

**Stantec**

**MIAMI VALLEY REGION AREAWIDE WATER QUALITY MANAGEMENT PLAN**

**Appendix K      Wastewater Utility Surveys**

**Miami Valley Regional Planning Commission**  
208 Areawide Water Quality  
Management Plan Survey

Date: October 2010

NPDES Permit Number: IPB00030 \*FD

Facility Name: City of Union STP

Owner: City of Union

Operator / Manager: John P. Applegate, City Manager

When was the treatment facility built? 1957

Have there been any upgrades or expansions? If yes, please explain. When completed?

First Expansion in 1968

Second Expansion in 1983

If there are any proposed expansions, when will they be built and at what estimated cost? Yes, plant improvement with no increase in design flow.

Cost not available yet.

What jurisdictions does the facility serve? City of Union (Miami/Montgomery County),

Unincorporated areas of Butler Township

Please provide a list of service agreements associated with this facility. N/A

Is there a current map of the Facility Planning Area boundary or a 201 Plan? If so, please provide. Will include map with November submission.

Is there a map of the currently served areas within the Facility Planning Area boundary? If so, please provide. Will include map with November submission.

Are there unsewered areas within the Service Area that have onsite treatment systems? If so, please provide location information.

No, expect for small amount of residential septic tanks

Are there currently any revisions to the 201 Plan underway? If so, please explain. \_\_\_\_\_

Yes, previously submitted request.

What treatment process is used at the facility? Contact – stabilization plant with an

aerated facultative lagoon

What is the current average daily flow the facility treats? 0.755 MGD (2009)

What is the design average daily flow for the facility? 1.0 MGD

What is the maximum Ohio EPA allowable (peak) flow the facility can treat? 1.6 MGD

average, 3.0 MGD peak hourly

Do wet weather flow bypass or storage facilities exist? If yes, please explain and give their locations. No

Are you aware of any sanitary sewer overflows (SSOs) or chronic water-in-basement locations in the collection system? If yes, where are they located? None

Is the facility under any NOV's, findings or orders from the Ohio EPA? No

List the five (5) largest customers to the plant, in terms of flow or load. 2009

1. Union Elementary School

2. TECO

3. QCo

4. Car Wash

5. Fire House

Does a certified treatment plant operator operate your facility? Yes

Does your treatment facility accept septage? Yes within City

## B. Population Projections

As the 2010 census information is not processed yet, we have included the information from our Facility Plan Update Request from May of 2003 as it is based on the most recent census information from 2000.

The population data submitted as part of this update is based on year 2000 census information. By overlaying the census and block boundaries on a map, the proportionate area of each census division within the City limits was determined. Multiplying this proportion by the total population for the census division, then dividing by the total area of each division should result in the population for the City. However, this method results in 79% of the year 2000 census population of the City. Therefore, the method described above may result in a slightly lower population when used across the entire proposed facility planning area. The proportionate population and the adjusted population have been provided (shown in Table I, below).

**Table 1 - Population for the Proposed Union Subarea**

County	Census Tract	Total Population	Total Area (acres)	Area within proposed FPA (acres)	Proportionate Population	Adjusted Population
Montgomery	1,101	1,351	10,602.40	4,605.46	587	744
	1,201.02	4,930	3,382.58	244.15	356	451
	1,250	5,740	2,947.20	1,984.34	3,865	4,900
	1,251.01	5,886	2,937.57	179.34	359	455
	1,251.01	5,116	8,028.20	1,817.5	1,158	1,468
Miami	3,401.5	1,036	7,656.16	1,510.79	204	259
	3,501	7,681	14,913.2	1,445.95	745	944
Totals:					7,274	9,221

Using the 10 year rates of growth from 1990 to 2000, the population was projected forward for the 20 year planning period. This information is contained in Table 2.

**Table 2 - Population for the Proposed Union Subarea**

County	Census Tract	Total Population 2000	Total Population 1990	Annual Increase/Decrease Rate	Proposed FPA Portion 2000	2010	2020	2030
Montgomery	1,101	1,351	1,672	-2.1%	744	601	486	394
	1,201.02	4,930	4,711	0.5%	451	472	494	517
	1,250	5,740	5,803	-0.1%	4,900	4,846	4,794	4,742
	1,251.01	5,886	4,839	2.0%	455	554	673	820
	1,251.01	5,116	5,536	-0.8%	1,468	1,357	1,254	1,159
Miami	3,401.5	1,036	1,161	-1.1%	259	231	206	184
	3,501	7,681	6,314	2.0%	944	1,149	1,398	1,700
Total		31,740	30,036	0.6%	9,221	9,210	9,304	9,515



As shown in Table 2, the population of the proposed FPA will increase at a very slow rate. Based on 100 gallons per person per day, the FPA will increase from 0.92 MGD to 0.93 MGD.

### **C. Description of Existing and Proposed Wastewater Treatment Options**

#### City of Union Wastewater Treatment Plant

From the “Biological and Water Quality Study of the Stillwater River Basin”, OEPA, November 2001:

The City of Union WWTP was constructed in 1955, with modifications in 1966 and a major modification in 1983. Wastewater treatment currently consists of two lagoons in a series with a design capacity of 1.0 MGD and a hydraulic capacity of 3.0 MGD. The current chlorine contact tank has a volume of 34,165 gallons and provides a contact time of 29 minutes. The entire service area is sewered with separate sewers and has two lift stations with no reported overflows or bypasses. The population of Union is currently estimated at 6,267 with slight to moderate growth predicted for the area. The City of Union WWTP discharges to the headwaters of an unnamed tributary that discharges to the Stillwater River at RM 11.74. The wastewater facility outfalls have been described as 001 and 002. However, discharge from outfall 002 is lagoon underdrain effluent and is reported as insignificant. Upstream monitoring (801) is conducted in the Stillwater River at Old Springfield Road Bridge (RM 12.2) and the downstream monitoring station (901) is located at Martindale Road Bridge at RM 11.4. An inflow and infiltration (I/I) analysis was conducted in the late 1970s and I/I was found to be insignificant at the time. Currently there are no plans to determine whether I/I is problematic at the wastewater treatment facility.

There are currently two sludge application sites, one is currently utilized and is located between Old Springfield Road and the wastewater treatment plant. The other is approved, but not in use and is located south of the plant to East Martindale Road. The farmland lies on either side of the wastewater treatment plant and directly adjacent to an unnamed tributary that parallels Old Springfield Road. These sites have been accepting waste since the early 1980s. Historical sludge application sites were located at Haber, Phillipsburg-Union and Rhinehart Road and on the City owned property east of River Road in the late 1970s. The annual sludge report indicates a grassed waterway flows through the application site but is treated as an isolation area as part of sludge application guidelines. The current sludge application sites at Old Springfield and Martindale Roads are an estimated 0.5-miles from the main stem of the Stillwater River.

Reviewing monthly average daily flow and peak flow data for year 2009, as submitted to OEPA, results in the following table:



**Average Daily Flow  
Year 2009**

<i>Month</i>	<i>Average Daily Flow (MGD)</i>	<i>Peak Flow (MGD)</i>
January	0.714	0.825
February	0.853	1.521
March	0.709	0.824
April	0.862	1.140
May	0.896	1.302
June	0.782	1.299
July	0.690	0.889
August	0.677	0.765
September	0.635	0.698
October	0.713	0.877
November	0.692	0.888
December	0.841	1.302
Average for the Year	0.755	1.028

**D. Proposed Treatment Options**

The City of Union proposes the continued use of a centralized wastewater treatment system throughout the subarea. The collection system will be extended as needed by property owners or the City within the planning area. Continued, aggressive infiltration/inflow programs are on-going by the City.

The existing plant has adequate capacity for the projected flows (design annual average flow of 1.0 MGD) versus a 20-year projected flow of 0.93 MGD). The City has completed the design of a wastewater treatment plant “expansion” that is capable of providing advanced levels of treatment, in anticipation of the OEPA’s requirements once the NPDES permit is renewed. The proposed plant would normally operate on a zero-discharge basis, using land application whenever possible. In this way, the integrity of the Stillwater River is not only maintained, but potentially improved by the proposed design.

It should be noted that the proposed update of the City of Union facilities planning area meets a variety of key objectives. These are further defined herein.

***Treatment of Wastewater Flows Locally***

The City of Union wastewater treatment facility is centrally located within the proposed facilities planning area. Conveyance to the facility therefore minimizes the overall length of large diameter collections systems. Potential for environmental hazard due to a large pipe break is minimized. Potential for raw sewage to become septic due to a long conveyance time is also reduced. Potential for odors is reduced due to the reduced residence time of sewage within the conveyance system, when compared to other facility locations in the area.



### ***Treatment of Flows within the Incorporated Boundaries of the City***

The City of Union has extended service to those properties which have annexed into the City, whether inside the previous Facilities Planning Area or not. These extensions have been completed according to the requisite Permit-to-Install program mandated by the Ohio Environmental Protection Agency.

### ***Effect on the Customers within the Area***

Each year, the City of Oakwood Finance Department publishes a water and sewer rate comparison of 63 communities within the greater Dayton area. The table below provides a comparison of the rates of the service providers identified in Section 3.2 for typical consumption of 3,000 cubic feet per quarter, as well as the City of Union's rates. In addition, the combined water and sewer rates for the same communities are provided.

***Comparison of Local Rates - 2010***

<i>Community</i>	<i>Sewer</i>	<i>Water and Sewer Combined</i>
Englewood	\$72.45	\$133.88
Union	\$77.45	\$129.20
Montgomery County (Clayton District) (a)	\$129.37	\$229.10
West Milton	\$164.03	\$281.57

As shown, the local service providers can provide sewer service through a centralized system to the end user at a rate significantly lower than those service providers whose facilities are located some distance from the proposed facilities planning updated area.

### **Supply for FPA area**

The City of Union currently has the capacity needed to supply the FPA area. The City not only has the capacity required through their wastewater treatment plant, but has also performed several sewer extensions and upgrades, including a new two mile sewer line built in 2010 that running east down Old Springfield Road and terminated at the intersection of Old Springfield Road and Dog Leg Road.



**E. Current Plant Parameters**

The City of Union’s design flows and waste loading are identified in the tables below:

***City of Union Wastewater Treatment Facility***

<i>Parameter</i>	<i>Design</i>
Design Flow	<ul style="list-style-type: none"> <li>• 1.0 million gallons per day (mgd) average annual flow</li> <li>• 1.6 mgd average wet weather flow</li> <li>• 3.0 mgd peak hourly wet weather flow</li> </ul>
Design Waste Loading	<ul style="list-style-type: none"> <li>• 0.17 pounds BOD<sub>5</sub></li> </ul>

***City of Union Wastewater Treatment Facility  
Effluent Limitations 2009***

	<i>Max. Monthly Average</i>	<i>Max. Weekly Average</i>
Biochemical Oxygen Demand (BOD <sub>5</sub> )	Summer 15 Winter 25	Summer 23 Winter 40
Suspended Solids (SS)	30	45
Ammonia Nitrogen (NH <sub>3</sub> -N)	Summer 8 Winter 15	Summer 12 Winter 23
Fecal Coliforms	Summer 100	Summer 2000
PH	6.5 to 9.0 standard units	
Oil and Grease	Any Time	Less than 10
Chlorine Residual	Any Time	Less than 0.019
Dissolved Oxygen (DO)	Any Time	Not Less than 6.0

**F. Supplying Needs to the Proposed Population**

As discussed above, Union has the capacity to expand and extend its current population and coverage area. Infrastructure has already been constructed to meet the need of the expanded FPA boundary modification.

**G. Protection of Critical Water Resources**

The proposed wastewater treatment option is a continuation of the goals and objectives of the original Facilities Plan. The “Biological and Water Quality Study of the Stillwater River Basin” report indicated that in the immediate reaches of the Stillwater River adjacent and through the City, failing on-site septic systems are not a concern. However, there are sections of the river where on-site facilities have failed and degraded the water quality. Use of a centralized system mitigates this potential pollution source.

The City has also crafted a wellhead protection plan to ensure the integrity of the potable water source in relation to potential contaminants, such as the proposed wastewater treatment system. The





proposed plans and the wellhead protection plan go hand-in-hand with maintaining the critical water sources of the area.

#### **H. Proposed Changes to FPA**

Union has displayed an ability and desire to expand its service area to outlying areas which are in the need of centralized sewer systems. Union currently serves all incorporated areas along with a number of areas outside the corporation limits. The existing treatment facilities has capacity for expanded service areas and infrastructure has been constructed to convey waste for treatment. The proposed FPA modifications are contiguous with Union's current FPA boundaries and follow the trend of development in the Montgomery and Miami Counties.

#### **I. Public Participation**

The City of Union has worked to create an open line of communication between the City and all parties involved. The City Manager has attended all MVRPC meeting in concerns to the FPA planning and has even held public meetings for FPA updates in the past. Documentation of the most recent public meeting in 2005 can be found in our update from August of 2005 or is available upon request.



# 208 Areawide Water Quality Management Plan Survey

208 Plan Survey (231 kb)

If you have already submitted the survey online and want to change an answer, please [email the Webmaster](#)

If you do not have information to answer a question, please type "NA" in the text box.

## Step 8: Summary & Map Upload

NPDES Permit Number: 1PB00005*KD	Upgrades or Expansions:	In 2001 the transfer box structures were upgraded. Around 2004-2005 the Bank height of the lagoons was increased to get the proper height from top of water to top of bank. In 2008 & 2009 Solar bee aerators/mixers replaced the mechanical aerators.
Facility Name: Ansonia WWTP Owner: Village of Ansonia Don Demange, Operator/Manager: Public Works Director	Expansion Date and Cost: No 201 Plan Revision: No Wet Weather Flow Bypass: No	
Certified Treatment Plant Yes Operator:	SSOs or Chronic Water-in-Basement Locations:	Yes, We currently have 7 combined sewer overflows that are located along the Stillwater River that runs thru the Village. The only time that they would overflow into the river would be during an heavy rainfall that lasted for a long peroid of time.
Facility Accept Septage: No	NOVs, findings or orders from the Ohio EPA:	Yes- Close off the CSO's by 7/31/2012.
Facility Built: 1970	Jurisdictions Served:	Village of Ansonia, Village of Rossburg & 118 Sanitary Sewer Sub-District Corridor between the Village of Ansonia ans the Village of Rossburg.
Facility Treatment Process: The Village of Ansonia has a two pond Lagoon system Process: The Lagoons provided a total surface area of about 11 acres.	Five Largest Customers:	Village of Ansonia Residents
Average Daily Flow: 0.047		Village of Rossburg Residents
Design Average Daily Flow: 0.35		Ansonia Local Schools
Peak Allowable Daily Flow: N/A		Ansonia Lumber Company
		N/A
	Unsewered Areas with Onsite Treatment Systems:	In the 118 Sanitary Sewer sub-district there are some houses that where grandfathered and do not have to hook in to the sewer line until they repair or replace their current sewer system.
	Service Agreements:	Village of Rossburg Sanitary Sewer District & the 118 Sanitary Sewer Sub-District Corridor between Ansonia and Rossburg.

**Before completing the survey, please provide requested maps below, if available. Click the "Browse" or "Choose File" button to navigate to the requested file on your computer:**

Is there a current map of the Service Area boundary or a 201 Plan? If so, please provide by clicking the first "Browse" or "Choose File" button.

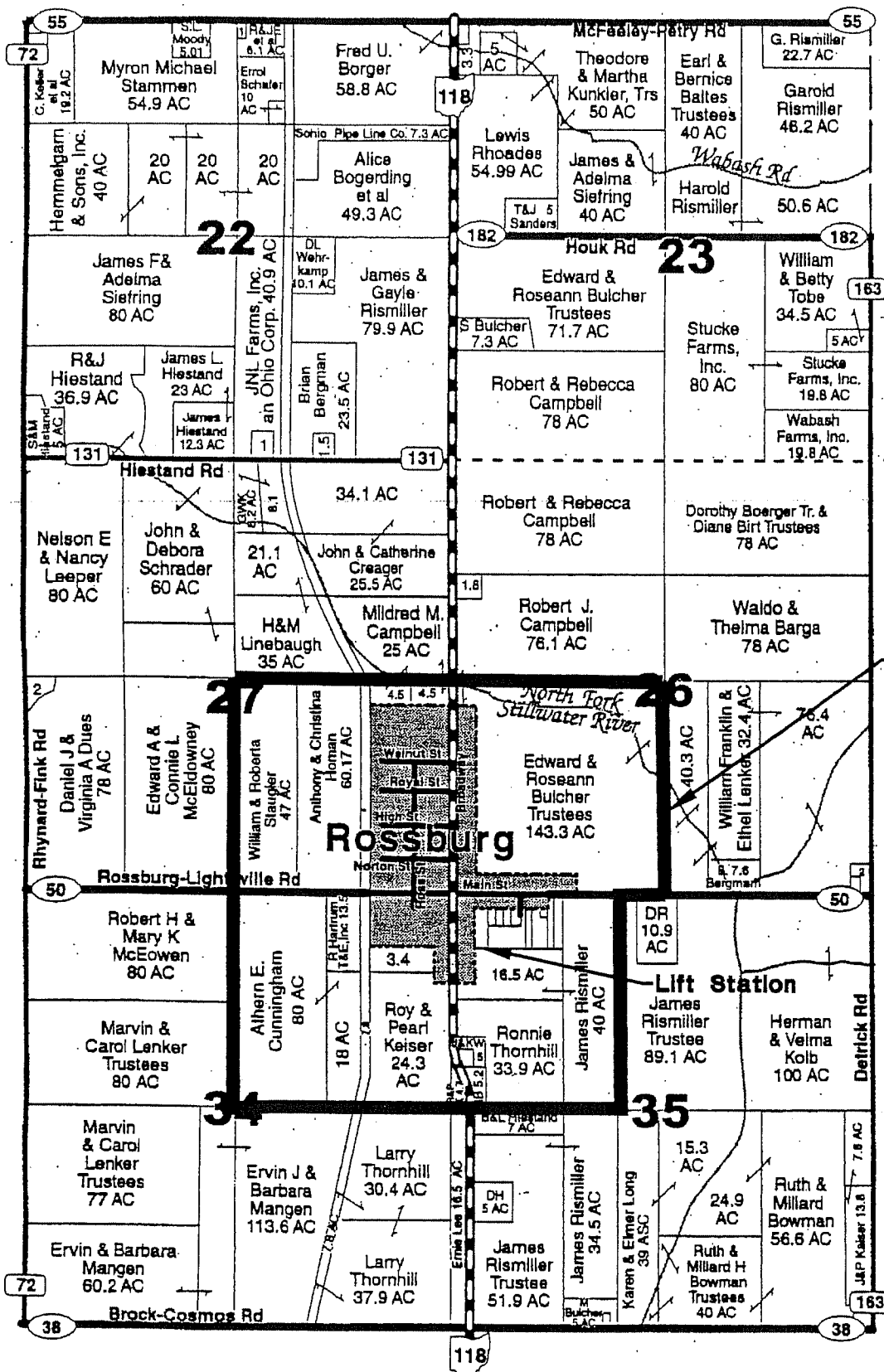
*NO - Matt is going to add Village of Rossburg and 118 Sanitary Sewer Corridor to Current Facility Planning Area.*

Is there a map of the currently served areas within the Service Area boundary? If so, please provide by clicking the second "Browse" or "Choose File" button.

*Yes - Don't have on Computer*

**To upload files (if applicable) and submit survey answers, please press the "Finish" button below.**



**ROSSBURG SEWER DISTRICT BOUNDARY**



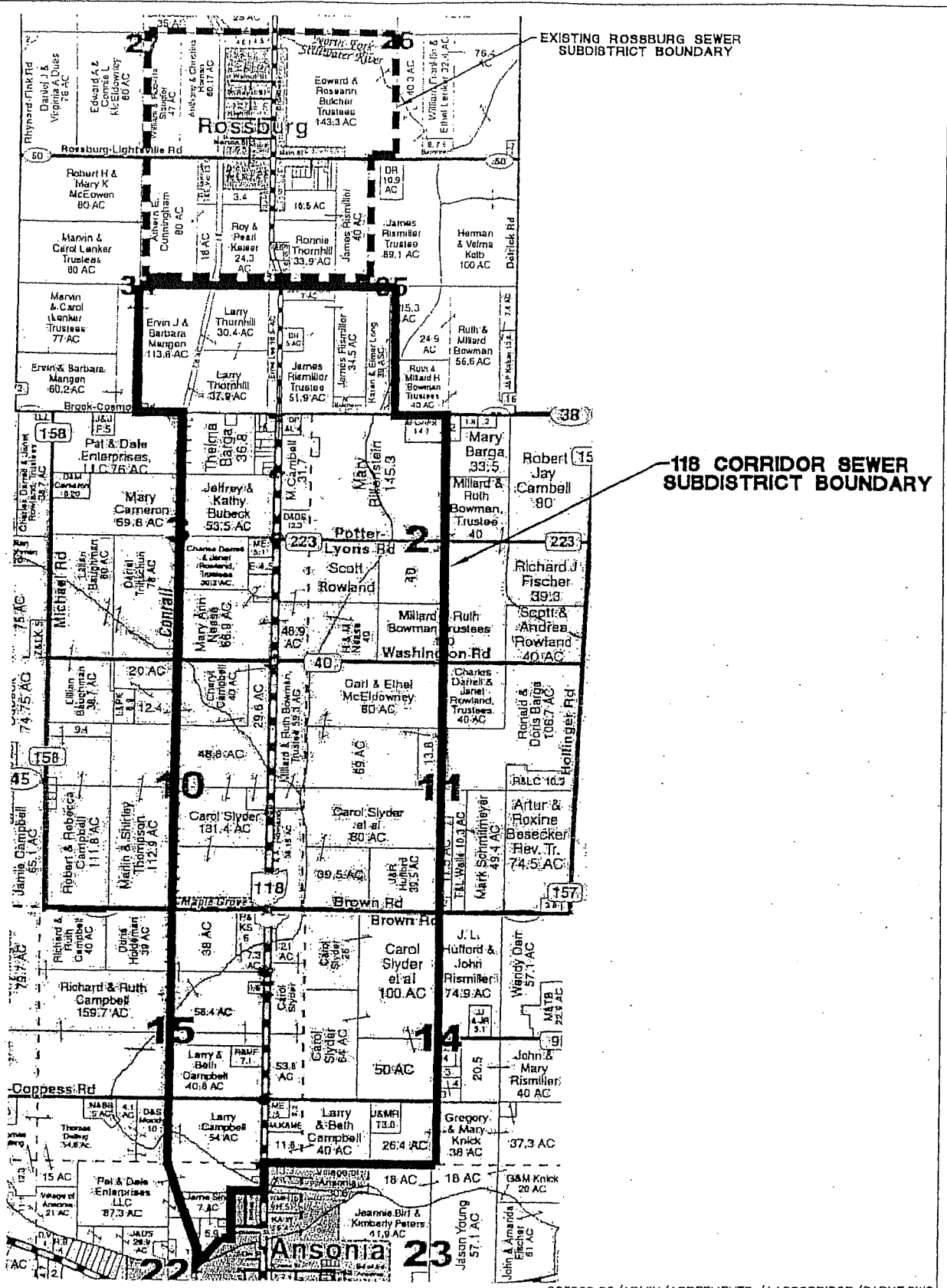
DRAWING	<b>EXHIBIT "A"</b>		DRAWN BY	PROJECT
			BMM	
			DATE	
			SEPT. 1, 2004	
		COMM. NO.		
		203869.00	<b>ROSSBURG SEWER DISTRICT</b> <b>DARKE COUNTY, OHIO</b>	
		© 2005 FANNING/HOWEY ASSOC., INC.		

**FANNING HOWEY**  
CIVIL ENGINEERING DIVISION

EXHIBIT "A"

Roszburg Sewer System Boundary

Commencing at the Center of Section 27, Township 14, Range 2 East, Darke County, Ohio, said point being the TRUE POINT OF BEGINNING; Thence East along the quarter section line of Section 27 and Section 26 to the center of Section 26 to a point; Thence south along the quarter section line of Section 26, extending to the south section line of Section 26 and approximate centerline of Roszburg-Lightsville Road to a point; Thence west along the south line of Section 26 and approximate centerline of Roszburg-Lightsville Road to the northeast corner of a 40 acre tract of land as recorded in O.R. 267, Page 528 to a point; Thence South along a line that is parallel to the west line of Section 35, extending to the quarter section line of Section 35 to a point; Thence west along the quarter section line of Section 35 and Section 34 to the center of Section 34 to a point; Thence north along the quarter section line of Section 34 and Section 27 to the TRUE POINT OF BEGINNING.



EXISTING ROSSBURG SEWER SUBDISTRICT BOUNDARY

118 CORRIDOR SEWER SUBDISTRICT BOUNDARY

203869.00/ADMIN/AGREEMENTS/118CORRIDOR/DARKE.DWG

DRAWING

EXHIBIT "A"

DRAWN BY

PROJECT

DEW

DATE

AUG 08, 2006

COMM. NO.

203869.00

DARKE COUNTY  
118 CORRIDOR  
SANITARY SEWER SUBDISTRICT

© 2006 FANNING/HOWEY ASSOC., INC.

**FANNING HOWEY**  
CIVIL ENGINEERING DIVISION

## EXHIBIT "B"

### 118 Corridor Sewer System Boundary

Commencing at the center of Section 34, Township 14, Range 2 East, Darke County, Ohio, said point being the TRUE POINT OF BEGINNING; Thence east along the east-west quarter section line of Section 34 and Section 35 to the center of Section 35 to a point; Thence south along the north-south quarter section line of Section 35 to the north line of Section 2, Township 13, Range 2 East and approximate center line Brock Cosmos Road to a point; Thence east along the north line of Section 2 and the approximate center line of Brock-Cosmo Road to the north-south quarter section line of Section 2 to a point; Thence south along north-south quarter section line of Section 2, Section 11 and Section 14 to the south quarter post of Section 14 to a point; Thence west along the south line of Section 14 to the northeast corner of the Village of Ansonia corporation limits, as it now exists, to a point; Thence continuing along said corporation limits, as it now exists, to the intersection of the abandoned Conrail Railroad Tracks to a point; Thence following said abandoned Conrail Railroad Tracks in a general northwesterly direction to the intersection of the south line of Section 15 to a point; Thence north along the north-south quarter section line of Section 15, Section 10, and Section 3 to the north quarter post of Section 3 and approximate centerline of Brock-Cosmos Road to a point; Thence west along the south line of Section 34, Township 14, Range 2 East, Darke County, Ohio and the approximate centerline of Brock-Cosmo Road to the north-south quarter section line of Section 34 to a point; Thence north along the north-south quarter section line of Section 34 to the center of Section 34 to the TRUE POINT OF BEGINNING.

Online Survey Responses, as of 12/09/2010

SurveyId	Date	NPDESPermitNumber	FacilityName	Owner	OperatorManager	TreatmentFacilityBuildDate	UpgradesExpansions
1	10/18/2010 14:18	1PD00002*KD	Fairborn Water Reclamation Center	City of Fairborn	Anthony M. Branham	1958: Trickling filter (3)/anaerobic digestion (2)/sludge drying beds (24).	Sewer to transport sewage from south Fairborn to the treatment plant. 1974: Added a
2	10/19/2010 11:30	1PD00005*LD	Greenville WWTP	City of Greenville	A. Vaughn Downey Jr. / Superintendent		1935 Modifications in 1967, 1986-1989, 1993, and 1996.
3	10/25/2010 10:36	1PB00021*ID	VILLAGE OF NEW LEBANON	VILLAGE OF NEW LEBANON	MATTHEW FRALEY		1953 CAPACITY INCREASED TO 0.373 MGD, 1987 PLANT EXPANSION, CAPACITY INCREASED TO
4	10/25/2010 10:55	1PD00015*KD	Ford Road WWTP	City of Xenia	Supervisor		1970 Conversion
5	10/25/2010 11:11	1PD00016*LD	Glady Run WWTP	City of Xenia	Supervisor		1955 Disinfection
6	10/26/2010 11:39	1PA00017*DD	New Madison S.T.P.	Village of New Madison	Rick Snyder		2003 no
7	10/29/2010 12:10	1PD00008*QD	City of Piqua Wastewater Treatment Plant	City of Piqua	David Davis	1957-58	Yes. 1969- added One Final Settling Tank, Chlorination Facility and Contact Tank and an Aerobic Digester. 1984- Modifications to the Anerobic Digester, Gas Handling System and
9	11/1/2010 8:23	1PB00015*FD	Village of Jamestown Wastewater Treatment Plant	Village of Jamestown	Village of Jamestown		2003 Plant was upgraded and expanded. Work completed and plant on line October, 2003.
10	11/1/2010 11:34	5700203	Brookville wastewater treatment facility	City of Brookville	Ronald A Brandt		1964 reactor system, plus added capacity.
11	11/3/2010 11:08	1PB000019*JD	Lewisburg WWTP	Village of Lewisburg	Jeffrey A. Sewert, Municipal Manager		1964 Yes. 1985 To meet the federal clean water act.
12	11/4/2010 12:41	1PD00019KD	City of Troy Wastewater Treatment Facility	City of Troy	City of Troy		1974 1995 2000
13	11/5/2010 5:51	1PC00001*KD	Eaton WWTP	City of Eaton	Bradley K Collins	1983 last upgrade	No
14	11/15/2010 11:24	1PD00017*KD	City of Miamisburg Water Reclamation Facility	City of Miamisburg	City of Miamisburg		1969 1980s - primary clarifiers, aeration tank, secondary clarifiers, chlorine tank, thickener tank
15	11/17/2010 8:07	1PJ00009*GD	Lakengren Water Authority WWTP	Lakengren Water Authority	Gary Wagner	1974-75	Micro Screen Process Eliminated & UV Disinfection Installed - 1995
16	11/18/2010 12:05	OH0020770	(WWTP) Farmersville Wastewater Treatment Plant	Village of Farmersville	Jonathan Moore	First Built in 1960's	Yes, The plant was upgraded in 1993 with a new clarifier, new 100,000 gal sludge tank and new contact tank.
17	11/22/2010 18:06	1PA00027*BD	Village of Verona WWTP	Village of Verona	Gary Wagner		2007 No
18	11/26/2010 10:52	1PB00041*GD	Village of Gratis WWTP	Village of Gratis	Gary Wagner		1981 No
19	12/2/2010 8:59	1PL00001*MD	Easern Regional WRF	Montgomery County, Ohio	Mark Livengood	1948/1988	Last Upgrade for Capacity 1988
20	12/2/2010 9:13	1PL00002*MD	Western Regional WRF	Montgomery County, Ohio	Mark Livengood		1978 No
23	12/8/2010 10:08	1PD00005*LD	Greenville WWTP	City of Greenville	A. Vaughn Downey Jr. / Superintendent		1935 Modifications in 1967, 1986-1989, 1996



Online Survey Responses, as of 12/09/2010

FacilityName	ProposedUpgradesExpansions	ServedJurisdictions	ServiceAreaBoundary	ServedAreas	UnseweredAreas	Revisions201Plan
Fairborn Water Reclamation Center	increase pumping capacity to at least 16.8 MGD and upgrade the force	City of Fairborn, Wright State University, parts of Bath Township, parts of Wright-Patterson AFB.	Fairborn_FPA_2.pdf	sso_report_for_2009.pdf	No.	County.
Greenville WWTP	Feed System, Effluent Pumping, Electrical, Scada. Construction starting	City of Greenville Corp.			with home septic systems.	N/A
VILLAGE OF NEW LEBANON	NONE	VILLAGE OF NEW LEBANON			NO	NONE
Ford Road WWTP	2012-Structural Rehabilitation and Phosphorus Precipitating System	Xenia Urban Service Area and various surrounding areas in Xenia Township			Yes at various unsewered locations	No
Glady Run WWTP	System	Southern region of Urban Service Area and various surrounding areas in Xenia Township			Yes at various unsewered locations	INA
New Madison S.T.P.	no	Within Village Of New Madison			live outside of corp. but if water	no
City of Piqua Wastewater Treatment Plant	We are looking at doing a update to the Collection and Plant Master Plants and those documents will have those issues covered.	City of Piqua Miami County-Contracts			Yes, Country Meadows Cl... hiums, state Route 185 and Bennet Drive, in Miami	No.
Village of Jamestown Wastewater Treatment Plant	No proposed expansions.	Village of Jamestown			no	no
Brookville wastewater treatment facility	not currently	City Of Brookville			no	not that i'm aware of.
Lewisburg WWTP	Yes. 2012 at a cost of 1.2 million dollars	Village of Lewisburg			No	N/A
City of Troy Wastewater Treatment Facility	No	City of Troy Portions of Miami County including Concord Township and Casstown			Yes there are some spot houses in t... that do not have sewer, but the City does	No
Eaton WWTP	No	City of Eaton			Producers Livestock 617 S. Franklin	The Facility Planning Area Boundary Map will be updated and sent to MVRPC November 2010.
City of Miamisburg Water Reclamation Facility	Phase 1 - anticipated start 2014 - \$5M. Phase II - anticipated start 2017 - \$6.6 M	Miamisburg and very small portion of Miami Township			none known	no
Lakengren Water Authority WWTP	No	Gaspar Township - Lakengren Subdivision			No	No
(WWTP) Farmersville Wastewater Treatment Plant	none	Farmersville			none	none
Village of Verona WWTP	No	Village of Vverona			NA	No
Village of Gratis WWTP	No	Village of Gratis			No	No
Easern Regional WRF	No	Kettering - Part Dayton - Part Greene Co. - Part			Montgomery Co. has data.	No
Western Regional WRF	No	Part Centerville - Part Oakwood -Part Jefferson Twp - Part Dayton - Part			Montgomery County has this data.	No
Greenville WWTP	WWTP Upgrades, estimated start construction Fall 2011, \$4.15 Million	N/A			N/A	

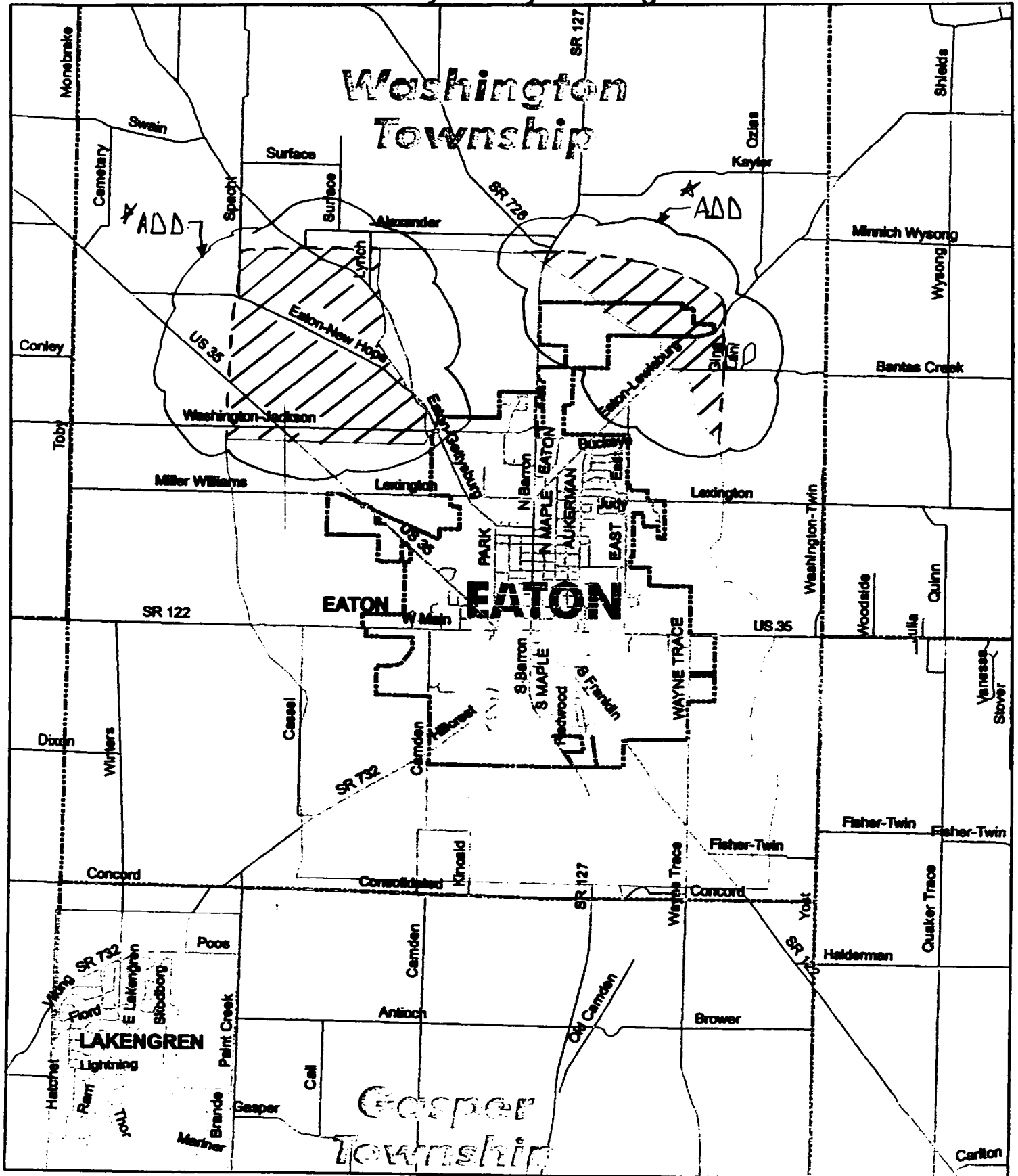
Online Survey Responses, as of 12/09/2010

FacilityName	FacilityTreatmentProcess	CurrentAvgDailyFlow	DesignAvgDailyFlow	MaxAllowableFlow	WetWeatherBypassFacilities	SSOBaseamentWaterLocations	NOVs	CertifiedPlantOperator	ServiceAgreements
Fairborn Water Reclamation Center	stage Bardenpho process), aerobic digestion, landfill dewatered	4.2 MGD (2009)	6.0 MGD	16.0 MGD	No.	See attached excerpt from Annual Sanitary Sewer Overflow Report.	No.	Yes	None.
Greenville WWTP	Activated Sludge Wastewater Treatment Process	2.2	3.5	6	(equalization tanks) Total capacity 66		No	Yes	N/A
VILLAGE OF NEW LEBANON	COARSE BAR SCREEN THEN PASSES THROUGH FINE SCREENS,	0.3	0.8	NA	CAPACITY IS LOCATED ADJACENT TO		NA	YES	NONE
Ford Road WWTP	Anaerobic/Oxic Process (BNR), UV Disinfection	2.27	4	12	No	majority of N West St. This main flows into the Towler Road trunk. Plan are in	No	Yes	Central State University
Glady Run WWTP	University of Capetown BNR Process, UV Disinfection	1.79	4	12	No		No	Yes	NA
New Madison S.T.P.	disenfeton, post Aeration	0.068	0.13	0.26	no		no	yes	Frech's Cleaning Services Culy Construction Hollangers Excavating
City of Piqua Wastewater Treatment Plant	Activated Sludge Treatment Process with Chlorine Disinfection and Class B Biosolids Disposal.	3.47	4.5	8	Storage - A 1.0 MG EQ Basin for the Miami River Interceptor. North of the	SO's - on the West side of the Miami River, North of the Treatment Plant.	No.	Yes	Miami County - Monnin Estates, Villages and Greens of Springcreek & Piqua Country Club Miami County - Village of Fletcher
Village of Jamestown Wastewater Treatment Plant	Oxidation ditch	0.33	0.9	4	Currently 2 bypasses exist that overflow into Caesars Creek. These will be removed		no	yes	We treat the sewage pumped to us by Greene Co. that comes from the Shawnee Hills community.
Brookville wastewater treatment facility	activated sludge vertical loop reactor	0.65	1.2	3	no		no	yes	none
Lewisburg WWTP	Secondary treatment	0.1	0.261	unknown	No		No	Yes	N/A
City of Troy Wastewater Treatment Facility	Activated Sludge	3.8	9.8	19.6	Yes at the WWTP		No	Tim Snider	Agreements exist with Miami County
Eaton WWTP	Secondary Activated Sludge with Tertiary Filtration Treatment	1.4	1.9	1.9	No		No	Yes	N/A
City of Miamisburg Water Reclamation Facility	Activated Sludge	2.52	4	15.0 peak hourly	Blending line allows blending of primary clarifier effluent with secondary clarifier	Historical SSO locations - Hillview Ave, Second St at Lock Ave - Canal, Ol at Lock Ave, Riverview at Linden Historical WIBs locations w, S. Fifth St,	no	yes	Montgomery County
Lakengren Water Authority WWTP	2 Stage Secondary with UV Disinfection	0.3	0.6	NA	Yes, 0.900 MG Basin at WWTP	to Lake Lakengren on W Lakengren Dr. LS#2 - Overflow to Lake Lakengren on E	No	Yes	Sanitary Landfill. We have agreed to service a small residential
(WWTP) Farmersville Wastewater Treatment Plant	aerated sludge	0.11	225	250	yes- storage facilities at plant		no	Yes	none
Village of Verona WWTP	Disinfection	0.03	0.085	NA	EQ tank for flow equalization at WWTP		No	Yes	NA
Village of Gratis WWTP	4-Lagoon System Disinfection Post Aeration	0.083	0.119	NA	No	SSO - Manhole @ Main Lift Station	Yes (NOVs)	Yes	No
Easern Regional WRF	Primary/Secondary	7.69 mgd (2009)	13 mgd	26 mgd	No		No	Yes	City of Kettering and Greene County
Western Regional WRF	Prinmary/Tertiary	14.10 mgd	20 mgd	50 mgd	No		No	Yes	Will provide Via e-mail
Greenville WWTP	Advanced Secondary Treatment, extended aeration	2.1	3.5	6	capacity is 666,000 gallons North of Admin		No	Yes	

Online Survey Responses, as of 12/09/2010

FacilityName	AcceptSeptage	Customer1	Customer2	Customer3	Customer4	Customer5
Fairborn Water Reclamation Center	No	Wright State University	Wright-Patterson AFB	Covenant Center of Ohio	(Others are too close together to differentiate)	NA
Greenville WWTP	No	Andersons Ethanol	Whirlpool Corp.	Jafe Decorating	N/A	N/A
VILLAGE OF NEW LEBANON	NO	HARBORSIDE NURSING HOME	A1 LAUNDROMAT	CHILDRENS ADOLESCENT CENTER	HIGH SCHOOL	ELEMENTARY SCHOOL
Ford Road WWTP	No	Central State University	Greene Memorial Hospital	Greene County Adult Jail	Kinsey Greene Apartments	CIL
Glady Run WWTP	No	Twist, Inc.	Bob Evans Farms	Bob Evans Farms	CMS, Inc.	Forest City Mgt
New Madison S.T.P.	yes	Tri-Village School 4,166 GPD	Florida Production Engineering 4,155 GPD	New Madison Laundrymat 977 GPD	New Madison Carwash 522 GPD	Ft. Black Buffet 433 GPD
City of Piqua Wastewater Treatment Plant	No	Hartzell Industries	Hartzell Propeller	Jackson Tube	Polysource Inc.	Joint Hospital Services
Village of Jamestown Wastewater Treatment Plant	no	Shawnee Hills	Liberty Nursing Home	Twist Manufacturing	Greeneview Schools	Jamestown Place
Brookville wastewater treatment facility	no	Brookhaven nursing & care center	Green Tokai co. LTD.	McMakens Car Wash	McMakens Laundromat	Holiday Inn Express
Lewisburg WWTP	No	Parker Hannifin	Lewisburg Container	Tri-County North School	D M Tool	Gurney's Fulfillment Center
City of Troy Wastewater Treatment Facility	No	Conagra	Miami County	Peak Foods	Hobart Brothers	Hobart Corp
Eaton WWTP	No	Silfex 950 S. Franklin	Parker Hannifin 725 N. Beech	Heartland 515 S. Maple	Greenbriar 501 W. Lexington	International Paper 900 Richmond Pike
City of Miamisburg Water Reclamation Facility	no	Sycamore Medical Center	HCR - Manor Care	Jozabe Investments Car Wash	Ideal Mobile Homes	Sycamore Glen Health Center
Lakengren Water Authority WWTP	No	Farmers Market	Lakengren Lodge	Gasper Township Fire Dept.	LWA WWTP	LWA WTP
(WWTP) Farmersville Wastewater Treatment Plant	No	Farmersville Elementary School	Valley View High School	Residence	Residence	Residence
Village of Verona WWTP	No	No Metering. All residential	same	same	same	same
Village of Gratis WWTP	No	Home 4, Community Concepts - High Street	Home 5, Community Concepts - High Street	Apartment Complex - ST. Rt. 122/Franklin St.	WWTP - Enterprise Rd.	Eagles - St. Rt. 122/Harrison Street
Easern Regional WRF	No	Tennaco	Kodak	Tru-Fab	Reynolds & Reynolds	Kettering Schools
Western Regional WRF	Yes	Kettering Hospital	Southview Hospital	Clean Water Ltd	Vieola Technical	Waste Management
Greenville WWTP	No	Andersons Ethanol	Whirlpool Corp.	Jafe Decorating	N/A	N/A

# Preble County Facility Planning Areas



\* ADDITIONAL AREA TO BE ADDED