Silver	<0.0005	
01/29/03	Silver	<0.01	
04/29/03	Silver	<0.01	
05/23/03	Silver	<0.0005	
07/24/03	Silver	<0.01	
01/16/02	Tot. Suspended Solids	10	300
05/01/02	Tot. Suspended Solids	45	
10/01/02	Tot. Suspended Solids	13	
01/29/03	Tot. Suspended Solids	12	
04/29/03	Tot. Suspended Solids	64	
07/24/03	Tot. Suspended Solids	6	
01/16/02	Total Cyanide	0.0007	1.2
05/09/02	Total Cyanide	0.01	
10/01/02	Total Cyanide	0.0003	
11/07/02	Total Cyanide	0.0082	
01/29/03	Total Cyanide	0.011	
04/29/03	Total Cyanide	<0.002	
05/23/03	Total Cyanide	0.0055	
07/24/03	Total Cyanide	0.0025	
01/16/02	Total Phosphorus	0.6	10
05/01/02	Total Phosphorus	0.5	
10/01/02	Total Phosphorus	1	
01/29/03	Total Phosphorus	0.256	
04/29/03	Total Phosphorus	1	
07/24/03	Total Phosphorus	1	
01/16/02	Zinc	<0.04	6
03/22/02	Zinc	<0.050	
03/25/02	Zinc	<0.050	
04/04/02	Zinc	0.401	
04/18/02	Zinc	1.72	
05/01/02	Zinc	0.12	
05/09/02	Zinc	<0.050	
05/23/02	Zinc	<0.050	
06/06/02	Zinc	<0.050	
06/20/02	Zinc	<0.050	
07/18/02	Zinc	<0.050	
07/25/02	Zinc	<0.050	
08/08/02	Zinc	<0.050	
08/22/02	Zinc	<0.050	
09/05/02	Zinc	<0.050	
09/20/02	Zinc	<0.050	
10/01/02	Zinc	0.04	
10/09/02	Zinc	<0.05	
10/24/02	Zinc	<0.05	
11/07/02	Zinc	<0.050	

General Electric Lindley

Sample Date	Parameter	Result	Limit
11/21/02	Zinc	0.05	
12/05/02	Zinc	0.102	
12/19/02	Zinc	<0.050	
01/09/03	Zinc	<0.050	
01/23/03	Zinc	<0.050	
01/29/03	Zinc	0.09	
02/06/03	Zinc	0.064	
02/19/03	Zinc	<0.050	
03/07/03	Zinc	<0.050	
03/20/03	Zinc	<0.050	
04/11/03	Zinc	<0.050	
04/25/03	Zinc	<0.050	
04/29/03	Zinc	0.07	
05/09/03	Zinc	0.098	
05/23/03	Zinc	<0.050	
06/05/03	Zinc	<0.050	
06/19/03	Zinc	<0.050	
07/17/03	Zinc	<0.050	
07/24/03	Zinc	0.05	
07/24/03	Zinc	<0.050	
08/07/03	Zinc	<0.050	
08/21/03	Zinc	<0.050	

:ompany: GENERAL ELECTRIC CO
:ite Name: Lindley gate

IWS Number: 5519
Site Number: 6

in	End	Water	Sewer
.2/15/2001	01/17/2002	4,125	3,712
)1/17/2002	02/13/2002	6,007	5,406
)2/13/2002	03/13/2002	4,068	3,661
)3/13/2002	04/11/2002	761	685
)3/13/2002	05/08/2002	9,000	4,500
)3/13/2002	06/19/2002	9,000	0
)6/19/2002	07/10/2002	8,421	7,570
)7/10/2002	08/12/2002	9,492	8,543
)8/12/2002	09/12/2002	7,929	7,639
)9/12/2002	10/10/2002	7,743	6,969
L0/10/2002	11/13/2002	9,620	8,658
L1/13/2002	12/12/2002	8,459	7,613
L2/12/2002	01/09/2003	7,465	6,718
)1/09/2003	02/12/2003	7,798	7,018
)2/12/2003	03/12/2003	5,644	5,127
)3/12/2003	04/10/2003	2,976	2,747
)4/10/2003	05/14/2003	8,500	7,650
)4/10/2003	08/14/2003	8,188	3,527
)5/14/2003	06/12/2003	9,000	8,141
)6/12/2003	07/10/2003	25,921	7,579
)8/14/2003	09/12/2003	2,097	1,887

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **03701**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
General Motors Corporation Fort Wayne Assembly 12200 Lafayette Center Road Roanoke, IN 46783	Same Phone: (260) 673-2100

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 433.17 standards.

s permit shall become effective on **December 18, 2003.**

This permit and the authorization to discharge wastewater shall expire on **December 18, 2008.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

t via Certified mail to:

George Kioultzopoulos

Permit 03701

I. LIMITATIONS and MONITORING REQUIREMENTS

General Motors Corporation will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	**Maximum for any one day mg/l**	**Maximum for Monthly Avg. mg/l**	Self-**Monitoring Frequency**	**Sample Type**
Cadmium	0.08	0.05	2/year	composite
Chromium	1.99	1.23	2/year	composite
Copper	2.00	1.49	2/year	composite
d	0.50	0.31	2/month	composite
ckel	2.87	1.71	2/year	composite
Silver	0.30	0.17	2/year	composite
Zinc	1.88	1.07	2/month	composite
Cyanide	0.86	0.47	2/year	grab
T.T.O.	1.53	N/A	2/year	
pH	6.0-12.0		2/month	grab

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume lected at equal time intervals (no more than 2 hours apart) over the ily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

General Motors Corp.

Sample Date	Parameter	Result	Limit
03/19/02	Ammonia-Nitrogen	25	25
06/18/02	Ammonia-Nitrogen	4.98	
09/17/02	Ammonia-Nitrogen	15	
12/12/02	Ammonia-Nitrogen	18	
03/12/03	Ammonia-Nitrogen	9	
06/12/03	Ammonia-Nitrogen	4	
09/04/03	Ammonia-Nitrogen	14	
12/03/03	Ammonia-Nitrogen	5	
03/19/02	Biochemical Oxygen Demand 5 Day	245	300
06/18/02	Biochemical Oxygen Demand 5 Day	81	
09/17/02	Biochemical Oxygen Demand 5 Day	100	
12/12/02	Biochemical Oxygen Demand 5 Day	80	
03/12/03	Biochemical Oxygen Demand 5 Day	120	
06/12/03	Biochemical Oxygen Demand 5 Day	76	
09/04/03	Biochemical Oxygen Demand 5 Day	54	
12/03/03	Biochemical Oxygen Demand 5 Day	55	
03/19/02	Cadmium	<0.04	0.08
05/10/02	Cadmium	<0.01	
06/18/02	Cadmium	<0.01	
09/17/02	Cadmium	<0.01	
11/12/02	Cadmium	0.04	
12/12/02	Cadmium	< 0.01	
03/12/03	Cadmium	<0.01	
05/27/03	Cadmium	0.01	
06/12/03	Cadmium	<0.01	
09/04/03	Cadmium	<0.01	
11/11/03	Cadmium	0.01	
12/03/03	Cadmium	<0.01	
03/19/02	Chemical Oxygen Demand	447	600
06/18/02	Chemical Oxygen Demand	253	
09/17/02	Chemical Oxygen Demand	319	
12/12/02	Chemical Oxygen Demand	235	
03/12/03	Chemical Oxygen Demand	453	
06/12/03	Chemical Oxygen Demand	260	
09/04/03	Chemical Oxygen Demand	162	
12/03/03	Chemical Oxygen Demand	221	
03/19/02	Chromium	<0.04	1.99
05/10/02	Chromium	<0.01	
06/18/02	Chromium	0.02	
09/17/02	Chromium	<0.01	
11/12/02	Chromium	0.08	
12/12/02	Chromium	< 0.01	
03/12/03	Chromium	<0.01	
05/27/03	Chromium	0.01	
06/12/03	Chromium	<0.01	
09/04/03	Chromium	<0.01	
11/11/03	Chromium	0.02	
12/03/03	Chromium	<0.01	
03/19/02	Copper	0.06	2
05/10/02	Copper	<0.01	
06/18/02	Copper	0.01	
09/17/02	Copper	0.02	
11/12/02	Copper	0.04	
12/12/02	Copper	0.015	
03/12/03	Copper	0.04	

General Motors Corp.

Sample Date	Parameter	Result	Limit
05/27/03	Copper	0.04	
06/12/03	Copper	0.02	
09/04/03	Copper	0.01	
11/11/03	Copper	0.07	
12/03/03	Copper	0.05	
01/11/02	Lead	0.02	0.5
01/25/02	Lead	Not detected	
02/15/02	Lead	0.04	
02/22/02	Lead	0.02	
03/08/02	Lead	0.01	
03/19/02	Lead	<0.04	
03/22/02	Lead	0.08	
04/12/02	Lead	0.01	
04/26/02	Lead	0.03	
05/10/02	Lead	<0.02	
05/24/02	Lead	<0.02	
06/07/02	Lead	<0.02	
06/18/02	Lead	<0.01	
06/19/02	Lead	<0.02	
07/17/02	Lead	0.01	
07/31/02	Lead	0.01	
08/07/02	Lead	0.01	
08/21/02	Lead	0.01	
09/11/02	Lead	0.01	
09/17/02	Lead	<0.02	
09/18/02	Lead	0.01	
09/25/02	Lead	0.01	
10/09/02	Lead	0.01	
10/23/02	Lead	0.01	
11/12/02	Lead	0.01	
11/26/02	Lead	0.01	
12/06/02	Lead	0.01	
12/12/02	Lead	< 0.02	
12/13/02	Lead	0.01	
12/18/02	Lead	0.01	
01/09/03	Lead	0.01	
01/22/03	Lead	0.01	
02/05/03	Lead	0.01	
02/21/03	Lead	0.01	
03/12/03	Lead	<0.02	
03/12/03	Lead	0.01	
03/13/03	Lead	0.01	
03/26/03	Lead	0.01	
04/09/03	Lead	0.01	
04/26/03	Lead	0.01	
05/08/03	Lead	0.01	
05/27/03	Lead	0.01	
06/12/03	Lead	<0.03	
06/13/03	Lead	0.01	
06/13/03	Lead	0.01	
06/26/03	Lead	0.01	
06/26/03	Lead	0.01	
07/17/03	Lead	0.01	
07/30/03	Lead	0.01	
08/06/03	Lead	0.01	

General Motors Corp.

Sample Date	Parameter	Result	Limit
08/27/03	Lead	0.01	
09/04/03	Lead	<0.03	
09/05/03	Lead	0.01	
09/24/03	Lead	0.01	
10/16/03	Lead	0.01	
10/29/03	Lead	0.01	
11/11/03	Lead	0.01	
11/25/03	Lead	0.01	
12/03/03	Lead	<0.03	
12/04/03	Lead	0.01	
12/17/03	Lead	0.01	
03/19/02	Mercury	0.0024	0.01
03/12/03	Mercury	0.000009	
03/19/02	Nickel	<0.04	2.87
05/10/02	Nickel	0.14	
06/18/02	Nickel	0.12	
09/17/02	Nickel	0.1	
11/12/02	Nickel	0.11	
12/12/02	Nickel	0.12	
03/12/03	Nickel	0.08	
05/27/03	Nickel	0.18	
06/12/03	Nickel	0.17	
09/04/03	Nickel	0.07	
11/11/03	Nickel	0.11	
12/03/03	Nickel	0.12	
01/11/02	pH	8.9	6.0-12.0
01/25/02	pH	8.8	
02/15/02	pH	8.6	
02/22/02	pH	8.3	
03/08/02	pH	8.2	
03/19/02	pH	9.7	
03/22/02	pH	9.4	
04/12/02	pH	9.1	
04/26/02	pH	8.2	
05/10/02	pH	9.3	
05/24/02	pH	8.7	
06/07/02	pH	8.3	
06/18/02	pH	7.6	
06/19/02	pH	9.1	
07/17/02	pH	7.7	
07/31/02	pH	7.6	
08/07/02	pH	8.2	
08/21/02	pH	9.4	
09/11/02	pH	7.8	
09/17/02	pH	8.1	
09/18/02	pH	8.4	
09/25/02	pH	8.1	
10/09/02	pH	8.4	
10/23/02	pH	8.2	
11/12/02	pH	8.7	
11/26/02	pH	7.8	
12/06/02	pH	9.1	
12/12/02	pH	8.25	
12/13/02	pH	9.6	
12/18/02	pH	8.2	

General Motors Corp.

Sample Date	Parameter	Result	Limit
01/09/03	pH	8.7	
01/22/03	pH	9.6	
02/05/03	pH	9.3	
02/21/03	pH	8.1	
03/12/03	pH	9.5	
03/12/03	pH	8.02	
03/13/03	pH	8.3	
03/26/03	pH	8.2	
04/09/03	pH	8.6	
04/26/03	pH	7.8	
05/08/03	pH	7.83	
05/27/03	pH	9.2	
06/12/03	pH	10	
06/13/03	pH	9.2	
06/13/03	pH	9.2	
06/26/03	pH	9.2	
06/26/03	pH	9.2	
07/17/03	pH	7.6	
07/30/03	pH	7.8	
08/06/03	pH	10	
08/27/03	pH	7.2	
09/04/03	pH	7.4	
09/05/03	pH	8.3	
09/24/03	pH	9.6	
10/16/03	pH	8.2	
10/29/03	pH	8	
11/11/03	pH	8.2	
11/25/03	pH	8	
12/03/03	pH	9.9	
12/04/03	pH	8.4	
12/17/03	pH	9	
03/19/02	Silver	<0.04	0.3
05/10/02	Silver	<0.01	
06/18/02	Silver	<0.01	
09/17/02	Silver	<0.01	
11/12/02	Silver	0.04	
12/12/02	Silver	< 0.01	
03/12/03	Silver	<0.01	
05/27/03	Silver	0.01	
06/12/03	Silver	<0.01	
09/04/03	Silver	<0.01	
11/11/03	Silver	0.01	
12/03/03	Silver	<0.01	
03/19/02	Tot. Suspended Solids	210	300
06/18/02	Tot. Suspended Solids	74	
09/17/02	Tot. Suspended Solids	93	
12/12/02	Tot. Suspended Solids	42	
03/12/03	Tot. Suspended Solids	126	
06/12/03	Tot. Suspended Solids	143	
09/04/03	Tot. Suspended Solids	50	
12/03/03	Tot. Suspended Solids	112	
03/19/02	Total Cyanide	0.001	0.86
05/10/02	Total Cyanide	<0.002	
06/18/02	Total Cyanide	0.0006	
09/17/02	Total Cyanide	0.00042	

General Motors Corp.

Sample Date	Parameter	Result	Limit
11/12/02	Total Cyanide	0.02	
12/12/02	Total Cyanide	0.00054	
03/12/03	Total Cyanide	0.0005	
05/27/03	Total Cyanide	0.02	
06/12/03	Total Cyanide	0.002	
09/04/03	Total Cyanide	0.0002	
11/11/03	Total Cyanide	0.02	
12/03/03	Total Cyanide	0.00065	
03/19/02	Total Phosphorus	5.4	10
06/18/02	Total Phosphorus	1.1	
09/17/02	Total Phosphorus	4	
12/12/02	Total Phosphorus	5	
03/12/03	Total Phosphorus	4	
06/12/03	Total Phosphorus	4	
09/04/03	Total Phosphorus	3	
12/03/03	Total Phosphorus	2.769	
01/11/02	Zinc	0.42	1.88
01/25/02	Zinc	0.14	
02/15/02	Zinc	0.55	
02/22/02	Zinc	0.26	
03/08/02	Zinc	0.2	
03/19/02	Zinc	0.05	
03/22/02	Zinc	0.56	
04/12/02	Zinc	0.07	
04/26/02	Zinc	0.34	
05/10/02	Zinc	0.05	
05/24/02	Zinc	0.12	
06/07/02	Zinc	0.07	
06/18/02	Zinc	0.16	
06/19/02	Zinc	0.11	
07/17/02	Zinc	0.09	
07/31/02	Zinc	0.07	
08/07/02	Zinc	0.19	
08/21/02	Zinc	0.18	
09/11/02	Zinc	0.09	
09/17/02	Zinc	0.22	
09/18/02	Zinc	0.19	
09/25/02	Zinc	0.16	
10/09/02	Zinc	0.06	
10/23/02	Zinc	0.21	
11/12/02	Zinc	0.08	
11/26/02	Zinc	0.11	
12/06/02	Zinc	0.14	
12/12/02	Zinc	0.095	
12/13/02	Zinc	0.1	
12/18/02	Zinc	0.13	
01/09/03	Zinc	0.07	
01/22/03	Zinc	0.08	
02/05/03	Zinc	0.09	
02/21/03	Zinc	0.06	
03/12/03	Zinc	0.23	
03/12/03	Zinc	0.17	
03/13/03	Zinc	0.11	
03/26/03	Zinc	0.09	
04/09/03	Zinc	0.88	

General Motors Corp.

Sample Date	Parameter	Result	Limit
04/26/03	Zinc	1.08	
05/08/03	Zinc	0.89	
05/27/03	Zinc	0.68	
06/12/03	Zinc	0.14	
06/13/03	Zinc	0.13	
06/13/03	Zinc	0.26	
06/26/03	Zinc	0.26	
06/26/03	Zinc	0.25	
07/17/03	Zinc	0.15	
07/30/03	Zinc	0.17	
08/06/03	Zinc	0.17	
08/27/03	Zinc	0.1	
09/04/03	Zinc	0.12	
09/05/03	Zinc	0.09	
09/24/03	Zinc	0.09	
10/16/03	Zinc	0.15	
10/29/03	Zinc	0.11	
11/11/03	Zinc	0.27	
11/25/03	Zinc	0.12	
12/03/03	Zinc	0.42	
12/04/03	Zinc	0.13	
12/17/03	Zinc	0.14	

Site Consumption

:ompany: GENERAL MOTORS
:ite Name: GENERAL MOTORS FW

IWS Number: 223
Site Number: 1

Begin	End	Water	Sewer
.2/13/2001	01/10/2002	26,288	23,659
)1/11/2002	02/08/2002	32,969	29,672
)2/09/2002	03/14/2002	39,643	35,679
)3/15/2002	04/11/2002	32,528	29,275
)4/12/2002	05/10/2002	33,662	30,296
)5/11/2002	06/14/2002	40,263	36,237
)6/15/2002	07/10/2002	40,263	36,237
)7/11/2002	08/13/2002	34,405	30,965
)8/14/2002	09/13/2002	41,936	37,742
)9/14/2002	10/14/2002	42,749	38,474
10/15/2002	11/19/2002	44,111	39,700
11/20/2002	12/06/2002	26,708	24,037
12/07/2002	01/10/2003	23,086	20,777
)1/11/2003	02/13/2003	38,168	34,351
)2/14/2003	03/14/2003	33,039	29,735

DO NOT KNOW why DATA ENDS.

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INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **03921**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Harris Kayot, Inc. 2801 West State Blvd. Fort Wayne, IN 46808	Same

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 433.17 standards.

s permit shall become effective on **July 31, 2003.**

This permit and the authorization to discharge wastewater shall expire on **July 31, 2008.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

t via Certified mail to:

Name: Barron Biedenweg

Permit 03921

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **Harris Kayot** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for Monthly Avg. mg/l	Self-Monitoring Frequency	Sample Type
pH	6.0-12.0	N/A	2/year	grab
Cadmium	0.07	0.04	2/year	composite
Chromium	1.75	1.08	2/year	composite
Copper	2.00	1.30	2/year	composite
Lead	0.43	0.27	2/year	composite
Nickel	2.51	1.50	2/year	composite
Silver	0.27	0.15	2/year	composite
Zinc	1.64	0.93	2/year	composite
Cyanide	0.76	0.41	2/year	grab
T.T.O.	1.34	N/A	2/year	

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

C. Location of sampling:

All samples must be collected from the control manhole located near the sidewalk along State Blvd. Sampling points shall not be changed without notification to and the approval of the City of Fort Wayne.

D. Basis for pollutant

Harris Kayot

Sample Date	Parameter	Result	Limit
01/29/02	Ammonia-Nitrogen	4.7	25
04/09/02	Ammonia-Nitrogen	2	
08/07/02	Ammonia-Nitrogen	4.84	
10/16/02	Ammonia-Nitrogen	3	
02/05/03	Ammonia-Nitrogen	2	
04/08/03	Ammonia-Nitrogen	2	
07/29/03	Ammonia-Nitrogen	<3	
10/22/03	Ammonia-Nitrogen	3	
01/29/02	Biochemical Oxygen Demand 5 Day	14	300
04/09/02	Biochemical Oxygen Demand 5 Day	73	
08/07/02	Biochemical Oxygen Demand 5 Day	28	
10/16/02	Biochemical Oxygen Demand 5 Day	112	
02/05/03	Biochemical Oxygen Demand 5 Day	79	
04/08/03	Biochemical Oxygen Demand 5 Day	26	
07/29/03	Biochemical Oxygen Demand 5 Day	29	
10/22/03	Biochemical Oxygen Demand 5 Day	127	
01/29/02	Cadmium	<0.04	0.07
04/09/02	Cadmium	<0.04	
05/02/02	Cadmium	<0.005	
08/07/02	Cadmium	< 0.01	
10/16/02	Cadmium	<0.01	
02/05/03	Cadmium	<0.01	
04/08/03	Cadmium	<0.01	
05/15/03	Cadmium	<0.005	
07/29/03	Cadmium	<0.01	
10/22/03	Cadmium	<0.01	
11/07/03	Cadmium	<0.005	
01/29/02	Chemical Oxygen Demand	80	600
04/09/02	Chemical Oxygen Demand	240	
08/07/02	Chemical Oxygen Demand	139	
10/16/02	Chemical Oxygen Demand	273	
02/05/03	Chemical Oxygen Demand	211	
07/29/03	Chemical Oxygen Demand	114	
10/22/03	Chemical Oxygen Demand	404	
01/29/02	Chromium	0.07	1.75
04/09/02	Chromium	0.18	
05/02/02	Chromium	0.031	
08/07/02	Chromium	0.41	
10/16/02	Chromium	0.06	
02/05/03	Chromium	0.07	
04/08/03	Chromium	0.07	
05/15/03	Chromium	0.125	
07/29/03	Chromium	0.02	
10/22/03	Chromium	0.02	
11/07/03	Chromium	0.033	
01/29/02	Copper	<0.04	2
04/09/02	Copper	0.05	
05/02/02	Copper	0.023	
08/07/02	Copper	0.05	
10/16/02	Copper	0.04	
02/05/03	Copper	0.07	
04/08/03	Copper	0.06	
05/15/03	Copper	0.026	
07/29/03	Copper	0.01	
10/22/03	Copper	0.04	

Harris Kayot

Sample Date	Parameter	Result	Limit
11/07/03	Copper	0.027	
01/29/02	Lead	<0.04	0.43
04/09/02	Lead	0.13	
05/02/02	Lead	<0.005	
08/07/02	Lead	0.28	
10/16/02	Lead	<0.02	
02/05/03	Lead	<0.02	
04/08/03	Lead	<0.03	
05/15/03	Lead	<0.005	
07/29/03	Lead	<0.03	
10/22/03	Lead	<0.03	
11/07/03	Lead	<0.005	
01/29/02	Mercury	<0.000016	0.01
02/05/03	Mercury	0.000016	
01/29/02	Nickel	<0.04	2.51
04/09/02	Nickel	<0.04	
05/02/02	Nickel	<0.005	
08/07/02	Nickel	< 0.01	
10/16/02	Nickel	<0.01	
02/05/03	Nickel	<0.01	
04/08/03	Nickel	<0.01	
05/15/03	Nickel	<0.005	
07/29/03	Nickel	<0.01	
10/22/03	Nickel	<0.01	
11/07/03	Nickel	<0.005	
01/29/02	pH	9.6	6.0-12.0
04/09/02	pH	10.1	
05/01/02	pH	7.5	
05/02/02	pH	8.2	
05/15/02	pH	7	
08/07/02	pH	10.3	
10/16/02	pH	10.6	
02/05/03	pH	9.5	
04/08/03	pH	8.9	
05/02/03	pH	7	
05/15/03	pH	7.39	
05/15/03	pH	7	
07/29/03	pH	7.3	
10/22/03	pH	9.4	
11/05/03	pH	7	
11/07/03	pH	10.2	
11/17/03	pH	6.5	
01/29/02	Silver	<0.04	0.27
04/09/02	Silver	<0.04	
05/02/02	Silver	<.01	
08/07/02	Silver	< 0.01	
10/16/02	Silver	<0.01	
02/05/03	Silver	<0.01	
04/08/03	Silver	<0.01	
05/15/03	Silver	<0.005	
07/29/03	Silver	<0.01	
10/22/03	Silver	<0.01	
11/07/03	Silver	<0.005	
01/29/02	Tot. Suspended Solids	140	300
04/09/02	Tot. Suspended Solids	412	

Harris Kayot

Sample Date	Parameter	Result	Limit
08/07/02	Tot. Suspended Solids	344	
10/16/02	Tot. Suspended Solids	214	
02/05/03	Tot. Suspended Solids	256	
04/08/03	Tot. Suspended Solids	159	
07/29/03	Tot. Suspended Solids	68	
10/22/03	Tot. Suspended Solids	240	
01/29/02	Total Cyanide	0.0019	0.76
04/09/02	Total Cyanide	0.0011	
05/02/02	Total Cyanide	<0.02	
08/07/02	Total Cyanide	0.0044	
10/16/02	Total Cyanide	0.0082	
02/05/03	Total Cyanide	0.0051	
04/08/03	Total Cyanide	<0.002	
05/15/03	Total Cyanide	0.027	
07/29/03	Total Cyanide	0.00029	
10/22/03	Total Cyanide	0.003	
11/07/03	Total Cyanide	0.008	
01/29/02	Total Phosphorus	0.5	10
04/09/02	Total Phosphorus	3.9	
08/07/02	Total Phosphorus	0.873	
10/16/02	Total Phosphorus	2	
02/05/03	Total Phosphorus	2	
04/08/03	Total Phosphorus	1.1	
07/29/03	Total Phosphorus	0.86	
10/22/03	Total Phosphorus	3	
01/29/02	Zinc	<0.04	1.64
04/09/02	Zinc	0.06	
05/02/02	Zinc	<0.02	
08/07/02	Zinc	0.61	
10/16/02	Zinc	0.06	
02/05/03	Zinc	0.08	
04/08/03	Zinc	0.04	
05/15/03	Zinc	0.022	
07/29/03	Zinc	0.02	
10/22/03	Zinc	0.08	
11/07/03	Zinc	0.074	

Site Consumption

ny: HARRIS-KAYOT, INC
Name: Harris Kayot

IWS Number: 6107
Site Number: 1

Begin	End	Water	Sewer
2/17/2001	01/15/2002	124	124
1/15/2002	02/15/2002	304	304
2/15/2002	03/12/2002	285	285
3/12/2002	04/15/2002	335	335
4/15/2002	05/15/2002	255	255
5/15/2002	06/19/2002	348	348
6/19/2002	07/19/2002	204	204
7/19/2002	08/13/2002	215	215
8/13/2002	09/17/2002	330	330
9/17/2002	10/14/2002	211	211
10/14/2002	11/15/2002	223	223
11/15/2002	12/11/2002	181	181
12/11/2002	01/15/2003	228	228
01/15/2003	02/11/2003	195	195
02/11/2003	03/14/2003	240	240
03/14/2003	04/08/2003	216	216
04/08/2003	05/12/2003	368	368
05/12/2003	06/11/2003	317	317
06/11/2003	07/14/2003	257	257
07/14/2003	08/08/2003	194	194
08/08/2003	09/10/2003	295	295
09 0/2003	10/08/2003	216	216
1 3/2003	11/12/2003	339	339
11/12/2003	12/12/2003	229	229
12/12/2003	01/15/2004	336	336

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **04661**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Johnson Controls Battery Group, Inc. 8710 Indianapolis Road Fort Wayne, IN 46809	Same Phone: (219) 478-7287

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 403 standards.

This permit shall become effective on **August 1, 1999.**

This permit and the authorization to discharge wastewater shall expire on **July 31, 2004.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

Sent via Certified mail to:

Name: Iris Williams
Title: DC Manager

Permit 04661

I. DISCHARGE LIMITATIONS, SELF-MONITORING, AND REQUIRED REPORTS

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Self-Monitoring Frequency	Sample Type
pH	6.0-12.0	2/month	grab
Lead	0.60	2/month	composite

REQUIRED REPORTS

REPORT	DUE DATE
Discharge Monitoring Report (DMR)	due the 15th of each month, for the prior month sampling.
Compliance Monitoring Report (CMR)	June 28 and December 28 each year
ustrial Waste Questionnaire (IWQ)	January 15, each year
Baseline Monitoring Report (BMR) (Permit Application)	**June 1, 2004**

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

Revised 8/11/03

Johnson Controls

Sample Date	Parameter	Result	Limit
02/13/02	Ammonia-Nitrogen	6	25
05/08/02	Ammonia-Nitrogen	0.61	
08/14/02	Ammonia-Nitrogen	18.7	
10/30/02	Ammonia-Nitrogen	9	
02/12/03	Ammonia-Nitrogen	32	
05/14/03	Ammonia-Nitrogen	22	
08/20/03	Ammonia-Nitrogen	53	
11/12/03	Ammonia-Nitrogen	40	
02/13/02	Biochemical Oxygen Demand 5 Day	265	300
05/08/02	Biochemical Oxygen Demand 5 Day	110	
08/14/02	Biochemical Oxygen Demand 5 Day	116	
10/30/02	Biochemical Oxygen Demand 5 Day	40	
02/12/03	Biochemical Oxygen Demand 5 Day	55	
05/14/03	Biochemical Oxygen Demand 5 Day	747	
08/20/03	Biochemical Oxygen Demand 5 Day	117	
11/12/03	Biochemical Oxygen Demand 5 Day	192	
02/13/02	Cadmium	<0.04	0.7
05/08/02	Cadmium	<0.04	
08/14/02	Cadmium	< 0.01	
10/30/02	Cadmium	<0.01	
02/12/03	Cadmium	<0.01	
05/14/03	Cadmium	<0.01	
08/20/03	Cadmium	<0.01	
11/12/03	Cadmium	<0.01	
02/13/02	Chemical Oxygen Demand	519	600
05/08/02	Chemical Oxygen Demand	194	
08/14/02	Chemical Oxygen Demand	207	
10/30/02	Chemical Oxygen Demand	50	
02/12/03	Chemical Oxygen Demand	147	
05/14/03	Chemical Oxygen Demand	1267	
08/20/03	Chemical Oxygen Demand	300	
11/12/03	Chemical Oxygen Demand	368	
02/13/02	Chromium	<0.04	10
05/08/02	Chromium	<0.04	
08/14/02	Chromium	< 0.01	
10/30/02	Chromium	<0.01	
02/12/03	Chromium	<0.01	
05/14/03	Chromium	<0.01	
08/20/03	Chromium	<0.01	
11/12/03	Chromium	<0.01	
02/13/02	Copper	0.07	2
05/08/02	Copper	0.08	
08/14/02	Copper	0.057	
10/30/02	Copper	0.15	
02/12/03	Copper	0.08	
05/14/03	Copper	0.07	
08/20/03	Copper	0.07	
11/12/03	Copper	0.09	
01/04/02	Lead	0.2	0.6
01/17/02	Lead	<0.10	
01/25/02	Lead	<0.10	
01/31/02	Lead	<0.10	
02/07/02	Lead	<0.10	
02/13/02	Lead	0.11	
02/14/02	Lead	<0.10	

Johnson Controls

Sample Date	Parameter	Result	Limit
02/21/02	Lead	<0.10	
02/28/02	Lead	<0.10	
03/07/02	Lead	0.14	
03/14/02	Lead	0.08	
03/21/02	Lead	<0.05	
03/28/02	Lead	<0.05	
04/04/02	Lead	0.05	
04/18/02	Lead	0.12	
04/25/02	Lead	0.1	
05/02/02	Lead	0.09	
05/08/02	Lead	0.65	
05/09/02	Lead	0.46	
05/16/02	Lead	0.06	
05/23/02	Lead	0.08	
05/30/02	Lead	<0.05	
06/06/02	Lead	0.14	
06/13/02	Lead	0.08	
06/20/02	Lead	0.26	
06/27/02	Lead	<0.05	
07/03/02	Lead	0.13	
07/11/02	Lead	0.28	
07/17/02	Lead	0.17	
07/18/02	Lead	0.21	
07/25/02	Lead	0.19	
08/01/02	Lead	<0.125	
08/08/02	Lead	<0.125	
08/14/02	Lead	0.12	
08/15/02	Lead	<0.125	
08/22/02	Lead	0.29	
08/29/02	Lead	0.51	
09/05/02	Lead	0.3	
09/12/02	Lead	0.3	
09/19/02	Lead	0.22	
09/26/02	Lead	<0.125	
10/03/02	Lead	<0.125	
10/10/02	Lead	0.26	
10/17/02	Lead	0.5	
10/24/02	Lead	1.09	
10/30/02	Lead	0.82	
10/31/02	Lead	1.01	
11/07/02	Lead	<0.125	
11/14/02	Lead	0.28	
11/21/02	Lead	<0.125	
11/26/02	Lead	0.17	
12/05/02	Lead	0.16	
12/12/02	Lead	0.41	
12/19/02	Lead	0.29	
12/26/02	Lead	0.28	
12/27/02	Lead	0.21	
01/03/03	Lead	0.15	
01/09/03	Lead	0.1	
01/16/03	Lead	0.32	
01/22/03	Lead	0.11	
01/30/03	Lead	0.27	
02/06/03	Lead	0.3	

Johnson Controls

Sample Date	Parameter	Result	Limit
02/12/03	Lead	0.09	
02/13/03	Lead	0.15	
02/20/03	Lead	0.08	
02/27/03	Lead	0.15	
03/06/03	Lead	0.05	
03/13/03	Lead	0.14	
03/21/03	Lead	0.13	
03/27/03	Lead	0.15	
04/03/03	Lead	0.04	
04/10/03	Lead	0.09	
04/17/03	Lead	0.07	
04/24/03	Lead	0.03	
05/01/03	Lead	0.09	
05/08/03	Lead	0.04	
05/14/03	Lead	<0.03	
05/15/03	Lead	0.03	
05/22/03	Lead	0.05	
05/30/03	Lead	0.01	
06/06/03	Lead	<0.01	
06/12/03	Lead	0.04	
06/18/03	Lead	<0.01	
06/26/03	Lead	0.11	
07/02/03	Lead	0.09	
07/10/03	Lead	0.21	
07/17/03	Lead	0.52	
07/24/03	Lead	0.16	
07/31/03	Lead	0.04	
08/07/03	Lead	0.05	
08/14/03	Lead	0.11	
08/20/03	Lead	0.11	
08/21/03	Lead	0.05	
09/05/03	Lead	0.4	
09/12/03	Lead	0.09	
10/02/03	Lead	0.17	
10/08/03	Lead	0.18	
11/06/03	Lead	0.14	
11/12/03	Lead	0.53	
11/13/03	Lead	0.35	
12/04/03	Lead	0.63	
12/11/03	Lead	0.15	
02/13/02	Mercury	<0.000016	0.01
02/12/03	Mercury	<0.000005	
02/13/02	Nickel	<0.04	3
05/08/02	Nickel	<0.04	
08/14/02	Nickel	0.012	
10/30/02	Nickel	0.02	
02/12/03	Nickel	<0.01	
05/14/03	Nickel	<0.01	
08/20/03	Nickel	<0.01	
11/12/03	Nickel	0.03	
01/04/02	pH	8.5	6.0-12.0
01/17/02	pH	8.7	
01/25/02	pH	7.7	
01/31/02	pH	7	
02/07/02	pH	7.6	

Johnson Controls

Sample Date	Parameter	Result	Limit
02/13/02	pH	7.7	
02/14/02	pH	8	
02/21/02	pH	7.6	
02/28/02	pH	8.3	
03/07/02	pH	7.8	
03/14/02	pH	7.8	
03/21/02	pH	8.5	
03/28/02	pH	9.1	
04/04/02	pH	7.2	
04/18/02	pH	7.8	
04/25/02	pH	8.5	
05/02/02	pH	8.6	
05/08/02	pH	8.1	
05/09/02	pH	8.6	
05/16/02	pH	9.4	
05/23/02	pH	9.8	
05/30/02	pH	9.6	
06/06/02	pH	9.7	
06/13/02	pH	9.4	
06/20/02	pH	9.3	
06/27/02	pH	8.5	
07/03/02	pH	7.4	
07/11/02	pH	8.9	
07/18/02	pH	8.8	
07/25/02	pH	9.2	
08/01/02	pH	8.7	
08/08/02	pH	8	
08/14/02	pH	8.7	
08/15/02	pH	7.7	
08/22/02	pH	7.8	
08/29/02	pH	8.5	
09/05/02	pH	7.8	
09/12/02	pH	8.5	
09/19/02	pH	8.5	
09/26/02	pH	7.5	
10/03/02	pH	8.2	
10/10/02	pH	7.5	
10/17/02	pH	8.7	
10/24/02	pH	8.4	
10/30/02	pH	7.7	
10/31/02	pH	8.2	
11/07/02	pH	8.3	
11/14/02	pH	8.6	
11/21/02	pH	8.6	
11/26/02	pH	8.7	
12/05/02	pH	4.1	
12/12/02	pH	8.4	
12/19/02	pH	7.7	
12/27/02	pH	8.2	
01/03/03	pH	7.8	
01/09/03	pH	7.9	
01/16/03	pH	7.6	
01/22/03	pH	8	
01/30/03	pH	8.2	
02/06/03	pH	8.4	

Johnson Controls

Sample Date	Parameter	Result	Limit
02/12/03	pH	7.2	
02/13/03	pH	7.8	
02/20/03	pH	6.8	
02/27/03	pH	7.9	
03/06/03	pH	7.7	
03/13/03	pH	8	
03/21/03	pH	7.8	
03/27/03	pH	8	
04/03/03	pH	8	
04/10/03	pH	7.7	
04/17/03	pH	8	
04/24/03	pH	8.1	
05/01/03	pH	7.7	
05/08/03	pH	7	
05/14/03	pH	6.6	
05/15/03	pH	7	
05/22/03	pH	7.9	
05/30/03	pH	8.5	
06/06/03	pH	7.3	
06/12/03	pH	7.8	
06/18/03	pH	6.7	
06/26/03	pH	7.3	
07/02/03	pH	7.2	
07/10/03	pH	7.09	
07/17/03	pH	6.3	
07/24/03	pH	7.25	
07/31/03	pH	7.3	
08/07/03	pH	7.74	
08/14/03	pH	7.58	
08/20/03	pH	9.1	
08/21/03	pH	7.29	
09/05/03	pH	8.09	
09/12/03	pH	7.33	
10/02/03	pH	8.29	
10/08/03	pH	7.54	
11/06/03	pH	7.9	
11/12/03	pH	8.1	
11/13/03	pH	7.71	
12/04/03	pH	8.28	
12/11/03	pH	7.71	
02/13/02	Silver	<0.04	0.3
05/08/02	Silver	<0.04	
08/14/02	Silver	< 0.01	
10/30/02	Silver	<0.01	
02/12/03	Silver	<0.01	
05/14/03	Silver	<0.01	
08/20/03	Silver	0.02	
11/12/03	Silver	<0.01	
02/13/02	Tot. Suspended Solids	142	300
05/08/02	Tot. Suspended Solids	120	
08/14/02	Tot. Suspended Solids	93	
10/30/02	Tot. Suspended Solids	34	
02/12/03	Tot. Suspended Solids	31	
05/14/03	Tot. Suspended Solids	33	
08/20/03	Tot. Suspended Solids	64	

Johnson Controls

Sample Date	Parameter	Result	Limit
11/12/03	Tot. Suspended Solids	68	
02/13/02	Total Phosphorus	10	10
05/08/02	Total Phosphorus	3.3	
08/14/02	Total Phosphorus	3	
10/30/02	Total Phosphorus	0.728	
02/12/03	Total Phosphorus	4.1	
05/14/03	Total Phosphorus	4	
08/20/03	Total Phosphorus	7	
11/12/03	Total Phosphorus	5	
02/13/02	Zinc	0.11	6
05/08/02	Zinc	0.14	
08/14/02	Zinc	0.092	
10/30/02	Zinc	0.02	
02/12/03	Zinc	0.08	
05/14/03	Zinc	0.11	
08/20/03	Zinc	0.13	
11/12/03	Zinc	0.24	

Site Consumption

y: JOHNSON CONTROLS BATTERY GROUP, INC. IWS Number: 7273
Name: JOHNSON CONTROLS Site Number: 1

Begin	End	Water	Sewer
2/10/2001	01/10/2002	531	531
1/10/2002	02/07/2002	368	368
2/07/2002	03/12/2002	325	325
3/12/2002	04/09/2002	615	615
4/09/2002	05/13/2002	984	984
5/13/2002	06/12/2002	807	807
6/12/2002	07/15/2002	834	834
7/15/2002	08/13/2002	638	638
8/13/2002	09/13/2002	977	977
9/13/2002	10/11/2002	626	626
0/11/2002	11/12/2002	863	863
1/12/2002	12/10/2002	909	909
2/10/2002	01/10/2003	973	973
1/10/2003	02/04/2003	619	619
2/04/2003	03/07/2003	29	29
3/07/2003	04/07/2003	900	900
4/07/2003	05/09/2003	1,699	1,699
5/09/2003	06/09/2003	1,335	1,335
6/09/2003	07/08/2003	482	1,010
7/08/2003	08/08/2003	1,106	1,106
8/08/2003	09/08/2003	872	872
/2003	10/07/2003	589	589
/2003	11/07/2003	1,206	1,206
1/07/2003	12/05/2003	1,139	1,139
2/05/2003	01/09/2004	1,824	1,824

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **05301**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Lincoln Foodservice Products, Inc. 1111 North Hadley Road Fort Wayne, IN 46804	Same

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 403 standards.

is permit shall become effective on **August 21, 2003.**

This permit and the authorization to discharge wastewater shall expire on **August 21, 2008.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

it via Certified mail to:

Name: Steve L. Hower

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **Lincoln Foodservice Products, Inc.** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Self-Monitoring Frequency	Sample Type
pH	6.0-12.0	2/month	grab
Oil and Grease	100	2/month	grab

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

C. Location of sampling:

All samples must be collected from the flume located in the yard beside the building. Sampling points shall not be changed without notification to and the approval of the City of Fort Wayne.

D. Basis for pollutant limitations:

The Permittee's pollutant limitations shall be the limitations contained in Chapter 51 and/or the Rules and Regulations

Lincoln Foodservice Products

Sample Date	Parameter	Result	Limit
02/27/02	Ammonia-Nitrogen	26.6	25
06/13/02	Ammonia-Nitrogen	37	
09/04/02	Ammonia-Nitrogen	37	
11/13/02	Ammonia-Nitrogen	54	
12/12/02	Ammonia-Nitrogen	19	
03/13/03	Ammonia-Nitrogen	15	
06/03/03	Ammonia-Nitrogen	46	
09/03/03	Ammonia-Nitrogen	38	
12/02/03	Ammonia-Nitrogen	13	
02/27/02	Biochemical Oxygen Demand 5 Day	242	300
06/13/02	Biochemical Oxygen Demand 5 Day	353	
09/04/02	Biochemical Oxygen Demand 5 Day	275	
11/13/02	Biochemical Oxygen Demand 5 Day	502	
12/12/02	Biochemical Oxygen Demand 5 Day	271	
03/13/03	Biochemical Oxygen Demand 5 Day	148	
06/03/03	Biochemical Oxygen Demand 5 Day	392	
09/03/03	Biochemical Oxygen Demand 5 Day	308	
12/02/03	Biochemical Oxygen Demand 5 Day	88	
02/27/02	Cadmium	<0.04	0.7
06/13/02	Cadmium	<0.01	
09/04/02	Cadmium	<0.01	
11/13/02	Cadmium	<0.01	
03/13/03	Cadmium	<0.01	
06/03/03	Cadmium	<0.01	
09/03/03	Cadmium	<0.01	
12/02/03	Cadmium	<0.01	
02/27/02	Chemical Oxygen Demand	448	600
06/13/02	Chemical Oxygen Demand	577	
09/04/02	Chemical Oxygen Demand	137	
11/13/02	Chemical Oxygen Demand	1061	
12/12/02	Chemical Oxygen Demand	511	
03/13/03	Chemical Oxygen Demand	311	
06/03/03	Chemical Oxygen Demand	332	
09/03/03	Chemical Oxygen Demand	817	
12/02/03	Chemical Oxygen Demand	333	
02/27/02	Chromium	<0.04	10
06/13/02	Chromium	3.12	
09/04/02	Chromium	<0.01	
11/13/02	Chromium	1.3	
03/13/03	Chromium	0.34	
06/03/03	Chromium	0.09	
09/03/03	Chromium	0.19	
12/02/03	Chromium	0.21	
02/27/02	Copper	0.85	
06/13/02	Copper	0.23	
09/04/02	Copper	0.11	
11/13/02	Copper	0.17	
03/13/03	Copper	0.15	
06/03/03	Copper	0.12	
09/03/03	Copper	0.12	
12/02/03	Copper	0.09	
02/27/02	Lead	<0.04	0.6
06/13/02	Lead	<0.01	
09/04/02	Lead	<0.02	
11/13/02	Lead	<0.02	

Lincoln Foodservice Products

Sample Date	Parameter	Result	Limit
03/13/03	Lead	<0.02	
06/03/03	Lead	<0.03	
09/03/03	Lead	<0.03	
12/02/03	Lead	<0.03	
02/27/02	Mercury	0.000033	0.01
03/13/03	Mercury	0.000074	
02/27/02	Nickel	<0.04	3
06/13/02	Nickel	0.27	
09/04/02	Nickel	<0.01	
11/13/02	Nickel	0.12	
03/13/03	Nickel	0.04	
06/03/03	Nickel	0.04	
09/03/03	Nickel	0.04	
12/02/03	Nickel	0.02	
01/02/02	pH	7	6.0-12.0
01/15/02	pH	7.4	
02/01/02	pH	6.8	
02/15/02	pH	7.3	
02/27/02	pH	8.3	
03/01/02	pH	7.4	
03/15/02	pH	7	
04/02/02	pH	6.6	
04/19/02	pH	8.2	
05/01/02	pH	7.3	
05/17/02	pH	8.6	
06/03/02	pH	6.6	
06/13/02	pH	8.2	
06/17/02	pH	7.5	
07/01/02	pH	6.8	
07/15/02	pH	8.1	
08/01/02	pH	7	
08/15/02	pH	8.2	
09/03/02	pH	6.7	
09/04/02	pH	7	
09/16/02	pH	8.7	
10/01/02	pH	7.2	
10/15/02	pH	8.6	
11/01/02	pH	7.8	
11/13/02	pH	8.6	
11/15/02	pH	8.5	
12/02/02	pH	7.3	
12/16/02	pH	7.1	
01/02/03	pH	6.7	
01/15/03	pH	8.3	
02/03/03	pH	6.8	
02/17/03	pH	8.5	
03/03/03	pH	7.1	
03/13/03	pH	7.8	
03/17/03	pH	8.3	
04/01/03	pH	7.5	
04/15/03	pH	7.7	
05/01/03	pH	6.3	
05/15/03	pH	7.5	
06/02/03	pH	7.02	
06/03/03	pH	9	

Lincoln Foodservice Products

Sample Date	Parameter	Result	Limit
06/16/03	pH	8.37	
07/01/03	pH	6.86	
07/15/03	pH	7.89	
08/01/03	pH	4.68	
08/15/03	pH	6.39	
09/02/03	pH	6.13	
09/03/03	pH	8.5	
09/15/03	pH	6.96	
10/01/03	pH	7.1	
10/15/03	pH	7.6	
10/17/03	pH	8.6	
11/03/03	pH	7.27	
11/17/03	pH	7.83	
12/01/03	pH	7.4	
12/02/03	pH	7.2	
12/15/03	pH	6.9	
02/27/02	Silver	<0.04	0.3
06/13/02	Silver	<0.01	
09/04/02	Silver	<0.01	
11/13/02	Silver	<0.01	
03/13/03	Silver	<0.01	
06/03/03	Silver	<0.01	
09/03/03	Silver	<0.01	
12/02/03	Silver	<0.01	
02/27/02	Tot. Suspended Solids	316	300
06/13/02	Tot. Suspended Solids	1520	
09/04/02	Tot. Suspended Solids	154	
11/13/02	Tot. Suspended Solids	1040	
12/12/02	Tot. Suspended Solids	434	
03/13/03	Tot. Suspended Solids	224	
06/03/03	Tot. Suspended Solids	656	
09/03/03	Tot. Suspended Solids	512	
12/02/03	Tot. Suspended Solids	154	
02/27/02	Total Phosphorus	5.5	10
06/13/02	Total Phosphorus	9.6	
09/04/02	Total Phosphorus	3	
11/13/02	Total Phosphorus	12	
12/12/02	Total Phosphorus	5	
03/13/03	Total Phosphorus	4	
06/03/03	Total Phosphorus	6	
09/03/03	Total Phosphorus	8	
12/02/03	Total Phosphorus	3.348	
02/27/02	Zinc	0.1	6
06/13/02	Zinc	0.28	
09/04/02	Zinc	0.18	
11/13/02	Zinc	0.28	
03/13/03	Zinc	0.42	
06/03/03	Zinc	0.19	
09/03/03	Zinc	0.17	
12/02/03	Zinc	0.14	

Site Consumption

ny: LINCOLN FOODSERVICE PRODUCTS, INC.
ame:

IWS Number: 5118
Site Number: 1

Begin	End	Water	Sewer
2/12/2001	01/11/2002	298	298
1/11/2002	02/13/2002	421	421
2/13/2002	03/15/2002	420	420
3/15/2002	04/10/2002	522	522
4/10/2002	05/09/2002	524	524
5/09/2002	06/13/2002	604	604
6/13/2002	07/17/2002	492	492
7/17/2002	08/16/2002	644	644
8/16/2002	09/16/2002	551	551
0/14/2002	11/11/2002	460	502
0/14/2002	12/16/2002	1,045	543
2/16/2002	01/14/2003	341	341
1/14/2003	02/10/2003	447	447
2/10/2003	03/08/2003	396	396
3/08/2003	04/09/2003	633	633
4/09/2003	05/08/2003	559	559
5/08/2003	06/09/2003	581	581
6/09/2003	07/08/2003	489	489
7/08/2003	08/11/2003	519	519
8/11/2003	09/10/2003	681	681
9/10/2003	10/10/2003	500	500
/2003	11/07/2003	603	603
/2003	12/12/2003	976	976
2/12/2003	01/09/2004	556	556

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **00801**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:

Prairie Farms Dairy, Inc.
3400 Lima Road
Fort Wayne, IN 46805

Mailing Address:

Prairie Farms Dairy, Inc.
P.O. Box 10419
Fort Wayne, IN 46852-0419

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 403 standards.

This permit shall become effective on **September 18, 2003**.

This permit and the authorization to discharge wastewater shall expire on **September 18, 2008**.

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____

_____
Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

Sent via Certified mail to:

ame: Ward Krause

Permit 00801

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **Prairie Farms Dairy** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	**Maximum for any one day mg/l**	**Self-Monitoring Frequency**	**Sample Type**
pH (units)	6.0-12.0	1/week	grab
Oil and Grease	1000	1/week	grab

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

C. Location of sampling:

All samples must be collected from the control manhole located near tanks along Lima Road. Sampling points shall not be changed without notification to and the approval of the City of Fort Wayne.

Prairie Farms Dairy

Sample Date	Parameter	Result	Limit
01/22/02	Ammonia-Nitrogen	2.4	25
07/16/02	Ammonia-Nitrogen	1.6	
07/30/02	Ammonia-Nitrogen	3.5	
10/15/02	Ammonia-Nitrogen	1	
01/09/03	Ammonia-Nitrogen	3	
04/09/03	Ammonia-Nitrogen	2	
07/01/03	Ammonia-Nitrogen	2.2	
10/24/03	Ammonia-Nitrogen	3	
01/22/02	Biochemical Oxygen Demand 5 Day	3165	300
07/16/02	Biochemical Oxygen Demand 5 Day	3065	
07/30/02	Biochemical Oxygen Demand 5 Day	2887	
10/15/02	Biochemical Oxygen Demand 5 Day	1910	
01/09/03	Biochemical Oxygen Demand 5 Day	3340	
04/09/03	Biochemical Oxygen Demand 5 Day	2566	
07/01/03	Biochemical Oxygen Demand 5 Day	2838	
10/24/03	Biochemical Oxygen Demand 5 Day	test failed	
01/22/02	Chemical Oxygen Demand	4560	600
07/16/02	Chemical Oxygen Demand	4690	
07/30/02	Chemical Oxygen Demand	4710	
10/15/02	Chemical Oxygen Demand	2940	
01/09/03	Chemical Oxygen Demand	4432	
04/09/03	Chemical Oxygen Demand	3292	
07/01/03	Chemical Oxygen Demand	4320	
10/24/03	Chemical Oxygen Demand	2740	
01/22/02	pH	6.2	6.0-12.0
02/21/02	pH	6.74	
02/28/02	pH	6.63	
03/07/02	pH	6.22	
03/14/02	pH	6.85	
03/21/02	pH	6.47	
03/28/02	pH	11.58	
04/04/02	pH	7.89	
04/11/02	pH	6.75	
04/18/02	pH	7.73	
04/25/02	pH	11.78	
05/02/02	pH	9.42	
05/09/02	pH	6.52	
05/16/02	pH	6.29	
05/23/02	pH	6.88	
06/06/02	pH	10.27	
06/13/02	pH	8.94	
06/20/02	pH	7.63	
06/27/02	pH	8.39	
07/03/02	pH	8.04	
07/11/02	pH	10.87	
07/16/02	pH	10.2	
07/18/02	pH	6.33	
07/30/02	pH	6.8	
07/31/02	pH	6.44	
08/08/02	pH	6.78	
08/15/02	pH	6.66	
08/22/02	pH	6.05	
08/29/02	pH	9.87	
09/05/02	pH	6.63	
09/12/02	pH	7.1	

Prairie Farms Dairy

Sample Date	Parameter	Result	Limit
09/18/02	pH	7.56	
09/26/02	pH	7.15	
10/03/02	pH	6.94	
10/10/02	pH	7.42	
10/15/02	pH	6.2	
10/17/02	pH	6.19	
10/24/02	pH	6.15	
11/07/02	pH	7.22	
11/14/02	pH	8.69	
11/21/02	pH	6.7	
11/27/02	pH	6.11	
12/05/02	pH	9.96	
12/12/02	pH	6.86	
12/19/02	pH	10.2	
12/23/02	pH	6.85	
01/02/03	pH	7.71	
01/09/03	pH	7.2	
01/09/03	pH	6.29	
01/16/03	pH	6.87	
01/23/03	pH	6.7	
02/06/03	pH	10.62	
02/13/03	pH	6.85	
02/20/03	pH	10.68	
02/27/03	pH	7.84	
03/06/03	pH	6.91	
03/13/03	pH	7.89	
03/20/03	pH	6.53	
03/27/03	pH	6.77	
04/03/03	pH	11.91	
04/09/03	pH	5	
04/10/03	pH	5.98	
04/17/03	pH	7.43	
04/24/03	pH	7.88	
05/01/03	pH	7.37	
05/08/03	pH	8.59	
05/15/03	pH	7.04	
05/22/03	pH	7.72	
06/05/03	pH	11.22	
06/06/03	pH	5.5	
06/12/03	pH	10.69	
06/18/03	pH	6.9	
06/19/03	pH	8.37	
06/26/03	pH	9.69	
07/01/03	pH	5.15	
07/10/03	pH	4.97	
07/17/03	pH	6.34	
07/23/03	pH	6.7	
07/24/03	pH	11.28	
07/31/03	pH	6.97	
08/07/03	pH	6.77	
08/14/03	pH	6.43	
08/18/03	pH	4.9	
08/21/03	pH	6.55	
08/28/03	pH	6.03	
09/04/03	pH	5.71	

Prairie Farms Dairy

Sample Date	Parameter	Result	Limit
09/11/03	pH	7.35	
09/18/03	pH	7.35	
09/23/03	pH	6.6	
09/25/03	pH	7.95	
10/02/03	pH	5.44	
10/09/03	pH	4.98	
10/16/03	pH	6.2	
10/16/03	pH	7.04	
10/23/03	pH	6.03	
10/24/03	pH	6	
11/06/03	pH	5.3	
11/13/03	pH	5.33	
11/20/03	pH	6.89	
11/26/03	pH	6.57	
12/04/03	pH	7.04	
12/10/03	pH	7.5	
12/11/03	pH	6.52	
12/18/03	pH	7.83	
12/24/03	pH	6.93	
01/22/02	Tot. Suspended Solids	755	300
07/16/02	Tot. Suspended Solids	560	
07/30/02	Tot. Suspended Solids	1220	
10/15/02	Tot. Suspended Solids	695	
01/09/03	Tot. Suspended Solids	608	
04/09/03	Tot. Suspended Solids	600	
07/01/03	Tot. Suspended Solids	780	
10/24/03	Tot. Suspended Solids	300	
01/22/02	Total Phosphorus	40	10
07/16/02	Total Phosphorus	42.4	
07/30/02	Total Phosphorus	51.9	
10/15/02	Total Phosphorus	29	
01/09/03	Total Phosphorus	67	
04/09/03	Total Phosphorus	23.6	
07/01/03	Total Phosphorus	285	
10/24/03	Total Phosphorus	35	

Site Consumption

ny: PRAIRIE FARMS
Name:

IWS Number: 4758
Site Number: 1

Begin	End	Water	Sewer
.2/17/2001	01/15/2002	4,956	4,956
)1/15/2002	02/15/2002	4,544	4,544
)2/15/2002	03/18/2002	5,560	5,560
)3/18/2002	04/15/2002	4,848	4,848
)4/15/2002	05/16/2002	6,611	6,611
)5/16/2002	06/14/2002	5,786	5,786
)6/14/2002	07/15/2002	5,259	5,259
)7/15/2002	08/15/2002	5,019	5,019
)8/15/2002	09/17/2002	5,712	5,712
)9/17/2002	10/15/2002	4,198	4,198
L0/15/2002	11/12/2002	3,869	3,869
L1/12/2002	12/16/2002	5,693	5,693
L2/16/2002	01/17/2003	4,266	4,266
)1/17/2003	02/12/2003	4,211	4,211
)2/12/2003	03/11/2003	3,852	3,852
)3/11/2003	04/11/2003	4,773	4,773
)4/11/2003	05/12/2003	4,645	4,645
)5/12/2003	06/13/2003	5,342	5,342
)6/13/2003	07/10/2003	4,576	4,576
)7/10/2003	08/12/2003	5,532	5,532
)8/12/2003	09/15/2003	5,566	5,566
)9 5/2003	10/10/2003	4,002	4,002
1)/2003	11/10/2003	5,899	5,899
11/10/2003	12/12/2003	5,616	5,616
12/12/2003	01/15/2004	4,102	4,102

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **08101**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Slater Steels 2400 Taylor Street Fort Wayne, IN 46802	P.O. Box 630 Fort Wayne, IN 46801

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 403 standards.

.s permit shall become effective on **August 31, 2003.**

This permit and the authorization to discharge wastewater shall expire on **August 31, 2008.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

ıt via Certified mail to:

Name: Jon Hacker

Permit 01801

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **Slater Steels** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	**Maximum for any one day mg/l**	**Self-Monitoring Frequency**	**Sample Type**
pH	6.0-12.0	2/month	grab
Chromium (total)	10.00	2/month	Composite
Nickel (total)	3.00	2/month	composite

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

C. Location of sampling:

All samples must be collected from the control manhole located on East side of plant. Sampling points shall not be changed without notification to and the approval of the City of Fort Wayne.

Slater Steel

Sample Date	Parameter	Result	Limit
02/07/02	Ammonia-Nitrogen	1	25
05/01/02	Ammonia-Nitrogen	0.7	
09/25/02	Ammonia-Nitrogen	0.4	
11/13/02	Ammonia-Nitrogen	1	
01/28/03	Ammonia-Nitrogen	1	
04/30/03	Ammonia-Nitrogen	3	
05/28/03	Ammonia-Nitrogen	1	
07/22/03	Ammonia-Nitrogen	<3	
10/14/03	Ammonia-Nitrogen	<3	
12/02/03	Ammonia-Nitrogen	1	
02/07/02	Biochemical Oxygen Demand 5 Day	21	300
05/01/02	Biochemical Oxygen Demand 5 Day	34	
09/25/02	Biochemical Oxygen Demand 5 Day	8.6	
11/13/02	Biochemical Oxygen Demand 5 Day	74	
01/28/03	Biochemical Oxygen Demand 5 Day	26	
04/30/03	Biochemical Oxygen Demand 5 Day	24	
05/28/03	Biochemical Oxygen Demand 5 Day	9	
07/22/03	Biochemical Oxygen Demand 5 Day	11	
10/14/03	Biochemical Oxygen Demand 5 Day	test failed	
12/02/03	Biochemical Oxygen Demand 5 Day	14	
02/07/02	Cadmium	<0.04	0.7
05/01/02	Cadmium	<0.04	
09/25/02	Cadmium	<0.01	
11/13/02	Cadmium	<0.01	
01/28/03	Cadmium	<0.01	
04/30/03	Cadmium	<0.01	
07/22/03	Cadmium	<0.01	
10/14/03	Cadmium	<0.01	
02/07/02	Chemical Oxygen Demand	55	600
05/01/02	Chemical Oxygen Demand	102	
09/25/02	Chemical Oxygen Demand	46	
11/13/02	Chemical Oxygen Demand	79	
01/28/03	Chemical Oxygen Demand	60	
04/30/03	Chemical Oxygen Demand	64	
05/28/03	Chemical Oxygen Demand	30	
07/22/03	Chemical Oxygen Demand	70	
10/14/03	Chemical Oxygen Demand	891	
12/02/03	Chemical Oxygen Demand	52	
01/09/02	Chromium	0.06	10
01/23/02	Chromium	0.38	
02/07/02	Chromium	0.26	
02/08/02	Chromium	0.21	
02/13/02	Chromium	0.22	
02/27/02	Chromium	0.27	
03/13/02	Chromium	0.15	
03/20/02	Chromium	0.1	
04/10/02	Chromium	0.08	
04/24/02	Chromium	0.12	
05/01/02	Chromium	0.2	
05/02/02	Chromium	0.18	
05/09/02	Chromium	0.17	
05/23/02	Chromium	0.15	
06/13/02	Chromium	0.59	
06/26/02	Chromium	0.09	
07/10/02	Chromium	0.17	

Slater Steel

Sample Date	Parameter	Result	Limit
07/24/02	Chromium	0.06	
08/14/02	Chromium	0.04	
08/28/02	Chromium	0.05	
09/12/02	Chromium	0.06	
09/19/02	Chromium	0.06	
09/25/02	Chromium	0.36	
10/09/02	Chromium	0.04	
10/09/02	Chromium	0.12	
11/13/02	Chromium	0.29	
11/13/02	Chromium	0.19	
11/14/02	Chromium	0.19	
11/20/02	Chromium	0.11	
12/04/02	Chromium	0.04	
12/11/02	Chromium	0.07	
01/15/03	Chromium	0.23	
01/28/03	Chromium	0.16	
01/29/03	Chromium	0.1	
01/29/03	Chromium	0.09	
02/05/03	Chromium	0.08	
02/19/03	Chromium	0.27	
03/05/03	Chromium	0.11	
03/20/03	Chromium	0.48	
04/09/03	Chromium	0.05	
04/23/03	Chromium	0.16	
04/30/03	Chromium	<0.01	
05/01/03	Chromium	<0.01	
05/14/03	Chromium	0.27	
05/28/03	Chromium	0.05	
06/11/03	Chromium	0.05	
06/18/03	Chromium	0.06	
07/16/03	Chromium	0.24	
07/22/03	Chromium	0.1	
07/23/03	Chromium	0.11	
07/30/03	Chromium	0.01	
08/06/03	Chromium	0.01	
08/20/03	Chromium	0.04	
09/10/03	Chromium	0.69	
09/23/03	Chromium	0.17	
10/08/03	Chromium	0.34	
10/14/03	Chromium	0.73	
10/15/03	Chromium	0.43	
10/29/03	Chromium	0.26	
11/04/03	Chromium	0.16	
11/11/03	Chromium	0.19	
12/10/03	Chromium	0.04	
12/30/03	Chromium	0.14	
02/07/02	Copper	0.07	2
05/01/02	Copper	0.06	
09/25/02	Copper	0.04	
11/13/02	Copper	0.04	
01/28/03	Copper	0.03	
04/30/03	Copper	0.02	
07/22/03	Copper	0.01	
10/14/03	Copper	0.18	
02/07/02	Lead	<0.04	

Slater Steel

Sample Date	Parameter	Result	Limit
05/01/02	Lead	0.04	
09/25/02	Lead	0.08	
11/13/02	Lead	<0.02	
01/28/03	Lead	<0.02	
04/30/03	Lead	<0.03	
07/22/03	Lead	<0.03	
10/14/03	Lead	<0.03	
02/07/02	Mercury	0.00018	0.01
01/28/03	Mercury	0.000018	
01/09/02	Nickel	0.39	3
01/23/02	Nickel	0.57	
02/07/02	Nickel	0.49	
02/08/02	Nickel	0.43	
02/13/02	Nickel	0.53	
02/27/02	Nickel	0.53	
03/13/02	Nickel	0.25	
03/20/02	Nickel	0.5	
04/10/02	Nickel	0.33	
04/24/02	Nickel	0.33	
05/01/02	Nickel	0.48	
05/02/02	Nickel	0.42	
05/09/02	Nickel	0.18	
05/23/02	Nickel	0.26	
06/13/02	Nickel	0.72	
06/26/02	Nickel	0.14	
07/10/02	Nickel	0.32	
07/24/02	Nickel	0.25	
08/14/02	Nickel	0.13	
08/28/02	Nickel	0.32	
09/12/02	Nickel	0.31	
09/19/02	Nickel	0.29	
09/25/02	Nickel	0.62	
10/09/02	Nickel	0.97	
10/09/02	Nickel	0.22	
11/13/02	Nickel	0.35	
11/13/02	Nickel	0.46	
11/14/02	Nickel	0.28	
11/20/02	Nickel	0.27	
12/04/02	Nickel	0.36	
12/11/02	Nickel	0.08	
01/15/03	Nickel	0.61	
01/28/03	Nickel	0.45	
01/29/03	Nickel	0.29	
01/29/03	Nickel	0.36	
02/05/03	Nickel	0.39	
02/19/03	Nickel	0.7	
03/05/03	Nickel	0.4	
03/20/03	Nickel	0.87	
04/09/03	Nickel	0.3	
04/23/03	Nickel	0.56	
04/30/03	Nickel	<0.01	
05/01/03	Nickel	0.01	
05/14/03	Nickel	0.36	
05/28/03	Nickel	0.16	
06/11/03	Nickel	0.14	

Slater Steel

Sample Date	Parameter	Result	Limit
06/18/03	Nickel	0.18	
07/16/03	Nickel	0.31	
07/22/03	Nickel	0.15	
07/23/03	Nickel	0.16	
07/30/03	Nickel	0.03	
08/06/03	Nickel	0.05	
08/20/03	Nickel	0.18	
09/10/03	Nickel	0.84	
09/23/03	Nickel	0.38	
10/08/03	Nickel	0.34	
10/14/03	Nickel	0.87	
10/15/03	Nickel	0.52	
10/29/03	Nickel	0.42	
11/04/03	Nickel	0.31	
11/11/03	Nickel	0.33	
12/10/03	Nickel	0.07	
12/30/03	Nickel	0.03	
01/09/02	pH	6.52	6.0-12.0
01/23/02	pH	6.74	
02/07/02	pH	6.6	
02/13/02	pH	7.1	
02/27/02	pH	6.98	
03/13/02	pH	7.73	
03/20/02	pH	6.8	
04/10/02	pH	7.12	
04/24/02	pH	7.58	
05/01/02	pH	7.3	
05/09/02	pH	7.1	
05/23/02	pH	6.47	
06/13/02	pH	7.98	
06/26/02	pH	7.68	
07/10/02	pH	6.93	
07/24/02	pH	7.39	
08/14/02	pH	6.98	
08/28/02	pH	7.12	
09/12/02	pH	6.79	
09/19/02	pH	6.89	
09/25/02	pH	7.3	
10/09/02	pH	6.68	
10/09/02	pH	7.39	
11/13/02	pH	6.8	
11/13/02	pH	6.88	
11/20/02	pH	6.62	
12/04/02	pH	6.81	
12/11/02	pH	7.2	
01/15/03	pH	6.73	
01/28/03	pH	7.1	
01/29/03	pH	8.27	
02/05/03	pH	7.22	
02/19/03	pH	7.83	
03/05/03	pH	7.32	
03/20/03	pH	7.22	
04/09/03	pH	7.14	
04/23/03	pH	8.12	
04/30/03	pH	6.7	

Slater Steel

Sample Date	Parameter	Result	Limit
05/14/03	pH	7.16	
05/28/03	pH	7.23	
06/11/03	pH	6.49	
06/18/03	pH	7.21	
07/16/03	pH	6.69	
07/22/03	pH	7.2	
07/30/03	pH	6.41	
08/06/03	pH	6.88	
08/20/03	pH	7.48	
09/10/03	pH	7.06	
09/23/03	pH	8.06	
10/08/03	pH	6.92	
10/14/03	pH	7.2	
10/29/03	pH	6.79	
11/04/03	pH	7.68	
11/11/03	pH	6.94	
12/10/03	pH	9.28	
12/30/03	pH	6.78	
02/07/02	Silver	<0.04	0.3
05/01/02	Silver	<0.04	
09/25/02	Silver	<0.01	
11/13/02	Silver	<0.01	
01/28/03	Silver	<0.01	
04/30/03	Silver	<0.01	
07/22/03	Silver	<0.01	
10/14/03	Silver	<0.01	
02/07/02	Tot. Suspended Solids	54	300
05/01/02	Tot. Suspended Solids	77	
09/25/02	Tot. Suspended Solids	31	
11/13/02	Tot. Suspended Solids	60	
01/28/03	Tot. Suspended Solids	36	
04/30/03	Tot. Suspended Solids	16	
05/28/03	Tot. Suspended Solids	14	
07/22/03	Tot. Suspended Solids	34	
10/14/03	Tot. Suspended Solids	288	
12/02/03	Tot. Suspended Solids	12	
02/07/02	Total Phosphorus	0.5	10
05/01/02	Total Phosphorus	<0.06	
09/25/02	Total Phosphorus	0.225	
11/13/02	Total Phosphorus	0.237	
01/28/03	Total Phosphorus	0.343	
04/30/03	Total Phosphorus	19	
05/28/03	Total Phosphorus	0.815	
07/22/03	Total Phosphorus	<0.06	
10/14/03	Total Phosphorus	0.86	
12/02/03	Total Phosphorus	0.398	
02/07/02	Zinc	0.05	6
05/01/02	Zinc	0.05	
09/25/02	Zinc	0.37	
11/13/02	Zinc	0.04	
01/28/03	Zinc	0.12	
04/30/03	Zinc	0.55	
07/22/03	Zinc	0.05	
10/14/03	Zinc	0.26	

Site Consumption

y: SLATER STEEL
Name: SLATER STEEL

IWS Number: 5103
Site Number: 1

Begin	End	Water	Sewer
2/12/2001	01/11/2002	6,400	6,400
1/11/2002	02/13/2002	7,845	7,845
2/13/2002	03/15/2002	6,390	6,390
3/15/2002	04/10/2002	6,315	6,315
4/10/2002	05/09/2002	7,675	7,675
5/09/2002	06/13/2002	7,255	7,255
6/13/2002	07/17/2002	6,615	6,615
7/17/2002	08/16/2002	9,620	9,620
8/16/2002	09/16/2002	6,765	6,765
9/16/2002	10/14/2002	7,440	7,440
0/14/2002	11/11/2002	4,890	4,890
1/11/2002	12/16/2002	5,490	5,490
2/16/2002	01/14/2003	5,385	5,385
1/14/2003	02/10/2003	4,825	4,825
2/10/2003	03/08/2003	6,240	6,240
4/09/2003	05/08/2003	5,580	5,580
5/08/2003	06/09/2003	0	5,175
6/09/2003	07/08/2003	0	12,615
7/08/2003	08/11/2003	0	3,810
8/11/2003	09/10/2003	0	5,340
9/10/2003	10/10/2003	0	7,545
0/2003	11/07/2003	0	8,510
/2003	12/12/2003	0	7,745
2/12/2003	01/09/2004	0	1,215

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **08851**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Three Rivers Gold Plating 1506 Wall Street Fort Wayne, IN 46802	Same Phone: (219) 422-0735

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 433 standards.

s permit shall become effective on **February 19, 1999.**

This permit and the authorization to discharge wastewater shall expire on **February 19, 2004.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

ıt via Certified mail to:

Name: John T. Hendry
Title: Manager

Permit 08551

I. LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS

charge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for Monthly Avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.07	0.04	N/A*	composite
Chromium	1.66	1.03	Each Batch*	composite
Copper	2.00	1.24	N/A*	composite
Lead	0.41	0.26	N/A*	composite
Nickel	2.39	1.43	Each Batch*	composite
Silver	0.26	0.14	N/A*	composite
Zinc	1.57	0.89	N/A*	composite
Cyanide	0.72	0.39	N/A*	grab
T.T.O.	1.28		N/A*	
pH	6.0-12.0		Each Batch*	grab
Discharge	Report volume		Each Batch	

REQUIRED REPORTS

REPORT	DUE DATE
Discharge/Monitoring Report (DMR)	due the 15th of each month, for the prior month sampling.
Compliance Monitoring Report (CMR)	June 28 and December 28 each year
Industrial Waste Questionnaire (IWQ)	January 15, each year
Baseline Monitoring Report (BMR) (Permit Application)	**December 19, 2003**

Note: The total volume of each batch discharge shall be reported on the monthly DMR.

During months in which there is no discharge of process wastewater, the monthly report shall indicate "No Discharge."

*Fort Wayne City Utilities will perform quarterly sampling for all regulated parameters in place of self-monitoring. If the permittee discharges process wastewater at a frequency greater than one time per quarter, samples must be collected, analyzed, and reported by the permittee for the parameters listed with the required self-monitoring frequency of "Each Batch". If the permittee requests to have these samples collected and analyzed by the City, the City will perform the sampling and analysis, and invoice the permittee for the services provided.

Site Consumption

y: THREE RIVERS GOLD PLATING
Name: THREE RIVERS GOLD

IWS Number: 3384
Site Number: 1

Begin	End	Water	Sewer
2/15/2001	01/18/2002	20	20
1/18/2002	02/19/2002	17	17
2/19/2002	03/20/2002	17	17
3/20/2002	04/19/2002	17	17
4/19/2002	05/18/2002	20	20
5/18/2002	06/18/2002	22	22
6/18/2002	07/18/2002	20	20
7/18/2002	08/16/2002	18	18
8/16/2002	09/18/2002	22	22
9/18/2002	10/18/2002	18	18
0/18/2002	11/20/2002	18	18
1/20/2002	12/20/2002	13	13
2/20/2002	01/22/2003	16	16
1/22/2003	02/20/2003	15	15
2/20/2003	03/21/2003	14	14
3/21/2003	04/21/2003	16	16
4/21/2003	05/20/2003	16	16
5/20/2003	06/19/2003	16	16
6/19/2003	07/17/2003	12	12
7/17/2003	08/19/2003	14	14
8/19/2003	09/17/2003	16	16
9 /2003	10/17/2003	18	18
/2003	11/12/2003	13	13
1/12/2003	12/10/2003	0	0
2/10/2003	01/22/2004	16	16

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **08603**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:

Tokheim Corporation
Attn: Gary Peterson
1600 Wabash Avenue
Fort Wayne, IN 46803

Mailing Address:

Tokheim Corporation
Attn: Gary Peterson
P.O. Box 360
Fort Wayne, IN 46801
(219) 470-4600 ext. 6752

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 433 standards.

This permit shall become effective on **October 1, 1999.**

This permit and the authorization to discharge wastewater shall expire on **September 30, 2004.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

ent via Certified mail to:

Name: Gary Peterson
Title: Environmental/Plant Engineer

I. LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS

charge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for Monthly Avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.48	0.18	2/year	composite
Chromium	1.94	1.20	2/year	composite
Copper	2.00	1.45	2/year	composite
Lead	0.48	0.30	2/year	composite
Nickel	2.79	1.67	2/month	composite
Silver	0.30	0.17	2/year	composite
Zinc	1.83	1.04	2/month	composite
Cyanide	0.84	0.46	2/year	grab
T.T.O.	1.49	N/A	2/year	
pH	6.0-12.0	N/A	2/month	grab

REQUIRED REPORTS

REPORT	DUE DATE
Discharge Monitoring Report (DMR)	due the 15th of each month, for the prior month sampling.
Compliance Monitoring Report (CMR)	June 28 and December 28 each year
Industrial Waste Questionnaire (IWQ)	January 15, each year
Baseline Monitoring Report (BMR) (Permit Application)	**August 1, 2004**

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

Tokheim Corporation

Sample Date	Parameter	Result	Limit
01/08/02	Ammonia-Nitrogen	6.3	25
04/19/02	Ammonia-Nitrogen	2.2	
07/16/02	Ammonia-Nitrogen	2.7	
10/09/02	Ammonia-Nitrogen	3	
01/14/03	Ammonia-Nitrogen	8	
01/08/02	Biochemical Oxygen Demand 5 Day	34	300
04/19/02	Biochemical Oxygen Demand 5 Day	14	
07/16/02	Biochemical Oxygen Demand 5 Day	20	
10/09/02	Biochemical Oxygen Demand 5 Day	43	
01/14/03	Biochemical Oxygen Demand 5 Day	100	
01/08/02	Cadmium	<0.04	0.48
04/19/02	Cadmium	<0.04	
05/14/02	Cadmium	<0.01	
07/16/02	Cadmium	<0.01	
10/09/02	Cadmium	<0.01	
11/12/02	Cadmium	<0.01	
01/14/03	Cadmium	<0.01	
05/13/03	Cadmium	<0.01	
01/08/02	Chemical Oxygen Demand	85	600
04/19/02	Chemical Oxygen Demand	61	
07/16/02	Chemical Oxygen Demand	215	
10/09/02	Chemical Oxygen Demand	133	
01/14/03	Chemical Oxygen Demand	224	
01/08/02	Chromium	0.06	1.94
04/19/02	Chromium	<0.04	
05/14/02	Chromium	<0.01	
07/16/02	Chromium	0.01	
10/09/02	Chromium	<0.01	
11/12/02	Chromium	0.02	
01/14/03	Chromium	<0.01	
05/13/03	Chromium	0.01	
01/08/02	Copper	<0.04	2
04/19/02	Copper	<0.04	
05/14/02	Copper	0.01	
07/16/02	Copper	0.02	
10/09/02	Copper	0.02	
11/12/02	Copper	0.02	
01/14/03	Copper	0.02	
05/13/03	Copper	<0.01	
01/08/02	Lead	<0.04	0.48
04/19/02	Lead	<0.04	
05/14/02	Lead	<0.02	
07/16/02	Lead	<0.01	
10/09/02	Lead	<0.02	
11/12/02	Lead	0.08	
01/14/03	Lead	<0.02	
05/13/03	Lead	<0.06	
01/08/02	Mercury	<0.000016	0.01
01/14/03	Mercury	0.000019	
01/08/02	Nickel	<0.04	2.79
01/08/02	Nickel	0.04	
01/30/02	Nickel	0.03	
02/11/02	Nickel	0.03	
02/27/02	Nickel	0.02	
03/12/02	Nickel	0.04	

Tokheim Corporation

Sample Date	Parameter	Result	Limit
03/27/02	Nickel	0.04	
04/04/02	Nickel	0.02	
04/18/02	Nickel	0.01	
04/19/02	Nickel	<0.04	
05/14/02	Nickel	0.02	
05/21/02	Nickel	0.01	
06/12/02	Nickel	0.02	
06/26/02	Nickel	0.03	
07/16/02	Nickel	<0.01	
07/22/02	Nickel	0.06	
07/25/02	Nickel	0.15	
08/13/02	Nickel	0.11	
08/27/02	Nickel	0.05	
09/09/02	Nickel	0.02	
09/30/02	Nickel	0.03	
10/08/02	Nickel	0.02	
10/09/02	Nickel	0.01	
10/22/02	Nickel	0.03	
11/12/02	Nickel	0.01	
11/19/02	Nickel	0.03	
12/03/02	Nickel	0.02	
12/10/02	Nickel	0.01	
01/07/03	Nickel	<0.01	
01/14/03	Nickel	<0.01	
01/23/03	Nickel	0.01	
02/11/03	Nickel	0.03	
02/25/03	Nickel	<0.01	
03/11/03	Nickel	0.01	
03/25/03	Nickel	0.02	
04/08/03	Nickel	0.02	
04/22/03	Nickel	0.03	
05/13/03	Nickel	0.02	
05/20/03	Nickel	0.01	
06/03/03	Nickel	<0.01	
06/17/03	Nickel	0.02	
07/08/03	Nickel	0.01	
07/29/03	Nickel	0.02	
08/05/03	Nickel	0.03	
08/05/03	Nickel	0.03	
08/27/03	Nickel	0.02	
08/27/03	Nickel	0.02	
09/11/03	Nickel	0.02	
09/23/03	Nickel	0.01	
01/08/02	pH	7.5	6.0-12.0
01/08/02	pH	7.15	
01/30/02	pH	7.66	
02/11/02	pH	7.58	
02/27/02	pH	7.41	
03/12/02	pH	7.29	
03/27/02	pH	7.06	
04/04/02	pH	6.87	
04/18/02	pH	7.12	
04/19/02	pH	7.3	
05/14/02	pH	7.69	
05/21/02	pH	7.83	

Tokheim Corporation

Sample Date	Parameter	Result	Limit
06/12/02	pH	9.17	
06/26/02	pH	6.23	
07/16/02	pH	6.9	
07/22/02	pH	6.46	
07/25/02	pH	6.64	
08/13/02	pH	6.73	
08/27/02	pH	6.31	
09/09/02	pH	6.59	
09/30/02	pH	6.58	
10/08/02	pH	6.19	
10/09/02	pH	6.8	
10/22/02	pH	6.89	
11/12/02	pH	7.54	
11/19/02	pH	7.3	
12/03/02	pH	7.4	
12/10/02	pH	6.62	
01/07/03	pH	6.73	
01/14/03	pH	8.9	
01/23/03	pH	7.49	
02/11/03	pH	7.43	
02/25/03	pH	7.84	
03/11/03	pH	7.48	
03/25/03	pH	7.21	
04/08/03	pH	7.47	
04/22/03	pH	7.59	
05/13/03	pH	7.64	
05/20/03	pH	7.54	
06/03/03	pH	7.64	
06/17/03	pH	7.83	
07/08/03	pH	6.93	
07/29/03	pH	7.32	
08/05/03	pH	7.63	
08/05/03	pH	7.63	
08/27/03	pH	7.66	
08/27/03	pH	7.66	
09/11/03	pH	7.35	
09/23/03	pH	7.49	
01/08/02	Silver	<0.04	0.3
04/19/02	Silver	<0.04	
05/14/02	Silver	<0.01	
07/16/02	Silver	<0.01	
10/09/02	Silver	<0.01	
11/12/02	Silver	<0.01	
01/14/03	Silver	<0.01	
05/13/03	Silver	<0.01	
01/08/02	Tot. Suspended Solids	22	300
04/19/02	Tot. Suspended Solids	14	
07/16/02	Tot. Suspended Solids	7	
10/09/02	Tot. Suspended Solids	63	
01/14/03	Tot. Suspended Solids	17	
01/08/02	Total Cyanide	<0.0001	0.84
04/19/02	Total Cyanide	0.0001	
05/14/02	Total Cyanide	<0.01	
07/16/02	Total Cyanide	<0.0002	
10/09/02	Total Cyanide	<0.0002	

Tokheim Corporation

Sample Date	Parameter	Result	Limit
11/12/02	Total Cyanide	<0.01	
01/14/03	Total Cyanide	0.00094	
05/13/03	Total Cyanide	<0.01	
01/08/02	Total Phosphorus	5.9	10
04/19/02	Total Phosphorus	26.4	
07/16/02	Total Phosphorus	31.6	
10/09/02	Total Phosphorus	11	
01/14/03	Total Phosphorus	16	
01/08/02	Zinc	0.16	1.83
01/08/02	Zinc	0.11	
01/30/02	Zinc	0.17	
02/11/02	Zinc	0.09	
02/27/02	Zinc	0.08	
03/12/02	Zinc	0.19	
03/27/02	Zinc	0.21	
04/04/02	Zinc	0.08	
04/18/02	Zinc	0.08	
04/19/02	Zinc	0.08	
05/14/02	Zinc	0.08	
05/21/02	Zinc	0.11	
06/12/02	Zinc	0.16	
06/26/02	Zinc	0.15	
07/16/02	Zinc	0.16	
07/22/02	Zinc	0.08	
07/25/02	Zinc	0.14	
08/13/02	Zinc	0.2	
08/27/02	Zinc	0.25	
09/09/02	Zinc	0.09	
09/30/02	Zinc	0.21	
10/08/02	Zinc	0.06	
10/09/02	Zinc	0.08	
10/22/02	Zinc	0.12	
11/12/02	Zinc	0.06	
11/19/02	Zinc	0.13	
12/03/02	Zinc	0.18	
12/10/02	Zinc	0.16	
01/07/03	Zinc	0.11	
01/14/03	Zinc	0.24	
01/23/03	Zinc	0.15	
02/11/03	Zinc	0.11	
02/25/03	Zinc	0.12	
03/11/03	Zinc	0.06	
03/25/03	Zinc	0.07	
04/08/03	Zinc	0.05	
04/22/03	Zinc	0.1	
05/13/03	Zinc	0.03	
05/20/03	Zinc	0.04	
06/03/03	Zinc	0.06	
06/17/03	Zinc	0.11	
07/08/03	Zinc	0.06	
07/29/03	Zinc	0.05	
08/05/03	Zinc	0.08	
08/05/03	Zinc	0.08	
08/27/03	Zinc	0.07	
08/27/03	Zinc	0.07	

Tokheim Corporation

Sample Date	Parameter	Result	Limit
09/11/03	Zinc	0.19	
09/23/03	Zinc	0.04	

Site Consumption

ny: TOKHEIM CORP
Name: Fletcher Dock

IWS Number: 5322
Site Number: 1

Begin	End	Water	Sewer
2/04/2001	01/04/2002	667	658
1/04/2002	01/30/2002	659	650
1/30/2002	03/04/2002	766	755
3/04/2002	04/02/2002	676	667
4/02/2002	05/02/2002	641	632
5/02/2002	06/05/2002	575	567
6/05/2002	07/02/2002	315	311
7/02/2002	08/05/2002	853	841
8/05/2002	08/30/2002	777	766
.0/02/2002	11/01/2002	754	734
3/04/2003	04/04/2003	0	603
4/04/2003	05/05/2003	478	478
5/05/2003	06/06/2003	0	78
6/06/2003	07/01/2003	0	49
7/01/2003	08/01/2003	0	49
8/01/2003	09/01/2003	0	69
9/01/2003	10/01/2003	0	30
.0/01/2003	10/30/2003	0	28

[redacted]

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **08801**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
TriTech Manufacturing, Inc. 2728 Commercial Road Fort Wayne, IN 46809	Same

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 413 standards.

's permit shall become effective on **August 31, 2003.**

This permit and the authorization to discharge wastewater shall expire on **August 31, 2008.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____

_____
Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

ıt via Certified mail to:

Name: Thomas Uslar

Permit 08801

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **TriTech Manufacturing, Inc.** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for 4-day Avg. mg/l	Self-Monitoring Frequency	Sample Type
pH	6.0-12.0		2/month	grab
Cadmium	0.74	0.65	2/year	composite
Chromium	6.51	3.72	2/year	composite
Copper	2.00	2.51	2/month	composite
[illegible]d	0.56	0.37	2/month	composite
[illegible]ckel	3.00	2.21	2/month	composite
Silver	0.30	N/A	2/year	composite
Zinc	3.91	1.38	2/year	composite
Cyanide	1.20	0.60	2/month	grab
T.T.O.	1.98	N/A	2/year	
T.M.	9.77	6.32	2/year	calculate

T.M. = Total Metals and is defined as the sum of the concentrations of Copper, Nickel, Chromium, and Zinc.

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

TriTech Manufacturing

Sample Date	Parameter	Result	Limit
02/12/02	Ammonia-Nitrogen	6	25
05/07/02	Ammonia-Nitrogen	10	
08/15/02	Ammonia-Nitrogen	31	
11/05/02	Ammonia-Nitrogen	2	
02/11/03	Ammonia-Nitrogen	11	
05/15/03	Ammonia-Nitrogen	20	
08/19/03	Ammonia-Nitrogen	<3	
11/13/03	Ammonia-Nitrogen	21.2	
02/12/02	Biochemical Oxygen Demand 5 Day	42	300
05/07/02	Biochemical Oxygen Demand 5 Day	48	
08/15/02	Biochemical Oxygen Demand 5 Day	test failed	
11/05/02	Biochemical Oxygen Demand 5 Day	31	
02/11/03	Biochemical Oxygen Demand 5 Day	20	
05/15/03	Biochemical Oxygen Demand 5 Day	68	
08/19/03	Biochemical Oxygen Demand 5 Day	104	
11/13/03	Biochemical Oxygen Demand 5 Day	101	
02/12/02	Cadmium	<0.04	0.74
05/07/02	Cadmium	<0.04	
05/14/02	Cadmium	<0.01	
08/15/02	Cadmium	< 0.01	
11/05/02	Cadmium	<0.01	
11/05/02	Cadmium	<0.01	
02/11/03	Cadmium	<0.01	
05/06/03	Cadmium	<0.01	
05/15/03	Cadmium	<0.01	
08/19/03	Cadmium	<0.01	
11/04/03	Cadmium	<0.01	
11/13/03	Cadmium	<0.01	
02/12/02	Chemical Oxygen Demand	294	600
05/07/02	Chemical Oxygen Demand	213	
08/15/02	Chemical Oxygen Demand	1083	
11/05/02	Chemical Oxygen Demand	163	
02/11/03	Chemical Oxygen Demand	597	
05/15/03	Chemical Oxygen Demand	310	
08/19/03	Chemical Oxygen Demand	523	
11/13/03	Chemical Oxygen Demand	284	
02/12/02	Chromium	<0.04	6.51
05/07/02	Chromium	<0.04	
05/14/02	Chromium	<0.01	
08/15/02	Chromium	< 0.01	
11/05/02	Chromium	<0.01	
11/05/02	Chromium	<0.01	
02/11/03	Chromium	<0.01	
05/06/03	Chromium	<0.01	
05/15/03	Chromium	<0.01	
08/19/03	Chromium	<0.01	
11/04/03	Chromium	<0.01	
11/13/03	Chromium	<0.01	
01/09/02	Copper	0.04	2
01/15/02	Copper	0.54	
01/22/02	Copper	0.36	
01/29/02	Copper	0.46	
02/05/02	Copper	0.64	
02/12/02	Copper	0.65	
02/12/02	Copper	1.14	

TriTech Manufacturing

Sample Date	Parameter	Result	Limit
02/19/02	Copper	0.55	
02/26/02	Copper	1.6	
03/05/02	Copper	0.03	
03/12/02	Copper	0.18	
03/19/02	Copper	0.38	
03/26/02	Copper	0.76	
04/05/02	Copper	0.44	
04/09/02	Copper	0.27	
04/16/02	Copper	0.1	
04/23/02	Copper	0.43	
05/07/02	Copper	0.32	
05/07/02	Copper	0.26	
05/14/02	Copper	0.28	
05/21/02	Copper	0.23	
05/28/02	Copper	0.34	
06/05/02	Copper	0.45	
06/12/02	Copper	0.34	
06/19/02	Copper	0.23	
06/26/02	Copper	0.4	
07/02/02	Copper	0.8	
07/09/02	Copper	0.42	
07/16/02	Copper	0.2	
07/23/02	Copper	0.59	
08/06/02	Copper	0.44	
08/13/02	Copper	0.42	
08/15/02	Copper	0.32	
08/20/02	Copper	1.84	
08/27/02	Copper	0.61	
09/05/02	Copper	0.22	
09/11/02	Copper	0.74	
09/18/02	Copper	0.49	
09/25/02	Copper	0.24	
10/01/02	Copper	0.54	
10/08/02	Copper	0.44	
10/15/02	Copper	0.05	
10/22/02	Copper	0.13	
11/05/02	Copper	0.12	
11/05/02	Copper	0.29	
11/12/02	Copper	0.23	
11/19/02	Copper	0.34	
11/26/02	Copper	0.18	
12/03/02	Copper	0.18	
12/10/02	Copper	0.24	
12/17/02	Copper	0.33	
12/26/02	Copper	0.04	
01/07/03	Copper	0.36	
01/14/03	Copper	0.43	
01/22/03	Copper	0.44	
01/28/03	Copper	0.36	
02/05/03	Copper	0.48	
02/11/03	Copper	0.71	
02/11/03	Copper	0.51	
02/18/03	Copper	0.52	
02/25/03	Copper	0.74	
03/04/03	Copper	0.67	

TriTech Manufacturing

Sample Date	Parameter	Result	Limit
03/11/03	Copper	0.74	
03/18/03	Copper	0.06	
03/25/03	Copper	0.3	
04/01/03	Copper	0.26	
04/08/03	Copper	0.35	
04/15/03	Copper	0.39	
04/22/03	Copper	0.64	
05/06/03	Copper	0.53	
05/13/03	Copper	0.44	
05/15/03	Copper	2.13	
05/20/03	Copper	2.98	
05/27/03	Copper	0.41	
06/03/03	Copper	0.36	
06/10/03	Copper	0.51	
06/17/03	Copper	0.42	
06/24/03	Copper	0.41	
07/01/03	Copper	0.49	
07/07/03	Copper	0.4	
07/08/03	Copper	0.3	
07/15/03	Copper	0.21	
07/22/03	Copper	0.53	
07/31/03	Copper	0.43	
08/05/03	Copper	0.11	
08/12/03	Copper	0.43	
08/19/03	Copper	0.38	
08/19/03	Copper	0.35	
08/27/03	Copper	0.51	
09/02/03	Copper	0.42	
09/09/03	Copper	0.31	
10/07/03	Copper	0.27	
10/21/03	Copper	0.58	
11/04/03	Copper	0.67	
11/13/03	Copper	0.57	
11/18/03	Copper	0.72	
12/02/03	Copper	0.15	
12/16/03	Copper	0.36	
01/09/02	Lead	<0.02	0.56
01/15/02	Lead	0.1	
01/22/02	Lead	0.07	
01/29/02	Lead	0.08	
02/05/02	Lead	0.06	
02/12/02	Lead	0.07	
02/12/02	Lead	0.15	
02/19/02	Lead	0.59	
02/26/02	Lead	0.23	
03/05/02	Lead	<0.02	
03/12/02	Lead	0.03	
03/19/02	Lead	<0.02	
03/26/02	Lead	0.02	
04/05/02	Lead	<0.02	
04/09/02	Lead	<0.02	
04/15/02	Lead	<0.04	
04/16/02	Lead	<0.02	
04/23/02	Lead	0.05	
05/07/02	Lead	0.05	

TriTech Manufacturing

Sample Date	Parameter	Result	Limit
05/07/02	Lead	<0.02	
05/14/02	Lead	<0.02	
05/21/02	Lead	0.05	
05/28/02	Lead	0.06	
06/05/02	Lead	0.08	
06/12/02	Lead	<0.06	
06/19/02	Lead	0.13	
06/26/02	Lead	<0.06	
07/02/02	Lead	<0.06	
07/09/02	Lead	<0.06	
07/16/02	Lead	<0.06	
07/23/02	Lead	<0.06	
08/06/02	Lead	0.1	
08/13/02	Lead	<0.06	
08/15/02	Lead	0.028	
08/20/02	Lead	0.09	
08/27/02	Lead	<0.06	
09/05/02	Lead	<0.06	
09/11/02	Lead	<0.06	
09/18/02	Lead	<0.06	
09/25/02	Lead	<0.06	
10/01/02	Lead	<0.06	
10/08/02	Lead	<0.06	
10/15/02	Lead	<0.06	
10/22/02	Lead	<0.06	
11/05/02	Lead	<0.02	
11/05/02	Lead	<0.06	
11/12/02	Lead	0.08	
11/19/02	Lead	<0.06	
11/26/02	Lead	<0.06	
12/03/02	Lead	<0.06	
12/10/02	Lead	<0.06	
12/17/02	Lead	0.06	
12/26/02	Lead	<0.06	
01/07/03	Lead	0.03	
01/14/03	Lead	0.03	
01/22/03	Lead	0.03	
01/28/03	Lead	0.03	
02/05/03	Lead	<0.06	
02/11/03	Lead	0.07	
02/11/03	Lead	0.07	
02/18/03	Lead	<0.06	
02/25/03	Lead	<0.06	
03/04/03	Lead	0.11	
03/11/03	Lead	<0.06	
03/18/03	Lead	<0.06	
03/25/03	Lead	<0.06	
04/01/03	Lead	<0.06	
04/08/03	Lead	<0.06	
04/15/03	Lead	0.1	
04/22/03	Lead	<0.06	
05/06/03	Lead	<0.06	
05/13/03	Lead	<0.06	
05/15/03	Lead	0.03	
05/20/03	Lead	0.5	

TriTech Manufacturing

Sample Date	Parameter	Result	Limit
05/27/03	Lead	<0.06	
06/03/03	Lead	<0.06	
06/10/03	Lead	<0.06	
06/17/03	Lead	<0.06	
06/24/03	Lead	0.08	
07/01/03	Lead	<0.06	
07/08/03	Lead	<0.06	
07/15/03	Lead	<0.06	
07/22/03	Lead	<0.06	
08/05/03	Lead	<0.06	
08/12/03	Lead	<0.06	
08/19/03	Lead	0.05	
08/19/03	Lead	<0.06	
08/27/03	Lead	0.08	
09/02/03	Lead	0.07	
09/09/03	Lead	0.2	
10/07/03	Lead	0.34	
10/21/03	Lead	0.15	
11/04/03	Lead	0.12	
11/13/03	Lead	<0.03	
11/18/03	Lead	<0.06	
12/02/03	Lead	<0.06	
12/16/03	Lead	<0.06	
02/12/02	Mercury	0.000049	0.01
02/11/03	Mercury	0.000036	
01/09/02	Nickel	0.02	3
01/15/02	Nickel	0.03	
01/22/02	Nickel	0.04	
01/29/02	Nickel	0.04	
02/05/02	Nickel	0.05	
02/12/02	Nickel	<0.04	
02/12/02	Nickel	0.04	
02/19/02	Nickel	0.09	
02/26/02	Nickel	0.08	
03/05/02	Nickel	<0.01	
03/12/02	Nickel	0.01	
03/19/02	Nickel	0.04	
03/26/02	Nickel	0.08	
04/05/02	Nickel	0.02	
04/09/02	Nickel	0.02	
04/16/02	Nickel	0.02	
04/23/02	Nickel	0.01	
05/07/02	Nickel	<0.04	
05/07/02	Nickel	<0.01	
05/14/02	Nickel	0.02	
05/21/02	Nickel	<0.01	
05/28/02	Nickel	<0.01	
06/05/02	Nickel	0.01	
06/12/02	Nickel	0.02	
06/19/02	Nickel	0.04	
06/26/02	Nickel	0.01	
07/02/02	Nickel	0.08	
07/09/02	Nickel	0.02	
07/16/02	Nickel	0.04	
07/23/02	Nickel	0.03	

TriTech Manufacturing

Sample Date	Parameter	Result	Limit
08/06/02	Nickel	0.02	
08/13/02	Nickel	0.02	
08/15/02	Nickel	< 0.01	
08/20/02	Nickel	0.07	
08/27/02	Nickel	0.02	
09/05/02	Nickel	0.01	
09/11/02	Nickel	0.02	
09/18/02	Nickel	0.01	
09/25/02	Nickel	0.04	
10/01/02	Nickel	0.03	
10/08/02	Nickel	0.2	
10/15/02	Nickel	0.03	
10/22/02	Nickel	0.05	
11/05/02	Nickel	0.01	
11/05/02	Nickel	0.02	
11/12/02	Nickel	0.02	
11/19/02	Nickel	0.02	
11/26/02	Nickel	0.02	
12/03/02	Nickel	0.17	
12/10/02	Nickel	<0.01	
12/17/02	Nickel	0.01	
12/26/02	Nickel	0.01	
01/07/03	Nickel	0.22	
01/14/03	Nickel	0.04	
01/22/03	Nickel	0.02	
01/28/03	Nickel	0.07	
02/05/03	Nickel	0.02	
02/11/03	Nickel	0.01	
02/11/03	Nickel	0.02	
02/18/03	Nickel	0.01	
02/25/03	Nickel	0.02	
03/04/03	Nickel	0.03	
03/11/03	Nickel	0.02	
03/18/03	Nickel	0.02	
03/25/03	Nickel	0.01	
04/01/03	Nickel	0.02	
04/08/03	Nickel	0.01	
04/15/03	Nickel	0.05	
04/22/03	Nickel	0.03	
05/06/03	Nickel	0.05	
05/13/03	Nickel	0.03	
05/15/03	Nickel	0.02	
05/20/03	Nickel	0.08	
05/27/03	Nickel	0.01	
06/03/03	Nickel	0.02	
06/10/03	Nickel	0.02	
06/17/03	Nickel	0.09	
06/24/03	Nickel	0.04	
07/01/03	Nickel	0.02	
07/08/03	Nickel	0.02	
07/15/03	Nickel	0.05	
07/22/03	Nickel	0.03	
08/05/03	Nickel	0.03	
08/12/03	Nickel	0.02	
08/19/03	Nickel	0.14	

TriTech Manufacturing

Sample Date	Parameter	Result	Limit
08/19/03	Nickel	0.08	
08/27/03	Nickel	0.03	
09/02/03	Nickel	0.03	
09/09/03	Nickel	0.1	
10/07/03	Nickel	0.04	
10/21/03	Nickel	0.03	
11/04/03	Nickel	0.03	
11/13/03	Nickel	<0.01	
11/18/03	Nickel	0.08	
12/02/03	Nickel	0.02	
12/16/03	Nickel	0.03	
01/09/02	pH	7.4	6.0-12.0
01/15/02	pH	7.2	
01/22/02	pH	6.9	
01/29/02	pH	7.1	
02/05/02	pH	7.3	
02/12/02	pH	6.1	
02/12/02	pH	7.4	
02/19/02	pH	7.4	
02/26/02	pH	7.8	
03/05/02	pH	7.3	
03/12/02	pH	8	
03/19/02	pH	7.1	
03/26/02	pH	7.6	
04/05/02	pH	7.8	
04/09/02	pH	7.2	
04/16/02	pH	8.1	
04/23/02	pH	7.9	
05/07/02	pH	7.2	
05/07/02	pH	7	
05/14/02	pH	7	
05/21/02	pH	7.3	
05/28/02	pH	7.4	
06/05/02	pH	6.7	
06/12/02	pH	7.2	
06/19/02	pH	8.3	
06/26/02	pH	7.5	
07/02/02	pH	7.8	
07/09/02	pH	7.9	
07/16/02	pH	7.2	
07/23/02	pH	7.1	
08/06/02	pH	7.3	
08/13/02	pH	6.9	
08/15/02	pH	7.5	
08/20/02	pH	6.9	
08/27/02	pH	7.8	
09/05/02	pH	8.3	
09/11/02	pH	7.2	
09/18/02	pH	7.4	
09/25/02	pH	7.3	
10/01/02	pH	6.2	
10/08/02	pH	8	
10/15/02	pH	8.1	
10/22/02	pH	7.1	
11/05/02	pH	6.7	

TriTech Manufacturing

Sample Date	Parameter	Result	Limit
11/05/02	pH	7.2	
11/12/02	pH	7.1	
11/19/02	pH	7.3	
11/26/02	pH	6.9	
12/03/02	pH	7.8	
12/10/02	pH	7.3	
12/17/02	pH	7.2	
12/26/02	pH	7.4	
01/07/03	pH	7.3	
01/14/03	pH	7.4	
01/22/03	pH	7.8	
01/28/03	pH	7.6	
02/05/03	pH	7.9	
02/11/03	pH	8.7	
02/11/03	pH	7.9	
02/18/03	pH	7.7	
02/25/03	pH	7.7	
03/04/03	pH	7.6	
03/11/03	pH	7.8	
03/18/03	pH	7.6	
03/25/03	pH	7.8	
04/01/03	pH	7.8	
04/08/03	pH	7.7	
04/15/03	pH	8.2	
04/22/03	pH	7.8	
05/06/03	pH	7.8	
05/13/03	pH	7.6	
05/15/03	pH	7.4	
05/20/03	pH	8.7	
05/27/03	pH	8.04	
06/03/03	pH	8.9	
06/10/03	pH	8.4	
06/17/03	pH	8.3	
06/24/03	pH	8.2	
07/01/03	pH	7.2	
07/08/03	pH	6.7	
07/15/03	pH	7.2	
07/22/03	pH	8.2	
08/05/03	pH	7.9	
08/12/03	pH	6.8	
08/19/03	pH	9.1	
08/19/03	pH	7.6	
08/27/03	pH	8.5	
09/02/03	pH	8.6	
09/09/03	pH	7.6	
10/07/03	pH	7.7	
10/21/03	pH	7.6	
11/04/03	pH	8.2	
11/13/03	pH	8.6	
11/18/03	pH	6.3	
12/02/03	pH	7.9	
12/16/03	pH	8.1	
02/12/02	Silver	<0.04	0.3
05/07/02	Silver	<0.04	
08/15/02	Silver	< 0.01	

TriTech Manufacturing

Sample Date	Parameter	Result	Limit
11/05/02	Silver	0.04	
02/11/03	Silver	0.09	
05/15/03	Silver	<0.01	
08/19/03	Silver	0.02	
11/13/03	Silver	<0.01	
02/12/02	Tot. Suspended Solids	14	300
05/07/02	Tot. Suspended Solids	12	
08/15/02	Tot. Suspended Solids	44	
11/05/02	Tot. Suspended Solids	10	
02/11/03	Tot. Suspended Solids	11	
05/15/03	Tot. Suspended Solids	13	
08/19/03	Tot. Suspended Solids	26	
11/13/03	Tot. Suspended Solids	11	
01/09/02	Total Cyanide	<0.01	1.2
01/15/02	Total Cyanide	<0.01	
01/22/02	Total Cyanide	<0.01	
01/29/02	Total Cyanide	<0.01	
02/05/02	Total Cyanide	<0.01	
02/12/02	Total Cyanide	0.0021	
02/12/02	Total Cyanide	<0.01	
02/19/02	Total Cyanide	<0.01	
02/26/02	Total Cyanide	0.02	
03/05/02	Total Cyanide	<0.01	
03/12/02	Total Cyanide	<0.01	
03/19/02	Total Cyanide	<0.01	
03/26/02	Total Cyanide	<0.01	
04/05/02	Total Cyanide	<0.01	
04/09/02	Total Cyanide	<0.01	
04/16/02	Total Cyanide	<0.01	
04/23/02	Total Cyanide	<0.01	
05/07/02	Total Cyanide	0.0056	
05/07/02	Total Cyanide	0.02	
05/14/02	Total Cyanide	<0.01	
05/21/02	Total Cyanide	<0.01	
05/28/02	Total Cyanide	<0.01	
06/05/02	Total Cyanide	<0.01	
06/12/02	Total Cyanide	<0.01	
06/19/02	Total Cyanide	0.02	
06/26/02	Total Cyanide	0.04	
07/02/02	Total Cyanide	<0.01	
07/09/02	Total Cyanide	<0.01	
07/16/02	Total Cyanide	<0.01	
07/23/02	Total Cyanide	<0.01	
08/06/02	Total Cyanide	<0.01	
08/13/02	Total Cyanide	0.02	
08/15/02	Total Cyanide	0.00096	
08/20/02	Total Cyanide	<0.01	
08/27/02	Total Cyanide	<0.01	
09/05/02	Total Cyanide	<0.01	
09/11/02	Total Cyanide	0.03	
09/18/02	Total Cyanide	<0.01	
09/25/02	Total Cyanide	<0.01	
10/01/02	Total Cyanide	<0.01	
10/08/02	Total Cyanide	<0.01	
10/15/02	Total Cyanide	<0.01	

TriTech Manufacturing

Sample Date	Parameter	Result	Limit
10/22/02	Total Cyanide	0.02	
11/05/02	Total Cyanide	0.00034	
11/05/02	Total Cyanide	<0.01	
11/12/02	Total Cyanide	<0.01	
11/19/02	Total Cyanide	0.02	
11/26/02	Total Cyanide	<0.01	
12/03/02	Total Cyanide	<0.01	
12/10/02	Total Cyanide	<0.01	
12/17/02	Total Cyanide	0.04	
12/26/02	Total Cyanide	<0.01	
01/07/03	Total Cyanide	0.01	
01/14/03	Total Cyanide	0.02	
01/22/03	Total Cyanide	0.005	
01/28/03	Total Cyanide	0.1	
02/05/03	Total Cyanide	<0.01	
02/11/03	Total Cyanide	0.0011	
02/11/03	Total Cyanide	<0.01	
02/18/03	Total Cyanide	<0.01	
02/25/03	Total Cyanide	0.09	
03/04/03	Total Cyanide	<0.01	
03/11/03	Total Cyanide	<0.01	
03/18/03	Total Cyanide	<0.01	
03/25/03	Total Cyanide	<0.01	
04/01/03	Total Cyanide	<0.01	
04/08/03	Total Cyanide	0.14	
04/15/03	Total Cyanide	<0.01	
04/22/03	Total Cyanide	0.03	
05/06/03	Total Cyanide	0.01	
05/13/03	Total Cyanide	<0.01	
05/15/03	Total Cyanide	0.0008	
05/20/03	Total Cyanide	0.03	
05/27/03	Total Cyanide	<0.01	
06/03/03	Total Cyanide	<0.01	
06/10/03	Total Cyanide	<0.01	
06/17/03	Total Cyanide	0.03	
06/24/03	Total Cyanide	0.1	
07/01/03	Total Cyanide	0.11	
07/08/03	Total Cyanide	<0.01	
07/15/03	Total Cyanide	<0.01	
07/22/03	Total Cyanide	<0.01	
08/05/03	Total Cyanide	<0.01	
08/12/03	Total Cyanide	<0.01	
08/19/03	Total Cyanide	Scratched	
08/19/03	Total Cyanide	<0.01	
08/27/03	Total Cyanide	<0.01	
09/02/03	Total Cyanide	0.02	
09/09/03	Total Cyanide	0.02	
10/07/03	Total Cyanide	<0.01	
10/21/03	Total Cyanide	<0.01	
11/04/03	Total Cyanide	<0.01	
11/13/03	Total Cyanide	0.00094	
12/02/03	Total Cyanide	<0.01	
12/16/03	Total Cyanide	<0.01	
02/12/02	Total Metal (40CFR413)	0.71	9.77
05/07/02	Total Metal (40CFR413)	0.46	

TriTech Manufacturing

Sample Date	Parameter	Result	Limit
05/14/02	Total Metal (40CFR413)	<0.32	
08/15/02	Total Metal (40CFR413)	0.37	
11/05/02	Total Metal (40CFR413)	0.145	
11/05/02	Total Metal (40CFR413)	<0.37	
02/11/03	Total Metal (40CFR413)	0.745	
05/06/03	Total Metal (40CFR413)	0.63	
05/15/03	Total Metal (40CFR413)	nodata	
08/19/03	Total Metal (40CFR413)	0.545	
11/04/03	Total Metal (40CFR413)	0.74	
11/13/03	Total Metal (40CFR413)	0.06	
02/12/02	Total Phosphorus	0.6	10
05/07/02	Total Phosphorus	0.1	
08/15/02	Total Phosphorus	< 0.06	
11/05/02	Total Phosphorus	0.304	
02/11/03	Total Phosphorus	0.2	
05/15/03	Total Phosphorus	2	
08/19/03	Total Phosphorus	0.47	
11/13/03	Total Phosphorus	0.2	
02/12/02	Zinc	<0.04	3.91
05/07/02	Zinc	0.1	
05/14/02	Zinc	0.01	
08/15/02	Zinc	0.043	
11/05/02	Zinc	0.01	
11/05/02	Zinc	0.05	
02/11/03	Zinc	0.02	
05/06/03	Zinc	0.04	
05/15/03	Zinc	0.01	
08/19/03	Zinc	0.02	
11/04/03	Zinc	0.03	
11/13/03	Zinc	0.02	

Site Consumption

ompany: TRI TECH MANUFACTURING I
ite Name: TRI TECH MFG.

IWS Number: 5360
Site Number: 1

Begin	End	Water	Sewer
2/10/2001	01/10/2002	228	228
1/10/2002	02/07/2002	313	313
2/07/2002	03/12/2002	296	296
3/12/2002	04/09/2002	277	277
4/09/2002	05/13/2002	314	314
5/13/2002	06/12/2002	274	274
6/12/2002	07/15/2002	360	360
7/15/2002	08/13/2002	269	269
8/13/2002	09/13/2002	418	418
9/13/2002	10/11/2002	265	265
0/11/2002	11/12/2002	101	101
1/12/2002	12/10/2002	247	247
2/10/2002	01/10/2003	178	178
1/10/2003	02/04/2003	267	267
2/04/2003	03/07/2003	320	320
3/07/2003	04/07/2003	261	261
4/07/2003	05/09/2003	349	349
5/09/2003	06/09/2003	283	283
6/09/2003	07/08/2003	180	180
7/08/2003	08/08/2003	183	183
/2003	09/08/2003	176	176
9/08/2003	10/07/2003	193	193
0/07/2003	11/07/2003	249	249
1/07/2003	12/05/2003	174	174
2/05/2003	01/09/2004	248	248

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **09401**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Valspar Coatings Division of Engineered Polymer Solutions, Inc. 202 Jacobs Avenue Fort Wayne, IN 46808	P.O. Box 10330 Fort Wayne, IN 46851 Phone: (219) 484-9011

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 403 standards.

is permit shall become effective on **December 11, 1998.**

This permit and the authorization to discharge wastewater shall expire on **December 11, 2003.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Manager of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

it via Certified mail to:

Name: Stephen Scales
Title: H.S.E. Manager

I. LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Self-Monitoring Frequency	Sample Type
Lead	0.60	2/month	composite
Zinc	6.00	2/month	composite
pH	6.0-12.0	2/month	grab

REQUIRED REPORTS

REPORT	DUE DATE
Discharge Monitoring Report (DMR)	due the 15th of each month, for the prior month sampling.
pliance Monitoring Report (CMR)	June 28 and December 28 each year
Industrial Waste Questionnaire (IWQ)	January 15, each year
Baseline Monitoring Report (BMR) (Permit Application)	**October 11, 2003**

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

Valspar Corp.

Sample Date	Parameter	Result	Limit
01/31/02	Ammonia-Nitrogen	1	25
01/31/02	Biochemical Oxygen Demand 5 Day	FAILED	300
01/31/02	Cadmium	<0.04	0.7
01/31/02	Chemical Oxygen Demand	<27	600
01/31/02	Chromium	<0.04	10
01/31/02	Copper	<0.04	2
01/08/02	Lead	0.08	0.6
01/21/02	Lead	0.06	
01/31/02	Lead	<0.04	
02/01/02	Lead	0.06	
02/13/02	Lead	<0.02	
02/27/02	Lead	0.06	
03/04/02	Lead	<0.02	
03/25/02	Lead	0.06	
01/31/02	Mercury	0.00008	0.01
01/31/02	Nickel	<0.04	3
01/08/02	pH	7.75	6.0-12.0
01/21/02	pH	6.61	
01/31/02	pH	6.3	
02/13/02	pH	7.34	
02/27/02	pH	7.13	
03/04/02	pH	6.79	
03/25/02	pH	8.35	
01/31/02	Silver	<0.04	0.3
01/31/02	Tot. Suspended Solids	4	300
01/31/02	Total Phosphorus	0.1	10
01/08/02	Zinc	0.23	6
01/21/02	Zinc	0.1	
01/31/02	Zinc	<0.04	
02/01/02	Zinc	0.02	
02/13/02	Zinc	0.05	
02/27/02	Zinc	0.02	
03/04/02	Zinc	0.02	
03/25/02	Zinc	0.06	

Site Consumption

ny: VALSPAR CORP
Name:

IWS Number: 4869
Site Number: 1

Begin	End	Water	Sewer
2/17/2001	01/15/2002	505	524
1/15/2002	02/15/2002	480	480
2/15/2002	03/12/2002	357	383

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **09551**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Venture Powder Coaters, Inc. 517 Southview Avenue Fort Wayne, IN 46806	Same Phone: 219-744-6757

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 433.17 standards.

is permit shall become effective on **June 16, 2000**

This permit and the authorization to discharge wastewater shall expire on **June 16, 2005.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

it via Certified mail to:

Name: Dennis F. Long
Title: Plant Manager

I. LIMITATIONS, MONITORING, AND REPORTING REQUIREMENTS

charge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for Monthly Avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.11	0.07	2/year	composite
Chromium	2.77	1.71	2/year	composite
Copper	2.00	2.07	2/year	composite
Lead	0.60	0.43	2/year	composite
Nickel	3.00	2.38	2/month	composite
Silver	0.30	0.24	2/year	composite
Zinc	2.61	1.48	2/month	composite
Cyanide	1.20	0.65	2/year	grab
TTO	2.13	N/A	2/year	
pH	6.0-12.0		2/month	grab
Oil and Grease	100		2/year	grab

REQUIRED REPORTS

REPORT	DUE DATE
. ɜcharge Monitoring Report (DMR)	due the 15th of each month, for the prior month sampling.
Compliance Monitoring Report (CMR)	June 28 and December 28 each year
Industrial Waste Questionnaire (IWQ)	January 15, each year
Baseline Monitoring Report (BMR) (Permit Application)	**April 17, 2005**

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

Venture Powder Coaters

Sample Date	Parameter	Result	Limit
02/07/02	Ammonia-Nitrogen	4	25
06/26/02	Ammonia-Nitrogen	0.118	
08/28/02	Ammonia-Nitrogen	0.0046	
11/14/02	Ammonia-Nitrogen	<1	
02/25/03	Ammonia-Nitrogen	<3	
05/01/03	Ammonia-Nitrogen	<1	
08/13/03	Ammonia-Nitrogen	<3	
02/07/02	Biochemical Oxygen Demand 5 Day	failed	300
06/26/02	Biochemical Oxygen Demand 5 Day	29	
08/28/02	Biochemical Oxygen Demand 5 Day	14	
11/14/02	Biochemical Oxygen Demand 5 Day	19	
02/25/03	Biochemical Oxygen Demand 5 Day	13	
05/01/03	Biochemical Oxygen Demand 5 Day	18	
08/13/03	Biochemical Oxygen Demand 5 Day	48	
02/07/02	Cadmium	<0.04	0.11
06/25/02	Cadmium	<0.01	
06/26/02	Cadmium	<0.01	
08/28/02	Cadmium	<0.01	
11/14/02	Cadmium	<0.01	
11/14/02	Cadmium	<0.01	
02/25/03	Cadmium	<0.01	
05/01/03	Cadmium	<0.01	
05/21/03	Cadmium	<0.01	
08/13/03	Cadmium	<0.01	
11/24/03	Cadmium	<0.01	
02/07/02	Chemical Oxygen Demand	912	600
06/26/02	Chemical Oxygen Demand	160	
08/28/02	Chemical Oxygen Demand	118	
11/14/02	Chemical Oxygen Demand	78	
02/25/03	Chemical Oxygen Demand	139	
05/01/03	Chemical Oxygen Demand	138	
08/13/03	Chemical Oxygen Demand	307	
02/07/02	Chromium	<0.04	2.77
06/25/02	Chromium	0.02	
06/26/02	Chromium	0.01	
08/28/02	Chromium	<0.01	
11/14/02	Chromium	<0.01	
11/14/02	Chromium	0.02	
02/25/03	Chromium	<0.01	
05/01/03	Chromium	0.01	
05/21/03	Chromium	0.04	
08/13/03	Chromium	0.01	
11/24/03	Chromium	<0.01	
02/07/02	Copper	0.25	2
06/25/02	Copper	0.1	
06/26/02	Copper	0.07	
08/28/02	Copper	0.05	
11/14/02	Copper	0.01	
11/14/02	Copper	0.03	
02/25/03	Copper	0.03	
05/01/03	Copper	0.06	
05/21/03	Copper	0.03	
08/13/03	Copper	0.15	
11/24/03	Copper	0.03	
02/07/02	Lead	<0.04	0.6

Venture Powder Coaters

Sample Date	Parameter	Result	Limit
06/25/02	Lead	<0.06	
06/26/02	Lead	0.02	
08/28/02	Lead	<0.02	
11/14/02	Lead	<0.02	
11/14/02	Lead	0.08	
02/25/03	Lead	<0.02	
05/01/03	Lead	<0.03	
05/21/03	Lead	<0.06	
08/13/03	Lead	0.04	
11/24/03	Lead	<0.06	
02/07/02	Mercury	0.000023	0.01
02/25/03	Mercury	<0.000005	
01/07/02	Nickel	0.02	3
01/28/02	Nickel	0.04	
02/07/02	Nickel	<0.04	
02/11/02	Nickel	0.03	
02/27/02	Nickel	0.03	
03/14/02	Nickel	0.02	
03/29/02	Nickel	0.02	
04/12/02	Nickel	0.03	
04/26/02	Nickel	0.08	
05/15/02	Nickel	0.02	
05/30/02	Nickel	0.01	
06/13/02	Nickel	0.02	
06/25/02	Nickel	0.03	
06/26/02	Nickel	0.02	
07/02/02	Nickel	0.01	
07/25/02	Nickel	0.03	
08/19/02	Nickel	0.02	
08/28/02	Nickel	<0.01	
08/29/02	Nickel	0.02	
09/12/02	Nickel	0.02	
09/20/02	Nickel	0.03	
10/21/02	Nickel	0.03	
10/31/02	Nickel	0.03	
11/14/02	Nickel	<0.01	
11/14/02	Nickel	0.03	
11/20/02	Nickel	0.02	
12/05/02	Nickel	0.02	
12/18/02	Nickel	0.02	
01/07/03	Nickel	0.03	
01/27/03	Nickel	<0.01	
02/19/03	Nickel	<0.01	
02/25/03	Nickel	<0.01	
02/28/03	Nickel	0.02	
03/03/03	Nickel	0.02	
03/21/03	Nickel	<0.01	
04/17/03	Nickel	0.02	
04/22/03	Nickel	0.02	
05/01/03	Nickel	0.01	
05/05/03	Nickel	0.03	
05/21/03	Nickel	0.02	
06/16/03	Nickel	0.02	
06/18/03	Nickel	0.02	
07/18/03	Nickel	0.01	

Venture Powder Coaters

Sample Date	Parameter	Result	Limit
07/21/03	Nickel	0.01	
08/13/03	Nickel	0.02	
08/27/03	Nickel	0.02	
08/29/03	Nickel	0.02	
09/20/03	Nickel	0.01	
09/29/03	Nickel	0.01	
11/20/03	Nickel	<0.01	
11/24/03	Nickel	<0.01	
12/09/03	Nickel	0.02	
01/07/02	pH	7.12	6.0-12.0
01/28/02	pH	6.56	
02/07/02	pH	8	
02/11/02	pH	7.17	
02/27/02	pH	7.16	
03/14/02	pH	7.51	
03/29/02	pH	6.88	
04/12/02	pH	9.31	
04/26/02	pH	10	
05/15/02	pH	9.18	
05/30/02	pH	9.34	
06/13/02	pH	10.4	
06/25/02	pH	9.79	
06/26/02	pH	9.5	
07/02/02	pH	9.53	
07/25/02	pH	9.98	
08/19/02	pH	9.36	
08/28/02	pH	8.8	
08/29/02	pH	7.69	
09/12/02	pH	8.09	
09/20/02	pH	8.64	
10/21/02	pH	8.57	
10/31/02	pH	8.68	
11/14/02	pH	7.4	
11/14/02	pH	8.25	
11/20/02	pH	7.48	
12/05/02	pH	7.21	
12/18/02	pH	8.25	
01/07/03	pH	7.38	
01/27/03	pH	7.23	
02/19/03	pH	7.62	
02/25/03	pH	7	
02/28/03	pH	7.42	
03/03/03	pH	7.43	
03/21/03	pH	7.58	
04/17/03	pH	8.92	
04/22/03	pH	9.36	
05/01/03	pH	7.9	
05/05/03	pH	10.1	
05/21/03	pH	7.35	
06/16/03	pH	9.35	
06/18/03	pH	9.34	
07/18/03	pH	9.29	
07/21/03	pH	9.33	
08/13/03	pH	9.4	
08/27/03	pH	9.2	

Venture Powder Coaters

Sample Date	Parameter	Result	Limit
08/29/03	pH	9.24	
09/20/03	pH	9.11	
09/29/03	pH	9.06	
11/20/03	pH	8.21	
11/24/03	pH	8.16	
12/09/03	pH	7.52	
02/07/02	Silver	<0.04	0.3
06/25/02	Silver	0.01	
06/26/02	Silver	<0.01	
08/28/02	Silver	0.01	
11/14/02	Silver	<0.01	
11/14/02	Silver	<0.01	
02/25/03	Silver	<0.01	
05/01/03	Silver	<0.01	
05/21/03	Silver	<0.01	
08/13/03	Silver	0.01	
11/24/03	Silver	0.02	
02/07/02	Tot. Suspended Solids	65	300
06/26/02	Tot. Suspended Solids	18	
08/28/02	Tot. Suspended Solids	21	
11/14/02	Tot. Suspended Solids	6	
02/25/03	Tot. Suspended Solids	4	
05/01/03	Tot. Suspended Solids	52	
08/13/03	Tot. Suspended Solids	19	
02/07/02	Total Cyanide	0.0005	1.2
06/25/02	Total Cyanide	<0.01	
06/26/02	Total Cyanide	0.0016	
08/28/02	Total Cyanide	0.00765	
11/14/02	Total Cyanide	< 0.0002	
11/14/02	Total Cyanide	<0.01	
02/25/03	Total Cyanide	0.0015	
05/01/03	Total Cyanide	<0.0002	
05/21/03	Total Cyanide	0.03	
08/13/03	Total Cyanide	<0.0002	
11/24/03	Total Cyanide	<0.01	
02/07/02	Total Phosphorus	79.5	10
06/26/02	Total Phosphorus	23	
08/28/02	Total Phosphorus	17	
11/14/02	Total Phosphorus	6	
02/25/03	Total Phosphorus	6	
05/01/03	Total Phosphorus	15	
08/13/03	Total Phosphorus	25	
01/07/02	Zinc	0.64	2.61
01/28/02	Zinc	0.53	
02/07/02	Zinc	1.09	
02/11/02	Zinc	0.22	
02/27/02	Zinc	0.55	
03/14/02	Zinc	0.41	
03/29/02	Zinc	0.38	
04/12/02	Zinc	0.81	
04/26/02	Zinc	7.78	
05/15/02	Zinc	1.22	
05/30/02	Zinc	1.24	
06/13/02	Zinc	1.97	
06/25/02	Zinc	2.46	

Venture Powder Coaters

Sample Date	Parameter	Result	Limit
06/26/02	Zinc	2.45	
07/02/02	Zinc	1.58	
07/16/02	Zinc	12.5	
07/25/02	Zinc	1.37	
08/19/02	Zinc	1.16	
08/28/02	Zinc	0.72	
08/29/02	Zinc	0.36	
09/06/02	Zinc	0.52	
09/12/02	Zinc	0.31	
09/20/02	Zinc	0.31	
10/21/02	Zinc	0.31	
10/31/02	Zinc	0.47	
11/14/02	Zinc	0.22	
11/14/02	Zinc	0.38	
11/20/02	Zinc	0.44	
12/05/02	Zinc	0.23	
12/18/02	Zinc	0.21	
01/07/03	Zinc	0.36	
01/27/03	Zinc	0.32	
02/19/03	Zinc	0.5	
02/25/03	Zinc	0.08	
02/28/03	Zinc	0.25	
03/03/03	Zinc	0.27	
03/21/03	Zinc	0.48	
04/17/03	Zinc	0.81	
04/22/03	Zinc	0.95	
05/01/03	Zinc	0.46	
05/05/03	Zinc	1.91	
05/21/03	Zinc	0.25	
06/16/03	Zinc	0.91	
06/18/03	Zinc	0.91	
07/18/03	Zinc	0.31	
07/21/03	Zinc	0.3	
08/13/03	Zinc	2.33	
08/27/03	Zinc	0.39	
08/29/03	Zinc	0.42	
09/20/03	Zinc	0.66	
09/29/03	Zinc	0.66	
11/20/03	Zinc	0.3	
11/24/03	Zinc	0.3	
12/09/03	Zinc	0.23	

Site Consumption

ny: VENTURE POWDER COATERS
1. Name: VENTURE POWDER COAT

IWS Number: 7372
Site Number: 1

Begin	End	Water	Sewer
2/07/2001	01/07/2002	49	49
2/05/2002	03/04/2002	61	61
2/02/2002	01/03/2003	171	171
1/03/2003	02/03/2003	66	66
2/03/2003	03/03/2003	90	90
3/03/2003	03/28/2003	100	100
3/28/2003	05/01/2003	103	103
5/01/2003	06/03/2003	64	64
6/03/2003	07/03/2003	40	40
7/03/2003	07/31/2003	58	58
7/31/2003	09/03/2003	55	55
9/03/2003	09/30/2003	56	56
9/30/2003	10/31/2003	141	141
.0/31/2003	12/02/2003	73	73
.2/02/2003	01/05/2004	62	62

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **09901**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
Wayne Metal Protection Company 1511 Wabash Avenue Fort Wayne, IN 46803	same

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 413.14 and 413.4 standards.

This permit shall become effective on **October 31, 2003**

This permit and the authorization to discharge wastewater shall expire on **October 31, 2008**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

Sent via Certified mail to:

Name: Harold Otis

Permit 09901

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **Wayne Metal Protection Company** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for 4-Day avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.70	0.66	1/month	composite
Chromium	6.58	3.76	1/month	composite
Copper	2.00	2.54	1/month	composite
Lead	0.56	0.38	2/year	composite
Nickel	3.00	2.44	1/month	composite
Zinc	3.95	2.44	1/month	composite
Cyanide	1.20	0.94	2/year	grab
Total Metals	9.87	6.39	N/A	N/A
pH	6.0-12.0		1/month	grab

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

Total metals is defined as the sum of the concentration of Copper, Nickel, Chromium, and Zinc.

Wayne Metal Protection Company

Sample Date	Parameter	Result	Limit
01/08/02	Ammonia-Nitrogen	1.1	25
04/30/02	Ammonia-Nitrogen	0.414	
07/16/02	Ammonia-Nitrogen	0.0435	
10/09/02	Ammonia-Nitrogen	2	
01/15/03	Ammonia-Nitrogen	1	
04/16/03	Ammonia-Nitrogen	1	
07/15/03	Ammonia-Nitrogen	<3	
10/21/03	Ammonia-Nitrogen	<3	
01/08/02	Biochemical Oxygen Demand 5 Day	120	300
04/30/02	Biochemical Oxygen Demand 5 Day	164	
07/16/02	Biochemical Oxygen Demand 5 Day	196	
10/09/02	Biochemical Oxygen Demand 5 Day	165	
01/15/03	Biochemical Oxygen Demand 5 Day	167	
04/16/03	Biochemical Oxygen Demand 5 Day	239	
07/15/03	Biochemical Oxygen Demand 5 Day	164	
10/21/03	Biochemical Oxygen Demand 5 Day	96	
01/04/02	Cadmium	<0.04	0.7
01/08/02	Cadmium	<0.04	
02/12/02	Cadmium	<0.04	
03/05/02	Cadmium	<0.04	
04/09/02	Cadmium	<0.04	
04/30/02	Cadmium	<0.04	
05/07/02	Cadmium	<0.04	
06/05/02	Cadmium	<0.04	
07/08/02	Cadmium	<0.04	
07/16/02	Cadmium	<0.01	
08/06/02	Cadmium	<0.01	
09/05/02	Cadmium	<0.04	
10/08/02	Cadmium	<0.01	
10/09/02	Cadmium	<0.01	
11/12/02	Cadmium	<0.01	
12/09/02	Cadmium	<0.01	
01/07/03	Cadmium	<0.01	
01/15/03	Cadmium	<0.01	
02/06/03	Cadmium	<0.01	
03/11/03	Cadmium	<0.01	
04/08/03	Cadmium	<0.01	
04/16/03	Cadmium	<0.01	
05/05/03	Cadmium	<0.01	
06/06/03	Cadmium	<0.01	
07/14/03	Cadmium	<0.01	
07/15/03	Cadmium	<0.01	
08/15/03	Cadmium	<0.01	
09/09/03	Cadmium	<0.01	
10/09/03	Cadmium	0.005	
10/21/03	Cadmium	<0.01	
11/12/03	Cadmium	<0.01	
12/15/03	Cadmium	<0.01	
01/08/02	Chemical Oxygen Demand	36	600
04/30/02	Chemical Oxygen Demand	393	
07/16/02	Chemical Oxygen Demand	497	
10/09/02	Chemical Oxygen Demand	749	
01/15/03	Chemical Oxygen Demand	411	
04/16/03	Chemical Oxygen Demand	544	
07/15/03	Chemical Oxygen Demand	437	

Wayne Metal Protection Company

Sample Date	Parameter	Result	Limit
10/21/03	Chemical Oxygen Demand	274	
01/04/02	Chromium	0.17	6.58
01/08/02	Chromium	0.16	
02/12/02	Chromium	0.25	
03/05/02	Chromium	0.11	
04/09/02	Chromium	0.09	
04/30/02	Chromium	0.11	
05/07/02	Chromium	0.06	
06/05/02	Chromium	0.17	
07/08/02	Chromium	0.1	
07/16/02	Chromium	0.47	
08/06/02	Chromium	0.71	
09/05/02	Chromium	0.3	
10/08/02	Chromium	0.16	
10/09/02	Chromium	0.1	
11/12/02	Chromium	0.17	
12/09/02	Chromium	0.22	
01/07/03	Chromium	0.29	
01/15/03	Chromium	0.77	
02/06/03	Chromium	0.25	
03/11/03	Chromium	0.14	
04/08/03	Chromium	0.1	
04/16/03	Chromium	0.04	
05/05/03	Chromium	0.21	
06/06/03	Chromium	0.16	
07/14/03	Chromium	0.16	
07/15/03	Chromium	0.91	
08/15/03	Chromium	0.41	
09/09/03	Chromium	0.24	
10/09/03	Chromium	0.15	
10/21/03	Chromium	0.1	
11/12/03	Chromium	0.29	
12/15/03	Chromium	0.29	
01/04/02	Copper	0.02	2
01/08/02	Copper	0.06	
02/12/02	Copper	0.05	
03/05/02	Copper	0.04	
04/09/02	Copper	0.03	
04/30/02	Copper	<0.04	
05/07/02	Copper	0.02	
06/05/02	Copper	0.03	
07/08/02	Copper	0.04	
07/16/02	Copper	0.03	
08/06/02	Copper	0.04	
09/05/02	Copper	0.06	
10/08/02	Copper	0.19	
10/09/02	Copper	0.07	
11/12/02	Copper	0.03	
12/09/02	Copper	0.03	
01/07/03	Copper	0.05	
01/15/03	Copper	0.15	
02/06/03	Copper	0.1	
03/11/03	Copper	0.07	
04/08/03	Copper	0.07	
04/16/03	Copper	0.03	

Wayne Metal Protection Company

Sample Date	Parameter	Result	Limit
05/05/03	Copper	0.07	
06/06/03	Copper	0.08	
07/14/03	Copper	0.07	
07/15/03	Copper	0.07	
08/15/03	Copper	0.38	
09/09/03	Copper	0.23	
10/09/03	Copper	0.18	
10/21/03	Copper	0.07	
11/12/03	Copper	0.12	
12/15/03	Copper	0.17	
01/08/02	Lead	<0.04	0.56
04/30/02	Lead	<0.04	
07/16/02	Lead	0.05	
10/09/02	Lead	0.03	
01/15/03	Lead	0.04	
04/16/03	Lead	<0.03	
07/15/03	Lead	<0.03	
10/21/03	Lead	<0.03	
01/08/02	Mercury	<0.000016	0.01
01/15/03	Mercury	0.000028	
01/04/02	Nickel	0.08	3
01/08/02	Nickel	0.07	
02/12/02	Nickel	0.09	
03/05/02	Nickel	0.16	
04/09/02	Nickel	0.08	
04/30/02	Nickel	0.04	
05/07/02	Nickel	0.08	
06/05/02	Nickel	0.1	
07/08/02	Nickel	0.09	
07/16/02	Nickel	0.04	
08/06/02	Nickel	0.07	
09/05/02	Nickel	0.13	
10/08/02	Nickel	0.1	
10/09/02	Nickel	0.04	
11/12/02	Nickel	0.1	
12/09/02	Nickel	0.12	
01/07/03	Nickel	0.37	
01/15/03	Nickel	0.93	
02/06/03	Nickel	0.3	
03/11/03	Nickel	0.1	
04/08/03	Nickel	0.12	
04/16/03	Nickel	0.02	
05/05/03	Nickel	0.24	
06/06/03	Nickel	0.06	
07/14/03	Nickel	0.23	
07/15/03	Nickel	0.19	
08/15/03	Nickel	0.62	
09/09/03	Nickel	0.2	
10/09/03	Nickel	0.12	
10/21/03	Nickel	0.03	
11/12/03	Nickel	0.18	
12/15/03	Nickel	0.08	
01/04/02	pH	7.75	6.0-12.0
01/08/02	pH	9.1	
02/12/02	pH	8.1	

Wayne Metal Protection Company

Sample Date	Parameter	Result	Limit
03/05/02	pH	7.5	
04/09/02	pH	7.4	
04/30/02	pH	8.5	
05/07/02	pH	7.4	
06/05/02	pH	7.6	
07/08/02	pH	8.25	
07/16/02	pH	8.4	
08/06/02	pH	7.95	
09/05/02	pH	8.05	
10/08/02	pH	7.6	
10/09/02	pH	8.2	
11/12/02	pH	7.85	
12/09/02	pH	7.95	
01/07/03	pH	8.25	
01/15/03	pH	8.6	
02/06/03	pH	8.3	
03/11/03	pH	7.55	
04/08/03	pH	7.8	
04/16/03	pH	9.6	
05/05/03	pH	7.4	
06/06/03	pH	7.5	
07/14/03	pH	7.6	
07/15/03	pH	9.2	
08/15/03	pH	8	
09/09/03	pH	7.65	
10/09/03	pH	8.05	
10/21/03	pH	9.1	
11/12/03	pH	7.85	
12/15/03	pH	7.78	
01/08/02	Silver	<0.04	0.3
04/30/02	Silver	<0.04	
07/16/02	Silver	<0.01	
10/09/02	Silver	<0.01	
01/15/03	Silver	<0.01	
04/16/03	Silver	<0.01	
07/15/03	Silver	<0.01	
10/21/03	Silver	<0.01	
01/08/02	Tot. Suspended Solids	32	300
04/30/02	Tot. Suspended Solids	28	
07/16/02	Tot. Suspended Solids	5	
10/09/02	Tot. Suspended Solids	98	
01/15/03	Tot. Suspended Solids	68	
04/16/03	Tot. Suspended Solids	23	
07/15/03	Tot. Suspended Solids	54	
10/21/03	Tot. Suspended Solids	26	
01/04/02	Total Cyanide	<0.001	1.2
01/08/02	Total Cyanide	0.0003	
02/12/02	Total Cyanide	<0.001	
03/05/02	Total Cyanide	<0.001	
04/09/02	Total Cyanide	<0.001	
04/30/02	Total Cyanide	0.0003	
05/07/02	Total Cyanide	<0.001	
06/05/02	Total Cyanide	<0.001	
07/08/02	Total Cyanide	<0.001	
07/16/02	Total Cyanide	0.0022	

Wayne Metal Protection Company

Sample Date	Parameter	Result	Limit
08/06/02	Total Cyanide	0.002	
09/05/02	Total Cyanide	0.002	
10/08/02	Total Cyanide	0.002	
10/09/02	Total Cyanide	0.002	
11/12/02	Total Cyanide	0.002	
12/09/02	Total Cyanide	0.002	
01/07/03	Total Cyanide	0.002	
01/15/03	Total Cyanide	0.00066	
02/06/03	Total Cyanide	0.3	
03/11/03	Total Cyanide	0.0007	
04/08/03	Total Cyanide	0.004	
04/16/03	Total Cyanide	0.004	
05/05/03	Total Cyanide	0.004	
06/06/03	Total Cyanide	0.004	
07/14/03	Total Cyanide	0.001	
07/15/03	Total Cyanide	0.0009	
08/15/03	Total Cyanide	0.001	
09/09/03	Total Cyanide	0.001	
10/09/03	Total Cyanide	0.001	
10/21/03	Total Cyanide	<0.0002	
11/12/03	Total Cyanide	<0.0002	
12/15/03	Total Cyanide	<0.0002	
01/04/02	Total Metal (40CFR413)	1.06	9.87
01/08/02	Total Metal (40CFR413)	0.85	
02/12/02	Total Metal (40CFR413)	1.47	
03/05/02	Total Metal (40CFR413)	1.54	
04/09/02	Total Metal (40CFR413)	1.32	
04/30/02	Total Metal (40CFR413)	0.84	
05/07/02	Total Metal (40CFR413)	0.96	
06/05/02	Total Metal (40CFR413)	1.38	
07/08/02	Total Metal (40CFR413)	1.03	
07/16/02	Total Metal (40CFR413)	3.86	
08/06/02	Total Metal (40CFR413)	1.59	
09/05/02	Total Metal (40CFR413)	1.81	
10/08/02	Total Metal (40CFR413)	2.45	
10/09/02	Total Metal (40CFR413)	1.5	
11/12/02	Total Metal (40CFR413)	1.7	
01/07/03	Total Metal (40CFR413)	2.63	
01/15/03	Total Metal (40CFR413)	9.07	
02/06/03	Total Metal (40CFR413)	2.16	
03/11/03	Total Metal (40CFR413)	1.53	
04/08/03	Total Metal (40CFR413)	1.65	
04/16/03	Total Metal (40CFR413)	0.64	
05/05/03	Total Metal (40CFR413)	1.7	
06/06/03	Total Metal (40CFR413)	1.98	
07/14/03	Total Metal (40CFR413)	1.54	
07/15/03	Total Metal (40CFR413)	5.53	
08/15/03	Total Metal (40CFR413)	4.11	
10/09/03	Total Metal (40CFR413)	1.86	
10/21/03	Total Metal (40CFR413)	0.74	
12/15/03	Total Metal (40CFR413)	2.24	
01/08/02	Total Phosphorus	0.3	10
04/30/02	Total Phosphorus	0.6	
07/16/02	Total Phosphorus	0.566	
10/09/02	Total Phosphorus	0.907	

Wayne Metal Protection Company

Sample Date	Parameter	Result	Limit
01/15/03	Total Phosphorus	0.742	
04/16/03	Total Phosphorus	0.294	
07/15/03	Total Phosphorus	1	
10/21/03	Total Phosphorus	0.416	
01/04/02	Zinc	0.79	3.95
01/08/02	Zinc	0.7	
03/05/02	Zinc	1.23	
04/09/02	Zinc	1.12	
04/30/02	Zinc	0.67	
05/07/02	Zinc	0.8	
06/05/02	Zinc	1.08	
07/08/02	Zinc	0.8	
07/16/02	Zinc	3.32	
08/06/02	Zinc	0.77	
09/05/02	Zinc	1.32	
10/08/02	Zinc	2	
10/09/02	Zinc	1.29	
11/12/02	Zinc	1.4	
12/09/02	Zinc	1.66	
01/07/03	Zinc	1.92	
01/15/03	Zinc	7.22	
02/06/03	Zinc	1.51	
03/04/03	Zinc	0.62	
03/11/03	Zinc	1.22	
04/08/03	Zinc	1.36	
04/16/03	Zinc	0.55	
05/05/03	Zinc	1.18	
06/06/03	Zinc	1.68	
07/14/03	Zinc	1.08	
07/15/03	Zinc	4.36	
08/15/03	Zinc	2.7	
08/26/03	Zinc	1.37	
09/09/03	Zinc	1.69	
10/09/03	Zinc	1.41	
10/21/03	Zinc	0.54	
11/12/03	Zinc	1.02	
12/15/03	Zinc	1.69	

Site Consumption

ny: WAYNE METAL CO
ıı Name: Wayne Metal

IWS Number: 2000
Site Number: 1

Begin	End	Water	Sewer
2/04/2001	01/04/2002	531	531
1/04/2002	01/30/2002	636	636
1/30/2002	03/04/2002	748	748
3/04/2002	04/02/2002	791	791
4/02/2002	05/02/2002	820	820
5/02/2002	06/05/2002	972	972
6/05/2002	07/02/2002	784	784
7/02/2002	08/05/2002	789	789
8/05/2002	08/30/2002	644	644
8/30/2002	10/02/2002	773	773
0/02/2002	11/01/2002	708	708
1/01/2002	12/02/2002	695	695
2/02/2002	01/03/2003	754	695
1/03/2003	01/29/2003	624	683
1/29/2003	03/04/2003	762	762
3/04/2003	04/04/2003	649	649
4/04/2003	05/05/2003	816	816
5/05/2003	06/05/2003	713	713
6/05/2003	07/01/2003	666	666
7/01/2003	08/01/2003	651	651
8/01/2003	09/01/2003	674	674
9/01/2003	10/01/2003	749	749
/2003	10/30/2003	945	945
0/30/2003	11/25/2003	734	734
1/25/2003	12/30/2003	700	700

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit No. **01201**

In accordance with all terms and conditions of the Code of Ordinances, Chapter 51, City of Fort Wayne, Indiana, and in accordance with any applicable provisions of Federal or State law and/or regulation, authorization to discharge wastewater to the Fort Wayne Water Pollution Control Plant is hereby granted, with the following permit conditions to:

Facility Address:	**Mailing Address:**
White Electronic Designs 8000 Bluffton Road Fort Wayne, IN 46809	Same Phone: (219) 747-3121

Permit Classification: **Significant Industrial User (SIU)**

Subject to 40 CFR 433.15 standards.

This permit shall become effective on **December 31, 2003.**

This permit and the authorization to discharge wastewater shall expire on **December 31, 2008.**

A violation of any provision in this permit is a violation of Chapter 51 of the City of Fort Wayne Municipal Ordinance and may subject the permittee to enforcement action by the City of Fort Wayne through Chapter 51 and/or the Water Pollution Control Plant's Enforcement Response Plan (ERP).

In order to renew authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as required by the Water Pollution Control Plant, Fort Wayne, Indiana, no later than sixty (60) days prior to the date of expiration.

Date Signed: _____ _____

Jim Cornell, Supervisor of Water Quality
Industrial Pretreatment Section
Water Pollution Control Plant

Sent via Certified mail to:

Name: Carl Shopoff

Permit 01201

I. LIMITATIONS and MONITORING REQUIREMENTS

A. **White Electronic Designs** will perform the sampling and analysis for all parameters listed below. The City reserves the right at any future date to require additional self-monitoring by the permittee if deemed necessary by the Director of Utilities.

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 and amendments thereto, the results of such monitoring must be reported in the monthly report submitted to the Industrial Pretreatment Section.

Discharge Limitations and Self-Monitoring

Regulated Parameter	Maximum for any one day mg/l	Maximum for Monthly Avg. mg/l	Self-Monitoring Frequency	Sample Type
Cadmium	0.22	0.08	2/year	composite
Chromium	0.89	0.55	2/month	composite
Copper	1.08	0.66	2/year	composite
Lead	0.22	0.14	2/year	composite
Nickel	1.27	0.76	2/month	composite
Silver	0.14	0.08	2/year	composite
Zinc	0.84	0.47	2/year	composite
Cyanide	0.38	0.21	2/year	grab
T.T.O.	0.68	N/A	2/year	
pH	6.0-12.0		2/month	grab

All other parameter limits not specifically listed above but contained the Sewer Use Ordinance, Chapter 51 and Rules and Regulations shall be in effect.

Note: Regulated parameters with a specified Monitoring Frequency of 2/year shall be sampled in May and November, and shall be reported on the May and November Discharge Monitoring Reports (DMR), which are due June 15th and December 15th respectively.

Regulated parameters with a specified Monitoring Frequency of 2/month shall be sampled on alternating workweeks, for example, the first and third, or second and fourth weeks.

B. "Composite sample" shall consist of grab samples of equal volume collected at equal time intervals (no more than 2 hours apart) over the daily discharge period (no more than 24 hours). Grab samples may be taken manually or with automatic sampling equipment, not to exceed a 15-minute period.

White Electronic Designs

Sample Date	Parameter	Result	Limit
02/12/02	Ammonia-Nitrogen	4	25
05/07/02	Ammonia-Nitrogen	10	
08/15/02	Ammonia-Nitrogen	4	
11/05/02	Ammonia-Nitrogen	10	
02/11/03	Ammonia-Nitrogen	2	
05/15/03	Ammonia-Nitrogen	3	
08/19/03	Ammonia-Nitrogen	6	
11/20/03	Ammonia-Nitrogen	2.3	
02/12/02	Biochemical Oxygen Demand 5 Day	18	300
05/07/02	Biochemical Oxygen Demand 5 Day	124	
08/15/02	Biochemical Oxygen Demand 5 Day	32	
11/05/02	Biochemical Oxygen Demand 5 Day	168	
02/11/03	Biochemical Oxygen Demand 5 Day	17	
05/15/03	Biochemical Oxygen Demand 5 Day	22	
08/19/03	Biochemical Oxygen Demand 5 Day	152	
11/20/03	Biochemical Oxygen Demand 5 Day	68	
02/12/02	Cadmium	<0.04	0.22
05/07/02	Cadmium	<0.04	
08/15/02	Cadmium	< 0.01	
11/05/02	Cadmium	<0.01	
02/11/03	Cadmium	<0.01	
05/15/03	Cadmium	<0.01	
08/19/03	Cadmium	<0.01	
11/20/03	Cadmium	<0.01	
02/12/02	Chemical Oxygen Demand	51	600
05/07/02	Chemical Oxygen Demand	273	
08/15/02	Chemical Oxygen Demand	67	
11/05/02	Chemical Oxygen Demand	736	
02/11/03	Chemical Oxygen Demand	61	
05/15/03	Chemical Oxygen Demand	108	
08/19/03	Chemical Oxygen Demand	299	
11/20/03	Chemical Oxygen Demand	118	
01/03/02	Chromium	<0.04	0.89
01/08/02	Chromium	0.05	
02/07/02	Chromium	<0.04	
02/12/02	Chromium	<0.04	
02/13/02	Chromium	<0.04	
03/08/02	Chromium	<0.04	
03/12/02	Chromium	0.05	
04/09/02	Chromium	<0.04	
04/16/02	Chromium	0.27	
05/07/02	Chromium	<0.04	
05/08/02	Chromium	<0.04	
05/14/02	Chromium	<0.04	
06/05/02	Chromium	0.06	
06/11/02	Chromium	<0.04	
07/02/02	Chromium	<0.04	
07/09/02	Chromium	<0.04	
08/06/02	Chromium	0.04	
08/12/02	Chromium	0.07	
08/15/02	Chromium	0.044	
09/04/02	Chromium	<0.04	
09/10/02	Chromium	<0.04	
10/02/02	Chromium	0.04	
10/08/02	Chromium	0.07	

White Electronic Designs

Sample Date	Parameter	Result	Limit
11/05/02	Chromium	0.02	
11/05/02	Chromium	0.07	
11/12/02	Chromium	0.67	
12/03/02	Chromium	<0.04	
12/10/02	Chromium	0.07	
01/07/03	Chromium	<0.04	
01/14/03	Chromium	0.07	
02/04/03	Chromium	<0.04	
02/11/03	Chromium	0.08	
02/14/03	Chromium	0.82	
03/04/03	Chromium	<0.04	
03/11/03	Chromium	<0.04	
04/01/03	Chromium	0.06	
04/08/03	Chromium	<0.04	
05/06/03	Chromium	<0.04	
05/13/03	Chromium	0.06	
05/15/03	Chromium	<0.01	
06/03/03	Chromium	0.1	
06/10/03	Chromium	<0.04	
07/07/03	Chromium	0.08	
07/15/03	Chromium	0.05	
08/04/03	Chromium	<0.04	
08/12/03	Chromium	0.05	
08/19/03	Chromium	<0.01	
09/03/03	Chromium	<0.04	
09/09/03	Chromium	0.04	
10/07/03	Chromium	<0.04	
10/14/03	Chromium	<0.04	
11/04/03	Chromium	0.06	
11/11/03	Chromium	<0.04	
11/20/03	Chromium	0.02	
12/02/03	Chromium	0.14	
12/09/03	Chromium	0.06	
02/12/02	Copper	0.14	1.08
05/07/02	Copper	0.06	
08/15/02	Copper	< 0.01	
11/05/02	Copper	0.13	
02/11/03	Copper	0.03	
05/15/03	Copper	0.01	
08/19/03	Copper	0.03	
11/20/03	Copper	0.03	
02/12/02	Lead	<0.04	0.22
05/07/02	Lead	<0.04	
08/15/02	Lead	< 0.01	
11/05/02	Lead	<0.02	
02/11/03	Lead	<0.02	
05/15/03	Lead	<0.03	
08/19/03	Lead	<0.01	
11/20/03	Lead	<0.03	
02/12/02	Mercury	<0.000016	0.01
02/11/03	Mercury	0.000018	
01/03/02	Nickel	<0.04	1.27
01/08/02	Nickel	<0.04	
02/07/02	Nickel	<0.04	
02/12/02	Nickel	0.04	

White Electronic Designs

Sample Date	Parameter	Result	Limit
02/13/02	Nickel	<0.04	
03/08/02	Nickel	<0.04	
03/12/02	Nickel	<0.04	
04/09/02	Nickel	<0.04	
04/16/02	Nickel	<0.04	
05/07/02	Nickel	<0.04	
05/08/02	Nickel	<0.04	
05/14/02	Nickel	<0.04	
06/05/02	Nickel	<0.04	
06/11/02	Nickel	<0.04	
07/02/02	Nickel	<0.04	
07/09/02	Nickel	<0.04	
08/06/02	Nickel	<0.04	
08/12/02	Nickel	0.04	
08/15/02	Nickel	< 0.01	
09/04/02	Nickel	<0.04	
09/10/02	Nickel	<0.04	
10/02/02	Nickel	<0.04	
10/08/02	Nickel	<0.04	
11/05/02	Nickel	0.02	
11/05/02	Nickel	<0.04	
11/12/02	Nickel	<0.04	
12/03/02	Nickel	<0.04	
12/10/02	Nickel	<0.04	
01/07/03	Nickel	<0.04	
01/14/03	Nickel	<0.04	
02/04/03	Nickel	<0.04	
02/11/03	Nickel	<0.01	
02/14/03	Nickel	<0.04	
03/04/03	Nickel	<0.04	
03/11/03	Nickel	<0.04	
04/01/03	Nickel	<0.04	
04/08/03	Nickel	<0.04	
05/06/03	Nickel	<0.04	
05/13/03	Nickel	<0.04	
05/15/03	Nickel	<0.01	
06/03/03	Nickel	<0.04	
06/10/03	Nickel	<0.04	
07/07/03	Nickel	<0.04	
07/15/03	Nickel	<0.04	
08/04/03	Nickel	<0.04	
08/12/03	Nickel	<0.04	
08/19/03	Nickel	0.01	
09/03/03	Nickel	<0.04	
09/09/03	Nickel	<0.04	
10/07/03	Nickel	<0.04	
10/14/03	Nickel	<0.04	
11/04/03	Nickel	<0.04	
11/11/03	Nickel	<0.04	
11/20/03	Nickel	<0.01	
12/02/03	Nickel	<0.04	
12/09/03	Nickel	<0.04	
01/03/02	pH	7.7	6.0-12.0
01/08/02	pH	8	
02/07/02	pH	7.8	

White Electronic Designs

Sample Date	Parameter	Result	Limit
02/12/02	pH	7.1	
02/13/02	pH	8.5	
03/08/02	pH	8.1	
03/12/02	pH	7.9	
04/09/02	pH	8.1	
04/16/02	pH	7.7	
05/07/02	pH	6.8	
05/08/02	pH	7.9	
05/14/02	pH	8.3	
06/05/02	pH	7.7	
06/11/02	pH	7.5	
07/02/02	pH	8.7	
07/09/02	pH	7.2	
08/06/02	pH	7.1	
08/12/02	pH	7.5	
08/15/02	pH	7.8	
09/04/02	pH	8.4	
09/10/02	pH	8.6	
10/02/02	pH	8.1	
10/08/02	pH	7.9	
11/05/02	pH	7.1	
11/05/02	pH	8.4	
11/12/02	pH	9.1	
12/03/02	pH	8.2	
12/10/02	pH	7.6	
01/07/03	pH	7.6	
01/14/03	pH	8	
02/04/03	pH	8	
02/11/03	pH	8.8	
02/14/03	pH	7.6	
03/04/03	pH	8.1	
03/11/03	pH	7.9	
04/01/03	pH	7	
04/08/03	pH	7.9	
05/06/03	pH	7.7	
05/13/03	pH	7.4	
05/15/03	pH	8.2	
06/03/03	pH	7.4	
06/10/03	pH	7.5	
07/07/03	pH	7.61	
07/15/03	pH	6.61	
08/04/03	pH	7.03	
08/12/03	pH	7.25	
08/19/03	pH	7.8	
09/03/03	pH	6.76	
09/09/03	pH	7.33	
10/07/03	pH	7.23	
10/14/03	pH	7.68	
11/04/03	pH	7.52	
11/11/03	pH	7.86	
11/20/03	pH	8.6	
12/02/03	pH	7.54	
12/09/03	pH	7.64	
02/12/02	Silver	<0.04	0.14
05/07/02	Silver	<0.04	

White Electronic Designs

Sample Date	Parameter	Result	Limit
08/15/02	Silver	< 0.01	
11/05/02	Silver	<0.01	
02/11/03	Silver	<0.01	
05/15/03	Silver	<0.01	
08/19/03	Silver	<0.01	
11/20/03	Silver	<0.01	
02/12/02	Tot. Suspended Solids	7	300
05/07/02	Tot. Suspended Solids	10	
08/15/02	Tot. Suspended Solids	11	
11/05/02	Tot. Suspended Solids	432	
02/11/03	Tot. Suspended Solids	31	
05/15/03	Tot. Suspended Solids	20	
08/19/03	Tot. Suspended Solids	210	
11/20/03	Tot. Suspended Solids	111	
02/12/02	Total Cyanide	0.0056	0.38
05/07/02	Total Cyanide	0.0048	
08/15/02	Total Cyanide	0.0029	
11/05/02	Total Cyanide	0.0029	
02/11/03	Total Cyanide	0.0031	
05/15/03	Total Cyanide	0.0061	
08/19/03	Total Cyanide	0.002	
11/20/03	Total Cyanide	0.0313	
02/12/02	Total Phosphorus	0.9	10
05/07/02	Total Phosphorus	3.4	
08/15/02	Total Phosphorus	1.2	
11/05/02	Total Phosphorus	8	
02/11/03	Total Phosphorus	1.1	
05/15/03	Total Phosphorus	2	
08/19/03	Total Phosphorus	2	
11/20/03	Total Phosphorus	0.946	
02/12/02	Zinc	0.43	0.84
05/07/02	Zinc	0.25	
08/15/02	Zinc	0.1	
11/05/02	Zinc	0.45	
02/11/03	Zinc	0.04	
05/15/03	Zinc	0.04	
08/19/03	Zinc	0.11	
11/20/03	Zinc	0.06	

Site Consumption

: ny: WHITE ELECTRONIC DESIGNS CORP IWS Number: 5350
ii. Name: WHITE ELEC. DESIGNS Site Number: 1

Begin	End	Water	Sewer
.2/10/2001	01/10/2002	168	168
)1/10/2002	02/07/2002	196	196
)2/07/2002	03/12/2002	201	201
)3/12/2002	04/09/2002	215	215
)4/09/2002	05/13/2002	316	316
)5/13/2002	06/12/2002	159	159
)6/12/2002	07/15/2002	158	158
)7/15/2002	08/13/2002	160	160
)8/13/2002	09/13/2002	221	221
)9/13/2002	10/11/2002	194	194
L0/11/2002	11/12/2002	228	228
L1/12/2002	12/10/2002	246	246
L2/10/2002	01/10/2003	275	275
)1/10/2003	02/04/2003	231	231
)2/04/2003	03/07/2003	264	264
)3/07/2003	04/07/2003	187	187
)4/07/2003	05/09/2003	203	203
)5/09/2003	06/09/2003	208	208
)6/09/2003	07/08/2003	148	148
)7/08/2003	08/08/2003	179	179
)8/08/2003	09/08/2003	150	150
)9/08/2003	10/07/2003	245	245
1)/2003	11/07/2003	217	217
11/07/2003	12/05/2003	117	117
12/05/2003	01/09/2004	168	168

4.0 MAXIMIZATION OF FLOW TO THE POTW FOR TREATMENT

4.1 OVERVIEW

The 4th of the nine minimum controls is "Maximization of Flow to the POTW for Treatment". The collection system aspects of flow maximization to the City's POTW, the WPCP, are addressed in Chapter 2. Consequently, this Chapter addresses only those aspects of WPCP operations which allow for increased sewage treatment. More specifically, this chapter presents discussions of the WPCP's capabilities, plans for WPCP improvements and strategies for operating the WPCP to both maximize the rate at which flow can be treated and best utilize the WPCP's non-peak unused capacity.

4.2 WPCP CAPABILITIES

In 1994 the City completed a sewer system master plan. The performance of the WPCP as well as that of its individual processes were analyzed as part of that undertaking. In 1995 a stress test was performed to determine the capacity of the secondary system. These two studies led to the conclusions that sections of the WPCP were due for major repair or replacement and that the secondary system had more capacity than the primary system. The above studies also led to preparation of a facility plan for the WPCP in 1998.

The capacities of the WPCP, based on these three studies, are summarized in a description prepared by Donohue & Associates. This can be found at Exhibit D-1.

4.3 PLANNED WPCP IMPROVEMENTS

The 1998 facilities plan identified a number of potential improvements to the WPCP. An excerpt from this study can be found at Exhibit D-2. These improvements were suggested to increase the reliability and performance of the WPCP and increase the wet weather capacity of the individual unit processes to match the capacity of the existing secondary system.

The actual construction of these improvements has been divided into 3 phases. The first phase focused on screening and pumping facilities. An excerpt from the Preliminary Engineering Report for this phase can be found in Exhibit D-3. The goal of second phase will be to address the primary system and transportation of the sewage from the primary system to the secondary system. An excerpt from the Preliminary Engineering Report for this phase can be found at Exhibit D-4. The final phase is intended to address the problem of discharging effluent during high river stage. The projects for this phase are also discussed in the Preliminary Engineering Report found at Exhibit D-4.

All of the new structures are being sized to increase the WPCP's overall wet weather capacity to that of the secondary system. However, some of the equipment required to increase the WPCP's capacity is not being installed until all the processes can handle the increased flow. This means that there will not be any substantial increase in the WPCP's wet weather treatment rate until the completion of the final phase.

The first phase was completed in early 2005. The second phase is expected to be completed in 2008. The final phase is scheduled to begin in 2014.

In addition to the above-described WPCP improvements, the City intends (as part of its LTCP) to implement improvements with respect to its CSO Ponds to provide for dewatering from the CSO Ponds to the WPCP during dry weather. The dewatering facilities are to be constructed in two phases. The first phase is scheduled to be completed during 2008 to allow immediate dewatering capabilities on a limited scale. Higher capacity dewatering improvements will be implemented later during the LTCP implementation period.

4.4 OPERATION OF THE WPCP

Currently, all WPCP components are used during wet weather operations. There are no unused tanks or process equipment. Once all phases of WPCP improvements are completed, a higher rate of treatment during wet weather will be possible. .

Chapter 2 identified several ways to store peak flows and release the stored flows as the WPCP has capacity. Therefore, the best way to increase flow through the WPCP is to utilize its non-peak unused capacity. This can be accomplished by treating all dry weather flow as it arrives at the WPCP, increasing treatment rates as flow rates to the WPCP increase, and run the WPCP at its maximum capacity until all stored flow is treated.

4.5 RECORDKEEPING

The projects listed in Exhibit D-2 should be considered part of the CSO LTCP not a minimum control because of their size and complexity. Progress on these projects will be included in LTCP progress reports.

WPCP records will be analyzed after each wet weather event to see that the WPCP works at capacity intended until all stored flows are treated.

DIRECTORY FOR APPENDIX D
(Items Presented in Order of Appearance in Appendix D)

Item	Description
Exhibit D-1	UNIT PROCESS DEPICTION OF WPCP CAPACITY
Exhibit D-2	FACILITIES PLANNING STUDY – MAY 1998
Exhibit D-3	PRELIMINARY ENGINEERING REPORT – JANUARY 2001
Exhibit D-4	PRELIMINARY ENGINEERING REPORT – JUNE 2003

EXHIBIT D-1

EXHIBIT D-1

DONOHUE & ASSOCIATES

City of Fort Wayne, Indiana
Unit Process Depiction of WPCP Capacity

The Water Pollution Control Plant (WPCP) of the City of Fort Wayne comprises the following three basic process units, characterized by the indicated hydraulic/treatment capacities (unless otherwise noted, capacities are based on all units/basins in service):

Preliminary Treatment	
Firm hydraulic capacity (less 1 pump)	60 mgd
Total hydraulic capacity (all pumps)	72 mgd
Grit removal performance deteriorates at	40 mgd [1]

Primary Treatment	
Maximum treatment capacity	60 mgd [2]

Secondary Treatment, Disinfection, and Polishing	
Maximum treatment capacity	60 mgd [3]

Comments:

[1] As reported by plant staff

[2] From preliminary treatment, flow is pumped to the primary clarifiers for primary treatment. At high flows (about 60 mgd), the weirs of the primary clarifiers are flooded and water enters the rotating scum pipes while they are in the "closed" position. Also, with flows of 70 mgd, the primary mechanism flights in the tanks are completely submerged. At these conditions, the primary clarifiers perform poorly. Operating records show that the removal efficiencies for TSS and BOD are 32% and 19%, respectively. The primary clarifiers should be able to achieve removal efficiencies for TSS and BOD up to 75% and 40%, respectively. The excess water that enters the scum pipes drain to the primary sludge wet well which is pumped to the digesters. The additional water from the scum pipes dilutes the sludge which reduces digestion performance and is energy intensive.

[3] After primary treatment, the wastewater enters the secondary treatment or activated sludge process. In 1996, a process stress test was performed to determine capacity of the secondary system. With all units in service, the secondary system could treat up to 85 mgd. However, to reach this capacity, design and construction of new preliminary treatment, primary treatment and some secondary facilities are needed to be able to transport 85 mgd through the secondary process. In October 2002, additional hydraulic testing was performed on the existing secondary system from the primary effluent channels through the secondary clarifiers. The testing showed the hydraulic capacity of the existing facilities is about 60 mgd. At this flow rate, the primary clarifier weirs will begin to flood. Finally, the plant is not able to discharge water from the plant at high river levels.

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EXHIBIT D-2

EXHIBIT D-2

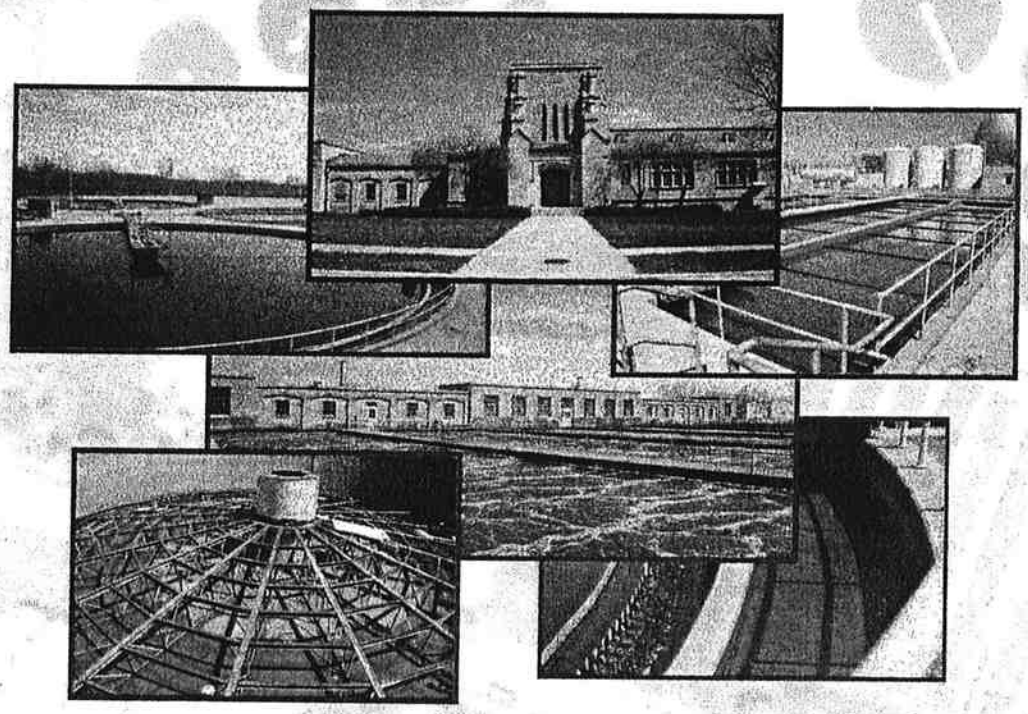
May 1998

City of Fort Wayne
Water Pollution Control Plant

Facilities Planning Study

Volume 1 of 2
REPORT

The City of Fort Wayne
City Utilities



DONOHUE & ASSOCIATES
in association with
Greeley and Hansen
Environmental Management Consulting
EMA, Services, Inc.

818 N. 8th Street
Sheboygan, WI 53081
920-208-0296
Fax: 920-208-0402

A breakdown of the initial costs is presented in the following table. The estimates include the total cost of construction with contingencies and engineering. The initial cost has been indexed to an Engineering News Record (ENR) Construction Cost Index of 5900. (Note: The ENR Construction Cost Index stood at 5882.73 in April 1998.)

Initial Cost Estimate of Recommended Plan

Description	Plan A Pond 3 Used For Effluent Polishing ($ million)	Plan B Pond 3 Used For CSO Storage ($ million)
Preliminary Treatment Facilities		
Headworks and Screening	6.01	6.01
Raw Wastewater Pumping	5.96	5.96
Grit Removal	2.78	2.78
Septage Receiving	0.79	0.79
Subtotal	15.54	15.54
Primary Treatment Facilities		
Circular Primary Clarifiers	17.37	17.37
Primary Sludge Pumps	0.86	0.86
Subtotal	18.23	18.23
Secondary Treatment Improvements		
Clarifier Feed Channel Hydraulics	1.12	1.12
Clarifier Mechanism Rehabilitation	2.92	2.92
Clarifier Feed Channel Scum	0.14	0.14
West RAS Pumps (Clarifiers No. 1 - 6)	1.09	1.09
East RAS Pumps (Clarifiers No. 6 - 9)	0.44	0.44
Subtotal	5.71	5.71
Filtration	0	24.60
Disinfection: Hypochlorite and Bisulfite	1.65	0
Disinfection: Ultraviolet Light	0	5.32
Effluent Pump Station	1.92	1.92
WAS Handling Improvements	0.41	0.41
Anaerobic Digestion Improvements	3.39	3.39
Non-Process Facilities	5.57	5.57
Site Power Distribution	1.79	1.79
Flood Control	0.99	0.99
Plantwide I&C (EMA – April 1998)	1.92	1.92
TOTAL	**57.12**	**85.39**

ENR Construction Cost Index = 5900

TABLE 1 Plan A - Pond 3 Used For Effluent Polishing Construction Packaging and Annual Expenditure Plan

Package Description	Total ($ million)	1998 ($ million)	1999 ($ million)	2000 ($ million)	2001 ($ million)	2002 ($ million)	2003 ($ million)	2004 ($ million)	2005 ($ million)
Package 1									
Secondary Treatment: Feed Channel, East RAS, East Mech Rehab	3.00		3.00						
WAS Handling Improvements	0.41		0.41						
Disinfection: Bisulfite Facilities	0.45		0.45						
Package 2									
Preliminary Treatment Facilities	15.54		1.01	7.26	7.26				
Primary Treatment: 6 Clarifiers	13.74		1.19	6.28	6.28				
Site Power Distribution	1.79		0.12	1.68					
Flood Control	0.99		0.06	0.92					
Package 3									
Non-Process Facilities	5.57				0.36	3.90	1.30		
Package 4									
Anaerobic Digestion Improvements	3.39				0.22	3.17			
Package 5									
Hypochlorite	1.20					0.08	1.12		
Effluent Pump Station	1.92					0.13	1.79		
Package 6									
Secondary Treatment: West RAS, West Mech Rehab	2.72							2.72	
Package 7									
Primary Treatment: 2 Clarifiers	4.49								4.49
Plantwide I&C (EMA April, 1998)	1.92	0.50	0.63	0.46	0.18	0.16			
Total	**57.12**	**0.50**	**6.87**	**16.60**	**14.30**	**7.44**	**4.22**	**2.72**	**4.49**

Costs Indexed to Engineering News Record (ENR) Construction Cost Index = 5900

EXHIBIT D-3

EXHIBIT D-3

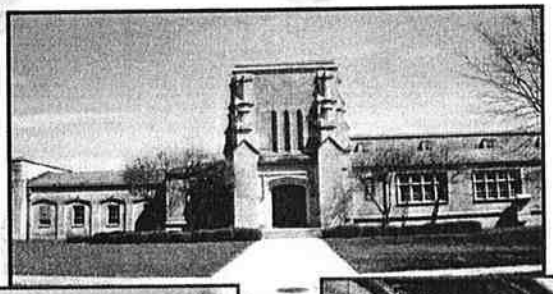
January 2001

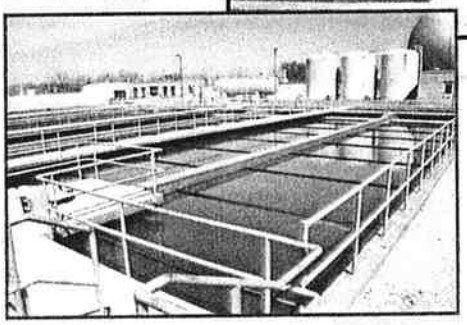
City of Fort Wayne
Water Pollution Control Plant

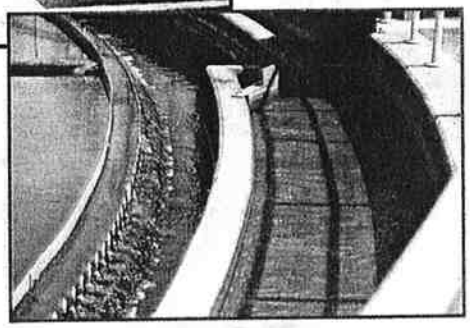
Preliminary Engineering Report

Phase II Package No. 1
PRELIMINARY AND SECONDARY TREATMENT IMPROVEMENTS

The City of Fort Wayne
City Utilities







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Project No. 10206

DONOHUE & ASSOCIATES

PREFACE
PROJECT SUMMARY

Introduction

This Preliminary Engineering Report (PER) is being prepared for review and approval by the Indiana Department of Environmental Management (IDEM) as part of the City of Fort Wayne's year 2000 request for State Revolving Loan Funds (SRF). This PER is intended to summarize portions of the work included in the previously completed "Facilities Planning Study" prepared for the City of Fort Wayne Water Pollution Control Plant, dated May 1998. That study addressed the Water Pollution Control Plant modifications needed for improved operations, additional capacity of certain process units, and included facilities needed for conformance with the Long Term Control Plan (LTCP) being prepared by the City. This PER is also intended to address additional issues, which were not discussed in the earlier study but are required for SRF participation in the construction of the facilities.

Project Purpose and Overview

This project is the first package of seven to expand and upgrade the plant to 85 mgd. Package No.1 is the construction of the preliminary treatment facilities for equipment that will handle 60 mgd presently and a structure that will provide space for future equipment to handle a peak flow of 85 mgd. The purpose of the proposed project is to rehabilitate or replace deteriorated facilities, meet the state and federal CSO Policy minimum control and long-term control plan requirements to maximize flow of wastewater at the wastewater treatment plant, and to meet future wastewater needs in the future area through the planning period to the year 2015. In addition to preliminary treatment improvements, this package includes rehabilitation of east secondary clarifiers and return sludge pumping facilities, septage receiving, upgrades to the electrical system, and flood control improvements.

The existing treatment plant was designed for a flow of 60 mgd. A stress test was conducted in 1995 that indicated that the secondary treatment facilities are capable of treating 85 mgd. This project is to design and construct preliminary treatment facilities (grit removal, screening, and influent pumping) and associated improvements so that 60 mgd of wastewater can reliably be delivered into the plant. In addition the preliminary treatment facilities will be structurally sized so that additional equipment can be installed in the future that will increase the peak flow to 85 MGD to match the capacity of the secondary facilities. Therefore this project will not increase the capacity of the existing plant at this time.

The overall plan to expand the treatment plant capacity to handle a peak flow of 85 mgd will be designed and constructed over a 13-year period. The plan includes design and construction of the facilities as described in 7 packages as shown below. **This project and PER is only for Package No. 1.**

Package 1 Preliminary and Secondary Treatment Improvements PhaseI

- Raw Wastewater Screening Facilities
- Raw Wastewater Pumping Facilities
- Grit Removal Facilities
- Septage Receiving Facilities
- Site Power Distribution (preliminary and primary only)
- Flood Control
- Secondary Treatment Improvements:
- Clarifier Effluent Flow Metering
- Stamford Baffles (1 clarifier only for testing)
- Clarifier Feed Channel Capacity Improvements

WAS Handling Improvements
East Clarifier Mechanism Rehabilitation
East RAS Pumps (Clarifiers No. 6 - 9)

Package 1 is scheduled for design, bid and award followed by a 2-year construction period. This is a large package that includes new wastewater screens, pumps and grit removal equipment (preliminary treatment facilities). New preliminary treatment facilities are desperately needed to remove debris from the wastewater. Since this project includes construction on the prior disturbed vacant land west of the existing main plant, this package includes the new flood control levee and the new site power distribution system. Package 1 includes improvements to increase the hydraulic capacity for all of the secondary clarifiers. This package includes rehabilitation of the mechanisms for the east clarifiers, the oldest of the secondary clarifiers, and replacement of the east clarifier RAS pump drives.

Future Design and Construction Packages are as follows:

Package 2 Digestion Improvements Phase I
Cover Replacement for Digesters 5 and 6
Installation of Mixers for Digesters 5 and 6

This package provides replacement of the digester covers for tanks 5 & 6. The mixers were purchased as a part of a previous contract but could not be installed on the existing old covers due to structural deterioration.

Package 3 Primary Treatment Improvements Phase I
4 of 8 Primary Clarifiers
6 of 12 Primary Sludge Pumps

Package 4 replaces the existing primary clarifiers with 4 new primary clarifies that will handle up to 60 mgd.

Package 4 Disinfection and Effluent Pump Station
Sodium Hypochlorite and Bisulfite Facilities
Effluent Pump Station

Replacement of the existing gaseous chlorine system, including shipment by railcar and storage in 55-ton tanks, will be accomplished in Package 4 by the addition of new sodium hypochlorite storage and feed facilities. Sodium bisulfite facilities will be added at pond No.3 for dechlorination of the effluent. The new effluent pump station for pumping secondary effluent is also included in this package.

Package 5 Non-Process Facilities
Non-Process Facilities

Construction of the non-process facilities in Package 5 includes new administration and personnel areas in the Main Control Building and a new vehicle storage garage. Construction of this package is scheduled to begin as soon as startup and operation of the new primary treatment facilities provided in Package allow the existing preliminary treatment facilities located in the basement of the Main Control Building to be abandoned or demolished.

Package 6 Preliminary, Primary, Secondary and Digestion Improvements Phase II

4th of 4 Raw Wastewater Screens
6th of 6 Raw Wastewater Pumps
5th and 6th of 8 Primary Clarifiers
4 of 6 Remaining Primary Sludge Pumps
Secondary Treatment Improvements:
West Clarifier Mechanism Rehabilitation
West RAS Pumps (Clarifiers No. 1 - 5)
Stamford Baffles (8 remaining clarifiers)
Clarifier Scum Channel Improvements
4th of 4 Effluent Pumps
Heat Exchangers for Digesters 5 and 6

Package 6 provides preliminary, primary treatment and effluent pumping for the plant to handle a peak flow of 85 mgd. The heat exchanges for digester 5 and 6 are added to allow the digesters to operate as high rate primary tanks.
This package includes rehabilitation of the mechanisms for the west secondary clarifiers. Replacement of the existing airlift RAS pumps for the west secondary clarifiers with new submersible RAS pumps. Stamford baffles would be installed in the remaining 8 clarifiers to handle the higher flow and the secondary clarifier scum channels would be automated for unmanned operation.

Package 7

Primary Treatment: 2 Clarifiers
Primary Sludge Pumps: 2 Remaining

The 2 remaining primary clarifiers, with associated sludge pumping equipment, are included in Package 7. These clarifiers do not need to be constructed until wastewater BOD_5 and suspended solids increase to the point that the activated sludge process cannot consistently nitrify the waste.

Plantwide I&C

The plantwide instrumentation and control work will be performed concurrent with other construction packages.

Construction Cost Estimate

The initial cost for the recommended plan for Package No. 1 is $ 22.63 million

A breakdown of the construction costs is presented in the following table. The estimates include the total cost of construction with contingencies. The construction cost has been indexed to an Engineering News Record (ENR) Construction Cost Index of 6266. (Note: The ENR Construction Cost Index stood at 6265.63 in November 2000.)

Construction Cost Estimate of Recommended Plan

Description	Package 1 ($ million)
Preliminary Treatment Facilities	
Headworks and Screening	5.03
Raw Wastewater Pumping	5.16
Grit Removal	2.57
Septage Receiving	0.73
84" Sewage Conduit	0.74
Piping Tunnel	1.47
Subtotal	15.70
Secondary Treatment Improvements	
Clarifier Feed Channel Hydraulics	0.02
East Clarifiers Mechanism Rehabilitation	1.20
Clarifier Effluent Metering	0.07
Stamford Baffles (1 Clarifier)	0.10
East RAS Pumps (Clarifiers No. 6 - 9)	0.41
WAS Handling Improvements	0.38
Subtotal	2.18
Site Power Distribution	1.31
Flood Control	0.91
Site Work & Yard Piping	0.05
Plantwide I&C	0.43
Subtotal	20.58
Contingency 10%	2.05
TOTAL	22.63

ENR Construction Cost Index = 6266

SELECTED PLAN COST SUMMARY

Item	Total Cost
Non-Construction Costs	
Administrative and Legal	$ 200,000
Land & Rights-of-way Acquisition	$ -
Relocation	$ -
Engineering Fees	
Design	$ 1,200,000
Construction	$ 250,000
Other	$ 500,000
Project Inspection	$ 1,500,000
Costs Related to Plant Start-up	$ 520,000
Non-Construction Subtotal	$ 4,170,000
Construction and Equipment Subtotal	$ 20,580,000
Contingencies	$ 2,050,000
TOTAL PROJECT COST	**$ 26,800,000**

EXHIBIT D-4

EXHIBIT N-4

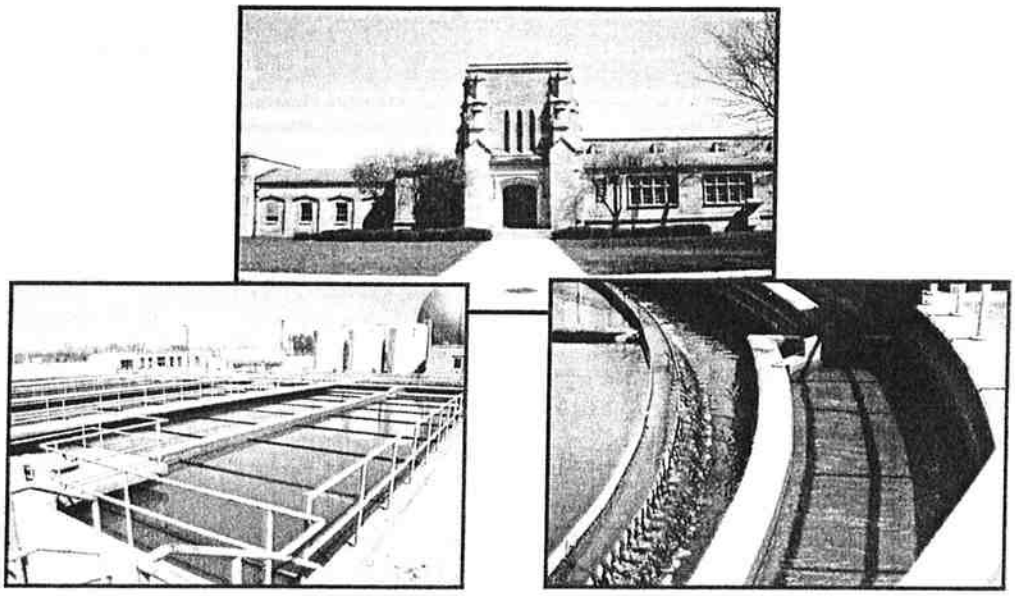
June 2003

City of Fort Wayne
Water Pollution Control Plant

Preliminary Engineering Report

Primary Clarifiers and Other Plant Upgrades

The City of Fort Wayne
City Utilities



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Project No. 10528

DONOHUE & ASSOCIATES

PREFACE
PROJECT SUMMARY

Introduction

This Preliminary Engineering Report (PER) is being prepared for review and approval by the Indiana Department of Environmental Management (IDEM) as part of the City of Fort Wayne's year 2002 request for State Revolving Loan Funds (SRF). This PER is intended to summarize portions of the work included in the previously completed "Facilities Planning Study" prepared for the City of Fort Wayne Water Pollution Control Plant, dated May 1998. That study addressed the Water Pollution Control Plant modifications needed for improved operations, additional capacity of certain process units, and included facilities needed for conformance with the Long Term Control Plan (LTCP) prepared by the City and submitted to IDEM for approval. This PER is also intended to address additional issues, which were not discussed in the earlier study but are required for SRF participation in the construction of the facilities.

Project Purpose and Overview

The "Facilities Planning Study" outlined a build-out plan of seven packages to expand and upgrade the plant from 60 mgd to 85 mgd. WPCP Improvements Package No.1 Preliminary and Secondary Treatment Facilities is under construction. Package No. 1 includes improvements to the preliminary and secondary treatment facilities. The preliminary treatment facilities improvements will handle 60 mgd presently and provide space for future equipment to handle a peak flow of 85 mgd. Secondary improvements are being made to the east plant secondary clarifiers, east return activated sludge (RAS) pumps, and the RAS and WAS metering and piping system for the entire plant.

The City has decided to change the sequence of the build-out plan to meet replacement needs of the primary treatment process due to structural deterioration and poor performance. The next project is a combination of construction packages as discussed in the "Preliminary Engineering Report, Phase II Package No. 1 Preliminary and Secondary Treatment Improvements", June 2001. The project includes: new primary clarifiers, a third fine pore bar screen, new chemical phosphorus removal facilities, new disinfection (sodium hypochlorite and sodium bisulfite), new west plant RAS pumps, secondary clarifier scum channel improvements, Stamford Baffles for eight secondary clarifiers, basin drain pumping facilities, a new south primary effluent conduit, a new outfall and site improvements. The purpose of the proposed project is to rehabilitate or replace deteriorated facilities, to meet the state and federal CSO Policy minimum control and long-term control plan requirements for maximizing flow of wastewater at the wastewater treatment plant, and to meet future wastewater needs through the planning period to the year 2025.

The existing treatment plant was designed for a flow of 60 mgd. A stress test was conducted in 1995 that indicated that the secondary treatment facilities are capable of treating 85 mgd. This project is to design and construct primary treatment facilities and make other facility improvements so that 60 mgd of wastewater can reliably be treated at the plant. The primary treatment facilities will be designed to accommodate a future peak flow of 85 MGD to match the capacity of the secondary facilities. This project will not increase the capacity of the existing plant at this time.

The overall plan to expand the treatment plant capacity to handle a peak flow of 85 mgd will be designed and constructed as required by the long-term control plan. The facilities to be constructed in the future include the following:

Cover Replacement for Anaerobic Digesters 5 and 6
Installation of Mixers for Digesters 5 and 6
Heat Exchangers for Digesters 5 and 6
Effluent Pumping Station
Non-Process Facilities
Raw Wastewater Pumps 5 and 6
Septage Receiving Facilities

Plant wide instrumentation and control work will be designed and implemented concurrent with the construction of facilities.

Construction Cost Estimate

The initial cost for the recommended plan for the Primary Clarifier and Other Upgrades Project is $ 29.83 million. A breakdown of the construction costs is presented in the following table. The estimates include the total cost of construction with contingencies. The estimate is based on the April 1998 Facilities Plan Costs. The construction cost has been indexed to an Engineering News Record (ENR) Construction Cost Index of 6502 plus 6% for bidding in 2004. (Note: The ENR Construction Cost Index stood at 6502 in March 2002.)

These costs are different then the costs shown in Chapter 4 because these costs are installed costs with the common elements of the system included. The costs in Chapter 4 are for the non-common items and are for comparison purposes. Also the costs in Chapter 4 do not include indexing for the construction period unless it is noted.

To support the following construction cost estimate; supplemental breakdown information is provided at the end of this chapter. The construction cost estimates include the installed cost with the Indexing.

Construction Cost Estimate of Recommended Plan

Description	Primary Project Dollars
Preliminary Treatment Facilities	
Fine Screen	703,237
Primary Treatment Facilities	
New Primary Clarifier Facilities	17,564,990
Phosphorus Removal Facilities	522,619
Primary Effluent Conveyance Improvements	
New South 84"PE to Aeration Basins	1,671,245
New South 36" PE to West Plant Aeration Basins	833,023
Improvements to Existing 60"PE to Aeration Basins	275,795
Secondary Treatment Facilities	
West RAS Pumping Facilities	919,796
Secondary Clarifier Improvements	659,208
Disinfection Facilities	1,536,829
Other Site Improvements	
Remove Existing Screening, Grit, and Pumping Facilities	220,000
Demolish Existing Primary Clarifiers & Prep Site	1,260,000
Outfall Sewer	140,000
North Access Road Improvements	100,000
Basin Drain Facilities	311,453
Site Power Distribution	400.000
Subtotal	27,118,182
Contingency 10%	2,711,818
TOTAL	**29,830,014**

ENR Construction Cost Index = 6502 plus 6% for 2004 bidding

Selected Plan Cost Summary

The selected plan cost summary includes the Non-Construction Costs, Construction Cost and Contingency. The Administrative and Legal cost are estimated for the City to pay for legal council as a part of this project. The Design fee is for the design firm (Donohue) to design the selected plan Primary Clarifiers and Other Upgrades. Construction fee is for the design firm (Donohue) to provide services during construction such as shop drawing review, engineer site visits, response to contractor and Project Manager questions and record drawings. Other fees are for the Project Manager to provide Resident Engineering and Construction Contract Management Services. The Project Inspection fees are for the Project Manager to provide full time on-site inspection during construction. Other Related Costs to Plant Start-up fees are for the designer (Donohue) to provide programming of the automation, write the O & M manual, train the staff in the operation of the facilities, develop and deliver standard operating procedures, and assist with start-up and fine tuning of the facilities.

Item	Total Cost
Non-Construction Costs	
Administrative and Legal	$ 200,000
Land & Rights-of-way Acquisition	$ -
Relocation	$ -
Engineering Fees	
Design	$ 1,800,000
Construction	$ 600,000
Other	$ 500,000
Project Inspection	$ 1,500,000
Costs Related to Plant Start-up	$ 569,986
Non-Construction Subtotal	$ 5,169,986
Construction and Equipment Subtotal	$ 27,118,194
Contingencies	$ 2,711,820
TOTAL PROJECT COST	**$ 35,000,000**

5.0 ELIMINATION OF CSOs DURING DRY WEATHER

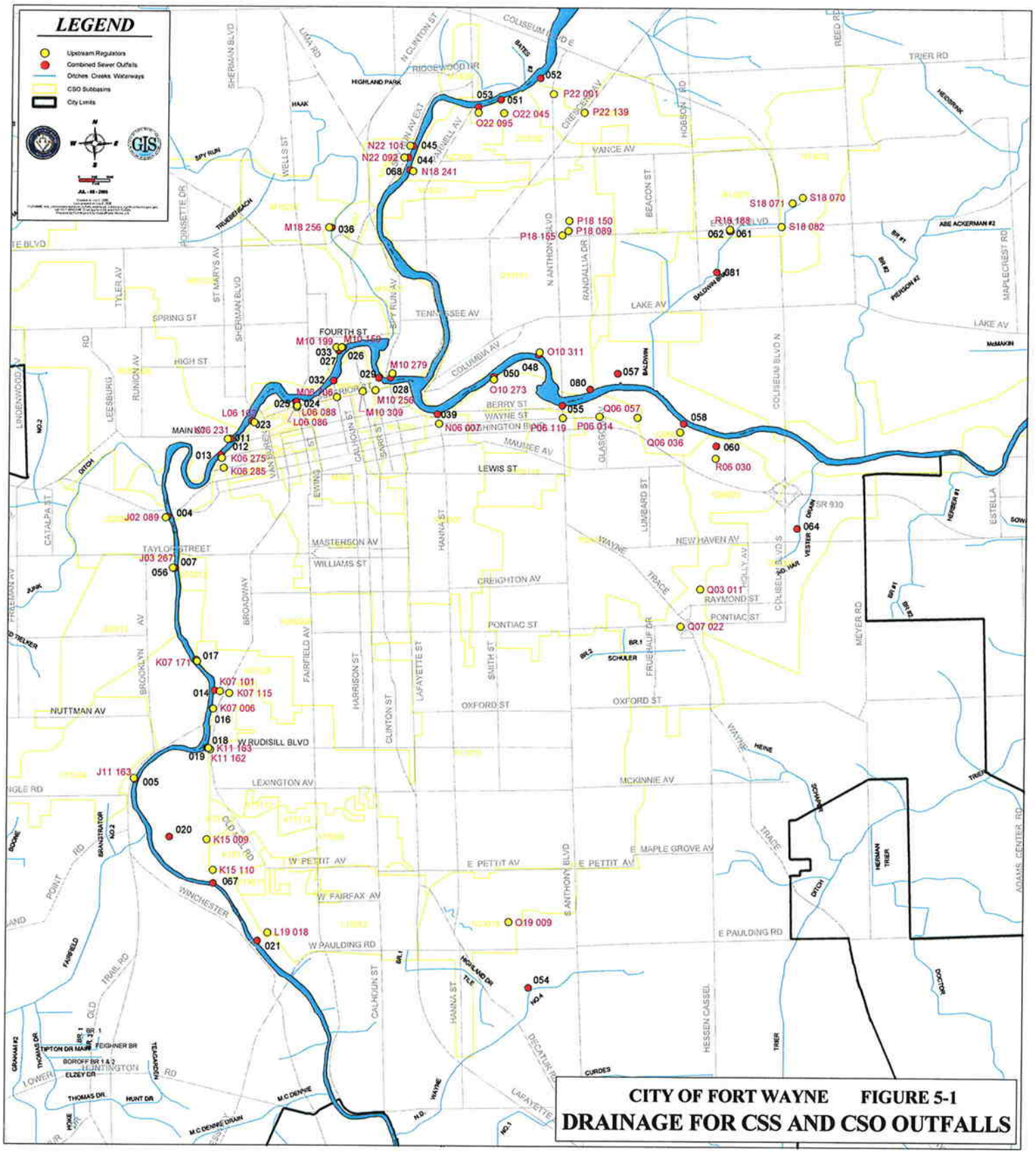
5.1 OVERVIEW

Overflows from the CSS add pollutants to receiving waters. The CWA's NPDES program prohibits dry weather overflows. The fifth of the nine minimum controls described in EPA's NMC Guidance addresses measures taken towards the elimination of CSOs during dry weather. By eliminating dry weather overflows from the CSS, the pollutant loadings in the receiving waters can be reduced. The City's WPCP and combined sewer interceptor sewer system (including its diversion structures and/or regulators) were designed to handle dry weather flows without overflows. Therefore, most dry weather combined sewer overflows (DWOs) can be prevented through proper monitoring, operation, and maintenance of the CSS.

Overflow control is accomplished through a cycle of activities affecting the CSS. The activities include: operation, inspection, maintenance, and modification. In this Chapter the appropriate operating, inspection, and maintenance procedures presented in Chapter 1 will be referenced and the process for analyzing past DWOs will be discussed. All DWOs, if any, will be analyzed at least annually and recommendations for improvements will be developed. All appropriate actions will be taken to eliminate a re-occurrence of a DWO.

5.2 OPERATING, INSPECTING, AND MAINTAINING

DWOs originate in sewers of the CSS. Because, in the City's experience, DWOs most frequently occur in connection with regulators, the City's efforts to continue to eliminate DWOs focus on its diversion structures and associated regulators. Table 5-1 lists overflow discharge point permit numbers, the corresponding City structure ID #'s, and upstream regulator City structure ID #'s. Figure 5-1 shows the locations of the overflow discharge points and upstream regulators. The City has a total of 51 regulators, of which 20 are mechanical (float operated). Only 9 of these are operational currently. The regulator gates of the others have been chained open to maximize flow to the WPCP. The remaining regulators are diversion type regulators (where surcharging is diverted into another pipe). One of these regulators is controlled by a pump station where the quantity of flow sent to the WPCP for treatment is determined by the capacity of the pumps. Flows in excess of the pump capacity become overflows. Additional summary information on diversion structures and regulators can be found in Table 4-1 of Exhibit A-1.



CITY OF FORT WAYNE FIGURE 5-1

DRAINAGE FOR CSS AND CSO OUTFALLS

TABLE 5-1
July 2006

Discharge Point Permit #	Discharge Point City ID #	Upstream Regulator City ID #
004	J02-090	J02-089
005	J11-164	J11-163
007	K03-092	J03-267
011	K06-233	K06-231
012	K06-234	K06-231
013	K06-298	K06-275
		K06-285
014	K07-106	K07-101
		K07-115
016	K07-109	K07-006
017	K07-176	K07-171
018	K11-165	K11-163
019	K11-178	K11-162
020	K15-116	K15-009
021	K19-044	L19-018
023	L06-103	L06-102
024	L06-420	L06-088
025	L06-421	L06-086
026	M10-151	M10-150
		M10-199
027	M10-202	M10-199
028	M10-238	M10-279
029	M10-265	M10-256
		M10-309
032	M10-306	M06-007
033	M10-313	M10-199
036	M18-032	M18-256
039	N06-022	N06-706
044	N22-093	N22-092
045	N22-103	N22-101
048	O10-252	O10-311
050	O10-277	O10-273
051	O22-002	O22-045
052	O22-004	P22-001
		P22-139
053	O22-094	O22-095
054	O23-080	O19-009

055	P06-192	P06-119
056	J03-313	J03-267
057	P10-121	P06-014
		Q06-057
058	Q06-034	Q06-036
060	R06-031	R06-030
061	R14-137	S18-082
062	R14-138	R18-188
064	S02-035	Q07-022
		Q03-011
067	K19-077	K15-110
068	N18-254	N18-241
*080***	P10-001	P18-150
		P18-089
		P18-155
*081***	R14-032	S18-070
		S18-071

* See Exhibit E-1 of this Chapter for locations of the discharge points
***assumed number, to be determined/verified upon proposed NPDES permit modification*

5.2.1 Operation

The operation of the regulators is discussed in Chapter 1. Details, including construction drawings (when available), operating procedures and operating parameters concerning each regulator are kept in the City's Planning & Design Services library in the City/County Building

5.2.2 Inspections

Two types of inspections occur with respect to regulators. The first type is operational inspections which monitor system activities and regulator performance. Such inspections currently occur daily during on weekdays and on weekends in connection with rain events. The second type of inspections is annual structural inspections. These inspections further assess the need for repairs and replacement work.

5.2.3 Maintenance

The type of maintenance required by each regulator varies by regulator type and location. Exhibits A-1 and A-2 of Chapter 1 contain detailed maintenance procedures and schedules for each regulator in the CSS.

5.3 ANALYSIS OF PAST DWOs

5.3.1 Purpose

The purpose of analyzing past DWOs is to identify any DWO cause that can be addressed by modifying facilities or procedures.

5.3.2 Process

The steps of the DWO analysis process are:

- Gather copies of all DWO reports that have been submitted to IDEM during the period of interest
- Describe the cause of each DWO and sort the reports by cause.
- Sort the reports by DWO by time of year.
- Sort reports by location.
- Review the appropriate regulator details to identify the system components and functions.
- Identify any component that malfunctioned.
- Make recommendations to eliminate, if feasible, the cause or source of each DWO.

This process has been utilized to analyze DWOs since January 1, 1997. The report on this process for the years 1997-2004 is at Exhibit E-2. Recommendations that resulted from the report are stated within Exhibit E-3.

5.4 RECORDKEEPING

Records concerning each calendar year's DWOs will be annually assembled as outlined above and added to Exhibit E-4. .

DIRECTORY FOR APPENDIX E
(Items Presented in Order of Appearance in Appendix E)

Item	Description
Exhibit E-1	DISCHARGE POINT LOCATIONS
Exhibit E-2	ANALYSES OF PAST DRY WEATHER OVERFLOWS
Exhibit E-3	RECOMMENDATIONS TO ELIMINATE OR REDUCE DWOs
Exhibit E-4	RECORDKEEPING

EXHIBIT E-1

EXHIBIT E-1

ATTACHMENT A

Precipitation Related Combined Sewer Overflow Discharge Authorization Requirements

I. Discharge Requirements

A. The permittee is authorized to discharge from the outfalls listed below, subject to the requirements and provisions of this permit, including Attachment A.

Overflow Point	Location	Receiving Water
004	J02-90, 210' South of bridge at W. Jefferson & St. Mary's River Latitude 41° 04' 16" Longitude 85° 09' 44"	Saint Mary's River
005	J11-164, 210' Southeast of Manito Blvd. & Indiana Village Blvd. Latitude 41° 02' 50" Longitude 85° 09' 59"	Saint Mary's River
007	K03-92, 250' Southeast of Electric Ave. & Brown St. Latitude 41° 03' 59" Longitude 85° 09' 41"	Saint Mary's River
011	K06-233, 230' Southeast of Main St. & Camp Allen Dr. Latitude 41° 04' 42" Longitude 85° 09' 17"	Saint Mary's River
012	K06-234, 230' Southeast of Main St. and Camp Allen Dr. Latitude 41° 04' 42" Longitude 85° 09' 17"	Saint Mary's River
013	K06-298, 80' North of Thieme Dr. & Berry St. Latitude 41° 04' 37" Longitude 85° 09' 22"	Saint Mary's River
014	K07-106, 60' West of Dinnen Ave. and Packard Ave. Latitude 41° 03' 19" Longitude 85° 09' 23"	Saint Mary's River
016	K07-109, 280' Southwest of Broadway & Kinsmoor Ave. Latitude 41° 03' 13" Longitude 85° 09' 25"	Saint Mary's River
017	K07-176, 130' Southwest of St. Mary's Pkwy &Waldron Circle Latitude 41° 03' 29" Longitude 85° 09' 32"	Saint Mary's River
018	K11-165, 150' West of Broadway & Rudisill Blvd. Latitude 41° 03' 00" Longitude 85° 09' 28"	Saint Mary's River
019	K11-178, 150' West of Broadway & Rudisill Blvd. Latitude 41° 03' 00" Longitude 85° 09' 28"	Saint Mary's River

EXHIBIT E-1

020	K15-116,1300' West of Hartman Rd. & Westover Rd. Latitude 41° 02' 33" Longitude 85° 09' 41"	Saint Mary's River
021	K19-044, 850' West of Old Mill Rd. & Fairfax Ave. Latitude 41° 01' 57" Longitude 85° 09' 05"	Saint Mary's River
023	L06-103, 90' Northwest of Jackson St. & Superior St. Latitude 41° 04' 47" Longitude 85° 09' 09"	Saint Mary's River
024	L06-420, 220' North of Superior St. & Fairfield Ave. Latitude 41° 04' 54" Longitude 85° 08' 48"	Saint Mary's River
025	L06-421, 220' North of Superior St. & Fairfield Ave. Latitude 41° 04' 54" Longitude 85° 08' 49"	Saint Mary's River
026	M10-151, 310' East of Third St. & Calhoun St. Latitude 41° 05' 12" Longitude 85° 08' 28"	Saint Mary's River
027	M10-202, 200' Southeast of Third St. & Calhoun St. Latitude 41° 05' 11" Longitude 85° 08' 30"	Saint Mary's River
028	M10-238, 150' East of Saint Mary's River Bridge & Spy Run Ave. Latitude 41° 05' 02" Longitude 85° 08' 07"	Saint Mary's River
029	M10-265, 230' East of Duck St. & Barr St. Latitude 41° 05' 02" Longitude 85° 08' 13"	Saint Mary's River
032	M10-306, 120' North of Clair St. & Harrison St. Latitude 41° 05' 01" Longitude 85° 08' 33"	Saint Mary's River
033	M10-313, 200' Southeast of Third St. & Calhoun St. Latitude 41° 05' 11" Longitude 85° 08' 30"	Saint Mary's River
036	M18-032, 520' North of State Blvd. & Westbrook Dr. Latitude 41° 05' 52" Longitude 85° 08' 34"	Spy Run Creek
039	N06-022, 120' North of Hanna St. & Berry St. Latitude 41° 04' 50" Longitude 85° 07' 48"	Maumee River
044	N22-93, 150' East of Dalgreen Ave & Spy Run Ave. Latitude 41° 06' 15" Longitude 85° 08' 00"	Saint Joseph River
045	N22-103, 100' East of Penn St. & Spy Run Ave. Latitude 41° 06' 19" Longitude 85° 07' 58"	Saint Joseph River
048	O10-252, 350' West of Edgewater & Garfield Latitude 41° 05' 08" Longitude 85° 07' 54"	Maumee River

EXHIBIT E-1

050	O10-277, 100' North of Coombs St. & Herbert St. Latitude 41° 05' 03" Longitude 85° 07' 21"	Maumee River
051	O22-002, 120' Northwest of St. Joseph Dr. & Woodrow Ave. Latitude 41° 06' 41" Longitude 85° 07' 03"	Saint Joseph River
052	O22-4, 370' West of N. Anthony Blvd. & St. Joseph River Dr. Latitude 41° 06' 43" Longitude 85° 06' 32"	Saint Joseph River
053	O22-094, 200' East of Parnell Ave bridge & the St. Joseph River Latitude 41° 06' 32" Longitude 85° 07' 29"	Saint Joseph River
054	O23-080, 240' East of Mercer Ave. & Hollis Ln. Latitude 41° 01' 41" Longitude 85° 07' 07"	Natural Drain #4
055	P06-192, 430' North of N. Anthony Blvd. & Wayne St. Latitude 41° 04' 52" Longitude 85° 06' 53"	Maumee River
056	J03-313, Brown Street Pump Station Latitude 41° 05' 06" Longitude 85° 06' 32"	Saint Mary's River
057	P10-121, Stormwater Liftstation Wet Well Latitude 41° 05' 02" Longitude 85° 06' 28"	Maumee River
058	O06-34, 390' Northwest of Edsall Ave. & Dwenger Ave. Latitude 41° 04' 46" Longitude 85° 05' 59"	Maumee River
060	R06-31, 670' Northeast of Greenwalt Ave. & Maumee Ave. Latitude 41° 04' 37" Longitude 85° 05' 39"	Unnamed Ditch to Maumee River
061	R14-137, 200' West of Lavern Ave. & State Blvd. Latitude 41° 05' 50" Longitude 85° 05' 40"	Baldwin Ditch
062	R14-138, 200' West of Lavern Ave. & State Blvd. Latitude 41° 05' 50" Longitude 85° 05' 40"	Baldwin Ditch
064	S02-35, 610' Southeast of Coliseum Blvd. S. & New Haven Ave. Latitude 41° 04' 16" Longitude 85° 05' 11"	Unnamed Ditch to Maumee River
067	K19-077, 310' Southeast of Hartman Rd. & Foster Park Dr. (Lat/Long data not available)	Saint Mary's River
068	N18-254, 54' North of Northside Dr. & Glazier Ave. on east bank (Lat/Long data not available)	St. Joseph River

EXHIBIT E-1

Overflow Point	Location	Receiving Water
080	P10-001, 250' northeast of Niagra & Pemberton Latitude $41^0$04'57" Longitude $85^0$06'44"	Maumee River
081	R14-032, 200' north and 710' west of Nevada and Laverne Latitude $41^0$05'37" Longitude $85^0$05'46"	Baldwin Ditch

EXHIBIT E-2

Report on Analysis of Past Dry Weather Overflows 1997 - 2004

Prior to 1940 when the sewage treatment plant was built, all of Fort Wayne's sewers carried sewage directly to the city's rivers. Most of the sewers built prior to this time were combined sewers. They carried both sewage and stormwater. When the treatment plant was built it was sized to treat a volume approximately equal to the sewage generated by the City at that time.

A system of interceptor sewers was built at the same time the sewage treatment plant was built. The purpose of the interceptors was to collect and transport sewage to the new treatment plant. The interceptors crossed or "intercepted" the existing sewers just before the existing sewers discharged into the City's rivers.

Structures called regulators were built at these crossings. The purpose of the regulators was to regulate the flow to the treatment plant. Each regulator was adjusted so that the maximum flow from all the regulators was equal to the flow the treatment plant could treat without damaging the treatment process. These maximum flows were high enough to direct all dry weather flows to the treatment plant for treatment. These structures allowed sewage flows to discharge to the rivers only during wet weather events when the peak flows exceeded the treatment plant's capacity.

Even today combined sewage flows will not go to the river during dry weather if the system is working as designed and built.

This infrastructure remains in place although adjustments have been made over time as the Water Pollution Control Plant's hydraulic capacity increased in the 1960's and 1970's. However, beginning in the 1960's, all new sewer construction was designed and installed as separate storm sewers and sanitary sewers.

The purpose of this study is to review past dry weather overflows (DWOs) from the CSS to categorize the causes of DWOs and identify ways to prevent or reduce the occurrences of DWOs. The study will list the location, date, cause, and actions taken to eliminate each DWO reported between 1/1/97 and 1/31/04.

1. Initial Analysis

   Copies of all DWO reports were acquired from Fort Wayne's Water Pollution Control Maintenance Department. A total of 45 DWOs were reported. The report format has evolved and the authors of the reports have changed over the years so the information available varies slightly from report to report. Copies of the report are in Appendix A.

   The DWO reports were sorted by location, cause, and time of the year. The total number of incidents in each category may vary slightly because of the different information contained on each report.

The causes of overflows were grouped into 5 general categories; obstructions within the regulator, obstructions in the sewer downstream of the regulator, electrical malfunction of the regulator, mechanical malfunction of the regulator, and human error. The cause group and overflow frequencies are shown in Table 1.

Table 1

Cause Group	Overflow Occurrences
Obstruction within regulator	19
Obstruction downstream of regulator	8
Regulator electrical malfunction	9
Regulator mechanical malfunction	3
Human error	1
Unknown	5

Overflows were also grouped by the time of year during which they occurred. Fifteen occurred during January, February, and March. Fifteen occurred during April, May, and June. Ten occurred during July, August, and September. And thirteen occurred during October, November, and December.

There are 50 regulators in Fort Wayne's combined sewer system. DWOs were reported at 16 identifiable sites during the study period. Multiple occurrences were reported at 8 identifiable sites and single occurrences were reported at 8 identifiable sites. The location and DWO frequency at the location are shown in Table 2.

Table 2

Regulator SIP #	Overflow Occurrences
J11-163	10
K15-009	6
P06-119	5
L19-018	4
O10-311	4
J03-267	3
O22-004 (Discharge Point)	2
M10-150	2
K11-162	1
M18-256	1
S18-082	1
K07-171	1
K06-231	1
O22-045	1
K06-285	1
O10-273	1
Unidentified	1

2. Assessment of DWO Causes

2.1. Obstructions Within The Regulator

All the obstructions within the regulators occurred in mechanical regulators with float operated regulator gates.

These obstructions appear to have been caused by debris that had become snagged on the regulator gate assemblies or at the transition from large diameter pipe to significantly smaller openings to the regulator chamber. Often the debris was not typical sewage solids. It contained bricks, lumber, fiberglass pieces, twine, wooden spools, rags, or large quantities of paper towels.

Mechanical regulators with float operated gates should be inspected frequently to determine if there is any reduction in base dry weather flow passing through the regulator. This could be a sign of debris build up. If reduced flow is seen, the regulator should be cleaned immediately.

2.2. Obstructions Downstream of The Regulator

The causes of obstructions downstream of regulators were not any different than the causes for obstructions in a typical gravity sewer. The results of obstructions downstream of regulators often are more serious than obstructions in a typical gravity sewer because an obstruction downstream of a regulator often results in an overflow to the river where an obstruction in a typical gravity sewer just results in surcharging.

The cleaning and repair of sewer segments just downstream of regulators should be given a higher priority than the cleaning and repair of typical gravity sewers.

2.3. Electrical Malfunctions

Electrical components in a sanitary sewage environment do not have a long life expectancy. They will require frequent testing and replacement.

The power feed from the local power company turned out to be the biggest factor at the 2 locations where electrical malfunctions were identified.

2.4. Mechanical Malfunctions

Like electrical components mechanical components are subject to attack in a sanitary sewage environment and require frequent maintenance and replacement.

Redundant mechanical systems are very difficult to provide. Therefore, an alternative to frequent maintenance and replacement may be conversion to a static regulator without moving parts.

2.5. Human Error

Although this has not been a major problem in the Fort Wayne system it should be taken into consideration when developing procedures for maintenance.

3. DWO Timing

There does not seem to be a clear pattern related to time of the year.

4. DWO Sites

4.1. J11-163

Ten DWOs have been reported at this site. They began in November 2001. The last DWO was reported in May of 2003. The DWO reports indicate that there have been blockages in the section of pipe that connects the diversion area with the regulator chamber, in the downstream siphon, in a downstream manhole, and in a section of downstream gravity sewer. All these components have been cleaned and put on a regular cleaning schedule.

In 2003 a grate was installed over the orifice to the regulator chamber. The purpose was to catch debris before it got into the downstream regulator gate and siphon. Since its installation the grate has become plugged with paper towels and shop rags. The City's industrial pretreatment group has been trying to find the source of this debris.

It is too early to determine if these actions are controlling the DWO problem at this site. Investigations are ongoing. If these actions do not satisfactorily control the overflows, a major reconstruction project may be necessary to reduce the number of DWOs that are occurring.

4.2. K15-009

Six DWOs have been reported at this site. This is one of two sites in Fort Wayne where the flow is regulated by a hydraulically operated gate connected to electronic float switches. From mid 1999 to mid 2000 this site was plagued by electrical problems that resulted in DWOs. These problems were traced to the power supplied by the local power company and seem to have been solved since there haven't been DWOs caused by electrical malfunctions since August 2000.

4.3. P06-119

Five DWOs have been reported at this site. This is a mechanical regulator with a float operated regulator gate. All 5 DWOs were caused by debris collecting on the regulator gate and blocking the narrow passage between the diversion chamber and the regulator gate chamber. The procedures discussed in section 2.1 above should be implemented here.

4.4. L19-018

Four DWOs were reported at this site. All were reported between May and November of 1997. All were caused by bad pipe downstream of the regulator. This pipe was replaced and no DWOs have been reported since.

4.5. O10-311

Four DWOs were reported at this site. A pump station that pumps dry weather flow to the treatment plant is located at this site. If the flow exceeds what this pump station can handle it is diverted to another set of pumps that pumps the overflow into the river. There have been 3 causes of overflows at this site:

- Faulty equipment was installed during a project designed to upgrade the site's reliability. This equipment has been replaced.
- A backup power source was run to the pump stations. There was a problem with the power supplied and the automatic switch would not work properly. The quality of electrical power has since been improved by the local power company.
- Debris such as bricks and timber is getting trough the screens and damaging the sanitary pumps. No solution has been found for this problem.

4.6. J03-267

Three DWOs have occurred at this site. Two of the overflows were a result of mechanical malfunctions. A float operated mechanical regulator at this site was completely rehabilitated in 1997. The regulator gate had been chained open prior to the rehabilitation. The third overflow was caused by a contractor who was testing pumps and accidentally pumped sewage in the wet well into the river.

The regulator gate is again chained open and the pump testing procedures have been modified.

4.7. O22-004

Two DWOs have been reported at this discharge point. The first overflow probably occurred at regulator O22-139. The cause and repair were not clearly identified in the report. The second overflow probably occurred at regulator O22-001. It appears that roots had obstructed the flow in the gravity pipe downstream of the regulator. The procedures discussed in section 2.2 above should be implemented here.

4.8. K11-162

Two DWOs have been reported at this regulator. Both were caused by debris blocking the dry weather flow though the regulator. In one case a 3' diameter wooden wire spool caused the blockage. The procedures discussed in section 2.1 above should be implemented here.

4.9. M10-150

Two DWOs, 5 years apart, have been reported at this regulator. Both were caused by debris blocking the dry weather flow though the regulator. The procedures discussed in section 2.1 above should be implemented here.

5. Summary

A little over 6 DWOs per year have been reported by Fort Wayne over the past 7 years. Where specific circumstances have been identified as the cause of DWOs the problems have been corrected. Where random conditions within the collection system have caused DWOs maintenance and inspection procedures have been modified to decrease the possibility of DWOs.

The process of preventing DWOs will have to continue as long as there are regulators in the collection system. Fort Wayne should do an analysis similar to this of any new DWOs at the end of each year.

Appendix A

05 0

Report Date: 1/27/04

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: **Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.**
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Jeffrey A. Morris	260/427-1255	1/23/04
Individual Making Report:	**Phone Number:**	**Overflow Date:**

M10-150	St Mary's River	Overflow **Not** Bypass
	River/Stream	**Wastewater Treatment Plant Flow**

1/23/04 at 11:15 am
Dry Weather discharge observed (date/ time)

1/23/04 at 4:40 pm
Dry Weather discharge abated (date/ time)

Reason for Dry Weather discharge:
A discharge was traced upstream from outfall #M10 151 to the dam chamber that is adjacent to regulator #M10 150. A 14"x14" gate was obstructed with bricks and a fiberglass type material causing normal flow to be diverted to the river. An estimated 1,056,000 gallons were discharged into the St. Mary's river.

Previous Dry Weather discharges from this location in the last 12 months:
Zero

Actions taken to mitigate, minimize, and prevent future overflows:
Additional investigations concerning this outfall will facilitate future identification of potential blockages.

Signature: Jeffrey A. Morris
Superintendent
W.P.C.M. Ft. Wayne, IN 46803
(260) 427-1255

CSO

Report Date: 1/27/04

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

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This report will satisfy the telephone and written letter requirements of your NPDES permit.

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Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Jeffrey A. Morris	260/427-1255	1/21/04 – 1/23/04
Individual Making Report:	**Phone Number:**	**Overflow Date:**

O10-277	Maumee River	Overflow Not Bypass
	River/Stream	**Wastewater Treatment Plant Flow**

1/21/04 at 12:44 pm
Dry Weather discharge observed (date/ time)

1/23/04 at 10:48 am
Dry Weather discharge abated (date/ time)

Reason for Dry Weather discharge:
A discharge was traced down from outfall #O10 277 downstream to regulator #O10 256. Debris was found causing a blockage just upstream of the regulator (3') in the incoming pipe. Once found the blockage was removed within 2 hours. An estimated 5,520 gallons entered the Maumee river.

Previous Dry Weather discharges from this location in the last 12 months:
zero

Actions taken to mitigate, minimize, and prevent future overflows:
Additional routine inspections concerning this outfall will facilitate identification of potential blockages should one occur again.

Signature: Jeffrey A. Morris
Superintendent
W.P.C.M. Ft. Wayne, IN 46803
(260) 427-1255

CSO

Report Date: 1/22/04

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: **Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.**
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If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Jeffrey A. Morris	260/427-1255	1/18/04
Individual Making Report:	**Phone Number:**	**Overflow Date:**

010 - 311	Maumee River	Overflow Not Bypass
	River/Stream	**Wastewater Treatment Plant Flow**

1/18/04 at 6:30 am
Dry Weather discharge observed (date/ time)

1/19/04 at 10:48 am
Dry Weather discharge abated (date/ time)

Reason for Dry Weather discharge:
The second pump at the Morton Street pumping station failed to engage due to a faulty breaker. Because the second pump failed to engage, the flows were diverted to a pump rated at 20,000 gpm. On 1/18/04 the pump causing the discharge only ran for one minute. On 1/19/04 the same pump ran again for one minute. The total duration of discharge lasted only two minutes for both days at an estimated 40,000 gallons.

Previous Dry Weather discharges from this location in the last 12 months:
zero

Actions taken to mitigate, minimize, and prevent future overflows:
The faulty breaker causing the second pump not to engage was replaced on 1/20/04.

Signature: Jeffrey A. Morris
Superintendent
W.P.C.M. Ft. Wayne, IN 46803
(260) 427-1255

CSO

Report Date: 8-25-03

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Brian W. Miller	260/427-1063	8-13-03
Individual Making Report:	Phone Number:	Overflow Date:

K15-116	St. Mary's	Overflow Not Bypass
CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow

8-13-03 8:47 a.m.
Dry Weather Overflow observed (date/ time)

8-21-03 1:00 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:

Mechanical Regulator had a debris build-up at the internal gate due to high river level and local flooding.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

Zero

Actions taken to mitigate, minimize, and prevent future overflows:

Notified WPC Plant of debris in regulator. WPC Plant took measures remove debris from gate and will continue to due regular inspections to mechanical regulators.

Signature:_____
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(260)427-1063

CSO

Report Date: 5-27-03

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Brian Miller	260/427-5591	
Individual Making Report:	Phone Number:	Overflow Date:

P06-192	Maumee	Overflow Not Bypass
CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow

5-21-03 1:30 p.m.
Dry Weather Overflow observed (date/ time)

5-22-03 9:00 a.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:

Mechanical regulator had a debris build-up at the internal gate.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

Zero

Actions taken to mitigate, minimize, and prevent future overflows:

Notified WPC Plant of debris in regulator. WPC Plant took corrective measures to remove debris and will continue to do routine inspections to mechanical regulators.

Signature:
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date: 05-20-03

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Brian Miller	260/427-5591	05-19-03
Individual Making Report:	**Phone Number:**	**Overflow Date:**

J11-164	St. Mary's	Overflow Not Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

05-19-03 9:23 a.m.
Dry Weather Overflow observed (date/ time)

05-19-03 1:46 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Due to extremely high river level, we were unable to gain access to the regulator structures for our routine weekly inspections. This caused a buildup of debris in the screen and line upstream from the regulator.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
Seven

Actions taken to mitigate, minimize, and prevent future overflows:
As soon as the river level dropped, we were able to due routine maintenance to stop the overflow

Signature:_____
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date: 4-17-03

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: **Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.**
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie Robinson	219/427-5591	4-16-03
Individual Making Report:	**Phone Number:**	**Overflow Date:**

J11-164	St. Mary's	Overflow Not Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

4-16-03 @ 08:16 a.m.
Dry Weather Overflow observed (date/ time)

4-16-03 @11:21 a.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
A large amount of rags were causing a stoppage in the sewer line. Industrial pre-treatment division is currently tracing down the rag source. Once identified we will stop the source from entering the collection system.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
six

Actions taken to mitigate, minimize, and prevent future overflows:
A crew removed stoppage and the WPC Plant is investigating for the source of the rags entering the system

Signature:_____
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date: 02-20-03

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: **Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.**
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie Robinson	219/427-5591	02-19-03
Individual Making Report:	**Phone Number:**	**Overflow Date:**

J11-164	St. Mary's	Overflow Not Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

02-19-03 @08:48 a.m.
Dry Weather Overflow observed (date/ time)

02-19-03 @ 2:00 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Before we were able to fully implement a cleaning schedule for this outfall, the screen that prevents debris from entering the regulator was covered with debris and had to be cleaned.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
six

Actions taken to mitigate, minimize, and prevent future overflows:
A cleaning schedule has now been fully implemented and we expect to see positive results in the very near future. We will be monitoring this overflow closely and intend to televise this at the earliest opportunity to see if more improvements are necessary.

Signature:_____
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date: 2-18-03

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: **Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.**
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie Robinson	**219/427-5591**	02-12- 03
Individual Making Report:	**Phone Number:**	**Overflow Date:**

K06-298	St. Marys	Overflow **Not** Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

02-12-03 @ 2:00 p.m.
Dry Weather Overflow observed (date/ time)

02-14-03 @ 1:35 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Regulator K06-285 had a significant amount of blockage in the main line that enters the regulator.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
zero

Actions taken to mitigate, minimize, and prevent future overflows:
Bypass pumping began on 02-14-03. This stopped the overflow until we were able to remove the blockage on 02-17-03. We will be installing a screening device and will have to add this to our scheduled maintenance program to prevent future overflows.

Signature:_____
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date: 1-20-03

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

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This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie Robinson	219/427-5591	1-17-03
Individual Making Report:	**Phone Number:**	**Overflow Date:**

J11-164	St. Mary's	Overflow Not Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

1-17-03 @ 8:29 a.m.
Dry Weather Overflow observed (date/ time)

1-17-03 @ 11:45 a.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
A grate that was recently installed over an 18" line that goes to the regulator, was covered with debris.

Previous Dry Weather Overflows from this CSO in the last 12 months:
five

Actions taken to mitigate, minimize, and prevent future overflows:
We have installed a grate that catches debris, thus stopping the debris form plugging the line inside the regulator. The difficult location has prevented us from making radical changes to the regulator. (*The regulator is on a steep river bank with limited access for construction equipment)* The grate we have installed has minimized the overflows ,but we feel that in order to eliminate the overflows , a crew will need to clean the grate in a timely manner. We are in the process of developing a routine maintenance schedule at this time.

Signature
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803

CSO

Report Date:11-12-02

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie Robinson	219/427-5591	11-12-02
Individual Making Report:	**Phone Number:**	**Overflow Date:**

O22-002	St. Joseph River	Overflow **Not** Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

11-12-02 @ 09:58 a.m.
Dry Weather Overflow observed (date/ time)

11-12-02 @ 10:33 a.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
A sewer line between the regulator (O22-045) and manhole (O22-091) was partially plugged allowing flow to divert to overflow

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
NONE

Actions taken to mitigate, minimize, and prevent future overflows:
Flushed sewer line allowing flow to return to its normal state. Will continue to monitor thru routine inspections and preventative scheduled maintenance

Signature:
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date: 10-17-02

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP | County: Allen | Permit Number: IN0032191

Johnnie Robinson	219/427-5591	10-16-02
Individual Making Report:	**Phone Number:**	**Overflow Date:**

J11-164	St. Mary's	Overflow Not Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

10-15-02 @8:00 p.m.
Dry Weather Overflow observed (date/ time)

10-16-02 @ 12:15 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Obstruction and / or breakage in 18" line going into regulator chamber

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
five

Actions taken to mitigate, minimize, and prevent future overflows:
By opening a small hole, we were able to stop overfow. However,it is necessary to dig up this line and repair it in the near future. It is in a very difficult location and will involve extensive planning and major construction

Signature: _____
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

From: **"John Robinson" <CU/JAROFA>**
To: **CU/JAMOFB**
Date sent: **Thu, 17 Oct 2002 08:10:03 -0500**
Subject: **Indian Village regulator overflow**
Copies to: **WPC/CACRFA, Michele Arnold <CU/MRARFA>**

Jeff,
On October 17,2002 we were opening the line at the Indian Village regulator. This has been an ongoing problem for quite some time. I believe it is time to approach engineering,and the WPC Plant to come up with a plan to repair the 18" line going into the regulator.This has overflowed five times in the last twelve months,and it isn't getting any better. Maybe with cooperation from the other departments we may be able to get it permenately fixed.This is going to require alot of thought and planning just to be able to get the equipment into position to make the repairs.

Thanks,
Johnnie

CSO

Report Date: 09-30-02

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

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If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie Robinson	219/427-5591	09-30-02
Individual Making Report:	**Phone Number:**	**Overflow Date:**

J03-313	St. Marys	Overflow **Not** Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

09-30-02 @ 11:30a.m.
Dry Weather Overflow observed (date/ time)

09-30-02 @ 11:31 a.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Contractor accidentally pumped to overflow while testing pump

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
one

Actions taken to mitigate, minimize, and prevent future overflows:
None taken (human error)

Signature:_ _____
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date: 9-5-02

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie Robinson	219/427-5591	8-29 thru 9-3
Individual Making Report:	**Phone Number:**	**Overflow Date:**

J03-313	St. Mary's	Overflow **Not** Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

8-29-02 @ 11:43 p.m.
Dry Weather Overflow observed (date/ time)

9-3-02 @ 3:00 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Flapgate inside mechanical regulator failed to function properly

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
0

Actions taken to mitigate, minimize, and prevent future overflows:
Repairs to flapgate, and new software for computer that alerts plant of

Signature:
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date: 6-17-02

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie Robinson	219/427-5591	06-14 thru 06-17-02
Individual Making Report:	**Phone Number:**	**Overflow Date:**

J11-164	St. Mary's	Overflow Not Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

06-14-02 @ 0800 a.m.
Dry Weather Overflow observed (date/ time)

06-17-02 @ 12:35 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
. There was a considerable amount of debris and silt in the two siphon structures, regulator chamber, and approximately 400' of 18" combination pipe. Also there is evidence of a possible cave-in on top of the line upstream of the regulator chamber

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
four

Actions taken to mitigate, minimize, and prevent future overflows: A road was built to gain access to the downstream siphon structure, and a combination unit was used to clean the structure and 700' of 18' pipe downstream. The first 400' of pipe was over half full of silt and required two days to clean. After cleaning these, an entry was made into the regulator chamber and it to was thoroughly cleaned. There was also a significant amount of dirt removed inside of the internal gate which is possibly coming from a cave-in.

Signature:_____
Sewer System Inspector
W.P.C.M FT.WAYNE, IN 46803
(260) 427-5591

CSO

Report Date: 06-11-02

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Johnnie Robinson	219/427-5591	06-11-02
Individual Making Report:	Phone Number:	Overflow Date:

J11-164	St. Marys	Overflow Not Bypass
CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow

06-11-02 @ 10:30 a.m.
Dry Weather Overflow observed (date/ time)

06-11-02 @ 12 :17 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Blockage in manhole downstream of siphon from the regulator.
This is scheduled to have a road built to accommodate a combination unit to properly service this problem. (Due to heavy rainfall this area has been under water until recently)

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
(three)

Actions taken to mitigate, minimize, and prevent future overflows
Removed debris from manhole and flushed the siphon lines.

Signature
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date: 5/21/02

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP **County:** Allen **Permit Number:** IN0032191

Jeffrey A. Morris	260/427-1255	5/14/2002
Individual Making Report:	**Phone Number:**	**Overflow Date:**

010 252	Maumee River	3.47 MG
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

5/14/02 at 6:50 am
Dry Weather Overflow observed (date/ time)

5/14/02 at 8:10 am
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Tripped circuit breaker on the #1 sanitary pump at the Morton Street Station. Pump #2 was awaiting parts from the last overflow. A private contractor installed the parts on 5/14/02 to correct the thermo overload on pump #2. The contractor is also investigating why pump #1 tripped the circuit.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
One

Actions taken to mitigate, minimize, and prevent future overflows:
The City has received the parts and installed them on pump #2. Pump #1 is being trouble-shooted to determine why it tripped.

Signature: Jeffrey A. Morris
Superintendent
W.P.C.M. Ft. Wayne, IN 46803
(260) 427-1255

From: ı" <WPC/CACRFA>
Organization: City of Fort Wayne
To: Jeff Morris <CU/JAMOFB>
Date sent: Fri, 17 May 2002 14:25:22 -0500
Subject: Dry Weather Overflow

I was just informed that a dry weather discharge occured at Morton Street pump station o 5-14-02. The start time was 6:50 a.m. and the end time was 8:10 a.m. The flow to the river in gallons is 106,495. The flow at the plant in MG in that time period was 3.47 MG. The reason for this overflow is a tripped circuit breaker on the #1 sanitary pump. Pump #2 was waiting on parts from the last overflow. The parts were installed today to correct the thermo overload on pump 2 by the contractor. The contractor is now investigating the tripped circuit today also.
Cheryl Cronin

CSO

Report Date: 5/7/02

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP	**County:** Allen	**Permit Number:** IN0032191
Jeffrey A. Morris	260/427-1255	5/4/2002
Individual Making Report:	**Phone Number:**	**Overflow Date:**
O10 252	Maumee River	5.624 MGD
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

5/4/02 at 4:20 pm
Dry Weather Overflow observed (date/ time)

5/4/02 at 6:20 pm
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Main power source failure at the Morton Street Pump Station. When the pump station transferred the power to the secondary supply it appeared to be unbalanced causing the breakers to trip. Because of this, a storm pump activated several times before the secondary power stabilized itself enough to operate the sanitary pumps.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
None

Actions taken to mitigate, minimize, and prevent future overflows:
The WWTP is working with the power company (AEP) in getting the secondary power supply balanced enough to engage properly.

Signature: Jeffrey A. Morris
Superintendent
W.P.C.M. Ft. Wayne, IN 46803
(260) 427-1255

CSO

Report Date: 3-11-02

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: **Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.**
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie Robinson	219/427-5591	3-11-02
Individual Making Report:	**Phone Number:**	**Overflow Date:**

J11-164	St. Mary's	Overflow **Not** Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

03-11-02 @ 0838 a.m.
Dry Weather Overflow observed (date/ time)

03-11-02 @ 1:00 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Debris blocking siphon line downstream of regulator.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
(Two)

Actions taken to mitigate, minimize, and prevent future overflows:
Removed debris from upstream side of siphon lines (both barrels) . We will also be cleaning the siphon lines as soon as we can make it accessible for a vehicle.

Signature
Sewer ~~System~~ Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date: 3-7-02

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Johnnie Robinson	219/427-5591	03-06-02
Individual Making Report:	Phone Number:	Overflow Date:

J11-164	St. Marys	Overflow Not Bypass
CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow

03-06-02 @ 0815 a.m.
Dry Weather Overflow observed (date/ time)

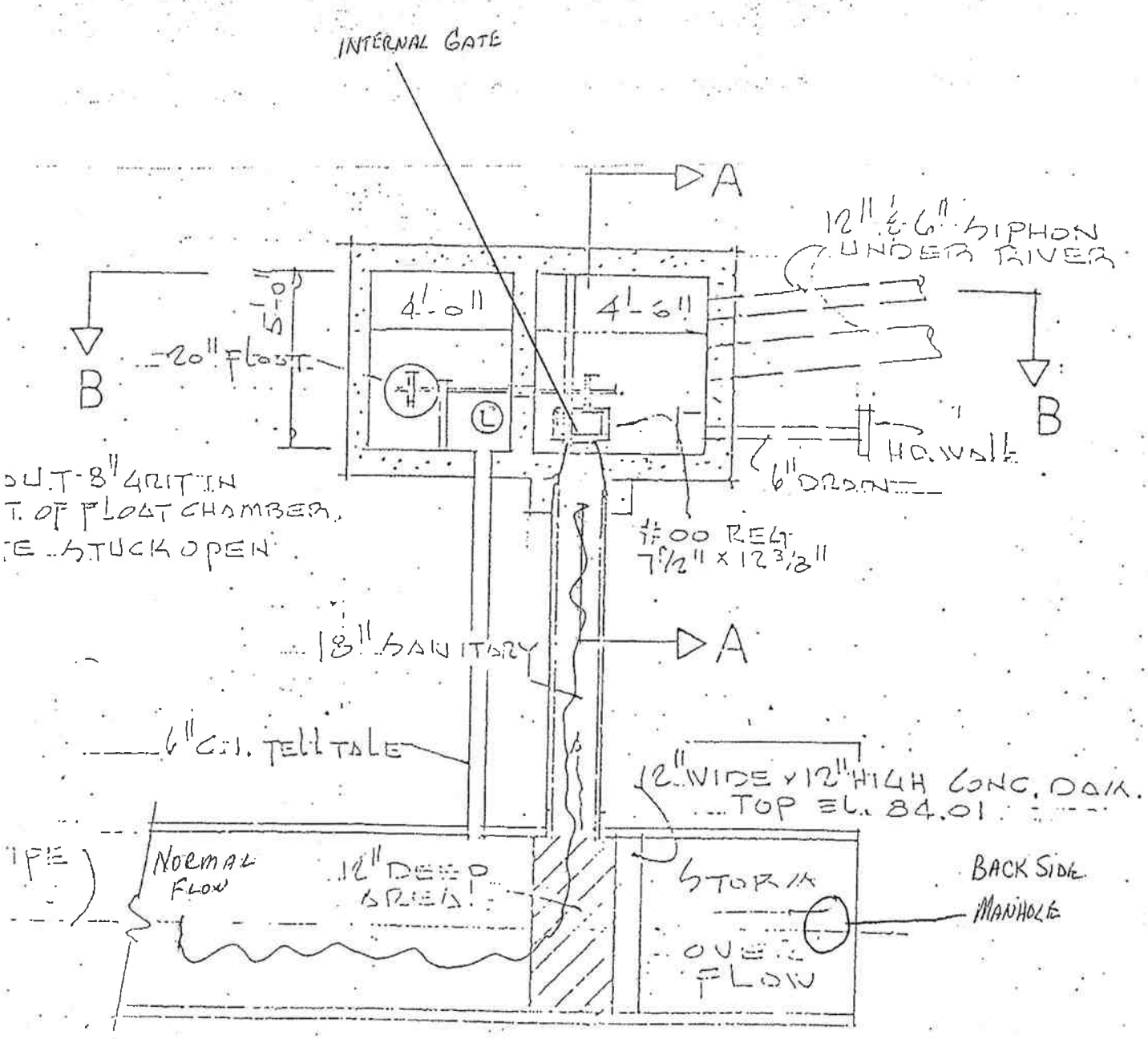
03-06-02 @ 2:09 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Blockage in line entering regulator.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
(one)

Actions taken to mitigate, minimize, and prevent future overflows:
This problem is in a very difficult location and we are in the process of trying to eliminate some equipment as noted in the previous report dated 11-06-02. We removed a small amount of roots and some debris on 3-6-02. This stopped the overflow but we need to address a long term solution.

Signature:_ _____
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591



AS YOU CAN SEE THE PIPE NARROWS AT THE INTERNAL GATE. WE BELIEVE THE OPENING IS SMALLER THAN THE PIPE MAKING IT VERY DIFFICULT TO GET THROUGH FROM THE BACK SIDE WE HAVE TRIED TO OPEN FROM THE INTERNAL GATE SIDE BUT THE GATE ITSELF PREVENTED US FROM DOING SO. COULD THE PLANT REMOVE THE GATE? THIS IS ALOT CLOSER TO THE PROBLEM AND WE COULD POSSIBLY SEE IT AND IDENTIFY THE ACTUAL PROBLEM.

From: "Jeff Morris" <CU/JAMOFB>
To: WPC/BSPAFA (Brian Panzer)
Date sent: Tue, 5 Feb 2002 08:16:09 -0500
Subject: (Fwd) INDIAN VILLAGE REGULATOR
Copies to: CU/JAROFA (John Robinson)

Brian could you look into this and see if removing the flapgate is possible. We are in this structure on average 3 times a year removing the debris from around the gate.

Let me know if anything can be done. Thanks...

------- Forwarded message follows -------
From: "John Robinson" <CU/JAROFA>
To: CU/JAMOFB
Date sent: Mon, 26 Nov 2001 13:58:57 -0500
Subject: INDIAN VILLAGE REGULATOR

Jeff,

We are having a problem cleaning the eighteen inch line that enters the regulator.Gary assisted me the last time we cleaned it and we think that if we could get the plant to remove the gate inside of the chamber we can clean it better. It seems as though we clean it just enough to open the line but it eventually clogs back up.I'm concerned this could be a problem with IDEM in the future if we don't get it cleaned properly. The SIP number is J11-164. Could you please check with Brian Panzer and see if it is possible to do this.

Thanks,
Johnnie

------- End of forwarded message -------

CSO

Report Date: 11-06-01

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie A. Robinson Jr.	219/427-5591	11-06-01
Individual Making Report:	**Phone Number:**	**Overflow Date:**

J11-164	St. Mary's River	Overflow Not Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

11-06-01 @ 08:00 a.m.
Dry Weather Overflow observed (date/ time)

11-06-01 @ 12:00 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:

Blockage in line entering the regulator

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
None

Actions taken to mitigate, minimize, and prevent future overflows:
.Removed blockage with auger, also looking into possibility of removing internal flapgate that is not functioning so we can better maintain the line.

Signature:
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date:

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP | County: Allen | Permit Number: IN0032191

Cheryl Cronin | 219-4271243 | 11-1-01

Individual Making Report: | Phone Number: | Overflow Date:

010-252 | Maumee River | 2 Million Gallons

CSO Outfall Number | River/Stream | Wastewater Treatment Plant Flow

11-1-01 12:30 a.m

Dry Weather Overflow observed (date/ time)

11-1-01 2:00a.m.

Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow: Sanitary pump failure

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
none

Actions taken to mitigate, minimize, and prevent future overflows:

Contractor will install a back-up pump in the next few weeks. This is a transition period at this outfall because we are replacing the pumps.

Signature:
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803

CSO

Report Date:

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: **Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.**
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie Robinson	**219/427-5591**	**8-01-01**
Individual Making Report:	**Phone Number:**	**Overflow Date:**

K06-234	St. Mary's	Overflow Not Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

08-01-01 @ 3:00 p.m.
Dry Weather Overflow observed (date/ time)

08-02-01 @10:00 a.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Blockage in gate at regulator K06-275

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
0

Actions taken to mitigate, minimize, and prevent future overflows:
.Removed blockage. Will continue routine inspections

Signature:_____
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

CSO

Report Date: 08-01-00

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: **Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.**
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Johnnie A. Robinson	219/427-5591	08-01-00
Individual Making Report:	**Phone Number:**	**Overflow Date:**

K15-116	St. Mary's	Overflow Not Bypass
CSO Outfall Number	**River/Stream**	**Wastewater Treatment Plant Flow**

08-01-00 @ 8:32 a.m.
Dry Weather Overflow observed (date/ time)

08-01-00 @ 9:46 a.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:

Loss of power to mechanical regulator (*blown fuse)*

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

`FIVE

Actions taken to mitigate, minimize, and prevent future overflows:
Cause for blown fuses is unknown at this time. Plant personnel have checked circuits and found nothing wrong. Problem may be at the utility pole. They are advising AEP of this possibility.

Signature:__
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803

CSO

Report Date: 03-09-00

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Craig Kankovsky	219/427-5591	03-07-00
Individual Making Report:	Phone Number:	Overflow Date:

K15-116	St. Mary's River	CSO-DWO NOT BY-PASS
CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow

03-07-00 11:45 A.M.
Dry Weather Overflow observed (date/ time)

03-07-00 12:30 P.M.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow: Blown fuse in mechanical regulator.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months: FOUR

Actions taken to mitigate, minimize, and prevent future overflows: WPCP is having electrician check for poor conections (shorts) that may cause the fuses to blow.

Signature:_
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803

() CSO file

TxA 1947
3-9-00
9:45 Am

Fax # 1662 11:35 Am 12-9-99

Report Date: 12-09-99

CSO

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Craig Kankovsky	219/427-5591	12-08-99
Individual Making Report:	Phone Number:	Overflow Date:

K15-116	St. Mary's River	DWO
CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow

12-08-99 9:40 a.m.
Dry Weather Overflow observed (date/ time)

12-08-99 12:45 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow: ELECTRICAL PROBLEM CORRECTED BY THE PLANT.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months: ONE

Actions taken to mitigate, minimize, and prevent future overflows: AS DETERMINED BY PLANT ELECTRICIAN.

Signature:_____

FAX # 1653
12-8-99 Approx 8:20 Am

CSO

Report Date: 12-06-99

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

219/427-5591

Individual Making Report:	Phone Number:	Overflow Date:
Craig H. Kankovsky	1-219-427-5591	12-02-99

CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow
M10-151	St. Mary's River	CSO OVERFLOW

Dry Weather Overflow observed (date/ time)
12-02-99 10:00 a.m.

Dry Weather Overflow abated (date/ time)
12-02-99 6:00 p.m.

Reason for Dry Weather Overflow:
Blockage in Regulator, cleared by WPCP

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
NONE

Actions taken to mitigate, minimize, and prevent future overflows:
Similar situations could occur at anytime, shall continue with regular inspections.

Signature:

0

CSO NOT REQUIRED

Report Date: 8-2-99

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Johnnie Robinson	219/427-5591	8-2-99
Individual Making Report:	Phone Number:	Overflow Date:
P06-~~102~~ 102	Maumee River	Overflow / Not Bypass
CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow

8-2-99 @ 10:42 a.m.
Dry Weather Overflow observed (date/ time)

8-2-99 @ 11:22 a.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:

Internal flapgate clogged with debris

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
one on 2-18-99

Actions taken to mitigate, minimize, and prevent future overflows:

Routine cleaning and inspections

Signature

CSO

Report Date: 7-22-99

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Johnnie Robinson	219/427-5591	7-22-99
Individual Making Report:	Phone Number:	Overflow Date:

K15-116	St. Marys	Overflow Not Bypass
CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow

7-22-99 @ 8:00 a.m.
Dry Weather Overflow observed (date/ time)

7-22-99 @ 9:00 a.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:

Relay switch malfunctioning in mechanical regulator

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

6-21-99 same problem

Actions taken to mitigate, minimize, and prevent future overflows:

WPC plant replaced relay with new

Signature

CSO

Report Date:6-29-99

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Johnnie A. Robinson Jr.	219/427-5591	6-21-99
Individual Making Report:	Phone Number:	Overflow Date:

K115-116	St. Marys	Overflow / Not a bypass
CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow

6-21-99 at 0900 hours
Dry Weather Overflow observed (date/ time)

6-21-99 at 1235 hours
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:

Temporary power failure at mechanical regulator

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

0

Actions taken to mitigate, minimize, and prevent future overflows:

None taken, power failure caused by Mother Nature

Signature:_____

CSO

CSO/PASSIVE REGULATOR INSPECTION CHECKLIST

Date: 2-18-99 Rainfall 0.00 in last 24 hours.

Sip#	Overflowing Yes	Overflowing No	Flapgate Reg.	Time	Location
R14-137		✓	N/FG	1209	25' W of Arby's lot @
R14-138		✓	FG	1210	State & Laverne Ditch
S18-082		✓	REG	1215	State & Coliseum — S.O. Rt. Stormwater
O10-097		✓	N/FG	1232	100'SE of Morton Pump Station
O10-252		✓	FG	1233	100' SW of Morton Pump Station
O10-273		✓	REG	1240	500 Coombs St.@ CAJ Food
O10-277		✓	FG	1242	50' N of REG O10-273
O10-257		✓	FG	1245	300' S at end of Griffen St.
P06-192	✓		FG	1248	Under Anthony St. Bridge N of Berry S bank
N06-022		✓	N/FG	1256	120' N of Hanna & Berry
M10-238		✓	FG	102	E of bridge @ Spy Run & Superior N bank

Comments: P06-192 - LIGHT OUTFALL - Phoned WPCP Panzer to have crew check Regulator 2-18-99 (Corrected 2-19-99, Blockage in Reg.)

CSO

Report Date: 11-17-98

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745. NONE OBSERVED

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

CRAIG KANKOWSKY 219/427-5591 11-9-98
Individual Making Report: Phone Number: Overflow Date:

P16-192 MAUMEE OVERFLOW/NOT BYPASS
CSO Outfall Number River/Stream Wastewater Treatment Plant Flow

11-9-98 10:30 AM
Dry Weather Overflow observed (date/ time)

11-16-98 1:15 P.M
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow: CSO REGULATOR LOCATED AT ANTHONY/WAYNE ST. WAS PLUGGED OBSTRUCTION WAS CLEARED BY WPC PLANT UPON ENTRY.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

0

Actions taken to mitigate, minimize, and prevent future overflows:
ROUTINE INSPECTIONS BY WPCM OF OUTFALLS
ROUTINE INSPECTIONS OF REGULATORS AND CLEANING

Signature: _

CSO

Report Date: 11-10-98

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Johnnie Robinson 219/427-5591 11-9-98
Individual Making Report: Phone Number: Overflow Date:

POU-192 Maumee
CSO Outfall Number River/Stream Wastewater Treatment Plant Flow

11-9-98 @ 10:30 am
Dry Weather Overflow observed (date/ time)

11-10-98 11:00 am
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
DEBRIS IN FLOAT CHAMBER

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
0

Actions taken to mitigate, minimize, and prevent future overflows:
ROUTINE CLEANING OF REGULATOR CHAMBERS BY WPCP

Signature:
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

Report Date: 11-9-98

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

CRAIG KANKOVSKY — Individual Making Report:
219/427-5591 — Phone Number:
11-9-98 — Overflow Date:

P06-192 — CSO Outfall Number
MAUMEE — River/Stream
OVERFLOW/NOT BYPASS — Wastewater Treatment Plant Flow

11-9-98 10 30 AM — Dry Weather Overflow observed (date/ time)

WILL NOTIFY — Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
UNKNOWN AT THIS TIME
POSSIBLE REGULATOR PROBLEM

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
0

Actions taken to mitigate, minimize, and prevent future overflows:
NOTIFIED PLANT MGMT. OF OVERFLOW PROBLEM.

Signature:

CSO

Report Date: 10-6-98

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Johnnie Robinson | 219/427-5591 | 10-5-98
Individual Making Report: | Phone Number: | Overflow Date:

K03-092 | St Marys
CSO Outfall Number | River/Stream | Wastewater Treatment Plant Flow

10-5-98 @ 9:25 am
Dry Weather Overflow observed (date/ time)

10-6-98 @ 11:00 am
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:

FLOATS NOT ADJUSTED PROPERLY IN OH AMBER CAUSING DISCHARGE TO RIVER

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

0

Actions taken to mitigate, minimize, and prevent future overflows:

FLOATS WERE ADJUSTED AND ARE FUNCTIONING PROPERLY

Signature:____
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591

Report Date: 10-5-98

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

JOHNNIE ROBINSON	219/427-5591	10-5-98
Individual Making Report:	Phone Number:	Overflow Date:

K03-092	ST. MARYS	
CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow

10-5-98 @ 9:25 A.M.
Dry Weather Overflow observed (date/ time)

WILL NOTIFY
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
BELIEVED TO BE PROBLEM WITH REGULATOR CONTROLS, NOTIFIED TREATMENT PLANT @ 9:31 AM.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
0

Actions taken to mitigate, minimize, and prevent future overflows:

Signature

CSO

Report Date: 3-5-98

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

JOHNNIE ROBINSON — Individual Making Report:
219/427-5591 — Phone Number:
3-5-98 — Overflow Date:

K07-176 — CSO Outfall Number
ST. MARYS — River/Stream
OVERFLOW NOT BYPASS — Wastewater Treatment Plant Flow

3-5-98 12:00 PM
Dry Weather Overflow observed (date/ time)

3-5-98 1:30 PM
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
FLOAT STUCK IN REGULATOR CAUSING GATE TO REMAIN SHUT

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
N/A

Actions taken to mitigate, minimize, and prevent future overflows:
NOTIFIED WWTP TO LUBRICATE APPROPRIATE FITTINGS

Signature:

CSO

Report Date: 1-29-98

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

CRAIG H. KANKOVSKY 219/427-559.1 1-27-98
Individual Making Report: Phone Number: Overflow Date:

K 11 165 ST. MARYS CSO OVERFLOW
CSO Outfall Number River/Stream Wastewater Treatment Plant Flow

1-27-98 9:50 AM
Dry Weather Overflow observed (date/ time)

1-29-98 8:30 AM
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
3' DIA, WOODEN WIRE SPOOL BLOCKING ONE OF TWO NORMAL FLOW LINES TO INTERCEPTOR IN MECHANICAL REGULATOR, CLEARED BY WPC PLANT CREW

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

NONE OBSERVED

Actions taken to mitigate, minimize, and prevent future overflows:

REGULAR OUTFALL INSPECTIONS

Signature

CSO

Report Date: 1-28-98

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

— NONE OBSERVED

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

CRAIG A. KANKOVSKY 219/427- 5591 1-27-98
Individual Making Report: Phone Number: Overflow Date:

K-11-165 St MARYS CSO OVERFLOW
CSO Outfall Number (River)/Stream Wastewater Treatment Plant Flow

1-27-98 9:50 AM
Dry Weather Overflow observed (date/ time)

WILL NOTIFY
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
POSSIBLE RESTRICTION IN MECHANICAL REGULATOR # K11-163, referring to PLANT (WPC) to CHECK AND CLEAN AS NECESSARY
OUTFALL IS FROM 126" LINE, SNOW MELT IS CONTRIBUTING TO SITUATION

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

NONE OBSERVED

Actions taken to mitigate, minimize, and prevent future overflows:

Signature:___

Report Date: 12-3-97

Indiana Department of Environmental Management
Office of Water Management, Bypass/Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at (317) 232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the bypass is resulting in a fish kill or other severe environmental damage report the release to the Office of Emergency Response at: (317) 233-7745.

Facility Name: FT. WAYNE WWTP County: ALLEN Permit Number: IN0032191

CSO CRAIG KANKOVSKY 219-427-5591 OVERFLOW
Individual Making Report: Phone Number: ~~Bypass~~ Date:

12-2-97 1:30 PM ~~0~~ NONE NOTED
Duration, Start/Stop Time: Gallons: Aquatic Life Killed ?/Stream

OVERFLOW
Wastewater Treatment Plant Flow during ~~bypass~~ (MGD):

Reason For Release:

ROOTS IN NORMAL FLOW LINE
HAD HYDRAULIC SEWER JET RUN
ROOT SAW IN 10" LINE
STOPPED OVERFLOW

Actions Taken To Prevent, Minimize or Mitigate Damage:

HAS BEEN PUT IN JOB TICKET COMPUTER
FOR REGULAR MAINTENANCE

Signature:

 CSO

Report Date: 12-1-97

Indiana Department of Environmental Management
Office of Water Management, Bypass/Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at (317) 232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the bypass is resulting in a fish kill or other severe environmental damage report the release to the Office of Emergency Response at: (317) 233-7745.

Facility Name: FORT WAYNE WWTP County: ALLEN OR 7255 Permit Number: IN 0032191

CSO CRAIG KANKOWSKY 219-427 5591 OVERFLOW
Individual Making Report: Phone Number: ~~Bypass~~ Date:

12-1-97 11AM 10 GPM NONE
Duration, Start/Stop Time: Gallons: Aquatic Life Killed ?/Stream

OVERFLOW
Wastewater Treatment Plant Flow during bypass (MGD):

Reason For Release:

ROOTS IN NORMAL FLOW LINE - REQUESTED
ROOT SAW TO CLEAN 10" LINE ASAP
022-004

Actions Taken To Prevent, Minimize or Mitigate Damage:

CLEARING OF ROOTS IN NORMAL FLOW LINE

Signature:

CSO

ORIG.

Report Date: 11-19-97

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

CRAIG KANKOVSKY 219/427-5591 11-18-97
Individual Making Report: Phone Number: Overflow Date:

K19-044 ST. MARYS
CSO Outfall Number River/Stream Wastewater Treatment Plant Flow

11-18-97 11:45 AM
Dry Weather Overflow observed (date/ time)

11-18-97 1 PM
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
MALFUNCTION AT WOODHURST REGULATOR
WPC PLANT CORRECTED SITUATION
DID NOT OBSERVE ANY AQUATIC LIFE KILLED
Approx 5 gal P.M.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
Several, all reported

Actions taken to mitigate, minimize, and prevent future overflows:
Almost daily inspections

Signature:
CSO/SSI 1-219-427-5591

CSO

Report Date: October 31, 1997

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: **Fort Wayne WWTP** County: **Allen** Permit Number: **IN0032191**

Mark R. Essex	**219/427-2906**	**October 31, 1997**
Individual Making Report:	Phone Number:	Overflow Date:

K19-044	St. Mary's River	N/A
CSO Outfall Number	River/Stream	Wastewater Treatment Plant Flow

Continuous
Dry Weather Overflow observed (date/ time)

Revised correction date is November 7, 1997
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:

Due to repeated dry weather overflows, a comprehensive inspection was undertaken during the summer. Down-pipe from the regulator, the pipe was obstructed with roots and silt. Crews were dispatched to cut through the roots. This took several days. Dry weather overflows occurred again. This time more drastic measures were taken. A "bucket" machine was used in the pipe to clean it. After nearly two weeks, the bucket jammed in the pipe creating a mostly impassable obstruction causing flows to be diverted to the river.

An emergency order was approved by the Board of Public Works to open the pipe and replace the necessary structures. After repeated delays in securing the necessary replacement structure, the contractor assures City Staff that the project will start in the middle of next week. City crews have been observing and investigating the situation daily.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
Several, all reported.

Actions taken to mitigate, minimize, and prevent future overflows:
See above

Signature: _____

CSO

Report Date: OCT. 3 1998

Indiana Department of Environmental Management
Office of Water Management, Bypass/Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at (317) 232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the bypass is resulting in a fish kill or other severe environmental damage report the release to the Office of Emergency Response at: (317) 233-7745.

Facility Name: FT. WAYNE WWTP County: ALLEN Permit Number: IN0023191

Individual Making Report: Mark Essex
Phone Number: 219/427-2906
Bypass Date: OCT. 1, 1998

Duration, Start/Stop Time: STARTED 11 AM OCT 2, 1998 ID'ed 3:30 PM OCT 1, 1998
Gallons: (29,250) EST. 25 gpm
Aquatic Life Killed ?/Stream: None detected / St. Mary

Wastewater Treatment Plant Flow during bypass (MGD): Overflow, not bypass

Reason For Release:

Clogged regulator which diverted flow from WWTP to St. Mary's River

Actions Taken To Prevent, Minimize or Mitigate Damage:

Regular inspection & cleaning schedules are included in the CSS Operational Plan.

Signature:

CSO

Report Date: 9-25-97

CARY I APOLOGIZE FOR THE INCONVENIENCE. I TRIED TO REACH YOU BY PHONE AND COULD NOT. THE INFORMATION YOU REQUESTED IS ON THIS COPY.
SORRY AGAIN, JOHNNIE

nt of Environmental Management
ement, Bypass/Overflow Incident Report

is form and fax it to Gary Starks, Office of Water
ce Branch at (317) 232-8637.
he telephone and written letter requirements of your

g in a fish kill or other severe environmental damage
... to the Office of Emergency Response at: (317) 233-7745.

Facility Name: FW WWTP County: ALLEN Permit Number: IN0032191

JOHNNIE ROBINSON (219) 427-5591 24 SEPT. 97
Individual Making Report: Phone Number: Bypass Date:

START 9-24-97 0730 EDST 10 GPM NONE DETECTED / ST. MARYS
Duration, Start/Stop Time: Gallons: Aquatic Life Killed ?/Stream

OVERFLOW / NOT BYPASS
Wastewater Treatment Plant Flow during bypass (MGD):

OVERFLOW / NOT BYPASS

Reason For Release:

POWER BUCKET MACHINE USED TO CLEAN DOWNSTREAM LINE IS STUCK IN LINE AND CAUSING OVERFLOW TO RIVER. K19-044

ANY QUESTIONS POC: MARK ESSEX (219) 427-2906

Actions Taken To Prevent, Minimize or Mitigate Damage:

LINE IS BEING DUG OUT AND REPAIRED BY PRIVATE CONTRACTOR. (ESTIMATED TIME OF COMPLETION 25 OCT 97) WE WILL NOTIFY YOU WHEN CORRECTED

Signature:

Report Date: 9-5-97

CSO

Indiana Department of Environmental Management
Office of Water Management, Bypass/Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at (317) 232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the bypass is resulting in a fish kill or other severe environmental damage report the release to the Office of Emergency Response at: (317) 233-7745.

Facility Name: Ft. Wayne WWTP County: ALLEN Permit Number: IN CO 32191

CRAIG KANKOVSKY 219-427-5591 (OVERFLOW)

Individual Making Report: Phone Number: Bypass Date:

11:12 Am / 8:50 Am
8-11-97 / 8-5-97 5 GPM NONE DETECTED

Duration, Start/Stop Time: 9-5-97 8:50 Am Gallons: Aquatic Life Killed ?/Stream

OVERFLOW NOT BYPASS

Wastewater Treatment Plant Flow during bypass (MGD):

Reason For Release:

Heavy debri in sewer line downstream from "Woodhurst Regulator", also heavy silt and cinders in float chamber

K19-044

Actions Taken To Prevent, Minimize or Mitigate Damage:

Cleaning of two sets downstream with "Power Machines", also had WPCP cleaning in float chamber

Signature:

SSI for CSO's

CSO

Report Date: 20 MAY 1997

Indiana Department of Environmental Management
Office of Water Management, Bypass/Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at (317) 232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the bypass is resulting in a fish kill or other severe environmental damage report the release to the Office of Emergency Response at: (317) 233-7745.

Facility Name: FT. WAYNE WWTP County: ALLEN Permit Number: IN0032191

JOHNNIE ROBINSON (219) 427-1255 20 MAY 1997
Individual Making Report: Phone Number: Bypass Date:

STOP 20 MAY 1530
START 19 MAY 0730 WWOF 75 GPM NONE DETECTED / ST. MARYS
Duration, Start/Stop Time: Gallons: Aquatic Life Killed ?/Stream

OVERFLOW, NOT BYPASS
Wastewater Treatment Plant Flow during bypass (MGD):

Reason For Release:

LINE CLOGGED GOING TO REGULATOR. DIVERTED FLOW TO ST. MARY'S. K19-044

Actions Taken To Prevent, Minimize or Mitigate Damage:

COMBINATION FLUSH & VACTOR LINES GOING TO AND FROM REGULATOR

Signature:

V

250

Date: 4-23-97 Rainfall 0.00 in last 24 hours.

CSO#	Overflowing Yes	Overflowing No	Flapgate	Time	Location
M18-032	X		Y	945	520' N of State Bl. & Westbrook Dr. Intersection on W bank.
N22-103		X	Y	1045	100' E of Penn Place & Spy Run intersection on W bank.
N22-093		X	Y	1040	130' E of Dalgren & Spy Run intersection on W bank.
O22-094		X	Y	1050	200' E of Parnell Av. Bridge on S bank.
O22-002		X	Y	1052	120 NNW of St. Joe River Rd. & Woodrow Av. on S bank.
O22-004	X		Y	1055	370' W on N. Anthony Bl. & St. Joe River Rd. on E bank.
O22-071		X	Y	1055	50' N. of 022-004
M18-014		X	Y	1035	200' E of Northside Dr. & Curdes Av. intersection
M18-167		X	Y	1030	150' W of Charlotte Av. & Northside Dr. intersection on E bank. on E bank.
R14-137	Y		✓	//	200' West of Lavern Av. & State St. intersection.
R14-138		X	Y	//	

Comments: 2315 West brook - overflowing - 130 to correct
* Finished Westbrook @ 1075 Hrs. - Restored proper f-loc.
O22004 - It clear outflow - dribble
R14 137 It clear outflow

EXHIBIT E-3

Recommendations to Eliminate or Reduce DWOs

Procedures

1. Review and revise as necessary the inspection procedures for float operated mechanical regulators. These regulators should be inspected frequently to determine if base flows are obstructed as they pass through the regulator.

2. Review and revise as necessary the inspection and maintenance procedures for the gravity sewers just downstream of regulators. The frequency of inspection and cleaning at these locations should be higher than that for typical gravity sewers.

Studies

1. Study the possibility of converting mechanical regulators to static regulators.

2. TV the section of 18" pipe between the diversion section and regulator chamber of regulator J11-163. Continue looking for the source of shop rags.

3. Develop alternatives for screening debris at regulator O10-311.

Capital Projects – None are recommended at this time.

EXHIBIT E-4