

Kentucky Wastewater Management Plan

Kentucky Infrastructure Authority

Water Resource Information System

February, 2015

Kentucky Infrastructure Authority
Office of the Governor

KENTUCKY INFRASTRUCTURE AUTHORITY

Steven L. Beshear
Governor

Capital Center Complex
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Frankfort, Kentucky 40601
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John E. Covington, III
Executive Director

February 5, 2015

Dear Governor Beshear and Members of the General Assembly:

Drinking water and wastewater infrastructure is vital to Kentucky's future. Adequate drinking water infrastructure is essential to providing clean, safe drinking water and protecting public health. Kentucky is blessed in both quantity and quality of beautiful lakes, rivers and streams. To protect these valuable natural resources, we must build and maintain the necessary wastewater infrastructure. Without both drinking water and wastewater infrastructure, our economic future and quality of life are at risk.

Kentucky has long recognized the need for adequate drinking water and wastewater infrastructure. In 2000, the Governor and General Assembly working together established a framework to plan for Kentucky's needs. Area Water Management Councils were created in each of Kentucky's Area Development Districts (ADDs), with the ADDs responsible for facilitating their meetings. The Councils are a forum for local utilities and local officials to discuss and identify each area's drinking water and wastewater needs. The Councils are tasked with reviewing and prioritizing needed projects based on local priorities.

For the Councils to successfully plan for the future, they must have information about the location and condition of existing infrastructure. The Kentucky Infrastructure Authority (KIA) was given the responsibility for maintaining and updating the Water Resource Information System (WRIS). The WRIS is a geo-database of existing infrastructure and of the projects reviewed by the Councils. The ADDs work with both the Councils and with every individual utility to gather information about each system, its existing infrastructure and its proposed projects through the creation of Project Profiles that address infrastructure needs. This document was created using the WRIS to identify and rank projects.

The WRIS facilitates a bottom up planning process and is truly a collaborative effort between the Councils, the ADDs and KIA. The information about Kentucky's drinking water and wastewater utilities, existing drinking water and wastewater infrastructure and the projects needed to maintain and improve the existing drinking water and wastewater infrastructure in the WRIS is an invaluable resource.

The Water Management Plan was developed from the project profiles of 2,089 drinking water projects with a total cost of $1,909,356,450 and 1,484 wastewater projects with a total cost of $2,026,556,842. The Water Management Plan identifies the needs and priorities of each planning council, the ranking process and the ranking of each council's projects.

KENTUCKY INFRASTRUCTURE AUTHORITY

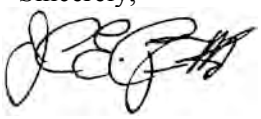
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Kentucky should be proud of the significant improvements we have made to our drinking water and wastewater infrastructure. However, as shown in the Water Management Plan, there is still significant work to be done to meet the growing drinking water and wastewater needs and to maintain our existing infrastructure. Kentucky has in place a planning process that identifies the most important projects from both a local and a regional perspective. This document identifies the drinking water and wastewater needs across the Commonwealth that are still to be met and the projects that will address those needs.

Sincerely,



John E. Covington, III
Executive Director

When you talk to us, you talk to all of Kentucky

KCADD

KY Council of Area Development Districts

501 Capital Avenue • Frankfort, Kentucky 40601 • Office 502.875.2515 • Fax 502.875.0946

January 22, 2015

Governor Beshear and Members of the General Assembly:

The Kentucky Area Development Districts (KADD), in conjunction with our local units of government, water and sewer systems, and the Kentucky Infrastructure Authority (KIA), are pleased to be a partner in providing the enclosed Infrastructure Assessment of providers and projects in our districts. Each Area Development District (ADD) collects and updates information in the Water Resource Information System (WRIS) that is critical to the planning process. The ADD's relationship with local utilities and elected officials give us the ability to successfully maintain the information in the WRIS, which was utilized to generate this report. This information is used by numerous agencies throughout the state, and provides much of the information needed for all aspects of water planning and emergency management decision-making.

This report demonstrates the importance of these projects to the viability of our communities, by providing detail as to the affected areas, services needed, residents/businesses impacted, funding requirements, and projected timeframes for completion. Not only have these projects been identified as important within each county, but they have also been reviewed and ranked as priority projects by each ADD Regional Water Management Planning Council. The prioritization process in each ADD is critical to making sure local governments and utilities are involved with and supportive of regional infrastructure planning.

Thank you for your continued interest and support of this process. We look forward to working with you and KIA to continue the planning and development of infrastructure projects within our communities. We hope you find this data helpful, and welcome your comments, suggestions and questions now and in the future.

Sincerely,

Jody Jenkins
Union County Judge/Executive
Chairperson
Kentucky Council of Area Development Districts

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Introduction

Over fifteen years ago, the Water Resource Development Commission was tasked by Governor Paul Patton to prepare a strategic plan for water-resource development in the Commonwealth of Kentucky. The intent of Governor Patton's Executive Order was to provide water and wastewater service to every Kentuckian by the year 2020. The original strategic plan for water developed by the WRDC in 1999 not only was a great barometer for the status of water services in the Commonwealth, but also provided recommendations to be carried out over the next twenty years. Similar in format, the strategic plan for wastewater followed in early 2000. Both plans focused on expanding and improving water and wastewater services to all citizens of Kentucky. Of the original 17 recommendations, a number have already been implemented; none more important than the expansion of the Water Resource Information System (WRIS) Portal.

The WRIS Portal has been developed through the cooperative efforts of water and wastewater treatment systems and local, regional, and state agencies. The WRIS Portal provides much of the information needed for all aspects of water and wastewater planning and emergency management decision making. The WRIS portal is designed to bring together information from a multitude of sources and display that information in one easy to use web application. The Portal is linked to databases at the Kentucky Division of Water, Kentucky Department for Environmental Protection, the Kentucky Department for Local Government, the Kentucky Public Service Commission, the Kentucky Department of Education, the Kentucky Department of Parks, KyWARN, and the Kentucky Infrastructure Authority (KIA).

Not only does the WRIS Portal contain valuable system information, but it also serves as the statewide registry for water and wastewater projects in the Commonwealth of Kentucky. Multiple funding sources require applicants to have a completed Project Profile within the WRIS including the Clean Water and Drinking Water State Revolving Fund (SRF), Community Development Block Grants (CDBG), Appalachian Regional Commission (ARC), Delta Regional Authority, State and Federal Line Item Grants, and Coal Severance Grants. The WRIS Project Profile is the project database that populates the e-Clearinghouse portal for review by all state agencies.

WRIS Portal information originating from KIA is maintained by the Kentucky Area Development Districts through system visits performed annually to each drinking water system and wastewater treatment system in the Commonwealth. In addition, the Kentucky Area Development Districts facilitate the Area Water Management Councils, encompassing the Commonwealth. These Area Water Management Councils meet quarterly and by statute assume the role and function of long range planning efforts for the Public Water and Wastewater Systems represented on the Council.

As we approach the year 2020, it is important to recognize the growth of public water and wastewater systems in the Commonwealth over the past several years. Our hope is that after reading through this report, the reader will recognize that the collaborative efforts of the above mentioned local, regional, and state agencies and public water and wastewater systems have begun the framework for continued growth of sustainable infrastructure throughout the Commonwealth of Kentucky.

Water Management Plan Data Sources

The information contained in this report was acquired from several sources: U.S. Census Bureau's 2010 Census Data, the Division of Water's Safe Drinking Water Information System (SDWIS), the Environmental Protection Agency's Integrated Compliance Information System (ICIS), and the Kentucky Infrastructure Authority's Water Resource Information System (WRIS) Project Profile and System Data. Most importantly, all of the system data and project information originated with the public water and wastewater systems within this report. The information is either self reported by the public water and wastewater systems to the Area Development District Water Management Planners in a semiannual system visit, or a spatial analysis of reported information by the Kentucky Infrastructure Authority's WRIS Team.

As with any report that aggregates, interpolates, and/or extrapolates information, inconsistencies in the data will arise. However, every effort has been made to minimize the amount of inconsistent data. Please find below the explanations for several of the data sources cited in this report.

Serviceability Index – The Serviceable Population and Percent Serviceable information found in State and County Summary pages is derived from a spatial analysis of mapped service lines of public water and wastewater systems and the census blocks from the U.S. Census Bureau. The census blocks are buffered by 250 feet in order to capture a service line that may be able to serve a portion of the census block.

A census block smaller than 10 acres is considered to be fully served if a service line falls within the census block or its buffer zone of 250 feet. If a census block is considered to be fully serviced, then 100% of the census block's population and household count is allocated to the public water or wastewater system that owns the service lines within the given census block.

For a census block larger than 10 acres, an analysis is conducted comparing the ratio of service lines to road centerlines within a given census block. Once the ratio of distribution service line to road centerline is calculated, the ratio is used to allocate a portion of the census block's population and household count to the public water or wastewater system that owns the servcie lines within the given census block. If the ratio exceeds 75% of service line to road centerline, the census block is considered to be fully serviced. For any ratio smaller than 75%, the ratio is used to allocate only a portion of the census block's population and household count to the public water or wastewater system that owns the service lines located within the census block.

Project Summary –A summary of a public water and wastewater system's projects is provided at the bottom of their System Summary page. Only projects that have been approved by the Area Water Management Council and are in need of funding have been annotated in the summary. For more information on a project, please visit www.wris.ky.gov.

Estimated Percentage Water Loss – The estimated percentage water loss for each system is provided in the system's summary. This figure is an estimate calculated by dividing the amount of water provided to their customers by the system's production and/or purchase values. This information is reported to the Water Management Planners at the ADD on an annual basis. For specific system data, please visit www.wris.ky.gov.

Kentucky

- 2010 census population of 4,339,367 (1,927,164 households) with 60% serviceable.
- Projected 2020 population of 4,672,754 (change of 333,387).
- 20,605 miles of existing sewer lines.
- 18 new sewage treatment plants proposed in the next 10 years.
- 1,886 miles of line extensions proposed in the next 10 years.
- 473 miles of line rehabilitation proposed in the next 10 years.
- 387 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,667,154,933.
- Estimated funding needs for projects from 6 to 10 years: $358,953,289.
- Average age of wastewater treatment plants is 30 years.
- Total number of interconnected systems is 44.
- 2,805 miles of sewer lines less than 15 years old.
- 4,270 miles of sewer lines between 15 and 30 years old.
- 4,698 miles of sewer lines between 31 and 50 years old.
- 3,116 miles of sewer lines between 51 and 70 years old.
- 2,096 miles of sewer lines greater than 70 years old.



Area Development District Demographic and Asset Condition Summary

Area Development District	2010 Population	2020 Population	Serviceable Population	Percent Serviceable	Planned Cost 0 to 10 Years
Bluegrass Area Development District	770,404	862,521	564,643	74%	$ 527,768,272
Barren River Area Development District	284,195	316,297	125,381	44%	$ 157,080,844
Big Sandy Area Development District	154,093	148,051	34,522	23%	$ 154,775,139
Buffalo Trace Area Development District	56,478	58,306	17,490	33%	$ 41,415,000
Cumberland Valley Area Development District	236,618	237,501	77,073	33%	$ 216,424,730
Five County Area Development District	137,884	139,098	71,309	53%	$ 121,296,445
Green River Area Development District	213,472	220,544	134,126	64%	$ 83,254,067
Gateway Area Development District	81,652	87,651	35,950	41%	$ 19,437,003
Kentuckiana Regional Planning and Development Agency	959,091	1,058,343	826,294	88%	$ 168,017,038
Kentucky River Area Development District	114,762	111,267	25,857	22%	$ 67,460,494
Lake Cumberland Area Development District	207,256	221,481	55,729	26%	$ 89,102,151
Lincoln Trail Area Development District	269,117	295,040	76,696	29%	$ 88,874,178
Northern Kentucky Area Development District	438,647	488,377	354,423	81%	$ 46,972,001
Pennyrile Area Development District	219,305	226,580	109,132	51%	$ 126,921,430
Purchase Area Development District	196,393	201,697	95,315	49%	$ 117,309,430
Demographic Totals	**4,339,367**	**4,672,754**	**2,603,940**	**60%**	**$ 2,026,108,222**

Area Development District	Average WWTP Age (yrs)	KISOPs	Lines < 15 yrs (mi)	Lines 15 to 30 yrs (mi)	Lines 31 to 50 yrs (mi)	Lines 51 to 70 yrs (mi)	Lines > 70 yrs (mi)
Bluegrass Area Development District	26	4	599	629	1,072	599	382
Barren River Area Development District	34	1	213	265	430	60	8
Big Sandy Area Development District	20	1	124	161	17	48	0
Buffalo Trace Area Development District	30	1	71	25	78	39	0
Cumberland Valley Area Development District	32	2	165	115	235	140	38
Five County Area Development District	35	8	58	367	77	74	6
Green River Area Development District	38	7	186	196	284	146	209
Gateway Area Development District	23	0	63	204	70	22	0
Kentuckiana Regional Planning and Development Agency	35	1	592	1,136	1,022	664	511
Kentucky River Area Development District	24	1	103	53	101	1	0
Lake Cumberland Area Development District	23	3	135	117	170	37	80
Lincoln Trail Area Development District	31	3	138	148	103	332	6
Northern Kentucky Area Development District	21	3	121	692	682	393	210
Pennyrile Area Development District	37	7	135	129	159	198	402
Purchase Area Development District	30	2	102	33	198	363	244
Asset Condition Averages and Totals:	**30**	**44**	**2,805**	**4,270**	**4,698**	**3,116**	**2,096**

Percent of Households Serviceable by Public Wastewater Systems in 2010

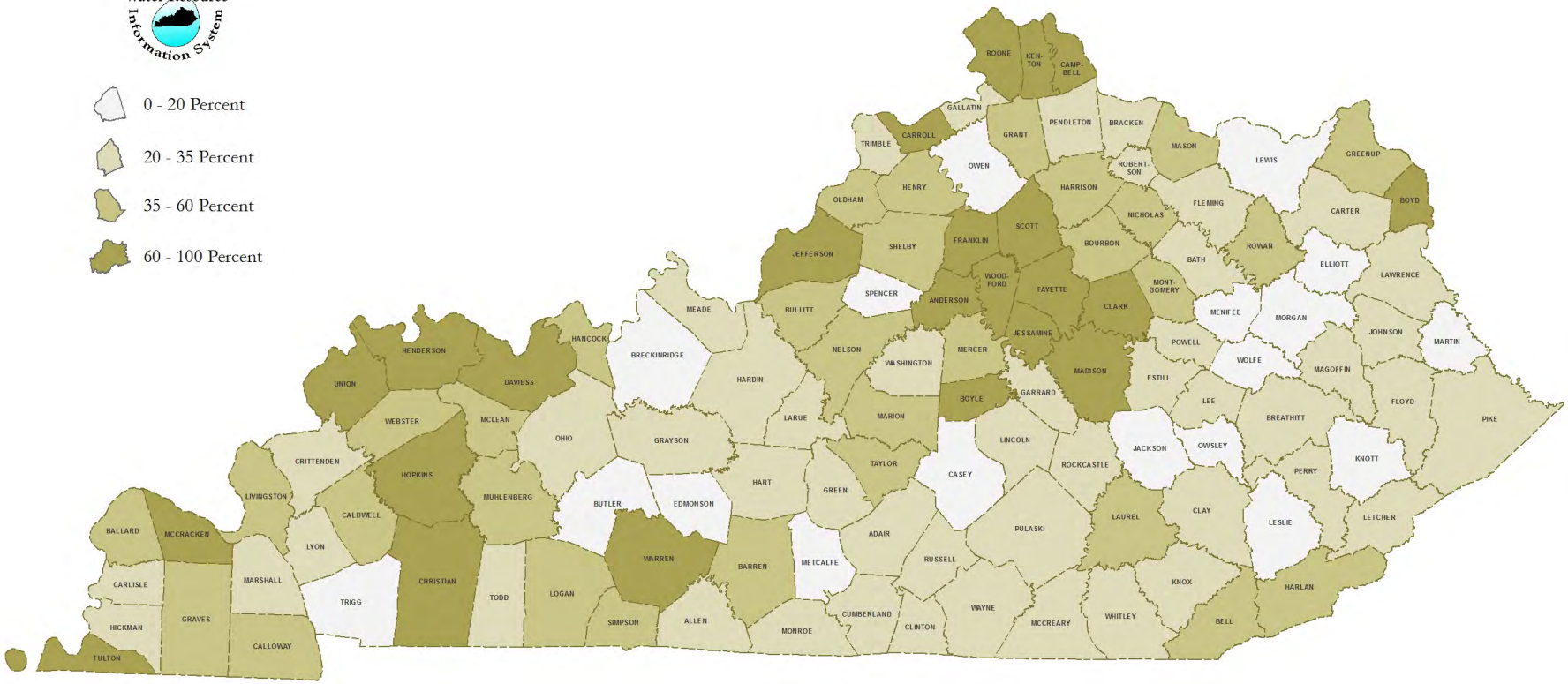
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February, 2015

Water Resource Information System

- 0 - 20 Percent
- 20 - 35 Percent
- 35 - 60 Percent
- 60 - 100 Percent



Percent Increase in Households Serviceable by Public Wastewater Systems from 2000 to 2010

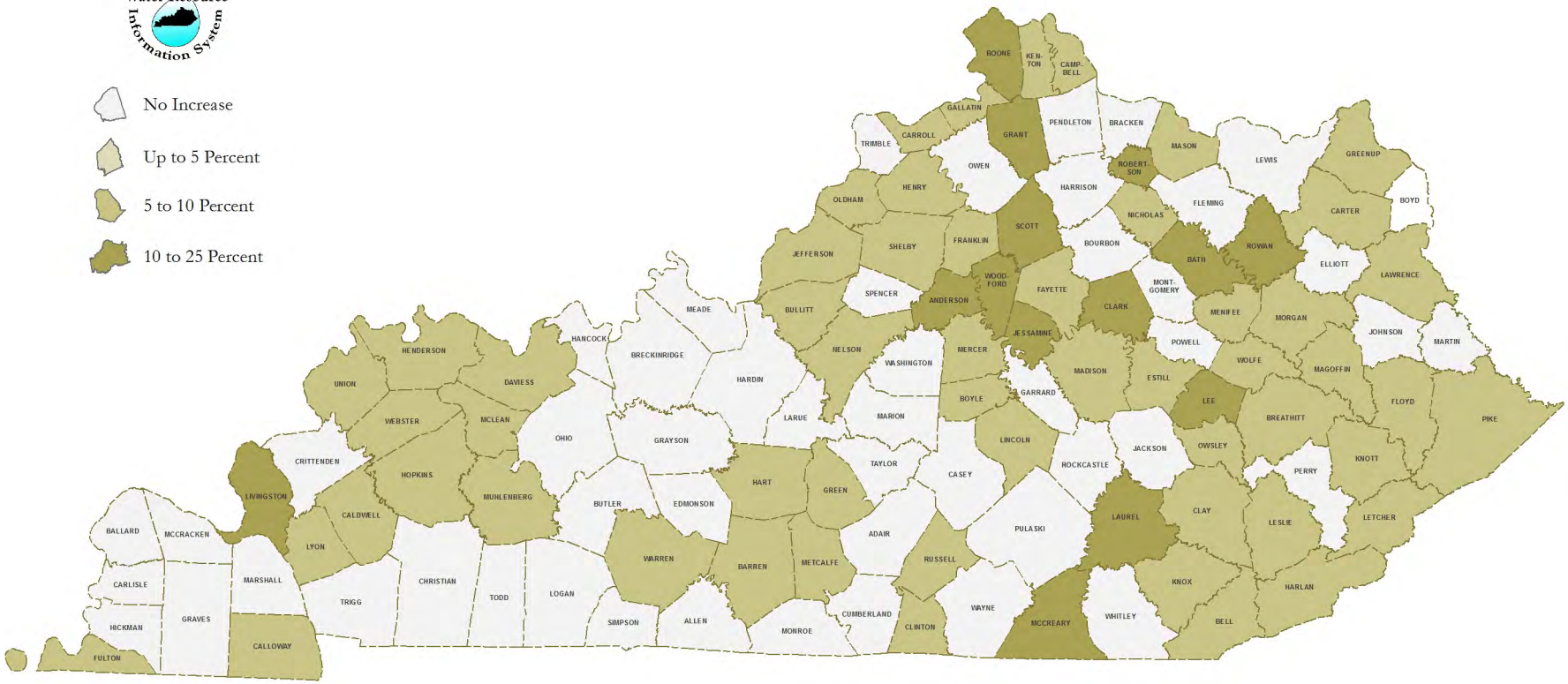
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February, 2015

Water Resource Information System

- No Increase
- Up to 5 Percent
- 5 to 10 Percent
- 10 to 25 Percent



Bluegrass Area Development District (BGADD)



- 2010 census population of 770,404 (340,939 households) with 74% serviceable.
- Projected 2020 population of 862,521 (change of 92,117).
- 3,281.79 miles of existing sewer lines.
- 279.00 miles of line extensions proposed in the next 10 years.
- 95.00 miles of line rehabilitation proposed in the next 10 years.
- 112.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $403,997,022.
- Estimated funding needs for projects from 6 to 10 years: $123,771,250.
- Average age of wastewater treatment plants is 26 years.
- Total number of interconnected systems is 4.
- 599 miles of sewer lines less than 15 years old.
- 629 miles of sewer lines between 15 and 30 years old.
- 1,072 miles of sewer lines between 31 and 50 years old.
- 599 miles of sewer lines between 51 and 70 years old.
- 382 miles of sewer lines greater than 70 years old.

Bluegrass Area Development District has a 2010 census population count of 770,404 (340,939 households) with a projected 2020 population count of 862,521 (355,488 households). Public sewer is currently available to approximately 74 percent of the district's households based on 2010 census counts. Over the next ten years approximately 8,051 serviceable households will be added through the construction of 279.00 miles of sewer line extensions and approximately 81,963 instances of improved service through the rehabilitation of 95.00 miles of existing sewer lines and other appurtenances. 112.00 miles of interceptor lines are also proposed within this district.

County Summary for Bluegrass Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Anderson	21,421	9,127	23,555	9,582	5,749	63%	$ 2,146,000
Bourbon	19,985	8,927	20,530	8,478	5,312	60%	$ 16,554,000
Boyle	28,432	12,312	29,048	11,782	8,643	70%	$ 19,045,625
Clark	35,613	15,706	37,985	15,800	11,106	71%	$ 34,588,250
Estill	14,672	6,865	14,359	6,115	2,217	32%	$ 47,573,000
Fayette	295,803	135,160	334,733	141,152	131,252	97%	$ 95,406,294
Franklin	49,285	23,164	50,777	21,761	17,084	74%	$ 36,009,880
Garrard	16,912	7,463	19,122	7,917	1,854	25%	$ 4,616,420
Harrison	18,846	8,208	19,640	8,006	3,186	39%	$ 8,280,650
Jessamine	48,586	19,331	58,928	22,184	14,439	75%	$ 95,167,722
Lincoln	24,742	10,819	26,170	10,762	2,691	25%	$ 16,215,420
Madison	82,916	35,043	95,333	38,093	21,955	63%	$ 71,643,854
Mercer	21,331	9,941	21,810	9,299	4,349	44%	$ 35,489,350
Nicholas	7,135	3,261	7,411	3,012	1,262	39%	$ 600,000
Powell	12,613	5,598	12,319	4,860	1,923	34%	$ 5,533,308
Scott	47,173	19,303	63,984	25,538	13,093	68%	$ 3,170,000
Woodford	24,939	10,711	26,817	11,147	7,309	68%	$ 35,728,499
Totals	**770,404**	**340,939**	**862,521**	**355,488**	**253,424**	**74%**	**$ 527,768,272**

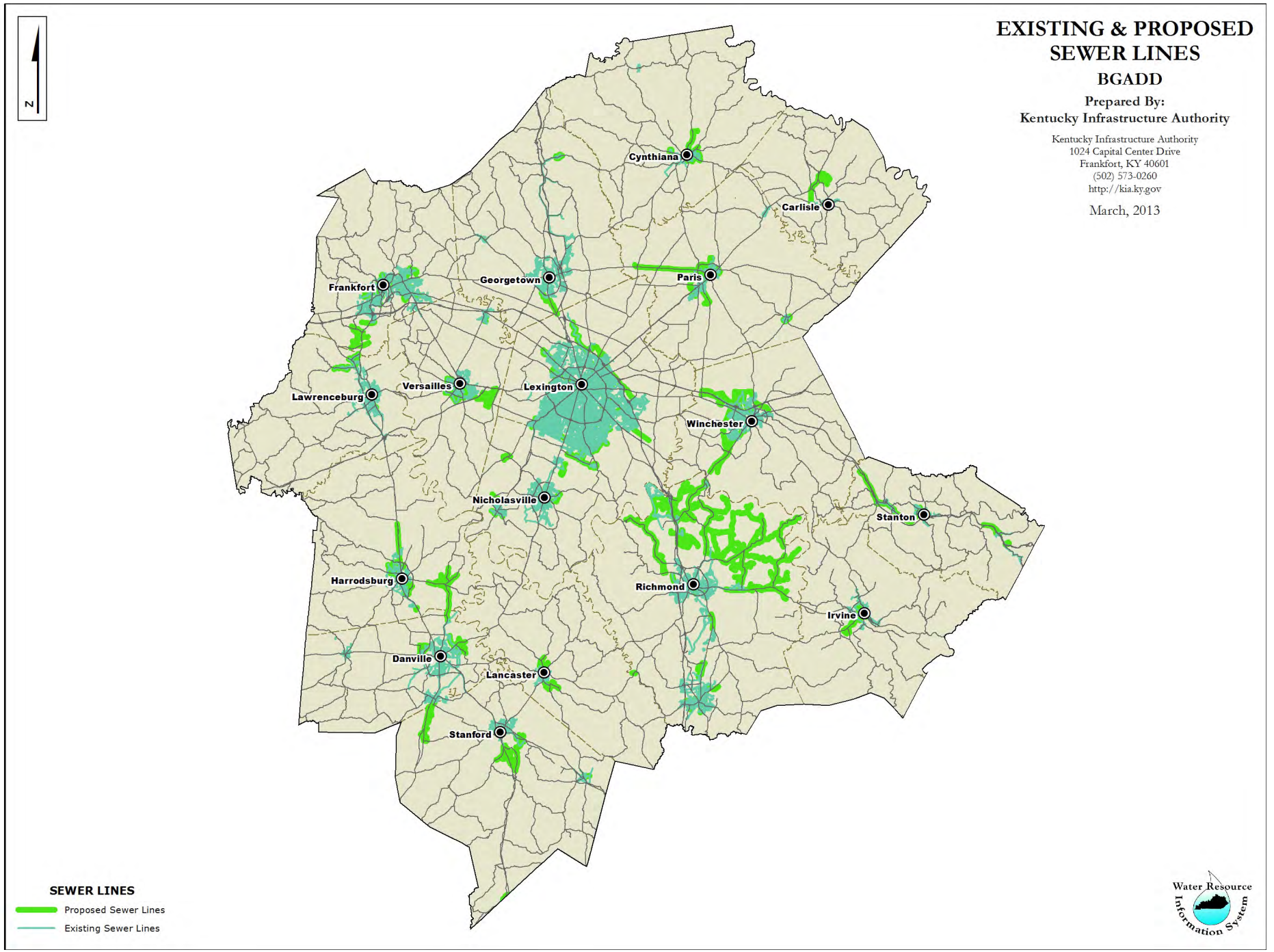
EXISTING & PROPOSED SEWER LINES

BGADD

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March, 2013



Public Sewer Systems in the Bluegrass Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021067	Lawrenceburg Water and Sewer	Anderson	13,344	5,749
KY0020940	Millersburg Sewer Department	Bourbon	831	430
KY0031836	North Middletown Sewer Treatment Plant	Bourbon	664	279
KY0090654	Paris Sewer Department	Bourbon	10,102	4,610
KY0028355	Danville - Perryville WWTP	Boyle	866	407
KY0057193	Danville Municipal Sewer System	Boyle	19,226	8,339
KY0037991	Winchester Municipal Utilities	Clark	25,141	11,106
KY0095940	Estill County Water District	Estill	778	365
KY0025909	Irvine Municipal Utilities	Estill	3,728	1,852
KY0021491	LFUCG - Town Branch	Fayette	121,836	54,556
KY0022861	Frankfort Sewer Department	Franklin	34,505	17,094
KY0020974	Lancaster Wastewater Treatment Plant and Sewer Department	Garrard	3,991	1,854
05011006	Berry Sewer System	Harrison	288	118
KY0076635	Cedarbrook Subdivision	Harrison	131	45
KY0105856	Cynthiana Sewer Department	Harrison	6,532	3,020
KYP000072	Jessamine South Elkhorn Water District	Jessamine	1,667	741
KY0021504	LFUCG - West Hickman	Jessamine	164,940	76,737
KY0100404	Nicholasville Sewer Department	Jessamine	29,008	11,814
KY0028428	Wilmore Sewer Department	Jessamine	5,243	1,843
KY0065897	Crab Orchard Sewer Department	Lincoln	894	446
KY0024619	Stanford Sewer Department	Lincoln	4,851	2,142
KY0079898	Berea Sewer Department	Madison	13,846	5,735
KY0102971	Northern Madison County Sanitation District - Battlefield Estates	Madison	1,313	563
KY0056561	Northern Madison County Sanitation District - Executive Park Subdivision	Madison	195	89
KYP000071	Northern Madison County Sanitation District - Greens Crossing	Madison	790	362
KY0105376	Northern Madison County Sanitation District - Regional Plant	Madison	2,662	1,028
KY0107107	Richmond Utilities - Otter Creek	Madison	31,848	13,957
KY0103357	Richmond Utilities - Silver Creek	Madison	378	215
KY0027421	Harrodsburg Sewer Department	Mercer	8,778	4,126
KYP000080	Mercer County Sanitation District	Mercer	402	211
KY0020923	Carlisle Sewer Department	Nicholas	2,253	1,148
KIA181001	Nicholas County Sanitation District #2	Nicholas	183	107
KYP000084	Clay City WWTP	Powell	1,210	584
KY0104078	Powells Valley Water District Sewer Division	Powell	71	59
KY0034428	Red River Wastewater Authority	Powell	2,921	1,280
KY0020150	GMWSS STP #1	Scott	28,330	11,731
KY0082007	GMWSS STP #2	Scott	2,712	1,001
KY0050512	GMWSS STP #3 - Stamping Ground	Scott	803	359
KY0028410	Midway Sewer Department	Woodford	1,723	752
KY0020621	Versailles Municipal Wastewater	Woodford	15,614	6,547
		Totals:	564,598	253,401

Bluegrass Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Extend Services to Unserved**
Secondary Need: **Repair and Replace Existing Infrastructure Areas**

Discussion of Area Development District Needs:

The Bluegrass Area Development District (BGADD) estimates that approximately 946 persons do not have access to a community water supply out of a 2010 population of 770,404 people. This is consistent with a water-unserved population of about 0.13 percent and a water-served population of about 99.87 percent. The high percentage of access to public water within the BGADD has resulted in an increased need to access to public sewer service. The highest ranking projects in many of the planning units (Lincoln County Phase 1 Sewer Project, Georgetown/Scott County South Sewer Extension, Wisemantown Sewer Extensions, etc.) recognized the need to extend service to previously unserved populations. Extending service to unserved populations will also have positive side effects on public health, the environment and compliance with the Clean Water Act.

The secondary need is to repair an replace existing infrastructure. As new infrastructure is constructed, old and failing septic systems, straight pipes, etc. can be replaced with new and more efficient equipment. Upgrading old and failing infrastructure will also help meet the needs of growing communities.

Description and Determination of Planning Units:

The seventeen counties within our district are split up into seven (7) groups of two (2) to three (3) counties. These counties are adjacent to each other and have the potential to work on regional projects together. The Planning Units are designated as follows:

Planning Unit 1 Meeting - Estill and Powell

Planning Unit 2 Meeting – Bourbon, Harrison and Nicholas

Planning Unit 3 Meeting – Boyle, Garrard and Lincoln

Planning Unit 4 Meeting – Anderson and Mercer

Planning Unit 5 Meeting – Franklin, Scott and Woodford

Planning Unit 6 Meeting – Fayette and Jessamine

Planning Unit 7 Meeting – Clark and Madison

Bluegrass Area Development District
Project Ranking Methodology

The Bluegrass Area Water Management Council examined the following criteria in the ranking of water and wastewater projects for 2014:

- the current and potential customer base that would benefit;
- adequacy of existing water/wastewater infrastructure;
- optimization of scarce resources, cost per customer, and ability to pay;
- the dependability of existing infrastructure to provide adequate service;
- avoidance of duplication of service;
- current user rates as compared to the median for the region;
- Median Household Income (MHI), and
- Project type such as construction, operation, and maintenance types of projects.

To that end, a scoring matrix was developed with an available score between zero and 20 for the following seven categories:

1. Project Type: More credit was given for construction projects as opposed to projects that could be categorized as routine maintenance or operation efforts that could perhaps be financed from local revenues derived from user charges.

2. Readiness: The more committed to a project a project sponsor appeared to be, the more credit the project would be received in this scoring category. If a project had final engineering plans and specifications complete and regulatory agency approval in hand, it would receive more credit. Projects with only rough conceptual ideas would receive fewer points.

3. Enforcement Actions: If a project was in response to a state or a federal regulatory agency's enforcement action, it would receive more points. If a project was developed in an attempt to prevent a regulatory agency's enforcement action, it could be highly scored also, but perhaps not so highly scored as a utility already under an enforcement action.

4. Cost Effectiveness: Factors to be considered under this category were income levels of project area residents, cost per customer, funding already in place (be it local or non-local), project viability, and existing rates being charged.

5. Regionalization: Projects in which inter-local cooperation could in some way be demonstrated would receive more consideration than projects that were simply local in nature. Regional projects in general, tend to promote efficiency and effectiveness in utility delivery service. The Council was looking to give a boost to projects which were, in small part or in large part, regional in nature. Projects exhibiting more regional thought were given an advantage as compared to projects exhibiting less regional thought.

6. Local Rankings: This measure played heavily in the regional ranking process. A project that was first-ranked at its local ranking would receive 20 points in this scoring category; a second-ranked project, 18 points; a third-ranked project, 16 points, etc, and finally, a tenth-ranked project, 2 points. Projects locally ranked with an eleventh or twelfth ranking or higher would receive no points in the regional ranking and scoring process.

7. Best of Type: For both water projects and for wastewater projects, the first and second ranked locally ranked projects were disaggregated from the others. As a maximum, this would have resulted in a pool of 34 (17 counties x 2 projects per county) water projects and a similar pool of 34 wastewater projects. The Executive Council reviewed the project descriptions and the likely financial scenarios and ranked thsse projects top to bottom. The top 15 water projects were determined. The highest scoring project got the full 20 points; the next highest ranked project got 19 points, etc.; the 15th ranked water project received 6 points. For projects

not in the top 15, no points were awarded in this Best of Type category. The same process was repeated for wastewater projects.

A given project, if top-ranked in every category, could score 140 points.

Executive Council recommendations to the full Bluegrass Water Management Council can be modified by the full Council.

Project Rankings For Bluegrass Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21209012	Georgetown/Scott County South Sewer Extension	0-2 Years	Partially Funded	$2,820,000	Scott	1	1
SX21049028	Hampton Manor Outfall Sewer	0-2 Years	Not Funded	$1,404,000	Clark	2	3
SX21067002	Expansion Area Three Sanitary Sewer Infrastructure	0-2 Years	Not Funded	$16,888,634	Fayette	3	1
SX21065002	Wisemantown Sewer Extensions	0-2 Years	Partially Funded	$3,500,000	Estill	4	1
SX21167021	MCSD - Kennedy Bridge Road Sanitary Sewer Improvements Project	0-2 Years	Not Funded	$460,075	Mercer	5	2
SX21067053	West Hickman Subbasin WH-7 WWS Tank	0-2 Years	Not Funded	$19,087,695	Fayette	6	4
SX21151045	Berea Gravity Sewer Rehabilitation	0-2 Years	Not Funded	$1,600,000	Madison	7	1
SX21073029	Phase I Collection System & 0.75 MGD WWTP	0-2 Years	Partially Funded	$9,500,000	Franklin	8	2
SX21097015	HCSD - Northside Sewer Extension and Cedarbrook Replacement Project	0-2 Years	Not Funded	$2,848,250	Harrison	9	1
SX21239010	Versailles Wastewater Treatment Plant Expansion	0-2 Years	Not Funded	$20,911,190	Woodford	10	4
SX21113027	Nicholasville - Orchard Parallel Sanitary Sewer Project	0-2 Years	Not Funded	$340,980	Jessamine	11	3
SX21137015	Stanford - US 27 South Sewer Expansion Project	0-2 Years	Not Funded	$5,326,420	Lincoln	12	3
SX21113026	Wilmore Wastewater Collection System Rehabilitation - Phase 2	0-2 Years	Not Funded	$530,000	Jessamine	13	2
SX21167003	Harrodsburg New Wastewater Treatment Plant	0-2 Years	Not Funded	$21,400,000	Mercer	14	6
SX21137019	Lincoln County Fiscal Court - Rowland Sanitary Sewer Extension	0-2 Years	Not Funded	$130,000	Lincoln	15	5
SX21167019	M C S D - Gwinn Island Road Sanitary Sewer Extension	0-2 Years	Not Funded	$838,625	Boyle	16	3
SX21167013	Harrodsburg - Corning-Industrial Pump Station and Force Main Sys	3-5 Years	Not Funded	$810,000	Mercer	17	4
SX21065008	Kelly Pump Station 6-Inch Force Main Replacement - Imu	0-2 Years	Not Funded	$250,000	Estill	18	2
SX21073062	Frankfort - WWTP Electrical Upgrade, Emergency Generator	0-2 Years	Not Funded	$1,320,000	Franklin	19	5
SX21017004	City of Paris - Claysville Trunk Sewer Replacement Project, Phase II	0-2 Years	Not Funded	$1,825,000	Bourbon	20	2
SX21137020	Crab Orchard UV Replacement	0-2 Years	Not Funded	$275,000	Lincoln	21	1
SX21017010	City of Paris-Southern Hills Sanitary Sewer Collection Project	3-5 Years	Not Funded	$1,820,000	Bourbon	22	5
SX21017013	City of Paris - Bedford Acres Sanitary Sewer Project Phase 2	0-2 Years	Not Funded	$1,850,000	Bourbon	23	4
SX21065007	Covey Road Sewer Extension - Irvine Municipal Utilities	0-2 Years	Not Funded	$201,000	Estill	24	4
SX21017009	Bourbon County Fiscal Court - Centerville Sewer Project	0-2 Years	Partially Funded	$2,500,000	Bourbon	25	6
SX21239003	Midway Brand Street Sewer Rehab Project	0-2 Years	Not Funded	$670,000	Woodford	26	3
SX21151039	NMCSD - Madison Village Collection System Rehab	0-2 Years	Not Funded	$1,275,000	Madison	27	4
SX21065006	Wall Street Sewer Extension - Irvine Municipal Utilities	0-2 Years	Not Funded	$309,000	Estill	28	3
SX21021015	East Danville/Horkey	3-5 Years	Not Funded	$350,000	Boyle	29	2
SX21005006	Lawrenceburg - Alton Vacuum Sewer System Replacement Phase 4	0-2 Years	Not Funded	$1,670,000	Anderson	30	1
SX21073063	Frankfort - Benson CSO Seperation Project	0-2 Years	Partially Funded	$1,058,000	Franklin	31	6
SX21017019	City of Paris - Pump Station Elimination and Rehabilitation	3-5 Years	Not Funded	$6,500,000	Bourbon	32	7
SX21079015	Lancaster Sewer Line Extension to Industrial Park	0-2 Years	Not Funded	$403,550	Garrard	33	6

Project Rankings For Bluegrass Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21167014	Harrodsburg - Cleaning and Rehabilitation of Sanitary Sewer Collector Lines	3-5 Years	Not Funded	$1,420,000	Mercer	34	12
SX21151048	Walnut Street Stormwater Improvement	0-2 Years	Not Funded	$1,800,000	Madison	35	2
SX21021004	Danville Major Sewer System Rehabilitation	3-5 Years	Not Funded	$1,740,000	Boyle	36	4
SX21079016	Lancaster Sewer Line Replacement	0-2 Years	Not Funded	$157,000	Garrard	37	7
SX21017015	City of Paris Rehab Sanitary Sewer Mains	0-2 Years	Not Funded	$250,000	Bourbon	38	3
			Total Cost:	**$136,039,419**			

Anderson County

- 2010 census population of 21,421 (9,127 households) with 63% serviceable.
- Projected 2020 population of 23,555 (change of 2,134).
- Anderson County has 107.40 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 6.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,146,000.
- There are no projects planned from 6 to 10 years.



Anderson County has a 2010 census population count of 21,421 (9,127 households) with a projected 2020 population count of 23,555 (9,582 households). Public sewer is currently available to approximately 63 percent of the county's households based on 2010 census counts. Over the next ten years approximately 336 instances of improved service through the rehabilitation of 6.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Lawrenceburg	2	$2,146,000	-	336	-	6.00	-
Totals:	**2**	**$2,146,000**	**-**	**336**	**-**	**6.00**	**-**

Public Wastewater Systems in Anderson County

Note: Serviceability counts are for households within Anderson county only.

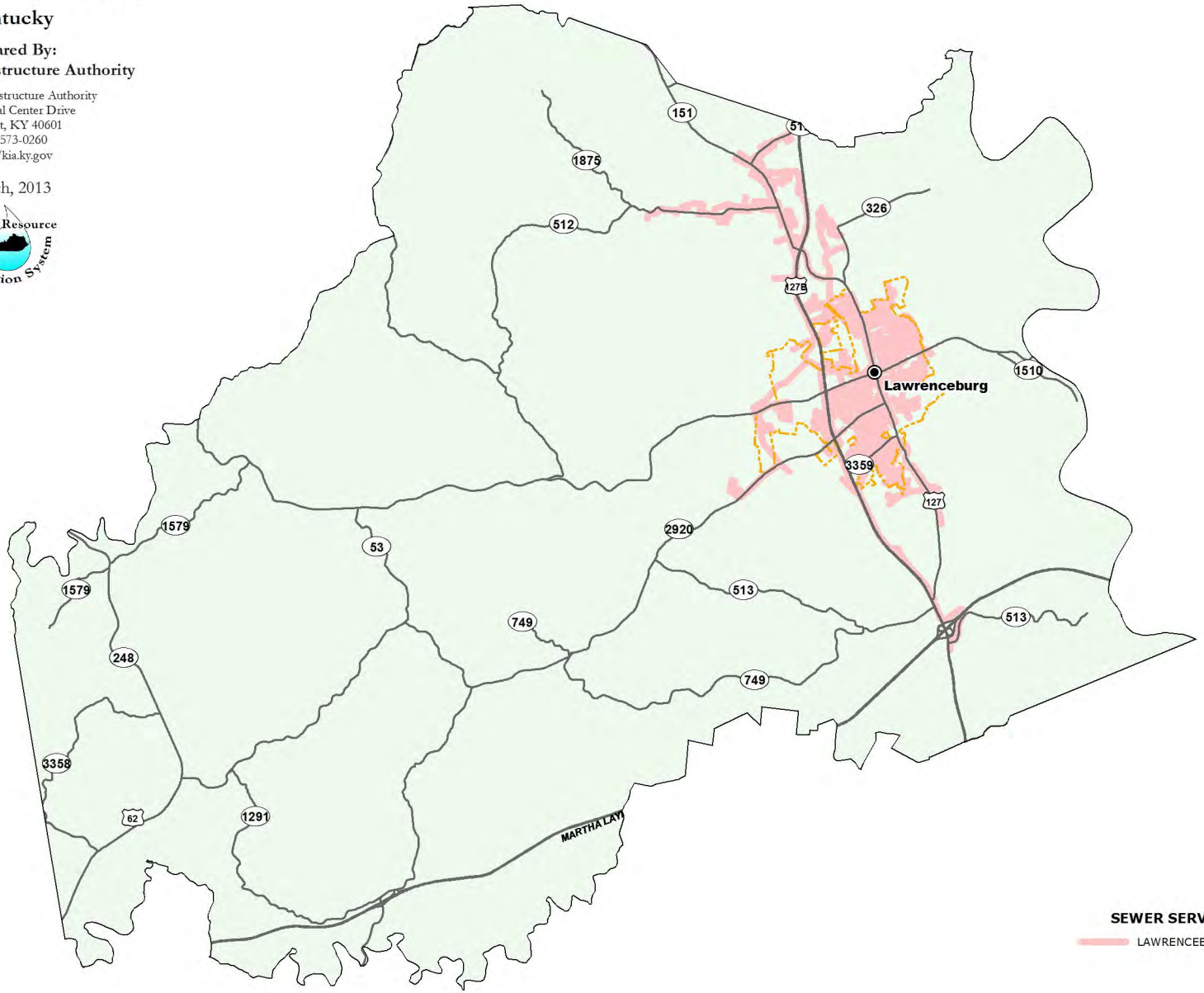
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021067	Lawrenceburg Water and Sewer	Anderson	13,344	5,749
		Totals:	13,344	5,749

SEWER SERVICE AREAS
ANDERSON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



System Summary for Lawrenceburg Water and Sewer

Permit ID	KY0021067	Treats Wastewater	Yes, 3.3 MGD with 1.5 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	6,815
Owner Type	Incorporated City	KISOP Sender	No
Employees	70	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$28.62	Total KISOP Treated (MG)	-
Residential Customers	6,570	Total Treated (MG)	801.540
Commercial Customers	240	Number of Manholes	850
Institutional Customers	-	Number of Lift Stations	52
Industrial Customers	5	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 30% Constructed
Total Collection System Line Length = 107.40 miles (Collection: 82.16 miles, Interceptors: 25.24 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lawrenceburg Water and Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21005006	Lawrenceburg - Alton Vacuum Sewer System Replacement Phase 4	0-2 Years	Not Funded	$1,670,000	Anderson	30	1
SX21005004	South Lawrenceburg Sewer System Evaluation & Renovation	3-5 Years	Not Funded	$476,000	Anderson		

Bourbon County

- 2010 census population of 19,985 (8,927 households) with 60% serviceable.
- Projected 2020 population of 20,530 (change of 545).
- Bourbon County has 71.76 miles of existing sewer lines.
- 13.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 13.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $16,554,000.
- There are no projects planned from 6 to 10 years.



Bourbon County has a 2010 census population count of 19,985 (8,927 households) with a projected 2020 population count of 20,530 (8,478 households). Public sewer is currently available to approximately 60 percent of the county's households based on 2010 census counts. Over the next ten years approximately 478 serviceable households will be added through the construction of 13.00 miles of sewer line extensions and approximately 4,320 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances. 13.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Bourbon County Fiscal Court	1	$2,500,000	130	-	9.00	-	-
City of Millersburg	1	$609,000	-	330	-	-	-
City of North Middletown	1	$300,000	-	-	-	-	-
City of Paris	6	$13,145,000	348	3,990	4.00	2.00	13.00
Totals:	**9**	**$16,554,000**	**478**	**4,320**	**13.00**	**2.00**	**13.00**

Public Wastewater Systems in Bourbon County

Note: Serviceability counts are for households within Bourbon county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020940	Millersburg Sewer Department	Bourbon	814	423
KY0031836	North Middletown Sewer Treatment Plant	Bourbon	664	279
KY0090654	Paris Sewer Department	Bourbon	10,102	4,610
		Totals:	11,580	5,312

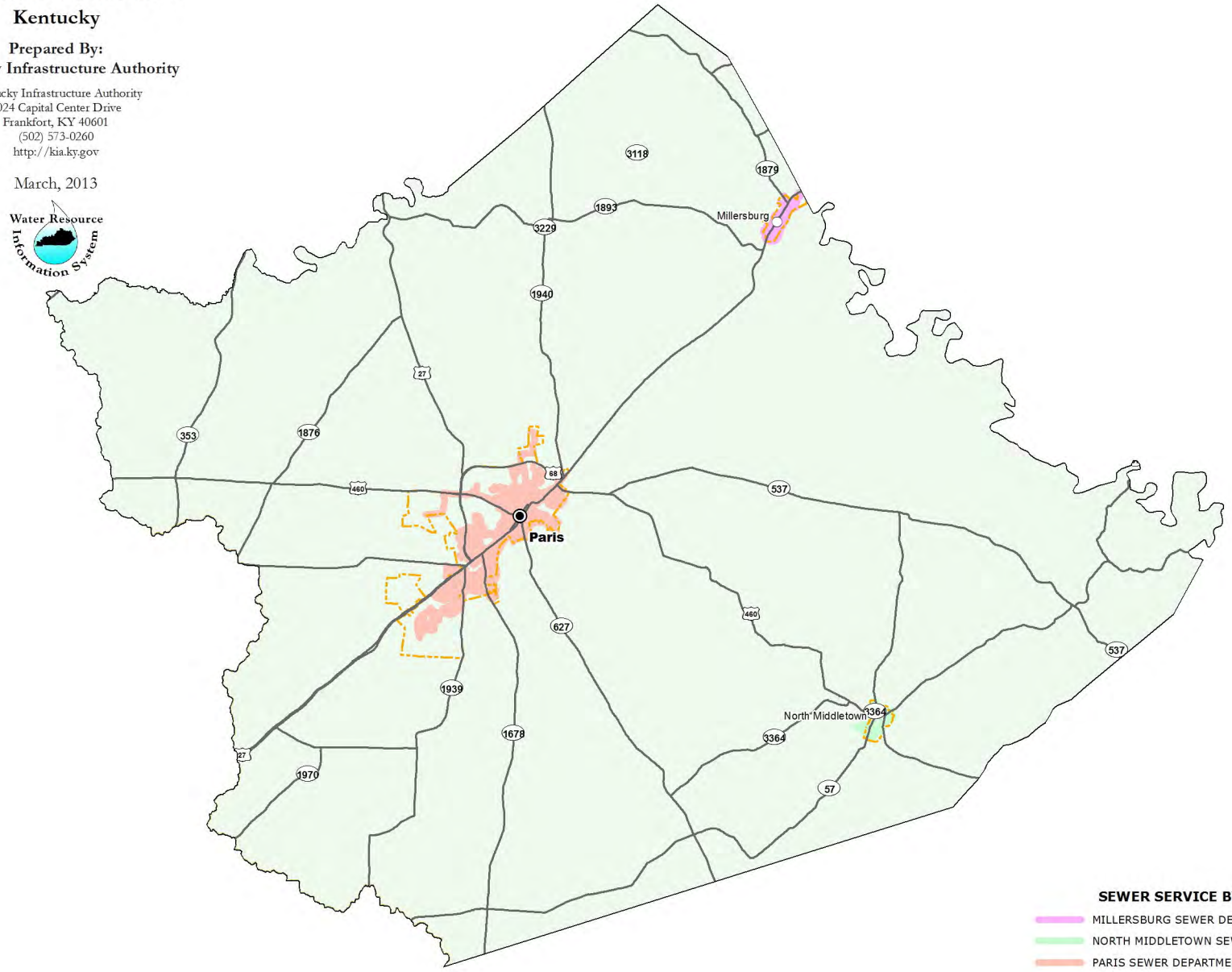
SEWER SERVICE AREAS
BOURBON COUNTY
Kentucky

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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER

- MILLERSBURG SEWER DEPARTMENT
- NORTH MIDDLETOWN SEWER TREATMENT PLANT
- PARIS SEWER DEPARTMENT

System Summary for Millersburg Sewer Department

Permit ID	KY0020940	Treats Wastewater	Yes, 0.2 MGD with 0.12 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	442
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$46.40	Total KISOP Treated (MG)	-
Residential Customers	402	Total Treated (MG)	41.975
Commercial Customers	6	Number of Manholes	163
Institutional Customers	-	Number of Lift Stations	5
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 6.22 miles (Collection: 5.89 miles, Interceptors: 0.32 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Millersburg Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21017016	Millersburg Wastewater Treatment Plant Improvements	0-2 Years	Not Funded	$609,000	Bourbon		

System Summary for North Middletown Sewer Treatment Plant

Permit ID	KY0031836	Treats Wastewater	Yes, 0.08 MGD with 0.06 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	281
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$41.57	Total KISOP Treated (MG)	-
Residential Customers	237	Total Treated (MG)	20.075
Commercial Customers	11	Number of Manholes	75
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	19%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 4.82 miles (Collection: 4.17 miles, Interceptors: 0.64 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for North Middletown Sewer Treatment Plant

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21017017	North Middletown Ky Sewer System	3-5 Years	Not Funded	$300,000	Bourbon		

System Summary for Paris Sewer Department

Permit ID	KY0090654	Treats Wastewater	Yes, 3.3 MGD with 1.32 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	4,100
Owner Type	Incorporated City	KISOP Sender	No
Employees	9	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.32	Total KISOP Treated (MG)	-
Residential Customers	3,942	Total Treated (MG)	532.750
Commercial Customers	-	Number of Manholes	1447
Institutional Customers	-	Number of Lift Stations	22
Industrial Customers	-	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 10% Constructed
Total Collection System Line Length = 60.77 miles (Collection: 53.58 miles, Interceptors: 7.20 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Paris Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21017004	City of Paris - Claysville Trunk Sewer Replacement Project, Phase II	0-2 Years	Not Funded	$1,825,000	Bourbon	20	2
SX21017010	City of Paris-Southern Hills Sanitary Sewer Collection Project	3-5 Years	Not Funded	$1,820,000	Bourbon	22	5
SX21017013	City of Paris - Bedford Acres Sanitary Sewer Project Phase 2	0-2 Years	Not Funded	$1,850,000	Bourbon	23	4
SX21017009	Bourbon County Fiscal Court - Centerville Sewer Project	0-2 Years	Partially Funded	$2,500,000	Bourbon	25	6
SX21017019	City of Paris - Pump Station Elimination and Rehabilitation	3-5 Years	Not Funded	$6,500,000	Bourbon	32	7
SX21017015	City of Paris Rehab Sanitary Sewer Mains	0-2 Years	Not Funded	$250,000	Bourbon	38	3
SX21017005	City of Paris-Mill Run Road & Cathy Drive Sanitary Sewer Project	3-5 Years	Not Funded	$900,000	Bourbon		

Boyle County

- 2010 census population of 28,432 (12,312 households) with 70% serviceable.
- Projected 2020 population of 29,048 (change of 616).
- Boyle County has 154.06 miles of existing sewer lines.
- 15.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 2.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $16,545,625.
- Estimated funding needs for projects from 6 to 10 years: $2,500,000.



Boyle County has a 2010 census population count of 28,432 (12,312 households) with a projected 2020 population count of 29,048 (11,782 households). Public sewer is currently available to approximately 70 percent of the county's households based on 2010 census counts. Over the next ten years approximately 270 serviceable households will be added through the construction of 15.00 miles of sewer line extensions and approximately 6,693 instances of improved service through system wide upgrades. 2.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Danville	4	$5,009,000	205	6,693	13.00	-	1.00
Lincoln County Sanitation District	1	$4,433,000	-	-	-	-	-
Mercer County Sanitation District	2	$9,603,625	65	-	2.00	-	1.00
Totals:	**7**	**$19,045,625**	**270**	**6,693**	**15.00**	**-**	**2.00**

Public Wastewater Systems in Boyle County

Note: Serviceability counts are for households within Boyle county only.

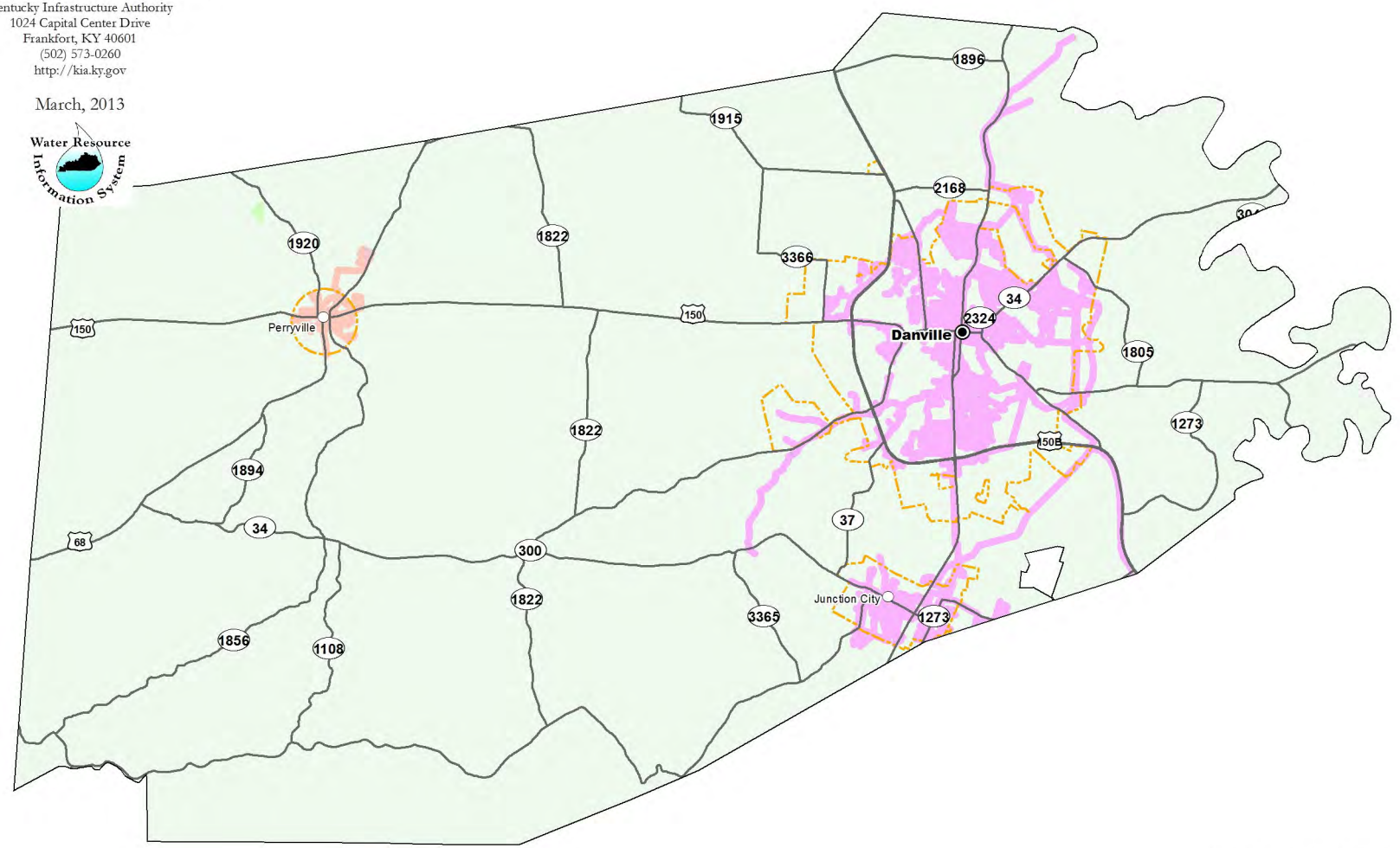
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0028355	Danville - Perryville WWTP	Boyle	866	407
KY0057193	Danville Municipal Sewer System	Boyle	19,020	8,236
		Totals:	19,886	8,643

SEWER SERVICE AREAS
BOYLE COUNTY
Kentucky

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March, 2013



System Summary for Danville - Perryville WWTP

Permit ID	KY0028355	Treats Wastewater	Yes, 0.1 MGD with 0.14 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	406
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$24.52	Total KISOP Treated (MG)	-
Residential Customers	326	Total Treated (MG)	71.900
Commercial Customers	25	Number of Manholes	146
Institutional Customers	1	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 8.78 miles (Collection: 7.23 miles, Interceptors: 1.55 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Danville - Perryville WWTP

System Summary for Danville Municipal Sewer System

Permit ID	KY0057193	Treats Wastewater	Yes, 6.5 MGD with 4.45 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	6,850
Owner Type	Incorporated City	KISOP Sender	No
Employees	13	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$16.74	Total KISOP Treated (MG)	-
Residential Customers	4,900	Total Treated (MG)	1,865.880
Commercial Customers	862	Number of Manholes	1200
Institutional Customers	-	Number of Lift Stations	8
Industrial Customers	16	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 60% Constructed
Total Collection System Line Length = 147.83 miles (Collection: 133.72 miles, Interceptors: 14.11 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Danville Municipal Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21021015	East Danville/Horkey	3-5 Years	Not Funded	$350,000	Boyle	29	2
SX21021004	Danville Major Sewer System Rehabilitation	3-5 Years	Not Funded	$1,740,000	Boyle	36	4
SX21021005	Danville Bluegrass Estates-Weisiger Project	6-10 Years	Not Funded	$2,500,000	Boyle		
SX21021014	Perryville Wastewater Treatment Plant Ugrades Phase II	3-5 Years	Not Funded	$503,250	Boyle		
SX21021002	Danville East Main Sewer Force Main and Pump Station	0-2 Years	Not Funded	$419,000	Boyle		

Clark County

- 2010 census population of 35,613 (15,706 households) with 71% serviceable.
- Projected 2020 population of 37,985 (change of 2,372).
- Clark County has 173.98 miles of existing sewer lines.
- 13.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 14.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $9,635,000.
- Estimated funding needs for projects from 6 to 10 years: $24,953,250.



Clark County has a 2010 census population count of 35,613 (15,706 households) with a projected 2020 population count of 37,985 (15,800 households). Public sewer is currently available to approximately 71 percent of the county's households based on 2010 census counts. Over the next ten years approximately 132 serviceable households will be added through the construction of 13.00 miles of sewer line extensions and approximately 5,886 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances. 14.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Winchester Municipal Utilities Commission	10	$34,588,250	132	5,886	13.00	2.00	14.00
Totals:	**10**	**$34,588,250**	**132**	**5,886**	**13.00**	**2.00**	**14.00**

Public Wastewater Systems in Clark County

Note: Serviceability counts are for households within Clark county only.

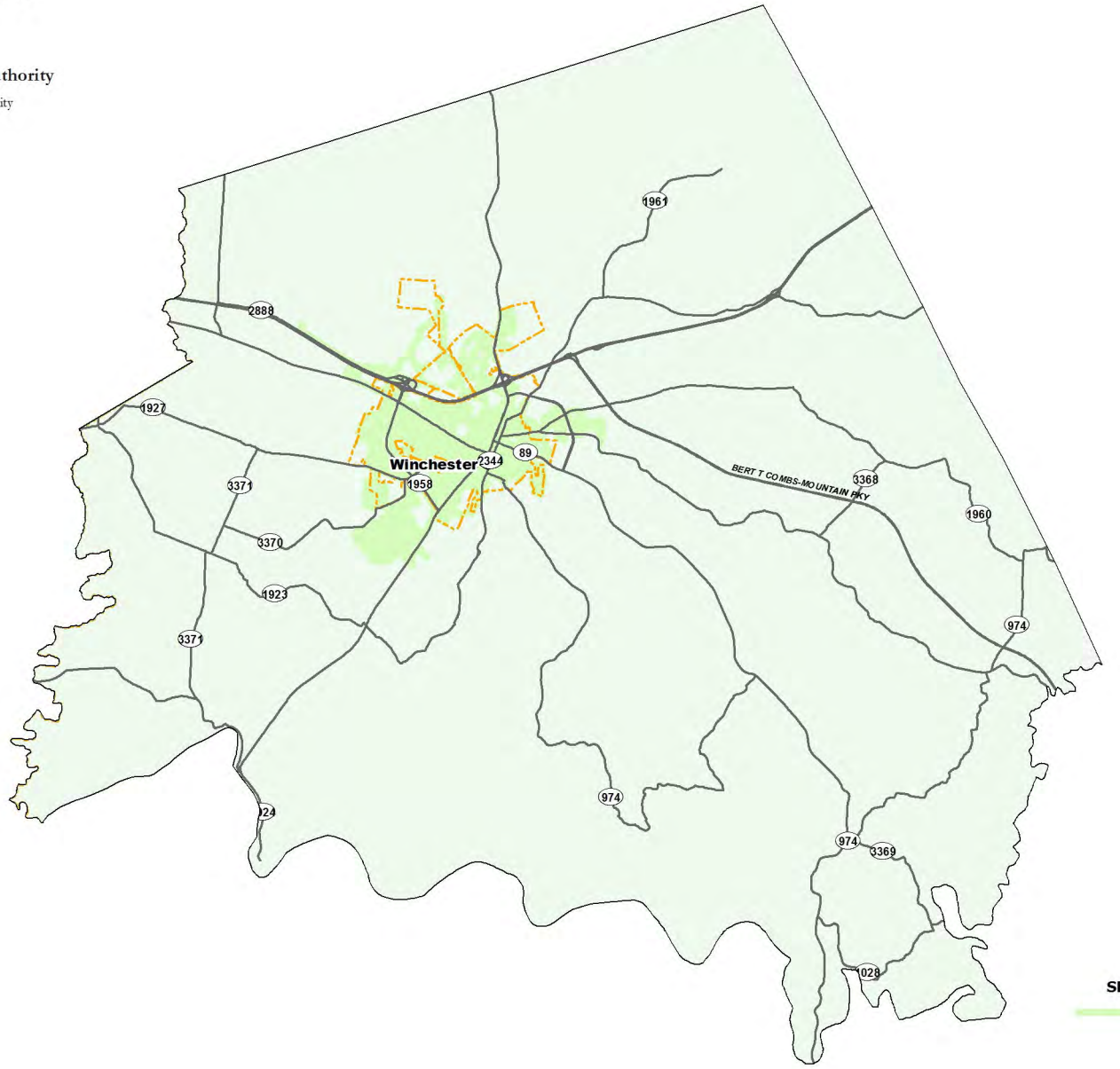
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0037991	Winchester Municipal Utilities	Clark	25,141	11,106
		Totals:	25,141	11,106

SEWER SERVICE AREAS
CLARK COUNTY
Kentucky

Prepared By:
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March, 2013



System Summary for Verna Hills Subdivision

Permit ID	KY0042757	Treats Wastewater	Yes, 0.065 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Private Non-Profit	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.04 miles (Collection: 0.04 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Verna Hills Subdivision

System Summary for Winchester Municipal Utilities

Permit ID	KY0108740	Treats Wastewater	Yes, 2 MGD with 0.657 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	75	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.71	Total KISOP Treated (MG)	-
Residential Customers	16,631	Total Treated (MG)	-
Commercial Customers	794	Number of Manholes	3800
Institutional Customers	54	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	60%
KISOP Customers	-	Has Facility Plan	Yes, 65% Constructed

Total Collection System Line Length = 3.92 miles (Collection: 0.48 miles, Interceptors: 3.44 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Winchester Municipal Utilities

System Summary for Winchester Municipal Utilities

Permit ID	KY0037991	Treats Wastewater	Yes, 7.2 MGD with 4.35 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	11,483
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	75	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.71	Total KISOP Treated (MG)	-
Residential Customers	10,635	Total Treated (MG)	1,400.000
Commercial Customers	794	Number of Manholes	3500
Institutional Customers	-	Number of Lift Stations	10
Industrial Customers	54	Percent Lines 20 yrs or Older	70%
KISOP Customers	-	Has Facility Plan	Yes, 65% Constructed

Total Collection System Line Length = 169.64 miles (Collection: 139.42 miles, Interceptors: 30.22 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Winchester Municipal Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21049028	Hampton Manor Outfall Sewer	0-2 Years	Not Funded	$1,404,000	Clark	2	3
SX21049027	West Interceptor Sanitary Sewer System Rehabilitation	6-10 Years	Not Funded	$7,730,000	Clark		
SX21049011	Hoods Creek Backbone Interceptor/Pump Station/Force Main	3-5 Years	Not Funded	$6,880,000	Clark		
SX21049026	East Interceptor Sanitary Sewer System Rehabilitation	6-10 Years	Not Funded	$6,430,000	Clark		
SX21049007	Hancock Creek Backbone Interceptor/Pump Station/Force Main	6-10 Years	Not Funded	$4,482,250	Clark		
SX21049022	Wayland Heights Subdivision/Hancock Valley Sanitary Sewer Improvements	6-10 Years	Not Funded	$3,026,000	Clark		
SX21049025	East Washington Street and Flanagan Street Sanitary Sewer System Improvements	6-10 Years	Not Funded	$2,507,000	Clark		
SX21049037	Maple Street Storm and Sanitary Sewer Rehabilitation	0-2 Years	Not Funded	$926,000	Clark		
SX21049018	WMU-Westchester Manor/Woodford Estates Sanitary Sewer Improvements	6-10 Years	Not Funded	$778,000	Clark		
SX21049031	Industrial Park Non-Potable Water Line	0-2 Years	Not Funded	$425,000	Clark		

Estill County

- 2010 census population of 14,672 (6,865 households) with 32% serviceable.
- Projected 2020 population of 14,359 (change of -313).
- Estill County has 48.39 miles of existing sewer lines.
- 7.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 1.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,260,000.
- Estimated funding needs for projects from 6 to 10 years: $43,313,000.



Estill County has a 2010 census population count of 14,672 (6,865 households) with a projected 2020 population count of 14,359 (6,115 households). Public sewer is currently available to approximately 32 percent of the county's households based on 2010 census counts. Over the next ten years approximately 259 serviceable households will be added through the construction of 7.00 miles of sewer line extensions. 1.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Irvine	4	$4,260,000	256	-	7.00	-	1.00
Northern Madison Sanitation District	1	$43,313,000	3	-	-	-	-
Totals:	**5**	**$47,573,000**	**259**	-	**7.00**	-	**1.00**

Public Wastewater Systems in Estill County

Note: Serviceability counts are for households within Estill county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0095940	Estill County Water District	Estill	778	365
KY0025909	Irvine Municipal Utilities	Estill	3,728	1,852
		Totals:	4,506	2,217

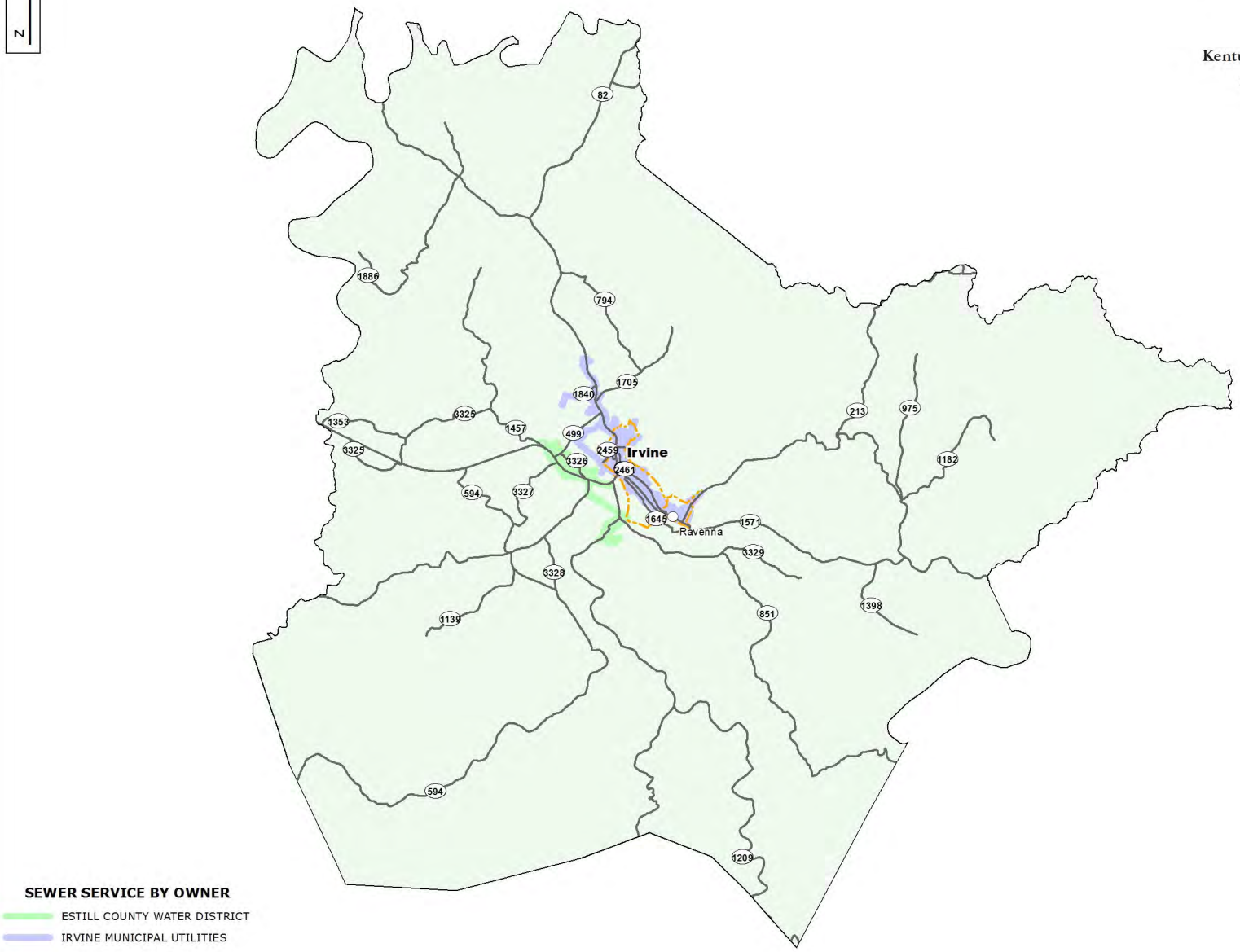
SEWER SERVICE AREAS
ESTILL COUNTY
Kentucky

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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER

- ESTILL COUNTY WATER DISTRICT
- IRVINE MUNICIPAL UTILITIES

System Summary for Estill County Water District

Permit ID	KY0095940	Treats Wastewater	Yes, 0.157 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	8	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	392	Total Treated (MG)	34.675
Commercial Customers	68	Number of Manholes	20
Institutional Customers	-	Number of Lift Stations	8
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 15.94 miles (Collection: 12.39 miles, Interceptors: 3.56 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Estill County Water District

System Summary for Irvine Municipal Utilities

Permit ID	KY0025909	Treats Wastewater	Yes, 8 MGD with 0.52 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,180
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$31.62	Total KISOP Treated (MG)	-
Residential Customers	1,365	Total Treated (MG)	202.700
Commercial Customers	139	Number of Manholes	350
Institutional Customers	3	Number of Lift Stations	9
Industrial Customers	1	Percent Lines 20 yrs or Older	65%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 32.44 miles (Collection: 27.60 miles, Interceptors: 4.84 miles).			

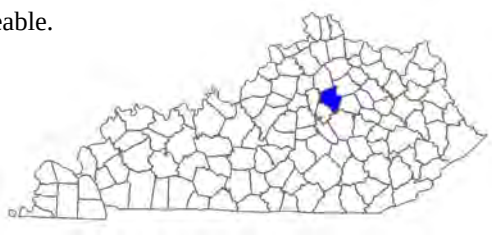
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Irvine Municipal Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21065002	Wisemantown Sewer Extensions	0-2 Years	Partially Funded	$3,500,000	Estill	4	1
SX21065008	Kelly Pump Station 6-Inch Force Main Replacement - Imu	0-2 Years	Not Funded	$250,000	Estill	18	2
SX21065007	Covey Road Sewer Extension - Irvine Municipal Utilities	0-2 Years	Not Funded	$201,000	Estill	24	4
SX21065006	Wall Street Sewer Extension - Irvine Municipal Utilities	0-2 Years	Not Funded	$309,000	Estill	28	3

Fayette County

- 2010 census population of 295,803 (135,160 households) with 97% serviceable.
- Projected 2020 population of 334,733 (change of 38,930).
- Fayette County has 1,321.48 miles of existing sewer lines.
- 5.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 15.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $95,406,294.
- There are no projects planned from 6 to 10 years.



Fayette County has a 2010 census population count of 295,803 (135,160 households) with a projected 2020 population count of 334,733 (141,152 households). Public sewer is currently available to approximately 97 percent of the county's households based on 2010 census counts. Over the next ten years approximately 257 serviceable households will be added through the construction of 5.00 miles of sewer line extensions and approximately 140 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances. 15.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Georgetown	1	$2,820,000	5	-	-	-	-
Jessamine-South Elkhorn Water District	1	$450,000	-	-	-	-	-
Lexington-Fayette Urban County Government	17	$92,136,294	252	140	5.00	2.00	15.00
Totals:	**19**	**$95,406,294**	**257**	**140**	**5.00**	**2.00**	**15.00**

Public Wastewater Systems in Fayette County

Note: Serviceability counts are for households within Fayette county only.

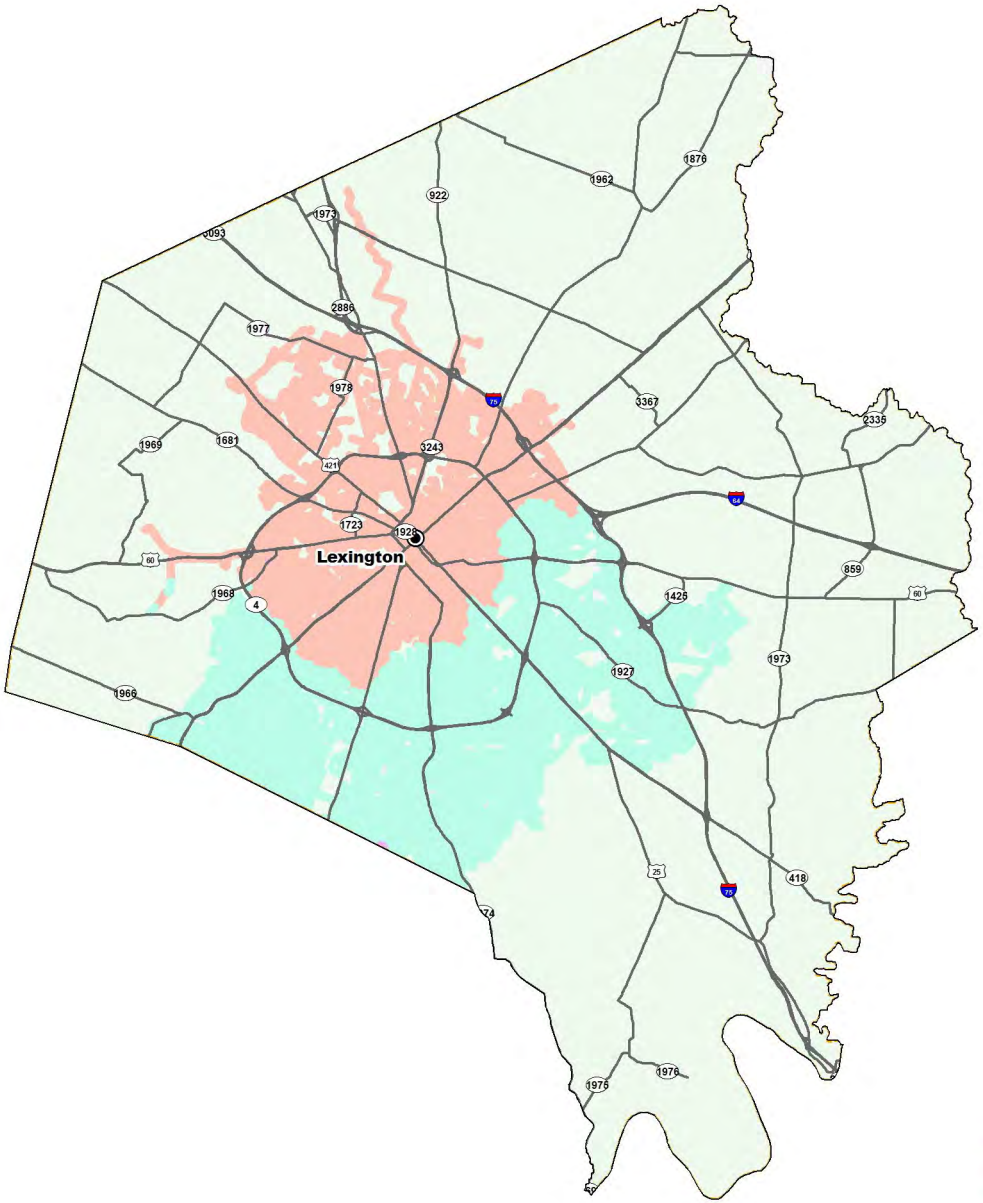
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021491	LFUCG - Town Branch	Fayette	121,836	54,556
KYP000072	Jessamine South Elkhorn Water District	Jessamine	158	61
KY0021504	LFUCG - West Hickman	Jessamine	164,686	76,635
		Totals:	286,680	131,252

SEWER SERVICE AREAS
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March, 2013



System Summary for LFUCG - Town Branch

Permit ID	KY0021491	Treats Wastewater	Yes, 30 MGD with 16.35 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	114,727
Owner Type	Incorporated City	KISOP Sender	No
Employees	29	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.25	Total KISOP Treated (MG)	-
Residential Customers	105,798	Total Treated (MG)	8,420.199
Commercial Customers	8,404	Number of Manholes	32828
Institutional Customers	505	Number of Lift Stations	48
Industrial Customers	20	Percent Lines 20 yrs or Older	35%
KISOP Customers	-	Has Facility Plan	Yes, 25% Constructed
Total Collection System Line Length = 530.20 miles (Collection: 488.73 miles, Interceptors: 41.47 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for LFUCG - Town Branch

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21067002	Expansion Area Three Sanitary Sewer Infrastructure	0-2 Years	Not Funded	$16,888,634	Fayette	3	1
SX21067036	University of Kentucky Nicholasville Road Flood Mitigation Project	0-2 Years	Not Funded	$10,000,000	Fayette		
SX21067018	Lower Cane Run Pump Station - LFUCG	0-2 Years	Not Funded	$6,000,000	Fayette		
SX21067052	UK Trunk A	0-2 Years	Not Funded	$2,832,319	Fayette		
SX21067021	LFUCG - Green Acres Neighborhood Project	0-2 Years	Not Funded	$2,400,000	Fayette		
SX21067001	Comprehensive Sanitary Sewer Project - Remaining Unsewered Areas - Phase 1A - Town Branch Wastewater Treatment Plant	0-2 Years	Partially Funded	$2,300,000	Fayette		
SX21067008	Comprehensive Sanitary Sewer Project - Remaining Unsewered Areas - Phase 2	0-2 Years	Partially Funded	$1,406,740	Fayette		
SX21067050	Lower Griffin Gate Trunk	0-2 Years	Not Funded	$860,494	Fayette		
SX21067056	Marquis Drive Cross Connection Elimination	0-2 Years	Not Funded	$636,893	Fayette		
SX21113018	Windhaven Drive Sewer Collection System	0-2 Years	Not Funded	$450,000	Jessamine		
SX21067051	Lower Cane Run Force Main Extension	0-2 Years	Not Funded	$180,112	Fayette		
SX21067028	Woodlake Way Storm Line Repairs	0-2 Years	Not Funded	$35,000	Fayette		

Franklin County

- 2010 census population of 49,285 (23,164 households) with 74% serviceable.
- Projected 2020 population of 50,777 (change of 1,492).
- Franklin County has 255.68 miles of existing sewer lines.
- 10.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- 7.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $36,009,880.
- There are no projects planned from 6 to 10 years.



Franklin County has a 2010 census population count of 49,285 (23,164 households) with a projected 2020 population count of 50,777 (21,761 households). Public sewer is currently available to approximately 74 percent of the county's households based on 2010 census counts. Over the next ten years approximately 367 serviceable households will be added through the construction of 10.00 miles of sewer line extensions and approximately 32,591 instances of improved service through the rehabilitation of 3.00 miles of existing sewer lines and other appurtenances. 7.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Frankfort	15	$18,742,880	21	32,397	3.00	1.00	5.00
Farmdale Sanitation District	9	$17,267,000	346	194	7.00	2.00	2.00
Totals:	**24**	**$36,009,880**	**367**	**32,591**	**10.00**	**3.00**	**7.00**

Public Wastewater Systems in Franklin County

Note: Serviceability counts are for households within Franklin county only.

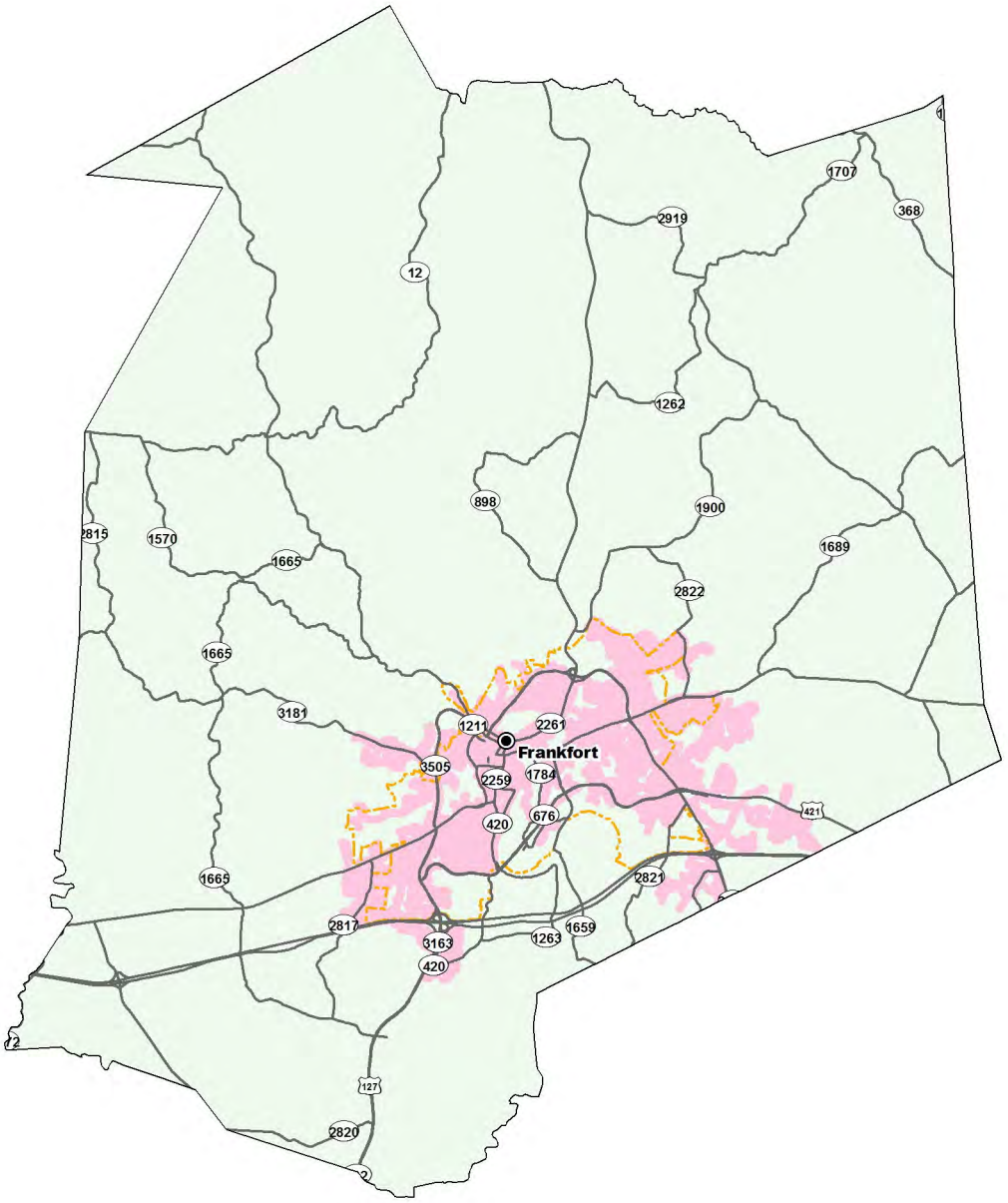
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0022861	Frankfort Sewer Department	Franklin	34,484	17,084
		Totals:	34,484	17,084

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FRANKLIN COUNTY
Kentucky

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March, 2013



System Summary for Coolbrook Subdivision

Permit ID	KY0044351	Treats Wastewater	Yes, 0.17 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.01 miles (Collection: 0.01 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Coolbrook Subdivision

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21073029	Phase I Collection System & 0.75 MGD WWTP	0-2 Years	Partially Funded	$9,500,000	Franklin	8	2

System Summary for Edgewood Subdivision

Permit ID	KY0074977	Treats Wastewater	Yes, 0.055 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Edgewood Subdivision

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21073029	Phase I Collection System & 0.75 MGD WWTP	0-2 Years	Partially Funded	$9,500,000	Franklin	8	2

System Summary for Farmdale Subdivision

Permit ID	KY0054780	Treats Wastewater	Yes, 0.08 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Farmdale Subdivision

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21073014	Farmdale Sanitation District-SSES & Collection System Repairs	0-2 Years	Not Funded	$500,000	Franklin		

System Summary for Farmgate Subdivision

Permit ID	KY0074969	Treats Wastewater	Yes, 0.02 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Farmgate Subdivision

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21073022	Farmdale Sanitation District-Farmgate Subdivision	0-2 Years	Not Funded	$217,500	Franklin		

System Summary for Fox Run Subdivision Downstream Inc

Permit ID	KY0086967	Treats Wastewater	Yes, 0.02 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Fox Run Subdivision Downstream Inc

System Summary for Frankfort Sewer Department

Permit ID	KY0022861	Treats Wastewater	Yes, 9.9 MGD with 7.81 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	14,003
Owner Type	Incorporated City	KISOP Sender	No
Employees	46	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$37.32	Total KISOP Treated (MG)	-
Residential Customers	12,054	Total Treated (MG)	2,557.920
Commercial Customers	1,936	Number of Manholes	6012
Institutional Customers	-	Number of Lift Stations	49
Industrial Customers	13	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 5% Constructed
Total Collection System Line Length = 256.22 miles (Collection: 229.47 miles, Interceptors: 26.75 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Frankfort Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21073062	Frankfort - WWTP Electrical Upgrade, Emergency Generator	0-2 Years	Not Funded	$1,320,000	Franklin	19	5
SX21073063	Frankfort - Benson CSO Seperation Project	0-2 Years	Partially Funded	$1,058,000	Franklin	31	6
SX21073038	Frankfort Sewer Department - West Frankfort Pump Station	0-2 Years	Not Funded	$3,881,000	Franklin		
SX21073065	Glenns Creek Interceptor	0-2 Years	Not Funded	$2,481,630	Franklin		
SX21073019	City of Frankfort/Frankfort Sewer Department-Holmes Street Contract III C	0-2 Years	Not Funded	$2,400,000	Franklin		
SX21073020	City of Frankfort/Frankfort Sewer Department-Holmes Street Contract III B-2	0-2 Years	Not Funded	$1,900,000	Franklin		
SX21073066	City of Frankfort/Frankfort Sewer Department Old Lawrenceburg Rd	0-2 Years	Not Funded	$1,570,000	Franklin		
SX21073012	Two Creeks #2 Pump Station & Force Main Replacement	0-2 Years	Partially Funded	$1,200,000	Franklin		
SX21073061	Louisville Hill Road Stormwater Separation Project Phase 2	0-2 Years	Not Funded	$835,000	Franklin		
SX21073056	Frankfort Sewer Department FSD Fort Boone Pump Station Replacement	0-2 Years	Not Funded	$657,250	Franklin		
SX21073044	Frankfort Sewer Department FSD Inverness SE	0-2 Years	Not Funded	$550,000	Franklin		
SX21073047	Frankfort Sewer Department FSD Prevention Park Pump Station Replacement	0-2 Years	Not Funded	$440,000	Franklin		
SX21073009	Miami Trail Pump Station Replacement	0-2 Years	Not Funded	$250,000	Franklin		
SX21073045	Frankfort Sewer Department FSD Old Clover Dale SE	0-2 Years	Not Funded	$150,000	Franklin		
SX21073049	Frankfort Sewer Department FSD Louisville Road At Tanglewood	0-2 Years	Not Funded	$50,000	Franklin		

System Summary for Huntington Woods Estates

Permit ID	KY0088650	Treats Wastewater	Yes, 0.045 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.01 miles (Collection: 0.01 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Huntington Woods Estates

System Summary for Meadowbrook Subdivision

Permit ID	KY0074951	Treats Wastewater	Yes, 0.006 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Meadowbrook Subdivision

System Summary for Ridgewood Sewer District LLC

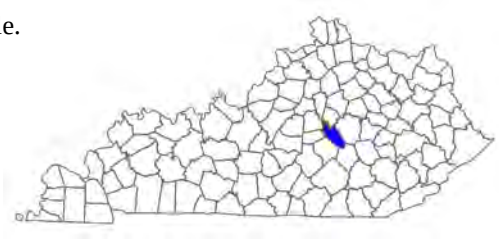
Permit ID	KY0074802	Treats Wastewater	Yes, 0.06 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.04 miles (Collection: 0.04 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Ridgewood Sewer District LLC

Garrard County

- 2010 census population of 16,912 (7,463 households) with 25% serviceable.
- Projected 2020 population of 19,122 (change of 2,210).
- Garrard County has 29.12 miles of existing sewer lines.
- 7.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,616,420.
- There are no projects planned from 6 to 10 years.



Garrard County has a 2010 census population count of 16,912 (7,463 households) with a projected 2020 population count of 19,122 (7,917 households). Public sewer is currently available to approximately 25 percent of the county's households based on 2010 census counts. Over the next ten years approximately 121 serviceable households will be added through the construction of 7.00 miles of sewer line extensions and approximately 1,754 instances of improved service through the rehabilitation of 4.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Lancaster	6	$2,611,420	95	1,742	6.00	4.00	-
City of Richmond	1	$1,800,000	6	-	1.00	-	-
Garrard County Fiscal Court	1	$205,000	20	12	-	-	-
Totals:	**8**	**$4,616,420**	**121**	**1,754**	**7.00**	**4.00**	**-**

Public Wastewater Systems in Garrard County

Note: Serviceability counts are for households within Garrard county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020974	Lancaster Wastewater Treatment Plant and Sewer Department	Garrard	3,991	1,854
		Totals:	3,991	1,854

SEWER SERVICE AREAS
GARRARD COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



SEWER SERVICE BY OWNER

LANCASTER WASTEWATER TREATMENT PLANT AND SEWER DEPARTMENT

System Summary for Herrington Haven Subdivision

Permit ID	KY0053431	Treats Wastewater	Yes, 0.0098 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.03 miles (Collection: 0.03 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Herrington Haven Subdivision

System Summary for Lancaster Wastewater Treatment Plant and Sewer Department

Permit ID	KY0020974	Treats Wastewater	Yes, 1 MGD with 0.51 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,623
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$27.48	Total KISOP Treated (MG)	-
Residential Customers	1,425	Total Treated (MG)	185.500
Commercial Customers	171	Number of Manholes	528
Institutional Customers	15	Number of Lift Stations	15
Industrial Customers	2	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 29.09 miles (Collection: 23.05 miles, Interceptors: 6.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lancaster Wastewater Treatment Plant and Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21079015	Lancaster Sewer Line Extension to Industrial Park	0-2 Years	Not Funded	$403,550	Garrard	33	6
SX21079016	Lancaster Sewer Line Replacement	0-2 Years	Not Funded	$157,000	Garrard	37	7
SX21079011	Lancaster - Sewer Line Extension - Merriwood Estates	0-2 Years	Not Funded	$886,530	Garrard		
SX21079010	Lancaster - Sewer Line Extension - Glenmore Estates	0-2 Years	Not Funded	$557,590	Garrard		
SX21079009	Lancaster - Sewer Line Extension - US 27 North	0-2 Years	Not Funded	$506,750	Garrard		
SX21079014	Paint Lick Sewer System	0-2 Years	Not Funded	$205,000	Garrard		
SX21079013	Lancaster Utility Security Improvements Part B	0-2 Years	Not Funded	$100,000	Garrard		

Harrison County

- 2010 census population of 18,846 (8,208 households) with 39% serviceable.
- Projected 2020 population of 19,640 (change of 794).
- Harrison County has 43.80 miles of existing sewer lines.
- 3.00 miles of line extensions proposed in the next 10 years.
- 15.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,280,650.
- There are no projects planned from 6 to 10 years.



Harrison County has a 2010 census population count of 18,846 (8,208 households) with a projected 2020 population count of 19,640 (8,006 households). Public sewer is currently available to approximately 39 percent of the county's households based on 2010 census counts. Over the next ten years approximately 124 serviceable households will be added through the construction of 3.00 miles of sewer line extensions and approximately 2,549 instances of improved service through the rehabilitation of 15.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Cynthiana	2	$5,432,400	-	2,478	-	14.00	-
Harrison County Sanitation District	1	$2,848,250	124	71	3.00	1.00	-
Totals:	**3**	**$8,280,650**	**124**	**2,549**	**3.00**	**15.00**	**-**

Public Wastewater Systems in Harrison County

Note: Serviceability counts are for households within Harrison county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
05011006	Berry Sewer System	Harrison	288	118
KY0076635	Cedarbrook Subdivision	Harrison	131	45
KY0105856	Cynthiana Sewer Department	Harrison	6,532	3,020
		Totals:	6,951	3,183

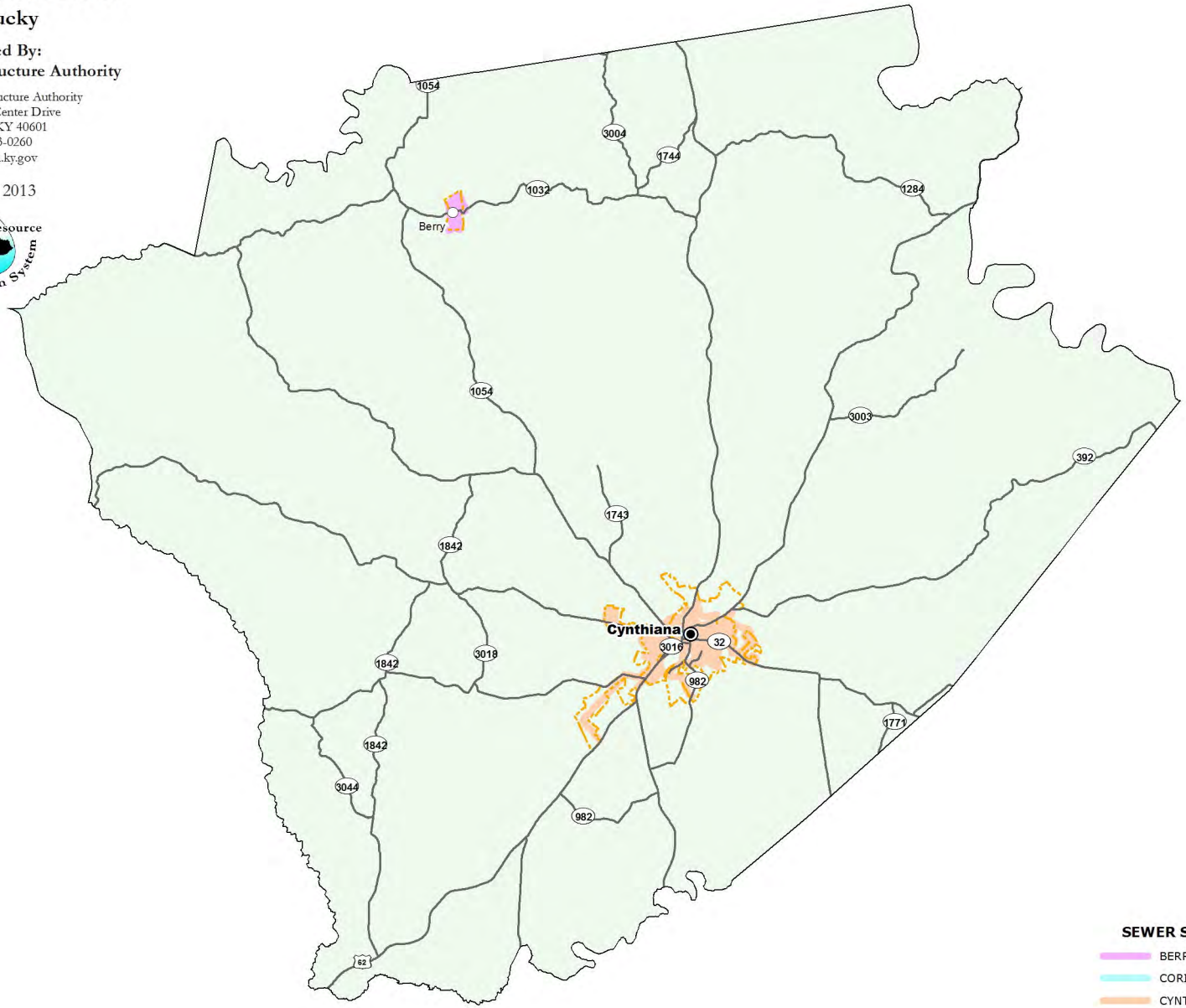
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HARRISON COUNTY
Kentucky

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Kentucky Infrastructure Authority

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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER
- BERRY SEWER SYSTEM
- CORINTH SEWER DEPARTMENT
- CYNTHIANA SEWER DEPARTMENT

System Summary for Berry Sewer System

Permit ID	05011006	Treats Wastewater	No
System Type	DOW Non-Discharge (KNDOP)	Total Connections	-
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$41.00	Total KISOP Treated (MG)	-
Residential Customers	99	Total Treated (MG)	4.100
Commercial Customers	2	Number of Manholes	73
Institutional Customers	4	Number of Lift Stations	69
Industrial Customers	-	Percent Lines 20 yrs or Older	98%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 3.95 miles (Collection: 3.95 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Berry Sewer System

System Summary for Cedarbrook Subdivision

Permit ID	KY0076635	Treats Wastewater	Yes, 0.025 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.76 miles (Collection: 0.76 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Cedarbrook Subdivision

System Summary for Cynthiana Sewer Department

Permit ID	KY0105856	Treats Wastewater	Yes, 2 MGD with 0.87 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,700
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.80	Total KISOP Treated (MG)	-
Residential Customers	2,136	Total Treated (MG)	334.000
Commercial Customers	239	Number of Manholes	450
Institutional Customers	-	Number of Lift Stations	22
Industrial Customers	9	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 39.03 miles (Collection: 31.79 miles, Interceptors: 7.24 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cynthiana Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21097015	HCSD - Northside Sewer Extension and Cedarbrook Replacement Project	0-2 Years	Not Funded	$2,848,250	Harrison	9	1

Jessamine County

- 2010 census population of 48,586 (19,331 households) with 75% serviceable.
- Projected 2020 population of 58,928 (change of 10,342).
- Jessamine County has 191.71 miles of existing sewer lines.
- 7.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $95,167,722.
- There are no projects planned from 6 to 10 years.



Jessamine County has a 2010 census population count of 48,586 (19,331 households) with a projected 2020 population count of 58,928 (22,184 households). Public sewer is currently available to approximately 75 percent of the county's households based on 2010 census counts. Over the next ten years approximately 338 serviceable households will be added through the construction of 7.00 miles of sewer line extensions and approximately 1,813 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Nicholasville	4	$1,854,980	115	1,651	2.00	-	-
City of Wilmore	3	$14,990,000	-	162	-	1.00	-
Jessamine-South Elkhorn Water District	5	$4,945,000	223	-	5.00	-	-
Lexington-Fayette Urban County Government	2	$71,973,742	-	-	-	-	-
Winchester Municipal Utilities Commission	1	$1,404,000	-	-	-	-	-
Totals:	**15**	**$95,167,722**	**338**	**1,813**	**7.00**	**1.00**	**-**

Public Wastewater Systems in Jessamine County

Note: Serviceability counts are for households within Jessamine county only.

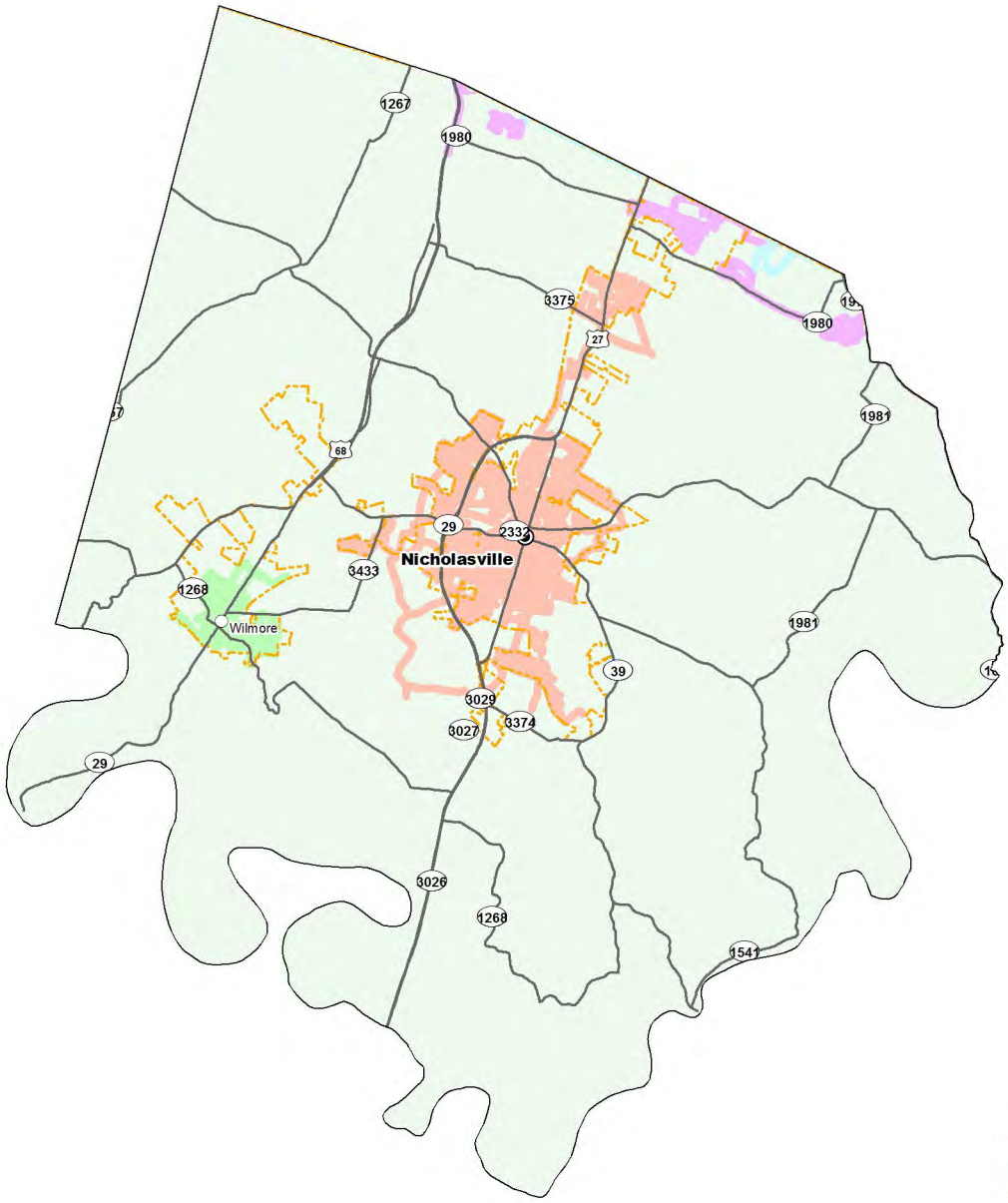
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000072	Jessamine South Elkhorn Water District	Jessamine	1,509	680
KY0021504	LFUCG - West Hickman	Jessamine	254	102
KY0100404	Nicholasville Sewer Department	Jessamine	29,008	11,814
KY0028428	Wilmore Sewer Department	Jessamine	5,243	1,843
		Totals:	36,014	14,439

SEWER SERVICE AREAS
JESSAMINE COUNTY
Kentucky

Prepared By:
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March, 2013



System Summary for Jessamine South Elkhorn Water District

Permit ID	KYP000072	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	740
Owner Type	Water District (KRS 74)	KISOP Sender	Yes, to 1 receiver.
Employees	2	Total KISOP Sent (MG)	49.000
Cost Per 4000 Gallons	$41.20	Total KISOP Treated (MG)	-
Residential Customers	590	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	491
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed
Total Collection System Line Length = 23.25 miles (Collection: 22.18 miles, Interceptors: 1.07 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jessamine South Elkhorn Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21113001	Keene Wastewater Pump Station and Collection System	0-2 Years	Not Funded	$2,945,000	Jessamine		

System Summary for LFUCG - West Hickman

Permit ID	KY0021504	Treats Wastewater	Yes, 33.87 MGD with 15.43 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	107,597
Owner Type	Incorporated City	KISOP Sender	No
Employees	27	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.25	Total KISOP Treated (MG)	49.000
Residential Customers	105,798	Total Treated (MG)	8,420.199
Commercial Customers	8,404	Number of Manholes	0
Institutional Customers	505	Number of Lift Stations	30
Industrial Customers	17	Percent Lines 20 yrs or Older	0%
KISOP Customers	1	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 796.00 miles (Collection: 769.60 miles, Interceptors: 26.40 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for LFUCG - West Hickman

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21067053	West Hickman Subbasin WH-7 WWS Tank	0-2 Years	Not Funded	$19,087,695	Fayette	6	4
SX21067048	West Hickman WWTP Wet Weather Storage Tanks - Phase 1	0-2 Years	Not Funded	$71,303,742	Fayette		
SX21067054	West Hickman Main Trunk B	0-2 Years	Not Funded	$9,487,363	Fayette		
SX21067017	Expansion Area 1 - LFUCG	0-2 Years	Not Funded	$8,600,000	Fayette		
SX21067019	Mint Lane Pump Station - LFUCG	0-2 Years	Not Funded	$4,415,898	Fayette		
SX21067013	Comprehensive Sanitary Sewer Project-Remaining Unswered Areas, Phase 3	0-2 Years	Not Funded	$3,300,000	Fayette		
SX21067015	LFUCG-East Hickman Pump Station Expansion and Rehabilitation	0-2 Years	Not Funded	$3,100,000	Fayette		
SX21067001	Comprehensive Sanitary Sewer Project - Remaining Unsewered Areas - Phase 1A - Town Branch Wastewater Treatment Plant	0-2 Years	Partially Funded	$2,300,000	Fayette		
SX21067008	Comprehensive Sanitary Sewer Project - Remaining Unsewered Areas - Phase 2	0-2 Years	Partially Funded	$1,406,740	Fayette		
SX21067055	LFUCG - Idle Hour Trunk	0-2 Years	Not Funded	$785,258	Fayette		
SX21067033	West Hickman WWTP Misc Equip-Fayette	0-2 Years	Not Funded	$670,000	Jessamine		
SX21067028	Woodlake Way Storm Line Repairs	0-2 Years	Not Funded	$35,000	Fayette		

System Summary for Nicholasville Sewer Department

Permit ID	KY0100404	Treats Wastewater	Yes, 4.1 MGD with 3.41 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	10,811
Owner Type	Incorporated City	KISOP Sender	No
Employees	16	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.49	Total KISOP Treated (MG)	-
Residential Customers	9,960	Total Treated (MG)	685.386
Commercial Customers	781	Number of Manholes	3856
Institutional Customers	-	Number of Lift Stations	16
Industrial Customers	25	Percent Lines 20 yrs or Older	20%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 141.14 miles (Collection: 135.01 miles, Interceptors: 6.13 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Nicholasville Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21113027	Nicholasville - Orchard Parallel Sanitary Sewer Project	0-2 Years	Not Funded	$340,980	Jessamine	11	3
SX21113020	Cedar Hill Estates Sewer Collection System	3-5 Years	Not Funded	$1,000,000	Jessamine		
SX21113023	Nicholasville II-Carolyn Lane Sewer Main Extension	0-2 Years	Not Funded	$1,000,000	Jessamine		
SX21113022	Nicholasville I - Vincewood Drive Sewer Main Extension	0-2 Years	Not Funded	$450,000	Jessamine		
SX21113024	Nicholasville III - Rose Hill Lift Station Elimination Project	0-2 Years	Not Funded	$64,000	Jessamine		

System Summary for Wilmore Sewer Department

Permit ID	KY0028428	Treats Wastewater	Yes, 1 MGD with 0.47 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,657
Owner Type	Incorporated City	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$20.63	Total KISOP Treated (MG)	-
Residential Customers	1,595	Total Treated (MG)	189.800
Commercial Customers	46	Number of Manholes	495
Institutional Customers	27	Number of Lift Stations	11
Industrial Customers	-	Percent Lines 20 yrs or Older	66%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 22.38 miles (Collection: 18.69 miles, Interceptors: 3.69 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Wilmore Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21113026	Wilmore Wastewater Collection System Rehabilitation - Phase 2	0-2 Years	Not Funded	$530,000	Jessamine	13	2
SX21113003	Wilmore Wastewater Treatment Plant Expansion	3-5 Years	Partially Funded	$11,000,000	Jessamine		
SX21113025	Wilmore WWTP Sludge Handling Improvements	0-2 Years	Not Funded	$3,460,000	Jessamine		
SX21113017	Sewer Master Plan With Asset Management Jessamine South Elkhorn	3-5 Years	Not Funded	$100,000	Jessamine		

Lincoln County

- 2010 census population of 24,742 (10,819 households) with 25% serviceable.
- Projected 2020 population of 26,170 (change of 1,428).
- Lincoln County has 59.41 miles of existing sewer lines.
- 38.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $16,215,420.
- There are no projects planned from 6 to 10 years.



Lincoln County has a 2010 census population count of 24,742 (10,819 households) with a projected 2020 population count of 26,170 (10,762 households). Public sewer is currently available to approximately 25 percent of the county's households based on 2010 census counts. Over the next ten years approximately 814 serviceable households will be added through the construction of 38.00 miles of sewer line extensions and approximately 710 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Crab Orchard	3	$1,714,000	50	710	4.00	1.00	-
City of Eubank	1	$3,225,000	20	-	-	-	-
City of Stanford	1	$5,326,420	189	-	12.00	-	-
Lincoln County Fiscal Court	1	$150,000	6	-	1.00	-	-
Lincoln County Sanitation District	2	$5,800,000	549	-	21.00	-	-
Totals:	**8**	**$16,215,420**	**814**	**710**	**38.00**	**1.00**	**-**

Public Wastewater Systems in Lincoln County

Note: Serviceability counts are for households within Lincoln county only.

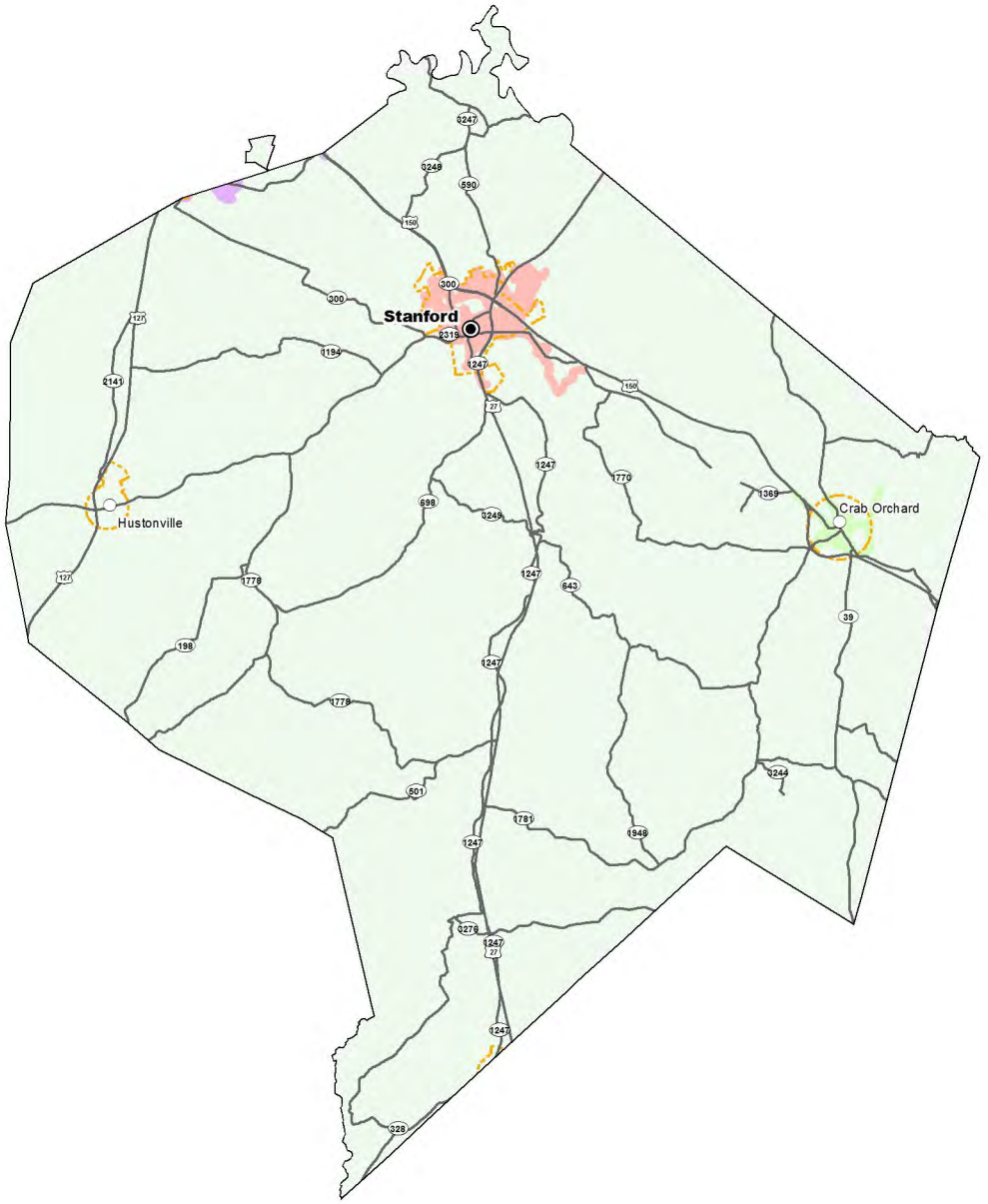
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0065897	Crab Orchard Sewer Department	Lincoln	894	446
KY0024619	Stanford Sewer Department	Lincoln	4,851	2,142
KY0057193	Danville Municipal Sewer System	Boyle	206	103
		Totals:	5,951	2,691

SEWER SERVICE AREAS
LINCOLN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



System Summary for Crab Orchard Sewer Department

Permit ID	KY0065897	Treats Wastewater	Yes, 0.11 MGD with 0.05 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	306
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$36.00	Total KISOP Treated (MG)	-
Residential Customers	277	Total Treated (MG)	41.240
Commercial Customers	29	Number of Manholes	180
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 11.32 miles (Collection: 10.21 miles, Interceptors: 1.12 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Crab Orchard Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21137020	Crab Orchard UV Replacement	0-2 Years	Not Funded	$275,000	Lincoln	21	1
SX21137016	Crab Orchard Sewer Line Rehab - Phase I	0-2 Years	Not Funded	$727,000	Lincoln		
SX21137021	Crab Orchard - William Whitley Road Sanitary Sewers	0-2 Years	Not Funded	$712,000	Lincoln		

System Summary for Stanford Sewer Department

Permit ID	KY0024619	Treats Wastewater	Yes, 0.8 MGD with 0.84 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,957
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$17.61	Total KISOP Treated (MG)	-
Residential Customers	1,760	Total Treated (MG)	417.600
Commercial Customers	196	Number of Manholes	1175
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	1	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 70% Constructed
Total Collection System Line Length = 45.20 miles (Collection: 42.02 miles, Interceptors: 3.18 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Stanford Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21137015	Stanford - US 27 South Sewer Expansion Project	0-2 Years	Not Funded	$5,326,420	Lincoln	12	3
SX21137019	Lincoln County Fiscal Court - Rowland Sanitary Sewer Extension	0-2 Years	Not Funded	$130,000	Lincoln	15	5
SX21137012	Lincoln County Industrial Park Ss Extension-Phase I	0-2 Years	Not Funded	$150,000	Lincoln		
SX21137018	Lincoln Co. Fiscal Court - US 27 Sanitary Sewer Extensino (Fire	0-2 Years	Not Funded	$35,000	Lincoln		

Madison County

- 2010 census population of 82,916 (35,043 households) with 63% serviceable.
- Projected 2020 population of 95,333 (change of 12,417).
- Madison County has 325.16 miles of existing sewer lines.
- 124.00 miles of line extensions proposed in the next 10 years.
- 5.00 miles of line rehabilitation proposed in the next 10 years.
- 54.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $22,704,854.
- Estimated funding needs for projects from 6 to 10 years: $48,939,000.



Madison County has a 2010 census population count of 82,916 (35,043 households) with a projected 2020 population count of 95,333 (38,093 households). Public sewer is currently available to approximately 63 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2,937 serviceable households will be added through the construction of 124.00 miles of sewer line extensions and approximately 626 instances of improved service through the rehabilitation of 5.00 miles of existing sewer lines and other appurtenances. 54.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Berea	1	$1,600,000	-	162	-	3.00	-
City of Richmond	7	$7,689,854	-	-	-	-	-
Northern Madison Sanitation District	17	$62,354,000	2,937	464	124.00	2.00	54.00
Totals:	**25**	**$71,643,854**	**2,937**	**626**	**124.00**	**5.00**	**54.00**

Public Wastewater Systems in Madison County

Note: Serviceability counts are for households within Madison county only.

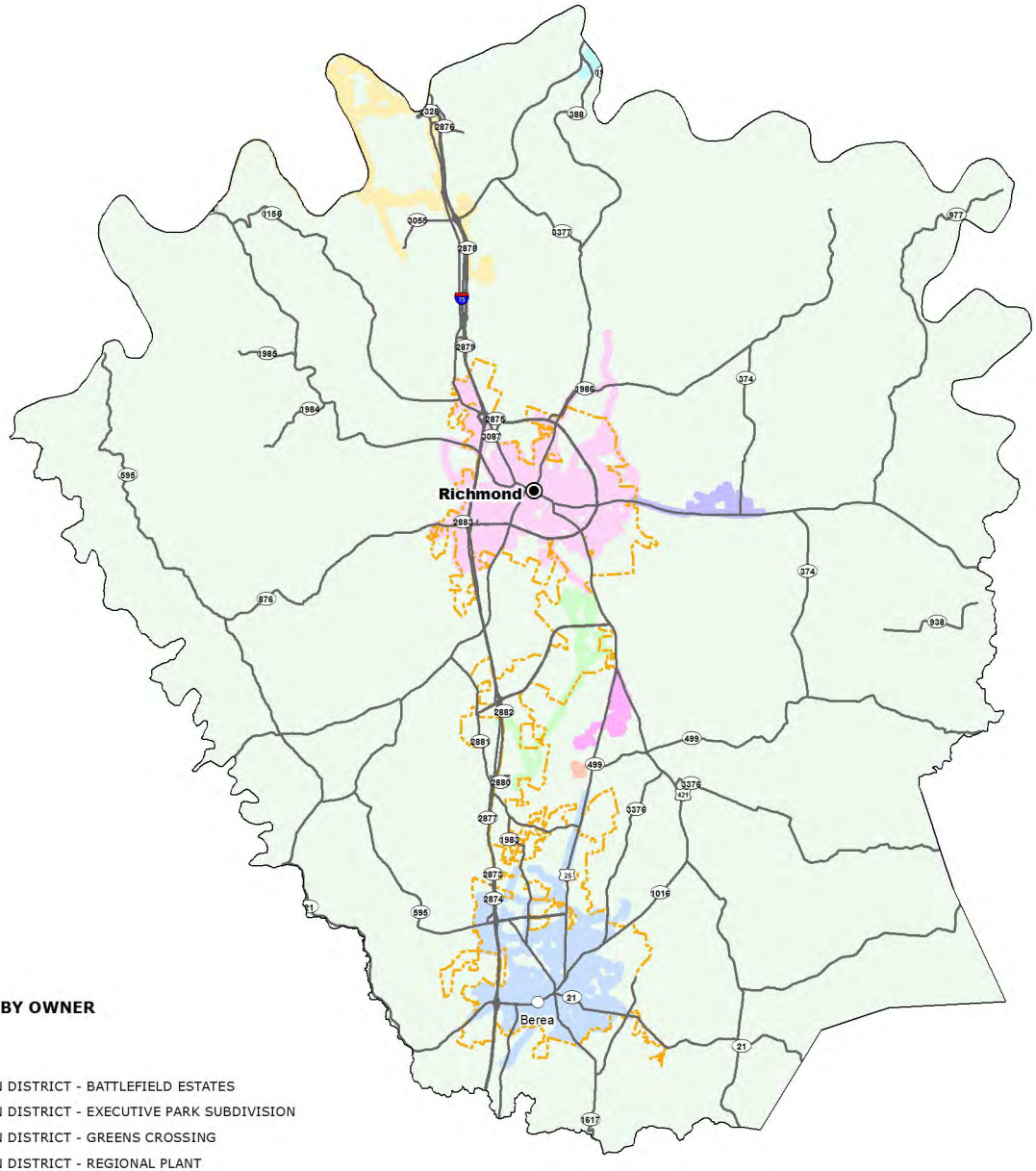
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0079898	Berea Sewer Department	Madison	13,846	5,735
KY0102971	Northern Madison County Sanitation District - Battlefield Estates	Madison	1,313	563
KY0056561	Northern Madison County Sanitation District - Executive Park Subdivision	Madison	195	89
KYP000071	Northern Madison County Sanitation District - Greens Crossing	Madison	790	362
KY0105376	Northern Madison County Sanitation District - Regional Plant	Madison	2,662	1,028
KY0107107	Richmond Utilities - Otter Creek	Madison	31,848	13,957
KY0103357	Richmond Utilities - Silver Creek	Madison	378	215
		Totals:	51,032	21,949

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MADISON COUNTY
Kentucky

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March, 2013



SEWER SERVICE BY OWNER

- BEREA SEWER DEPARTMENT
- FORT BOONESBOROUGH STATE PARK
- NORTHERN MADISON COUNTY SANITATION DISTRICT - BATTLEFIELD ESTATES
- NORTHERN MADISON COUNTY SANITATION DISTRICT - EXECUTIVE PARK SUBDIVISION
- NORTHERN MADISON COUNTY SANITATION DISTRICT - GREENS CROSSING
- NORTHERN MADISON COUNTY SANITATION DISTRICT - REGIONAL PLANT
- RICHMOND UTILITIES - OTTER CREEK
- RICHMOND UTILITIES - SILVER CREEK

System Summary for Berea Sewer Department

Permit ID	KY0079898	Treats Wastewater	Yes, 4.32 MGD with 2.95 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	5,558
Owner Type	Incorporated City	KISOP Sender	No
Employees	10	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$15.71	Total KISOP Treated (MG)	-
Residential Customers	5,045	Total Treated (MG)	1,127.830
Commercial Customers	513	Number of Manholes	1400
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	67%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 94.30 miles (Collection: 92.33 miles, Interceptors: 1.97 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Berea Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21151045	Berea Gravity Sewer Rehabilitation	0-2 Years	Not Funded	$1,600,000	Madison	7	1

System Summary for Brocklyn Subdivision

Permit ID	KY0081299	Treats Wastewater	Yes, 0.04 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Brocklyn Subdivision

System Summary for Northern Madison County Sanitation District - Battlefield Estates

Permit ID	KY0102971	Treats Wastewater	Yes, 0.114 MGD with 0.072 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	472
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$59.80	Total KISOP Treated (MG)	-
Residential Customers	460	Total Treated (MG)	-
Commercial Customers	12	Number of Manholes	187
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed
Total Collection System Line Length = 9.33 miles (Collection: 8.35 miles, Interceptors: 0.98 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Northern Madison County Sanitation District - Battlefield Estates

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21151039	NMCSD - Madison Village Collection System Rehab	0-2 Years	Not Funded	$1,275,000	Madison	27	4
SX21151037	Terrill Wastewater Collection System Extension	3-5 Years	Not Funded	$383,000	Madison		

System Summary for Northern Madison County Sanitation District - Executive Park Subdivision

Permit ID	KY0056561	Treats Wastewater	Yes, 0.03 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	71
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$59.80	Total KISOP Treated (MG)	-
Residential Customers	71	Total Treated (MG)	7.665
Commercial Customers	-	Number of Manholes	24
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	72%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 1.12 miles (Collection: 0.85 miles, Interceptors: 0.27 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Northern Madison County Sanitation District - Executive Park Subdivision

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21151043	Northern Madison County Sanitation District Shady Hills and Cherry Trace Wastewater Collection System Extension	6-10 Years	Not Funded	$1,270,000	Madison		
SX21151044	City of Richmond - Otter Creek WWTP - Oculus System	0-2 Years	Not Funded	$739,854	Madison		
SX21151031	Executive Park Sewer Rehab	6-10 Years	Not Funded	$200,000	Madison		

System Summary for Northern Madison County Sanitation District - Greens Crossing

Permit ID	KYP000071	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	326
Owner Type	Sewer and Sanitation District	KISOP Sender	Yes, to 1 receiver.
Employees	4	Total KISOP Sent (MG)	16.400
Cost Per 4000 Gallons	$59.80	Total KISOP Treated (MG)	-
Residential Customers	315	Total Treated (MG)	14.739
Commercial Customers	11	Number of Manholes	131
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 10.23 miles (Collection: 7.01 miles, Interceptors: 3.21 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Northern Madison County Sanitation District - Greens Crossing

System Summary for Northern Madison County Sanitation District - Regional Plant

Permit ID	KY0105376	Treats Wastewater	Yes, 1 MGD with 0.21 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	895
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$59.80	Total KISOP Treated (MG)	-
Residential Customers	865	Total Treated (MG)	73.000
Commercial Customers	30	Number of Manholes	225
Institutional Customers	-	Number of Lift Stations	14
Industrial Customers	-	Percent Lines 20 yrs or Older	76%
KISOP Customers	-	Has Facility Plan	Yes, 30% Constructed
Total Collection System Line Length = 32.67 miles (Collection: 28.16 miles, Interceptors: 4.50 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Northern Madison County Sanitation District - Regional Plant

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21151003	NMCSD - Expansion of Wastewater Plant	6-10 Years	Not Funded	$43,313,000	Madison		
SX21151002	Northern Madison County Sanitation District - Expanded I-75 Area	3-5 Years	Not Funded	$6,279,000	Madison		
SX21151033	Quail West Wastewater Collection System	6-10 Years	Not Funded	$1,750,000	Madison		
SX21151038	Ft. Bonnesboro Force Main & Pump Station	3-5 Years	Not Funded	$1,543,000	Madison		
SX21151025	Mockingbird Hill Wastewater Collection System	3-5 Years	Not Funded	$1,090,000	Madison		
SX21151024	Waterford Place Wastewater Collection System	6-10 Years	Not Funded	$900,000	Madison		
SX21151029	Walnut Grove & Woodland Estates Wastewater	3-5 Years	Not Funded	$740,000	Madison		
SX21151022	Boone Village Wastewater Collection System	3-5 Years	Not Funded	$730,000	Madison		
SX21151028	Simpson Lane Wastewater System	3-5 Years	Not Funded	$725,000	Madison		
SX21151023	Traditions Wastewater Collection System	3-5 Years	Not Funded	$650,000	Madison		
SX21151026	Lexington Heights Wastewater Colleciton System	6-10 Years	Not Funded	$530,000	Madison		
SX21151030	Wells Ridge Wastewater Collection	6-10 Years	Not Funded	$490,000	Madison		
SX21151027	Pinnur Acres Wastewater Collection System	6-10 Years	Not Funded	$486,000	Madison		

System Summary for Richmond Utilities - Otter Creek

Permit ID	KY0107107	Treats Wastewater	Yes, 8 MGD with 4.44 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	11,600
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.94	Total KISOP Treated (MG)	16.400
Residential Customers	10,300	Total Treated (MG)	13.900
Commercial Customers	1,274	Number of Manholes	4228
Institutional Customers	15	Number of Lift Stations	28
Industrial Customers	10	Percent Lines 20 yrs or Older	52%
KISOP Customers	1	Has Facility Plan	Yes, 98% Constructed
Total Collection System Line Length = 158.06 miles (Collection: 140.46 miles, Interceptors: 17.60 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Richmond Utilities - Otter Creek

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21151051	Water Street Stormwater Improvements, Phase 2	0-2 Years	Not Funded	$1,150,000	Madison		

System Summary for Richmond Utilities - Silver Creek

Permit ID	KY0103357	Treats Wastewater	Yes, 1 MGD with 0.25 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,500
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$15.65	Total KISOP Treated (MG)	-
Residential Customers	30	Total Treated (MG)	71.900
Commercial Customers	1,150	Number of Manholes	355
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	15	Percent Lines 20 yrs or Older	10%
KISOP Customers	-	Has Facility Plan	Yes, 85% Constructed
Total Collection System Line Length = 17.67 miles (Collection: 7.80 miles, Interceptors: 9.86 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Richmond Utilities - Silver Creek

Mercer County

- 2010 census population of 21,331 (9,941 households) with 44% serviceable.
- Projected 2020 population of 21,810 (change of 479).
- Mercer County has 69.00 miles of existing sewer lines.
- 15.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- 3.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $35,489,350.
- There are no projects planned from 6 to 10 years.



Mercer County has a 2010 census population count of 21,331 (9,941 households) with a projected 2020 population count of 21,810 (9,299 households). Public sewer is currently available to approximately 44 percent of the county's households based on 2010 census counts. Over the next ten years approximately 592 serviceable households will be added through the construction of 15.00 miles of sewer line extensions and approximately 3,855 instances of improved service through the rehabilitation of 4.00 miles of existing sewer lines and other appurtenances. 3.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Danville	1	$503,250	-	-	-	-	-
City of Harrodsburg	5	$25,199,300	28	3,787	2.00	4.00	-
Mercer County Sanitation District	3	$9,786,800	564	68	13.00	-	3.00
Totals:	**9**	**$35,489,350**	**592**	**3,855**	**15.00**	**4.00**	**3.00**

Public Wastewater Systems in Mercer County

Note: Serviceability counts are for households within Mercer county only.

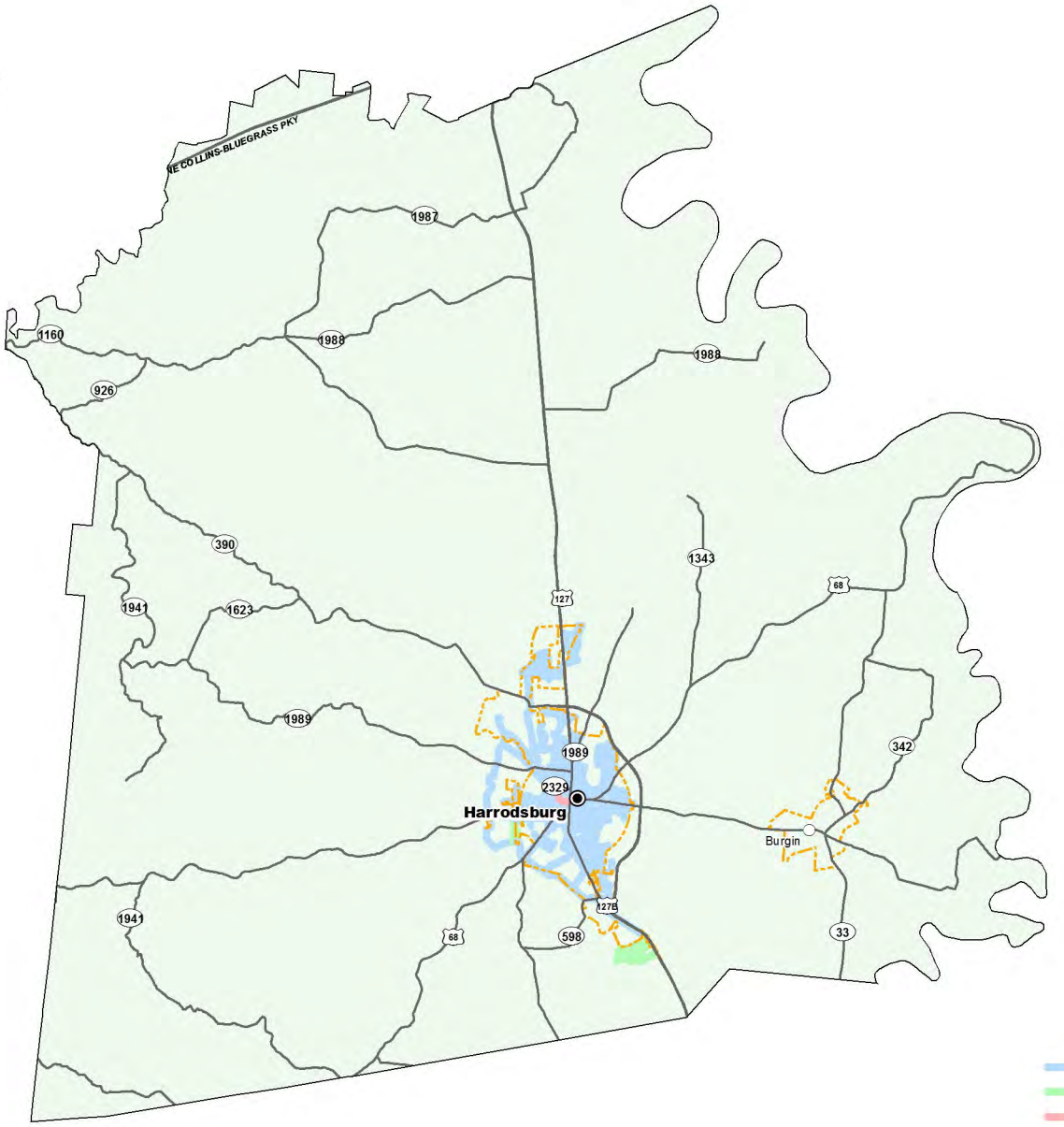
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0027421	Harrodsburg Sewer Department	Mercer	8,778	4,126
KYP000080	Mercer County Sanitation District	Mercer	402	211
		Totals:	9,180	4,337

SEWER SERVICE AREAS
MERCER COUNTY
Kentucky

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March, 2013



System Summary for Harrodsburg Sewer Department

Permit ID	KY0027421	Treats Wastewater	Yes, 2.68 MGD with 1.33 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	3,661
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.87	Total KISOP Treated (MG)	18.300
Residential Customers	3,209	Total Treated (MG)	551.510
Commercial Customers	245	Number of Manholes	1099
Institutional Customers	85	Number of Lift Stations	13
Industrial Customers	21	Percent Lines 20 yrs or Older	70%
KISOP Customers	1	Has Facility Plan	Yes, 90% Constructed
Total Collection System Line Length = 63.68 miles (Collection: 57.86 miles, Interceptors: 5.82 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Harrodsburg Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21167003	Harrodsburg New Wastewater Treatment Plant	0-2 Years	Not Funded	$21,400,000	Mercer	14	6
SX21167013	Harrodsburg - Corning-Industrial Pump Station and Force Main Sys	3-5 Years	Not Funded	$810,000	Mercer	17	4
SX21167014	Harrodsburg - Cleaning and Rehabilitation of Sanitary Sewer Collector Lines	3-5 Years	Not Funded	$1,420,000	Mercer	34	12
SX21167022	Sanitary Sewer Rehabilitation 2015	0-2 Years	Not Funded	$1,371,400	Mercer		
SX21167023	Sunset Lane Sewer Replacement	0-2 Years	Not Funded	$197,900	Mercer		

System Summary for Mercer County Sanitation District

Permit ID	KYP000080	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	204
Owner Type	Sewer and Sanitation District	KISOP Sender	Yes, to 1 receiver.
Employees	5	Total KISOP Sent (MG)	18.300
Cost Per 4000 Gallons	$48.00	Total KISOP Treated (MG)	-
Residential Customers	196	Total Treated (MG)	-
Commercial Customers	8	Number of Manholes	42
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 10% Constructed
Total Collection System Line Length = 5.00 miles (Collection: 5.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mercer County Sanitation District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21167021	MCSD - Kennedy Bridge Road Sanitary Sewer Improvements Project	0-2 Years	Not Funded	$460,075	Mercer	5	2
SX21167019	M C S D - Gwinn Island Road Sanitary Sewer Extension	0-2 Years	Not Funded	$838,625	Boyle	16	3
SX21167012	City of Burgin Sanitary Sewer Extension	0-2 Years	Partially Funded	$8,765,000	Mercer		
SX21167020	Mercer Co. Sanitation District Sanitary Sewer Service Project	0-2 Years	Partially Funded	$561,725	Mercer		

Nicholas County

- 2010 census population of 7,135 (3,261 households) with 39% serviceable.
- Projected 2020 population of 7,411 (change of 276).
- Nicholas County has 26.07 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $600,000.
- There are no projects planned from 6 to 10 years.



Nicholas County has a 2010 census population count of 7,135 (3,261 households) with a projected 2020 population count of 7,411 (3,012 households). Public sewer is currently available to approximately 39 percent of the county's households based on 2010 census counts. Over the next ten years.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Carlisle	1	$600,000	-	-	-	-	-
Totals:	**1**	**$600,000**	**-**	**-**	**-**	**-**	**-**

Public Wastewater Systems in Nicholas County

Note: Serviceability counts are for households within Nicholas county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020923	Carlisle Sewer Department	Nicholas	2,253	1,148
KIA181001	Nicholas County Sanitation District #2	Nicholas	183	107
		Totals:	2,436	1,255

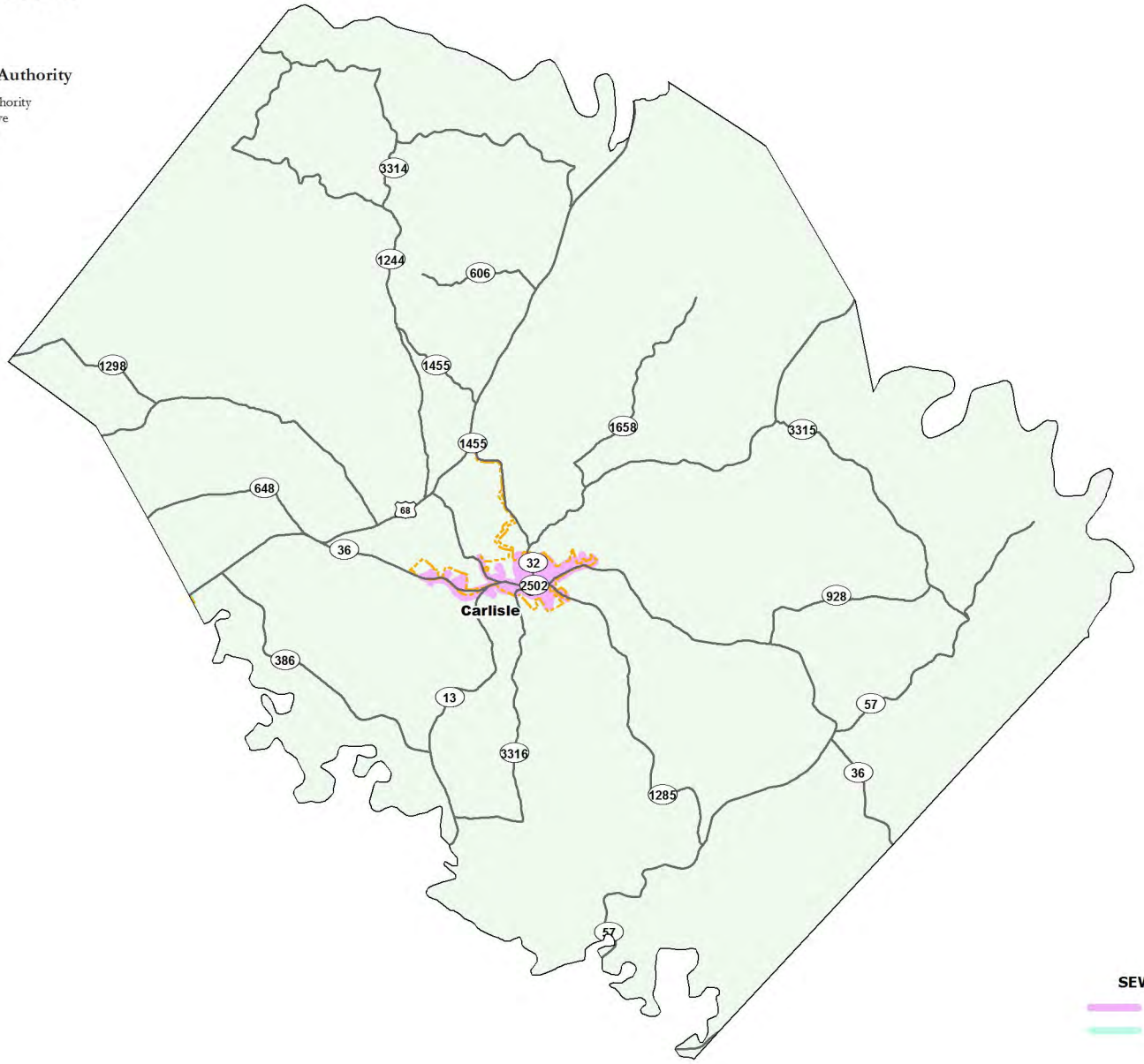
SEWER SERVICE AREAS
NICHOLAS COUNTY
Kentucky

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March, 2013

Water Resource Information System



System Summary for Carlisle Sewer Department

Permit ID	KY0020923	Treats Wastewater	Yes, 0.35 MGD with 0.28 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,074
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.92	Total KISOP Treated (MG)	-
Residential Customers	903	Total Treated (MG)	100.375
Commercial Customers	74	Number of Manholes	354
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 18.78 miles (Collection: 17.80 miles, Interceptors: 0.98 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Carlisle Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21181005	Carlisle Wastewater Collection Rehabilitation	3-5 Years	Not Funded	$600,000	Nicholas		

System Summary for Nicholas County Sanitation District #2

Permit ID	KIA181001	Treats Wastewater	No
System Type	KIA Non-Permitted	Total Connections	102
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$66.75	Total KISOP Treated (MG)	-
Residential Customers	102	Total Treated (MG)	4.000
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 7.21 miles (Collection: 7.21 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Nicholas County Sanitation District #2

Powell County

- 2010 census population of 12,613 (5,598 households) with 34% serviceable.
- Projected 2020 population of 12,319 (change of -294).
- Powell County has 51.20 miles of existing sewer lines.
- 6.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,467,308.
- Estimated funding needs for projects from 6 to 10 years: $4,066,000.



Powell County has a 2010 census population count of 12,613 (5,598 households) with a projected 2020 population count of 12,319 (4,860 households). Public sewer is currently available to approximately 34 percent of the county's households based on 2010 census counts. Over the next ten years approximately 242 serviceable households will be added through the construction of 6.00 miles of sewer line extensions and approximately 1,690 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Clay City	3	$2,696,308	200	467	5.00	-	-
City of Stanton	2	$2,452,000	12	1,223	-	-	-
Powell's Valley Water District	1	$385,000	30	-	1.00	-	-
Totals:	**6**	**$5,533,308**	**242**	**1,690**	**6.00**	**-**	**-**

Public Wastewater Systems in Powell County

Note: Serviceability counts are for households within Powell county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000084	Clay City WWTP	Powell	1,210	584
KY0104078	Powells Valley Water District Sewer Division	Powell	71	59
KY0034428	Red River Wastewater Authority	Powell	2,921	1,280
		Totals:	4,202	1,923

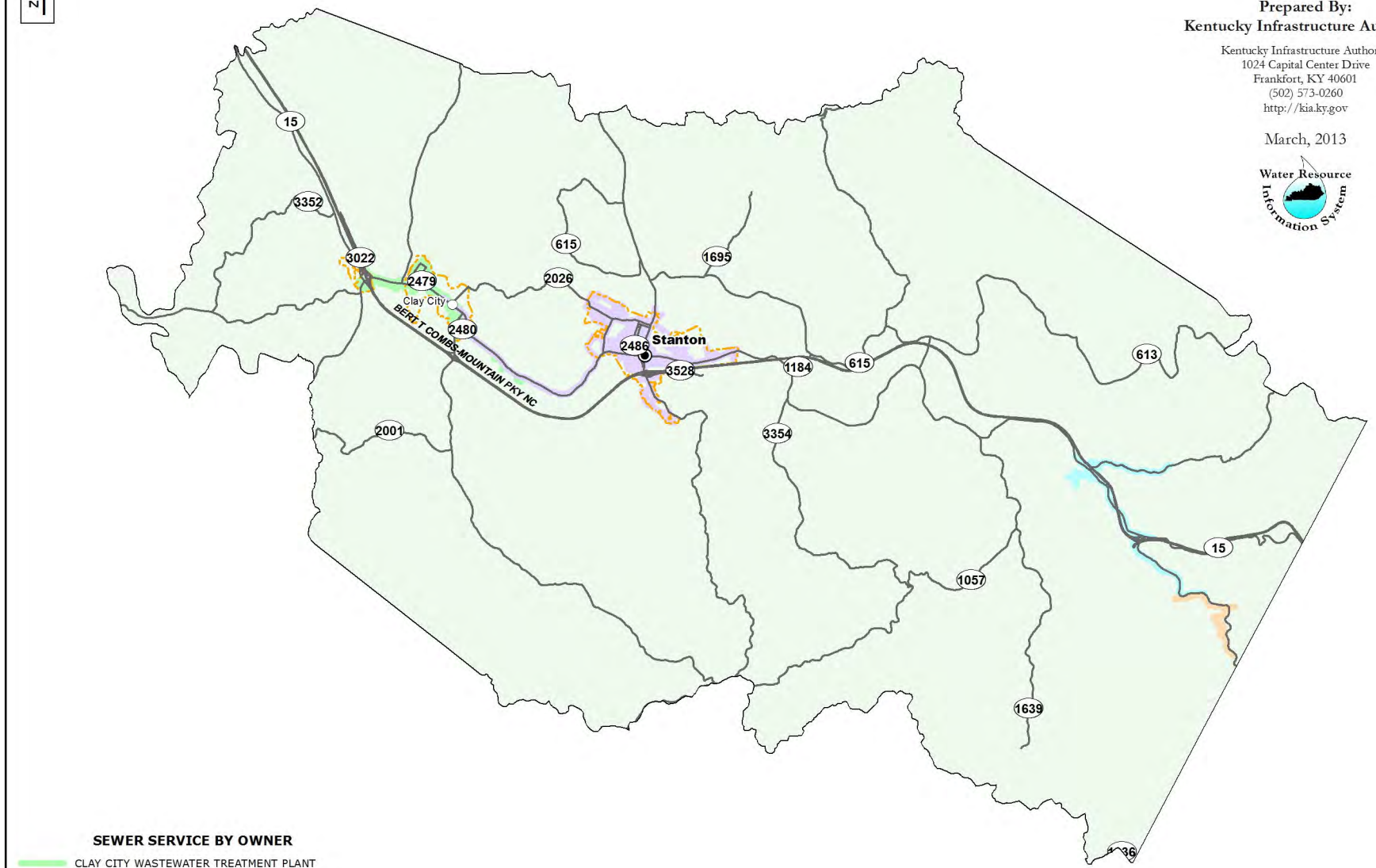
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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER

- CLAY CITY WASTEWATER TREATMENT PLANT
- KY DOP NATURAL BRIDGE ST PARK
- POWELLS VALLEY WATER DISTRICT SEWER DIVISION
- STANTON SEWER DEPARTMENT

System Summary for Clay City WWTP

Permit ID	KYP000084	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	-
Owner Type		KISOP Sender	Yes, to 1 receiver.
Employees	-	Total KISOP Sent (MG)	79.601
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 10.05 miles (Collection: 7.24 miles, Interceptors: 2.81 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Clay City WWTP

System Summary for Powells Valley Water District Sewer Division

Permit ID	KY0104078	Treats Wastewater	Yes, 0.08 MGD with 0.01 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	108
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$50.24	Total KISOP Treated (MG)	-
Residential Customers	70	Total Treated (MG)	8.395
Commercial Customers	38	Number of Manholes	68
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 7.14 miles (Collection: 3.29 miles, Interceptors: 3.85 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Powells Valley Water District Sewer Division

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21197011	Powells Valley - Cabin Country Sanitary Sewer Extensions Project	3-5 Years	Not Funded	$385,000	Powell		

System Summary for Red River Wastewater Authority

Permit ID	KY0034428	Treats Wastewater	Yes, 0.46 MGD with 0.53 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,518
Owner Type	Governmental Non-Profit Sewer Utility	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$29.80	Total KISOP Treated (MG)	79.601
Residential Customers	-	Total Treated (MG)	202.900
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	25
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	1	Has Facility Plan	No
Total Collection System Line Length = 31.30 miles (Collection: 21.89 miles, Interceptors: 9.41 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Red River Wastewater Authority

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21197006	Stanton-Sanitary Sewer Service Area Expansion, Phase I	6-10 Years	Not Funded	$1,702,000	Powell		
SX21197010	Stanton SSES and Sewer Rehab	0-2 Years	Partially Funded	$750,000	Powell		

System Summary for Stanton, City of

Permit ID	KYP000085	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	-
Owner Type		KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Stanton, City of

Scott County

- 2010 census population of 47,173 (19,303 households) with 68% serviceable.
- Projected 2020 population of 63,984 (change of 16,811).
- Scott County has 242.17 miles of existing sewer lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 2.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,170,000.
- There are no projects planned from 6 to 10 years.



Scott County has a 2010 census population count of 47,173 (19,303 households) with a projected 2020 population count of 63,984 (25,538 households). Public sewer is currently available to approximately 68 percent of the county's households based on 2010 census counts. Over the next ten years approximately 520 serviceable households will be added through the construction of 1.00 miles of sewer line extensions and approximately 10,848 instances of improved service through system wide upgrades. 2.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Georgetown	2	$3,170,000	520	10,848	1.00	-	2.00
Totals:	**2**	**$3,170,000**	**520**	**10,848**	**1.00**	**-**	**2.00**

Public Wastewater Systems in Scott County

Note: Serviceability counts are for households within Scott county only.

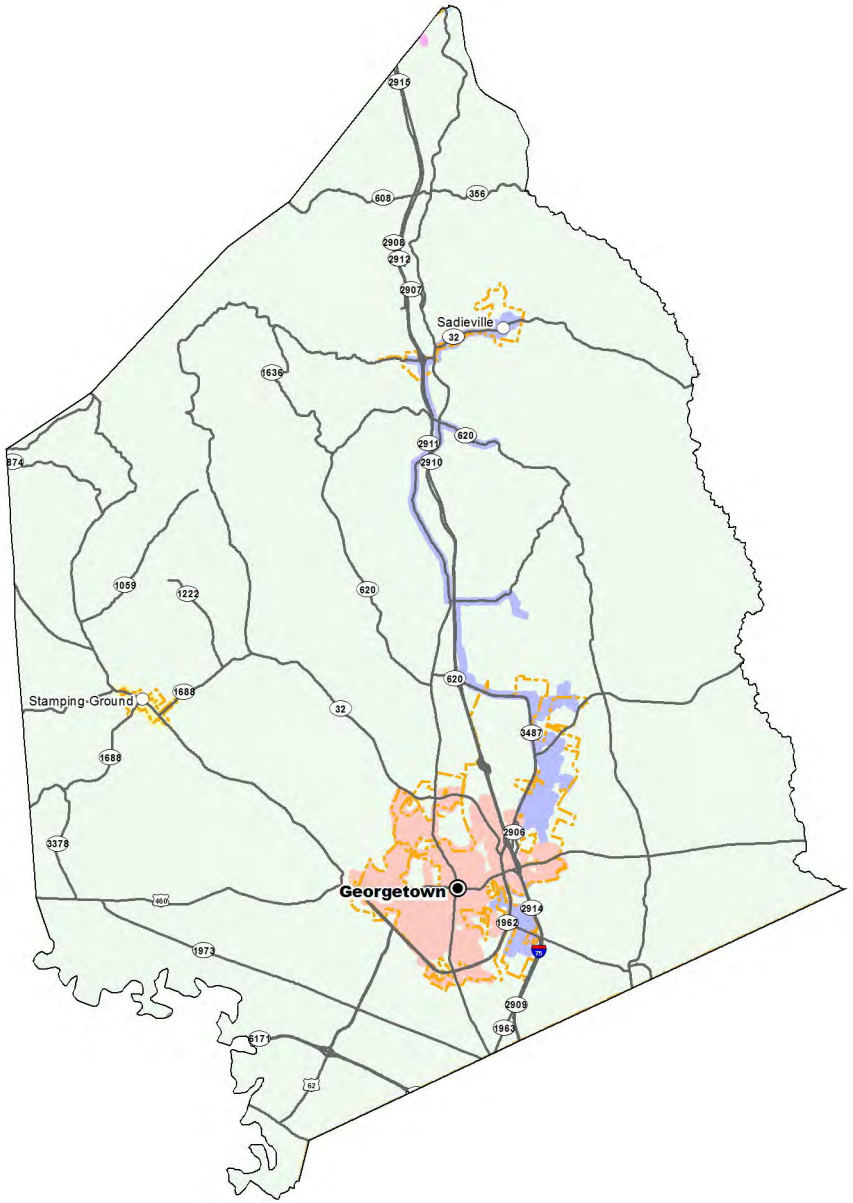
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020150	GMWSS STP #1	Scott	28,330	11,731
KY0082007	GMWSS STP #2	Scott	2,712	1,001
KY0050512	GMWSS STP #3 - Stamping Ground	Scott	803	359
		Totals:	31,845	13,091

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March, 2013



System Summary for GMWSS STP #1

Permit ID	KY0020150	Treats Wastewater	Yes, 4.5 MGD with 2.65 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	10,520
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	53	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.98	Total KISOP Treated (MG)	-
Residential Customers	8,045	Total Treated (MG)	1,203.507
Commercial Customers	1,127	Number of Manholes	4610
Institutional Customers	-	Number of Lift Stations	30
Industrial Customers	9	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed

Total Collection System Line Length = 173.45 miles (Collection: 145.92 miles, Interceptors: 27.53 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for GMWSS STP #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21209012	Georgetown/Scott County South Sewer Extension	0-2 Years	Partially Funded	$2,820,000	Scott	1	1
SX21209007	City of Georgetown-WWTP #1 Rbc Demolition	0-2 Years	Not Funded	$350,000	Scott		

System Summary for GMWSS STP #2

Permit ID	KY0082007	Treats Wastewater	Yes, 2.2 MGD with 0.92 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,110
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	53	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.98	Total KISOP Treated (MG)	-
Residential Customers	1,142	Total Treated (MG)	375.000
Commercial Customers	-	Number of Manholes	4500
Institutional Customers	-	Number of Lift Stations	11
Industrial Customers	1	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed

Total Collection System Line Length = 61.85 miles (Collection: 42.80 miles, Interceptors: 19.05 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for GMWSS STP #2

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21209007	City of Georgetown-WWTP #1 Rbc Demolition	0-2 Years	Not Funded	$350,000	Scott		

System Summary for GMWSS STP #3 - Stamping Ground

Permit ID	KY0050512	Treats Wastewater	Yes, 0.14 MGD with 0.09 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	241
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	53	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.98	Total KISOP Treated (MG)	-
Residential Customers	215	Total Treated (MG)	18.815
Commercial Customers	30	Number of Manholes	55
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 6.61 miles (Collection: 6.23 miles, Interceptors: 0.38 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for GMWSS STP #3 - Stamping Ground

System Summary for Longview Land Company LLC

Permit ID	KY0081591	Treats Wastewater	Yes, 0.1 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.01 miles (Collection: 0.01 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Longview Land Company LLC

System Summary for Mallard Point Subdivision

Permit ID	KY0074829	Treats Wastewater	Yes, 0.15 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Mallard Point Subdivision

Woodford County

- 2010 census population of 24,939 (10,711 households) with 68% serviceable.
- Projected 2020 population of 26,817 (change of 1,878).
- Woodford County has 111.40 miles of existing sewer lines.
- 15.00 miles of line extensions proposed in the next 10 years.
- 50.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $35,728,499.
- There are no projects planned from 6 to 10 years.



Woodford County has a 2010 census population count of 24,939 (10,711 households) with a projected 2020 population count of 26,817 (11,147 households). Public sewer is currently available to approximately 68 percent of the county's households based on 2010 census counts. Over the next ten years approximately 600 serviceable households will be added through the construction of 15.00 miles of sewer line extensions and approximately 8,152 instances of improved service through the rehabilitation of 50.00 miles of existing sewer lines and other appurtenances. 1.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Midway	3	$2,590,000	-	700	-	-	1.00
City of Versailles	7	$33,138,499	600	7,452	15.00	50.00	-
Totals:	**10**	**$35,728,499**	**600**	**8,152**	**15.00**	**50.00**	**1.00**

Public Wastewater Systems in Woodford County

Note: Serviceability counts are for households within Woodford county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0028410	Midway Sewer Department	Woodford	1,723	752
KY0020621	Versailles Municipal Wastewater	Woodford	15,614	6,547
		Totals:	17,337	7,299

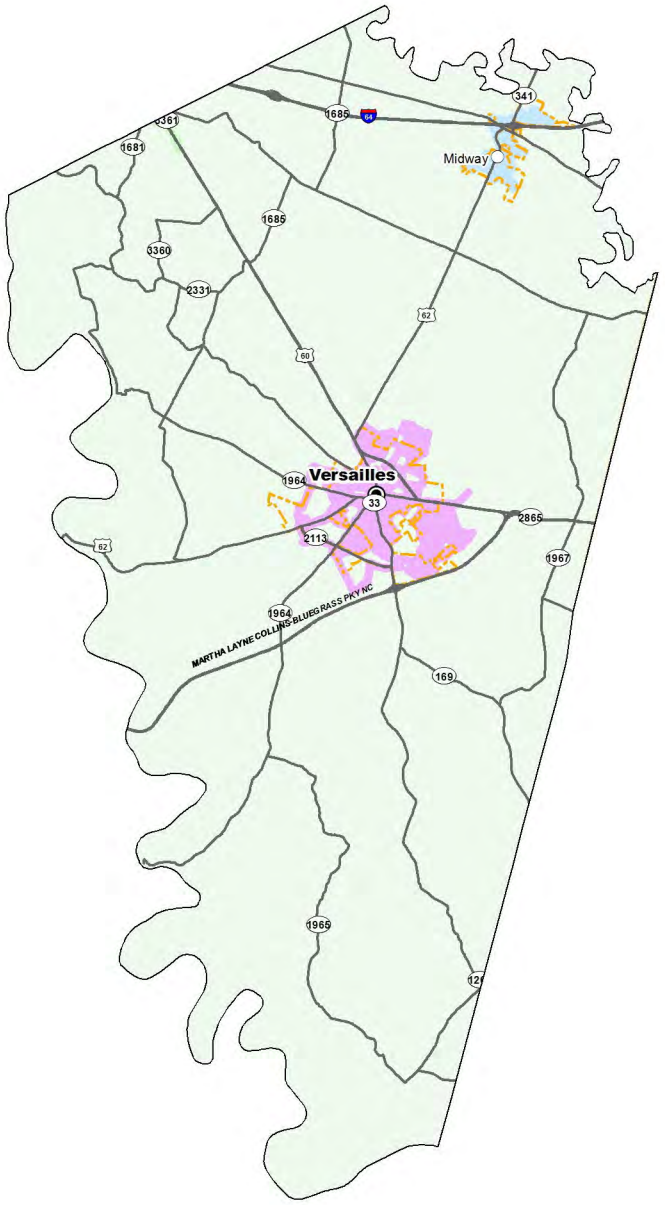
SEWER SERVICE AREAS
WOODFORD COUNTY
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March, 2013

Water Resource Information System



System Summary for Midway Sewer Department

Permit ID	KY0028410	Treats Wastewater	Yes, 0.75 MGD with 0.2 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	7,035
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$36.50	Total KISOP Treated (MG)	-
Residential Customers	676	Total Treated (MG)	27.000
Commercial Customers	44	Number of Manholes	178
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 12.74 miles (Collection: 11.95 miles, Interceptors: 0.79 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Midway Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21239003	Midway Brand Street Sewer Rehab Project	0-2 Years	Not Funded	$670,000	Woodford	26	3
SX21239013	Midway Sanitary Sewer Evaluation and Improvements	0-2 Years	Not Funded	$1,420,000	Woodford		
SX21239004	Midway Phase I Sewer System Rehabilitation Project	3-5 Years	Not Funded	$500,000	Woodford		

System Summary for Versailles Municipal Wastewater

Permit ID	KY0020621	Treats Wastewater	Yes, 3 MGD with 1.99 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	5,626
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$20.06	Total KISOP Treated (MG)	-
Residential Customers	4,560	Total Treated (MG)	937.000
Commercial Customers	700	Number of Manholes	2134
Institutional Customers	-	Number of Lift Stations	19
Industrial Customers	-	Percent Lines 20 yrs or Older	70%
KISOP Customers	-	Has Facility Plan	Yes, 45% Constructed
Total Collection System Line Length = 97.84 miles (Collection: 86.16 miles, Interceptors: 11.68 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Versailles Municipal Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21239010	Versailles Wastewater Treatment Plant Expansion	0-2 Years	Not Funded	$20,911,190	Woodford	10	4
SX21239006	Southeast Sewer System Expansion	3-5 Years	Not Funded	$3,996,000	Woodford		
SX21239008	Ultra-Violet Disinfection and Improvements At The Wastewater Treatment Plant	0-2 Years	Not Funded	$2,000,000	Woodford		
SX21239012	Sanitary Sewer System Rehabilitation - Phase 3	0-2 Years	Not Funded	$1,974,800	Woodford		
SX21239009	Sanitary Sewer Rehabilitation Phase I Versailles	0-2 Years	Partially Funded	$1,677,000	Woodford		
SX21239011	City of Versailles - Sanitary Sewer System Rehabilitation - Phase 2	0-2 Years	Not Funded	$1,579,509	Woodford		
SX21239005	Emergency Backup Power to Serve The WWTP	0-2 Years	Not Funded	$1,000,000	Woodford		

Barren River Area Development District (BRADD)

- 2010 census population of 284,195 (126,280 households) with 44% serviceable.
- Projected 2020 population of 316,297 (change of 32,102).
- 975.96 miles of existing sewer lines.
- 155.00 miles of line extensions proposed in the next 10 years.
- 31.00 miles of line rehabilitation proposed in the next 10 years.
- 9.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $145,002,844.
- Estimated funding needs for projects from 6 to 10 years: $12,078,000.
- Average age of wastewater treatment plants is 34 years.
- Total number of interconnected systems is 1.
- 213 miles of sewer lines less than 15 years old.
- 265 miles of sewer lines between 15 and 30 years old.
- 430 miles of sewer lines between 31 and 50 years old.
- 60 miles of sewer lines between 51 and 70 years old.
- 8 miles of sewer lines greater than 70 years old.



Barren River Area Development District has a 2010 census population count of 284,195 (126,280 households) with a projected 2020 population count of 316,297 (128,239 households). Public sewer is currently available to approximately 44 percent of the district's households based on 2010 census counts. Over the next ten years approximately 3,061 serviceable households will be added through the construction of 155.00 miles of sewer line extensions and approximately 31,163 instances of improved service through the rehabilitation of 31.00 miles of existing sewer lines and other appurtenances. 9.00 miles of interceptor lines are also proposed within this district.

County Summary for Barren River Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Allen	19,956	9,307	22,366	9,171	2,043	22%	$ 9,400,000
Barren	42,173	19,188	46,361	19,245	8,862	46%	$ 36,551,360
Butler	12,690	5,877	12,544	5,178	1,129	19%	$ 5,611,940
Edmonson	12,161	6,467	12,628	5,283	633	10%	$ 11,158,771
Hart	18,199	8,559	18,690	7,604	2,368	28%	$ 8,442,620
Logan	26,835	12,339	27,382	11,301	4,861	39%	$ 37,857,759
Metcalfe	10,099	4,681	10,329	4,306	810	17%	$ 1,375,000
Monroe	10,963	5,204	10,405	4,423	1,510	29%	$ 3,013,000
Simpson	17,327	7,435	18,342	7,429	4,437	60%	$ 20,866,694
Warren	113,792	47,223	137,250	54,299	29,328	62%	$ 22,803,700
Totals	**284,195**	**126,280**	**316,297**	**128,239**	**55,981**	**44%**	**$ 157,080,844**

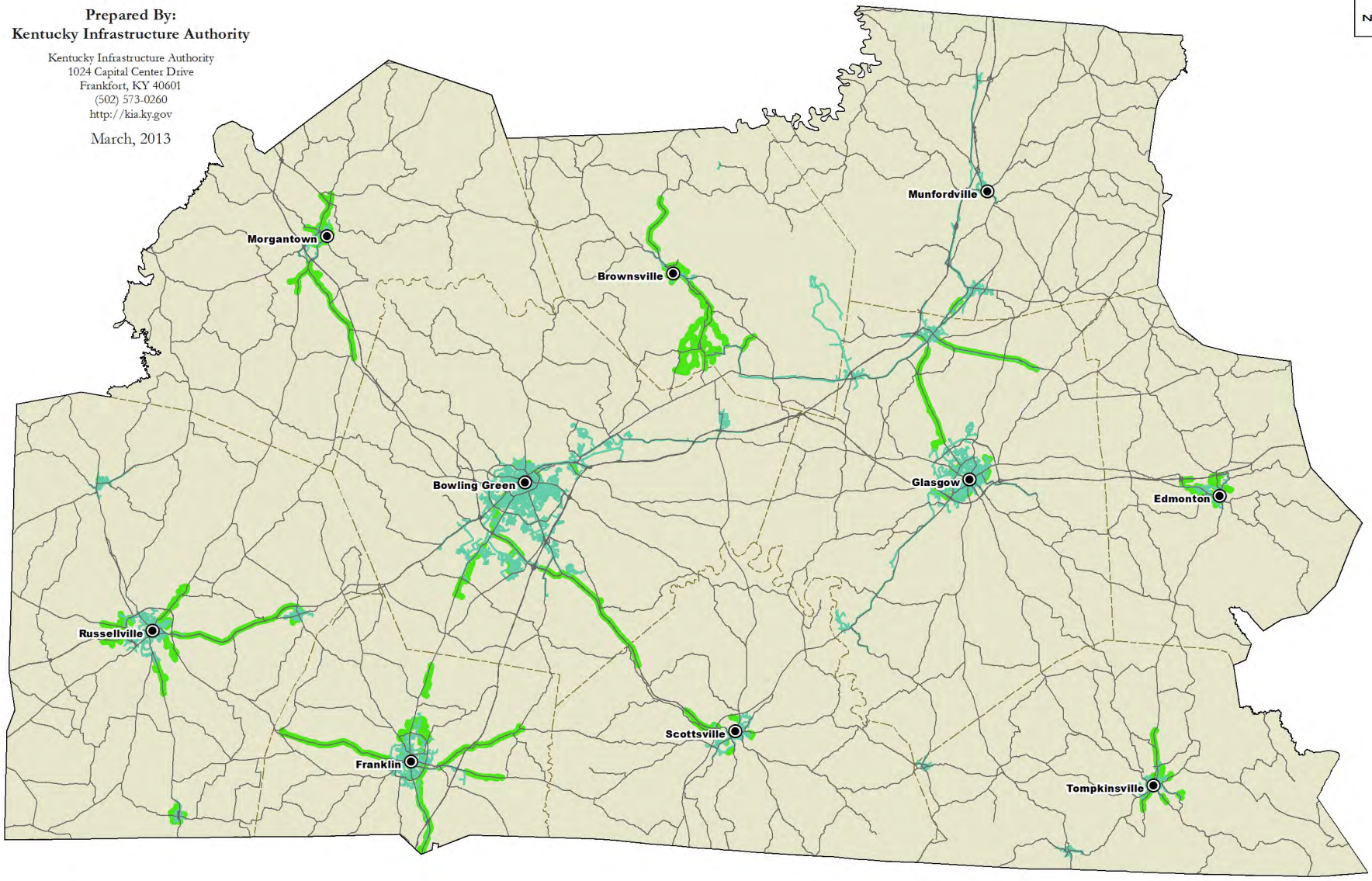
EXISTING & PROPOSED SEWER LINES

BRADD

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March, 2013



SEWER LINES

- Proposed Sewer Lines
- Existing Sewer Lines

Water Resource Information System

Public Sewer Systems in the Barren River Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0024783	Scottsville Municipal Water & Sewer Department	Allen	4,154	2,043
KY0021164	Glasgow Water Company	Barren	15,071	7,238
KY0021024	Morgantown Utilities	Butler	2,442	1,129
KY0023396	Brownsville Municipal Water & Sewer	Edmonson	813	409
KY0091561	Caveland Environmental Authority	Hart	7,130	3,422
KY0031755	Munfordville Municipal Water/Sewer Commission	Hart	1,585	781
KY0020885	Adairville Sewer Department	Logan	895	434
KY0021202	Auburn Sewer Department	Logan	1,413	662
KY0024881	Lewisburg Municipal Water & Sewer Department	Logan	853	458
KY0020877	Russellville Municipal Sewer Department	Logan	6,821	3,307
KY0028100	Edmonton Water Works	Metcalfe	1,597	810
KIA171001	Fountain Run Water District #1	Monroe	228	134
KY0095257	Gamaliel Municipal Water & Wastewater Department	Monroe	457	215
KY0020702	Tompkinsville Sewer Department	Monroe	2,332	1,163
KY0027456	Franklin Sewer Department	Simpson	10,083	4,437
KY0022403	Bowling Green Municipal Utilities	Warren	54,421	23,172
KYP000032	Warren County Water District	Warren	15,078	6,156
		Totals:	125,373	55,970

Barren River Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Extend Services to Unserved Areas**

Discussion of Area Development District Needs:

The majority of planning units within the BRADD region have identified the repair and replacement of existing infrastructure as the primary need within their respective county. Evidence of this need is reflected by the types of projects currently on record as well as the overall regional priority rankings submitted by each planning unit. Many planning units within the region have identified aging and/or failing existing infrastructure as a major obstacle to improving water service quality and have developed projects to combat this issue. Planning units also indicated that addressing the primary need of repair and replacement will also aid in the pursuit of extending services to unserved areas which, represents the secondary need most identified most frequently within the BRADD region.

Description and Determination of Planning Units:

Planning units within the BRADD region are determined by county and are comprised of all wastewater systems located within county boundaries. In addition, wastewater systems that operate on a regional level within multiple counties are included in each planning unit in which they operate. Wastewater planning units within the BRADD region:

Allen:
- Scottsville Municipal Water & Sewer Department

Barren:
- Glasgow Water Company

Butler:
- Morgantown Utilities

Edmonson:
- Brownsville Municipal Water & Sewer
- Edmonson County Water District

Hart:
- Caveland Environmental Authority
- Munfordville Municipal Water/Sewer Commission

Logan:
- Adairville Sewer Department
- Auburn Sewer Department
- Lewisburg Municipal Water & Sewer Department
- Russellville Municipal Sewer Department

Metcalfe:
- Edmonton Water Works

Monroe:
- Fountain Run Water District #1
- Gamaliel Municipal Water & Wastewater DepartmentTompkinsville Sewer Department.

Simpson:
- Franklin Sewer Department.

Warren:
- Bowling Green Municipal Utilities
- Warren County Water District.

Barren River Area Development District
Project Ranking Methodology

The Barren River Water Management Council utilizes the following criteria for the prioritization of water and wastewater projects on a regional scale. The criteria has been adapted from previous versions used by the BRADD combined with examples from other ADDs resulting in a 5 tiered ranking criteria to determine a numerical point value for each project. This process provides for increased collaboration on a local level to increase awareness on the impacts (locally and regionally) of proposed projects.

County Planning Unit Councils meet at least once locally to discuss and rank potential projects. These meetings are hosted by the County Judge/Executive with each local utility, mayor and other officials invited to attend. All proposed projects are reviewed by the council and given a numerical score based on a five tiered ranking criteria including: (1. Project Type 2.Complicance with Enforcement Action 3. Funding Status 4. Project Status and 5. County Ranking). Due to the diverse composition of each planning unit, a wide variety of interests are represented and therefore collaboration and compromise are key factors throughout the ranking process. This also provides for an increased level of understanding regarding the needs of planning unit as a whole and ensures that projects providing the most benefit (both locally and regionally) receive priority.

After all Planning Unit Council meetings have been completed, a summary tabulation of project scores is created and the Area Water Management Council meets to vote and finalize the regional ranking priorities. The top five scoring projects for each county are selected for ranking, resulting in a total of 50 ranked projects each for both water and wastewater. In addition, the top 10 overall projects are comprised of those projects identified as the #1 overall priority for each county (as indicated by each planning unit during regional ranking meetings). In this way each county is assured to have one project appear in the top 10 regional ranking, thus ensuring equal opportunity throughout the region. After the top 10 the projects are ranked based on overall score. The following criteria are used to score projects:

Clean Water Ranking Criteria

I. Project Type

A. Will this project provide or continue regionalization and/or consolidation of wastewater treatment systems? (Proposed project reduces the number of NPDES discharges by regionalization) = 25 points
B. Elimination of sewage treatment plant through an interconnection = 23 points
C. New Treatment Plant/Expanding Existing Plant = 20 points
D. Replacement and /or rehabilitation of aging infrastructure = 17 points

E. Economic Development
   100+ jobs created or maintained - 20 points
   75-99 jobs created or maintained - 19 points
   50-74 jobs created or maintained - 18 points
   20-49 jobs created or maintained - 15 points
   10-19 jobs created or maintained - 10 points
   less than 10 jobs created or maintained - 5 points

G. Extension of Service to Unserved Households
   9+ households per mile - 20 points
   7-8 households per mile - 19 points
   5-6 households per mile - 18 points
   3-4 households per mile - 15 points
   1-2 households per mile - 10 points

H. Underserved Customers
   80-100+ households per mile - 20 points
   60-80 households per mile - 19 points
   40-60 households per mile - 18 points

20-40 households per mile - 15 points
0-20 households per mile - 10 points

II. Compliance with Enforcement Action (Receive points in either A or B)

A. Does the project address correction of a documented health threat? = 10 Points
B. Is the project necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree? = 5 Points

III. Funding Status (Receive points in either A, B, or C)

A. Funds committed for 50-99% of total project cost = 10 points
B. Funds committed for 1-49% of total project cost = 5 points
C. No funds committed for project = 0 points

IV. Project Status (Can receive points in multiple categories)

A. All necessary approvals obtained to start construction (including rights-of-way) = 20 points
B. Engineering plans & specs submitted to DOW = 15 points
C. Preliminary engineering report complete = 10 points
D. Estimated engineer's budget complete = 5 points

V. County Ranking (Receive points in either A, B, C, or D)

A. Number one ranked project = 24 points
B. Number two ranked project =18 points
C. Number three ranked project = 14 points
D. Number four ranked project = 10 points
E. Number five ranked project = 8 Points

Project Rankings For Barren River Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21009044	Caveland Environmental - Hiseville School Sewer Project	3-5 Years	Not Funded	$1,000,000	Barren	1	1
SX21099023	Horse Cave Regional Water Replacement Facility Expansion Project	0-2 Years	Not Funded	$5,342,000	Hart	2	1
SX21031009	Morgantown - Sewer Main Infrastructure Replacement/Repair to Sewer Main	3-5 Years	Not Funded	$500,000	Butler	3	1
SX21171014	Fountain Run Water District #1 - Sewer System Improvements	3-5 Years	Not Funded	$360,000	Monroe	4	1
SX21141014	City of Auburn - Upgrade of Existing Wastewater Treatment Plant	3-5 Years	Not Funded	$2,000,000	Logan	5	1
SX21213028	City of Franklin - Sewer Upgrades to Ky Downs	3-5 Years	Not Funded	$798,000	Simpson	6	1
SX21227074	BGMU - Industrial Dr Interceptor	3-5 Years	Not Funded	$8,000,000	Warren	7	1
SX21061009	Edmonson County Water District - Collection System Phase III	3-5 Years	Not Funded	$7,843,771	Edmonson	8	1
SX21003022	City of Scottsville - Pump Station Replacement Project	3-5 Years	Not Funded	$1,250,000	Allen	9	1
SX21169007	Edmonton - Cumberland Parkway Area Extension	3-5 Years	Not Funded	$400,000	Metcalfe	10	1
SX21009018	Glasgow Southside Interceptor Project	0-2 Years	Not Funded	$5,500,000	Barren	11	2
SX21141047	Sewer System Extension Project	0-2 Years	Not Funded	$810,000	Logan	12	2
SX21099022	City of Munfordville - Sewer Extensions and Pump Station Rehabilitations	3-5 Years	Not Funded	$1,250,620	Hart	13	2
SX21213032	City of Franklin - Sunset Circle Sewer Project	0-2 Years	Not Funded	$400,000	Simpson	14	2
SX21061007	Edmonson County Water District - KY 259 Wastewater Collection System	3-5 Years	Not Funded	$3,315,000	Edmonson	15	2
SX21227030	WCWD - Hwy 68 West Lift Station Upgrade	0-2 Years	Not Funded	$500,000	Warren	16	2
SX21003036	City of Scottsville - Inflow and Infiltration Project, Phase I	0-2 Years	Not Funded	$400,000	Allen	17	2
SX21031003	Hwy 231/Hwy 79S Area Sewer	3-5 Years	Not Funded	$1,611,500	Butler	18	2
SX21169011	Edmonton - Harvey Hurt Rd. Area Extension	3-5 Years	Not Funded	$350,000	Metcalfe	19	2
SX21171003	City of Tompkinsville - Collection System Extensions to Unserved Areas	3-5 Years	Not Funded	$1,000,000	Monroe	20	2
SX21009045	Caveland Environmental - Cave City Replacement	0-2 Years	Not Funded	$900,000	Barren	21	3
SX21141036	Russellville - Franklin Road Sewer Project	3-5 Years	Not Funded	$1,020,000	Logan	22	3
SX21213024	City of Franklin - Sewer Line Replacement 31W Downtown	3-5 Years	Not Funded	$2,010,000	Simpson	23	3
SX21099021	City of Munfordville - SSES and Stormwater Inflow Removal Project	3-5 Years	Not Funded	$1,450,000	Hart	24	3
SX21003011	City of Scottsville - South Court Street Sewer Rehab	3-5 Years	Not Funded	$750,000	Allen	25	3
SX21031010	Morgantown - Sanitary Sewer Infiltration Project-Phase I	3-5 Years	Not Funded	$300,000	Butler	26	3
SX21171018	Fountain Run Water District #1 - SCADA control system for the sewer system	3-5 Years	Not Funded	$193,000	Monroe	27	3
SX21227079	BGMU - Collet and Fairview Sanitary Sewer Interceptor Rehabilitation	3-5 Years	Not Funded	$1,850,000	Warren	28	3
SX21169012	Edmonton - Old Glasgow Street Area Extension	3-5 Years	Not Funded	$300,000	Metcalfe	29	3
SX21031004	Logansport Area Sewer- Butler County Water System	3-5 Years	Not Funded	$415,800	Butler	30	4
SX21009049	CEA - Cave City WWTP Improvements	3-5 Years	Not Funded	$505,000	Barren	31	4
SX21227059	WCWD - Memphis Junction Lift Station Upgrade	3-5 Years	Not Funded	$1,243,000	Warren	32	4
SX21003018	City of Scottsville - Pump Station Telemetry Project	6-10 Years	Not Funded	$650,000	Allen	33	4
SX21099006	Caveland Environmental - Sewer Service to Rolling Hills Community	3-5 Years	Not Funded	$400,000	Hart	34	4

Project Rankings For Barren River Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21213027	City of Franklin - Manhole Rehabilitation Project	3-5 Years	Not Funded	$258,750	Simpson	35	4
SX21141034	Russellville Greens Sewer Project	3-5 Years	Not Funded	$595,000	Logan	36	4
SX21171008	City of Tompkinsville - Sewer Extension to Joe Harrison Carter School	3-5 Years	Not Funded	$450,000	Monroe	37	4
SX21169008	Edmonton - River Road Project Extension	3-5 Years	Not Funded	$300,000	Metcalfe	38	4
SX21003024	Scottsville - 231 Sewer Extension	0-2 Years	Not Funded	$3,000,000	Allen	39	5
SX21227081	Patton Drive and Lost River Cove Pump Station Renovation	0-2 Years	Not Funded	$250,000	Warren	40	5
SX21213021	City of Franklin - E Cedar St Sewer Line Project	3-5 Years	Not Funded	$475,000	Simpson	41	5
SX21031005	Morgantown - North Taylor Street Sewer Extension	3-5 Years	Not Funded	$72,000	Butler	42	5
SX21169005	Edmonton - Wastewater Facility Plan	0-2 Years	Not Funded	$25,000	Metcalfe	43	5
			Total Cost:	**$60,043,441**			

Allen County

- 2010 census population of 19,956 (9,307 households) with 22% serviceable.
- Projected 2020 population of 22,366 (change of 2,410).
- Allen County has 35.63 miles of existing sewer lines.
- 6.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,750,000.
- Estimated funding needs for projects from 6 to 10 years: $650,000.



Allen County has a 2010 census population count of 19,956 (9,307 households) with a projected 2020 population count of 22,366 (9,171 households). Public sewer is currently available to approximately 22 percent of the county's households based on 2010 census counts. Over the next ten years approximately 180 serviceable households will be added through the construction of 6.00 miles of sewer line extensions and approximately 4,404 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Scottsville	11	$8,200,000	180	4,404	6.00	-	-
Warren County Water District	1	$1,200,000	-	-	-	-	-
Totals:	**12**	**$9,400,000**	**180**	**4,404**	**6.00**	**-**	**-**

Public Wastewater Systems in Allen County

Note: Serviceability counts are for households within Allen county only.

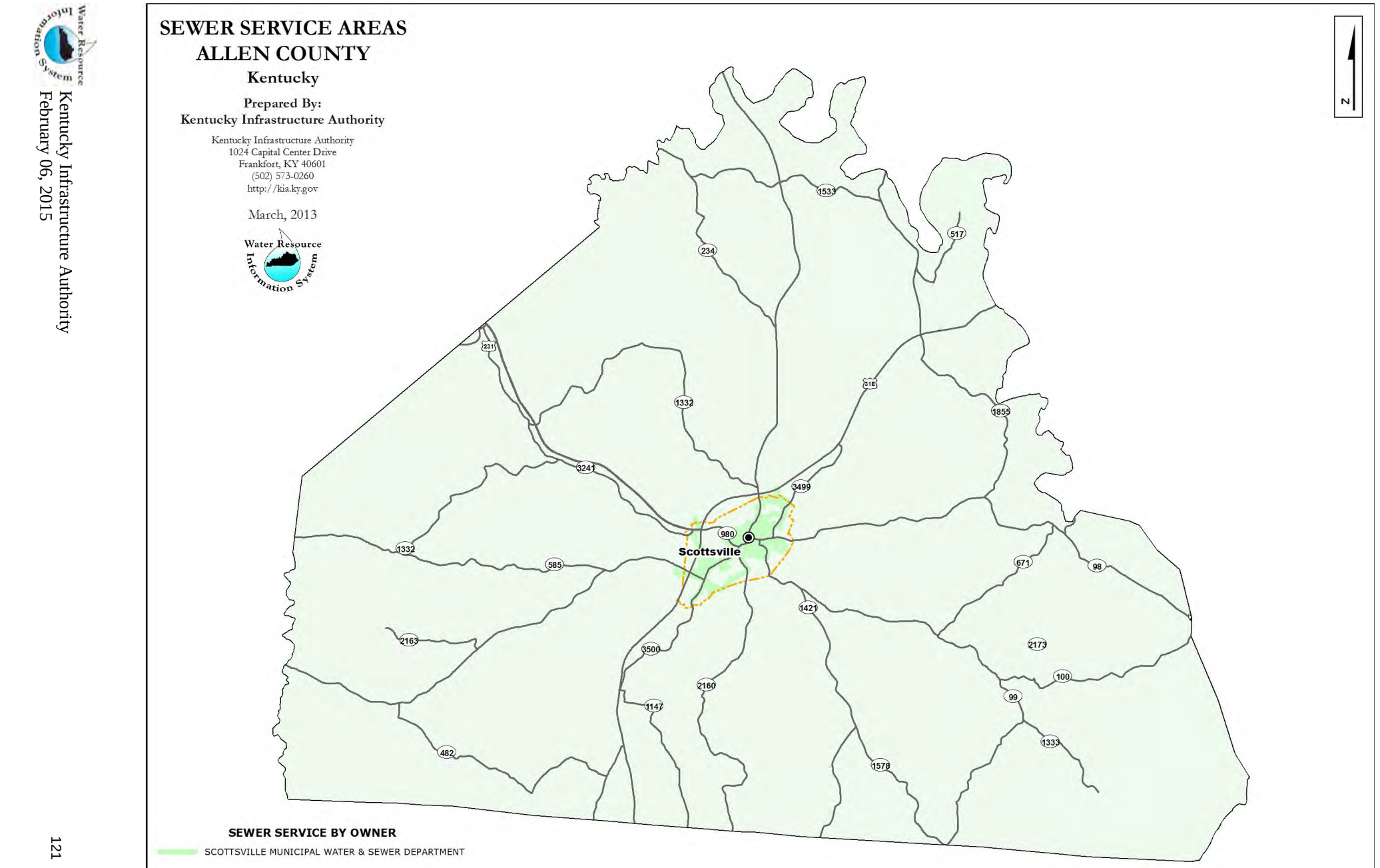
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0024783	Scottsville Municipal Water & Sewer Department	Allen	4,154	2,043
		Totals:	4,154	2,043

SEWER SERVICE AREAS
ALLEN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



SEWER SERVICE BY OWNER

SCOTTSVILLE MUNICIPAL WATER & SEWER DEPARTMENT

System Summary for Scottsville Municipal Water & Sewer Department

Permit ID	KY0024783	Treats Wastewater	Yes, 1.72 MGD with 0.67 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,813
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$12.60	Total KISOP Treated (MG)	-
Residential Customers	1,523	Total Treated (MG)	241.000
Commercial Customers	236	Number of Manholes	478
Institutional Customers	39	Number of Lift Stations	15
Industrial Customers	15	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 35.63 miles (Collection: 35.61 miles, Interceptors: 0.01 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Scottsville Municipal Water & Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21003022	City of Scottsville - Pump Station Replacement Project	3-5 Years	Not Funded	$1,250,000	Allen	9	1
SX21003036	City of Scottsville - Inflow and Infiltration Project, Phase I	0-2 Years	Not Funded	$400,000	Allen	17	2
SX21003011	City of Scottsville - South Court Street Sewer Rehab	3-5 Years	Not Funded	$750,000	Allen	25	3
SX21003018	City of Scottsville - Pump Station Telemetry Project	6-10 Years	Not Funded	$650,000	Allen	33	4
SX21003024	Scottsville - 231 Sewer Extension	0-2 Years	Not Funded	$3,000,000	Allen	39	5
SX21003023	Scottsville - New Glasgow Rd Sewer Line	0-2 Years	Not Funded	$750,000	Allen		
SX21003021	Scottsville - 980 & US231 Sewer Line Connection	0-2 Years	Not Funded	$500,000	Allen		
SX21003034	City of Scottsville - Marcrum Lane Sewer Project	3-5 Years	Not Funded	$500,000	Allen		
SX21003035	City of Scottsville - Cherokee Drive Sewerline Relocation Project	0-2 Years	Not Funded	$200,000	Allen		
SX21003030	City of Scottsville - Sewer Lines to Future Industrial Property	3-5 Years	Not Funded	$100,000	Allen		
SX21003031	City of Scottsville Phosphorus Treatment Project	0-2 Years	Not Funded	$100,000	Allen		

Barren County

- 2010 census population of 42,173 (19,188 households) with 46% serviceable.
- Projected 2020 population of 46,361 (change of 4,188).
- Barren County has 190.31 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- 3.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $36,551,360.
- There are no projects planned from 6 to 10 years.



Barren County has a 2010 census population count of 42,173 (19,188 households) with a projected 2020 population count of 46,361 (19,245 households). Public sewer is currently available to approximately 46 percent of the county's households based on 2010 census counts. Over the next ten years approximately 15,640 instances of improved service through the rehabilitation of 10.00 miles of existing sewer lines and other appurtenances. 3.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Caveland Environmental Authority	4	$7,747,000	-	155	-	7.00	-
Glasgow Water and Sewer Commission	12	$28,804,360	-	15,485	-	3.00	3.00
Totals:	**16**	**$36,551,360**	**-**	**15,640**	**-**	**10.00**	**3.00**

Public Wastewater Systems in Barren County

Note: Serviceability counts are for households within Barren county only.

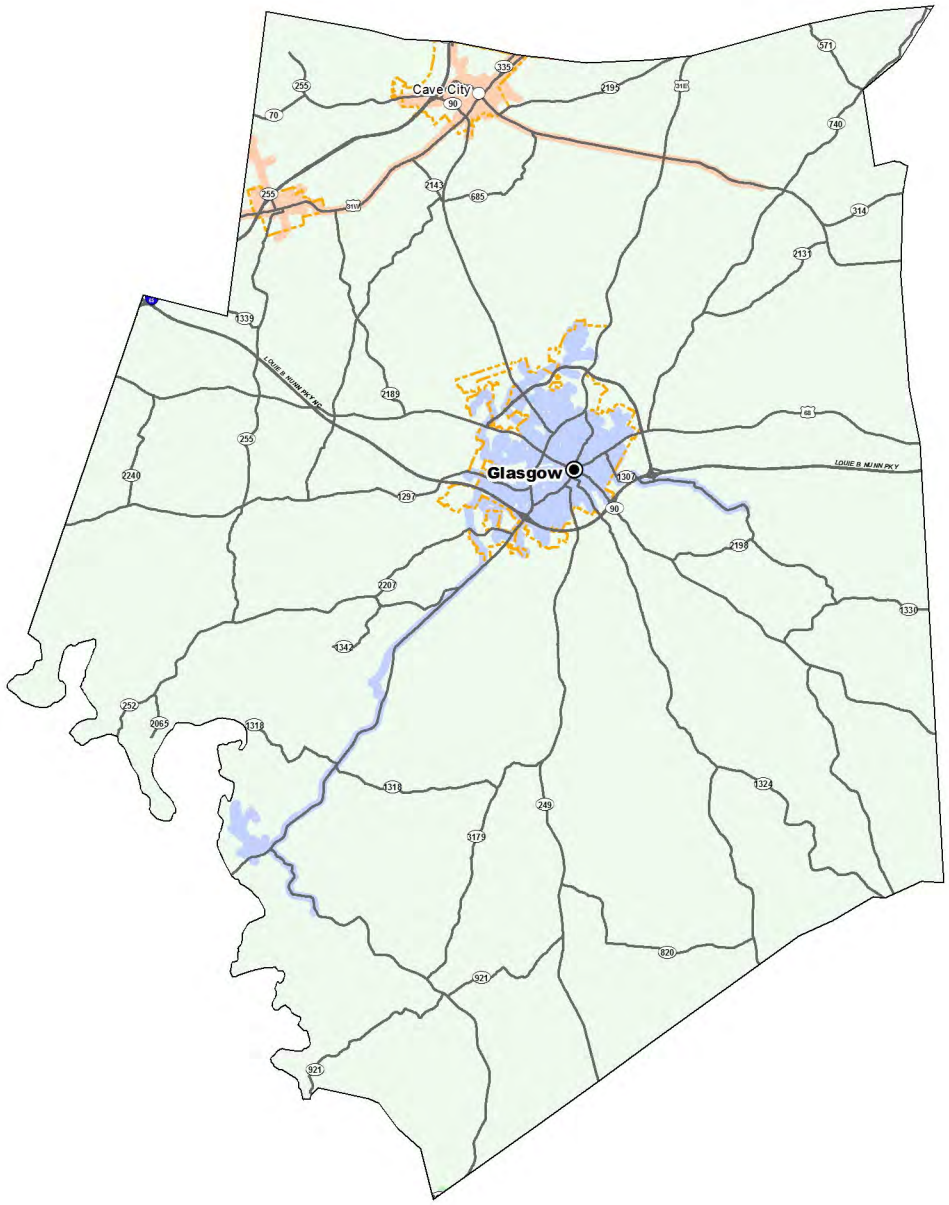
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021164	Glasgow Water Company	Barren	15,071	7,238
KY0091561	Caveland Environmental Authority	Hart	3,338	1,622
		Totals:	18,409	8,860

SEWER SERVICE AREAS
BARREN COUNTY
Kentucky

Prepared By:
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March, 2013



SEWER SERVICE BY OWNER

- CAVELAND ENVIRONMENTAL AUTHORITY
- FOUNTAIN RUN WATER DISTRICT #1
- GLASGOW WATER COMPANY

System Summary for Glasgow Water Company

Permit ID	KY0021164	Treats Wastewater	Yes, 4 MGD with 1.8 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	9,854
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	44	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$19.05	Total KISOP Treated (MG)	-
Residential Customers	4,888	Total Treated (MG)	893.155
Commercial Customers	842	Number of Manholes	2905
Institutional Customers	-	Number of Lift Stations	28
Industrial Customers	60	Percent Lines 20 yrs or Older	55%
KISOP Customers	-	Has Facility Plan	Yes, 30% Constructed
Total Collection System Line Length = 145.24 miles (Collection: 144.04 miles, Interceptors: 1.20 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Glasgow Water Company

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21009018	Glasgow Southside Interceptor Project	0-2 Years	Not Funded	$5,500,000	Barren	11	2
SX21009048	Glasgow WWTP Improvement - Upgrade Plant From 4Mgd to 6Mgd	3-5 Years	Not Funded	$9,994,000	Barren		
SX21009017	Glasgow Peak Storage Basin	0-2 Years	Partially Funded	$3,364,860	Barren		
SX21009040	Glasgow - WWTP - Surge Basins Installation / Headworks Improvement	0-2 Years	Not Funded	$2,430,000	Barren		
SX21009047	Glasgow WWTP Improvement - Phase II Headworks and Sludge Dewatering	3-5 Years	Not Funded	$2,104,000	Barren		
SX21009042	Glasgow WWTP Improvement - Rehabilitate Secondary Clarifiers	0-2 Years	Not Funded	$2,029,000	Barren		
SX21009041	Glasgow WWTP Improvement - New Return Activated Sludge/Waste Sludge Pump Station	3-5 Years	Not Funded	$1,115,000	Barren		
SX21009046	Glasgow WWTP Improvement - Peak Storage	3-5 Years	Not Funded	$636,000	Barren		
SX21009034	Glasgow Wastewater Improvement - Gravity Sewer Gorin Park to East Brook Trailer Park	3-5 Years	Not Funded	$500,000	Barren		
SX21009024	Glasgow Wastewater Improvement - Gravity Sewer Line Shane Drive/Rogers Road	0-2 Years	Not Funded	$425,000	Barren		
SX21009037	Glasgow - Simental-Herford	0-2 Years	Not Funded	$375,000	Barren		
SX21009035	Glasgow Trunkline to Sewer Plant - South	0-2 Years	Not Funded	$331,500	Barren		

Butler County

- 2010 census population of 12,690 (5,877 households) with 19% serviceable.
- Projected 2020 population of 12,544 (change of -146).
- Butler County has 19.58 miles of existing sewer lines.
- 18.00 miles of line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,611,940.
- There are no projects planned from 6 to 10 years.



Butler County has a 2010 census population count of 12,690 (5,877 households) with a projected 2020 population count of 12,544 (5,178 households). Public sewer is currently available to approximately 19 percent of the county's households based on 2010 census counts. Over the next ten years approximately 344 serviceable households will be added through the construction of 18.00 miles of sewer line extensions and approximately 786 instances of improved service through the rehabilitation of 10.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Butler County Water System Inc	4	$4,622,100	338	-	17.00	-	-
City of Morgantown	5	$989,840	6	786	1.00	10.00	-
Totals:	**9**	**$5,611,940**	**344**	**786**	**18.00**	**10.00**	**-**

Public Wastewater Systems in Butler County

Note: Serviceability counts are for households within Butler county only.

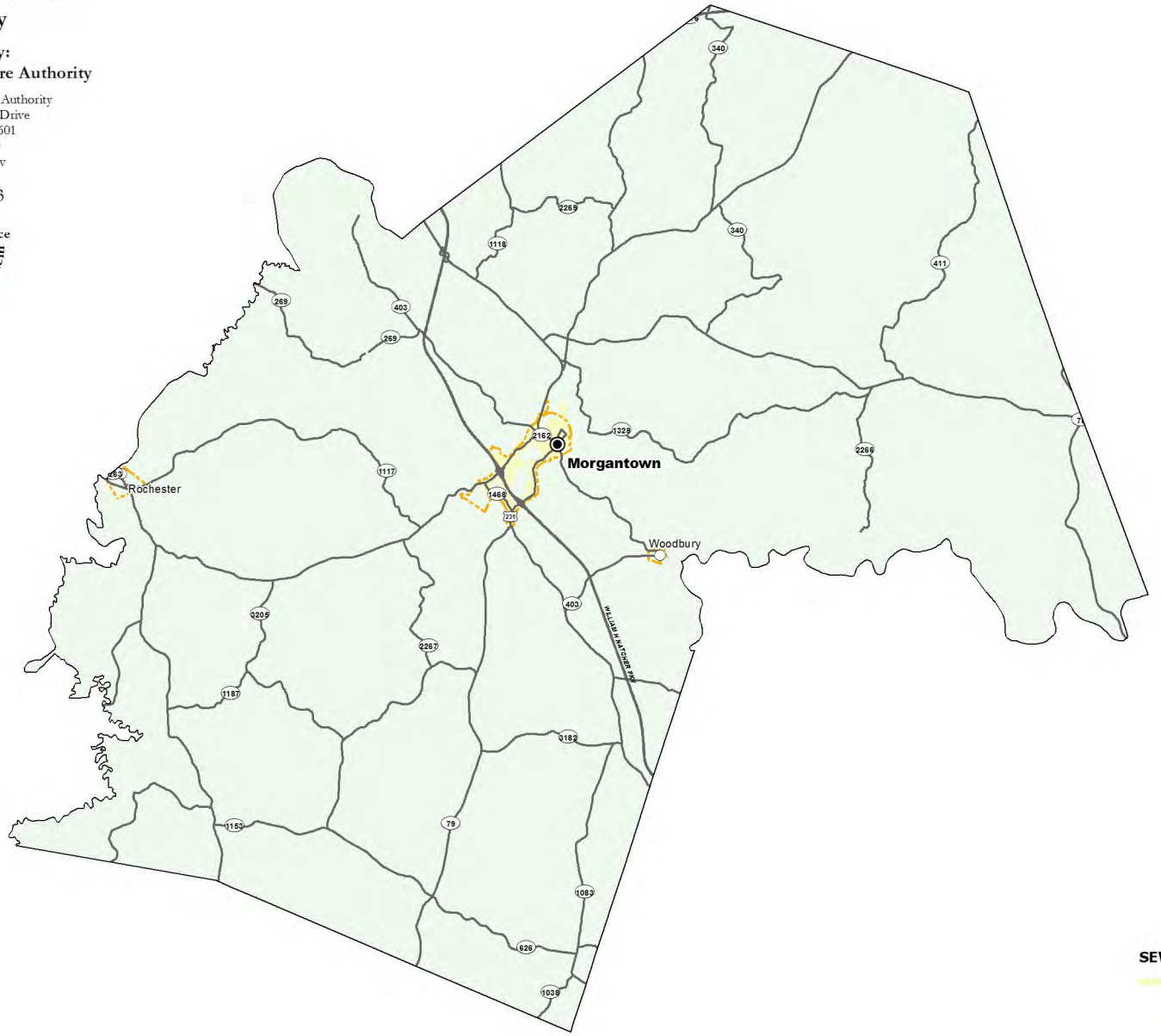
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021024	Morgantown Utilities	Butler	2,442	1,129
		Totals:	2,442	1,129

SEWER SERVICE AREAS
BUTLER COUNTY
Kentucky

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March, 2013



System Summary for Morgantown Utilities

Permit ID	KY0021024	Treats Wastewater	Yes, 0.5 MGD with 0.45 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	824
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$27.40	Total KISOP Treated (MG)	-
Residential Customers	652	Total Treated (MG)	54.750
Commercial Customers	162	Number of Manholes	200
Institutional Customers	-	Number of Lift Stations	9
Industrial Customers	10	Percent Lines 20 yrs or Older	55%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed

Total Collection System Line Length = 19.58 miles (Collection: 19.31 miles, Interceptors: 0.27 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Morgantown Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21031009	Morgantown - Sewer Main Infrastructure Replacement/Repair to Sewer Main	3-5 Years	Not Funded	$500,000	Butler	3	1
SX21031003	Hwy 231/Hwy 79S Area Sewer	3-5 Years	Not Funded	$1,611,500	Butler	18	2
SX21031010	Morgantown - Sanitary Sewer Infiltration Project-Phase I	3-5 Years	Not Funded	$300,000	Butler	26	3
SX21031004	Logansport Area Sewer- Butler County Water System	3-5 Years	Not Funded	$415,800	Butler	30	4
SX21031005	Morgantown - North Taylor Street Sewer Extension	3-5 Years	Not Funded	$72,000	Butler	42	5
SX21031002	Aberdeen Area Sewer - Butler County Water System	3-5 Years	Not Funded	$1,394,800	Butler		
SX21031008	BCWS - Needmore Area Sewers	0-2 Years	Not Funded	$1,200,000	Butler		
SX21031006	Morgantown - Sawmill Road Sewer Extension	3-5 Years	Not Funded	$80,000	Butler		
SX21031011	City of Morgantown - Sanitary Sewer Extension - Hwy 231	3-5 Years	Not Funded	$37,840	Butler		

Edmonson County

- 2010 census population of 12,161 (6,467 households) with 10% serviceable.
- Projected 2020 population of 12,628 (change of 467).
- Edmonson County has 30.84 miles of existing sewer lines.
- 24.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $11,158,771.
- There are no projects planned from 6 to 10 years.



Edmonson County has a 2010 census population count of 12,161 (6,467 households) with a projected 2020 population count of 12,628 (5,283 households). Public sewer is currently available to approximately 10 percent of the county's households based on 2010 census counts. Over the next ten years approximately 727 serviceable households will be added through the construction of 24.00 miles of sewer line extensions.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Edmonson County Water District	2	$11,158,771	727	-	24.00	-	-
Totals:	**2**	**$11,158,771**	**727**	**-**	**24.00**	**-**	**-**

Public Wastewater Systems in Edmonson County

Note: Serviceability counts are for households within Edmonson county only.

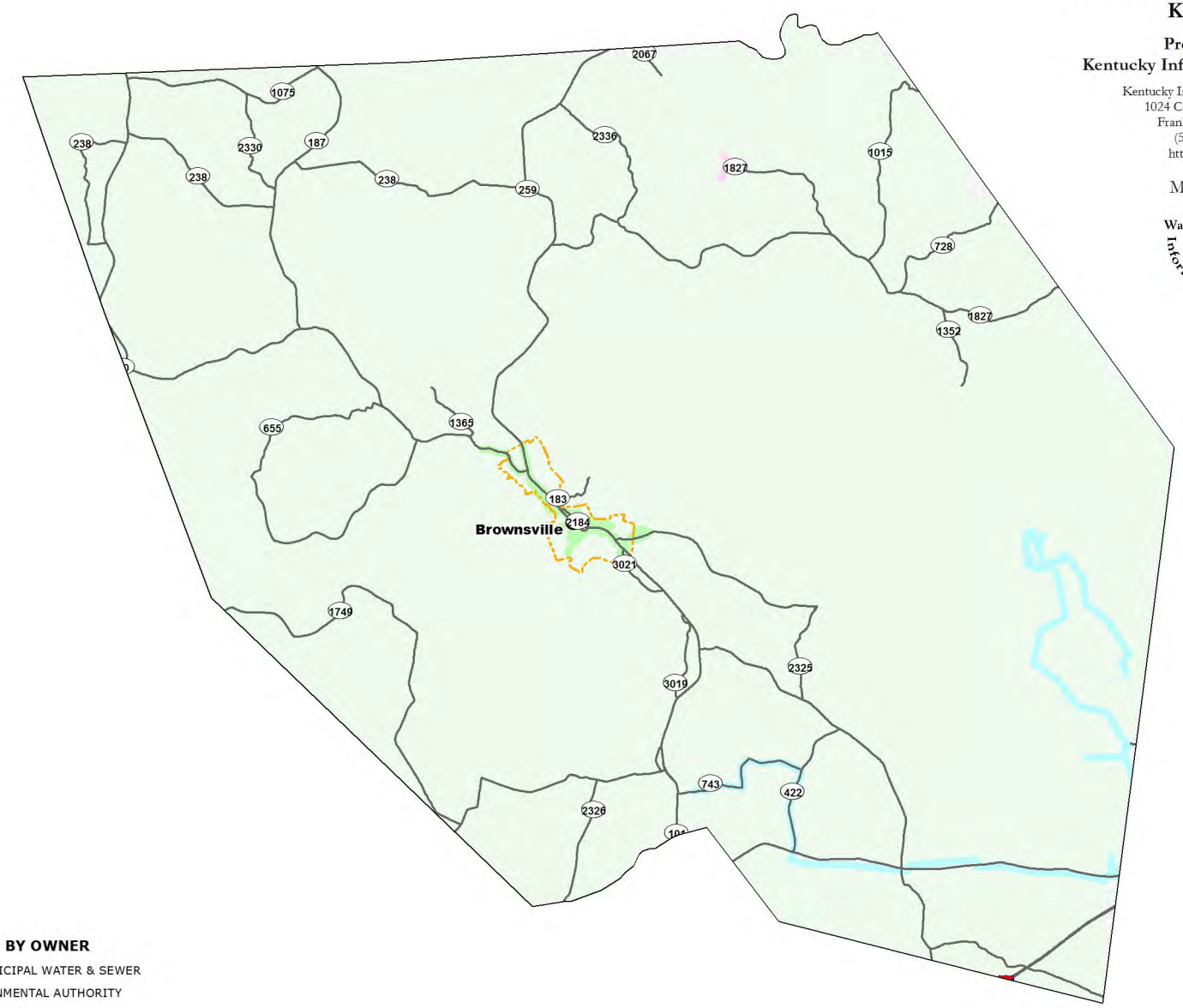
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0023396	Brownsville Municipal Water & Sewer	Edmonson	813	409
KY0091561	Caveland Environmental Authority	Hart	504	213
		Totals:	1,317	622

SEWER SERVICE AREAS
EDMONSON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



SEWER SERVICE BY OWNER

- BROWNSVILLE MUNICIPAL WATER & SEWER
- CAVELAND ENVIRONMENTAL AUTHORITY
- NOLIN LAKE STATE PARK

System Summary for Brownsville Municipal Water & Sewer

Permit ID	KY0023396	Treats Wastewater	Yes, 0.12 MGD with 0.06 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	480
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.10	Total KISOP Treated (MG)	-
Residential Customers	388	Total Treated (MG)	32.850
Commercial Customers	86	Number of Manholes	116
Institutional Customers	6	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	20%
KISOP Customers	-	Has Facility Plan	Yes, 55% Constructed
Total Collection System Line Length = 7.60 miles (Collection: 7.50 miles, Interceptors: 0.10 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Brownsville Municipal Water & Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21061009	Edmonson County Water District - Collection System Phase III	3-5 Years	Not Funded	$7,843,771	Edmonson	8	1
SX21061007	Edmonson County Water District - KY 259 Wastewater Collection System	3-5 Years	Not Funded	$3,315,000	Edmonson	15	2

Hart County

- 2010 census population of 18,199 (8,559 households) with 28% serviceable.
- Projected 2020 population of 18,690 (change of 491).
- Hart County has 60.32 miles of existing sewer lines.
- 3.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,442,620.
- There are no projects planned from 6 to 10 years.



Hart County has a 2010 census population count of 18,199 (8,559 households) with a projected 2020 population count of 18,690 (7,604 households). Public sewer is currently available to approximately 28 percent of the county's households based on 2010 census counts. Over the next ten years approximately 35 serviceable households will be added through the construction of 3.00 miles of sewer line extensions and approximately 3,422 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Caveland Environmental Authority	2	$5,742,000	5	3,422	1.00	-	-
City of Munfordville	2	$2,700,620	30	-	2.00	-	-
Totals:	**4**	**$8,442,620**	**35**	**3,422**	**3.00**	**-**	**-**

Public Wastewater Systems in Hart County

Note: Serviceability counts are for households within Hart county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0091561	Caveland Environmental Authority	Hart	3,288	1,587
KY0031755	Munfordville Municipal Water/Sewer Commission	Hart	1,585	781
		Totals:	4,873	2,368

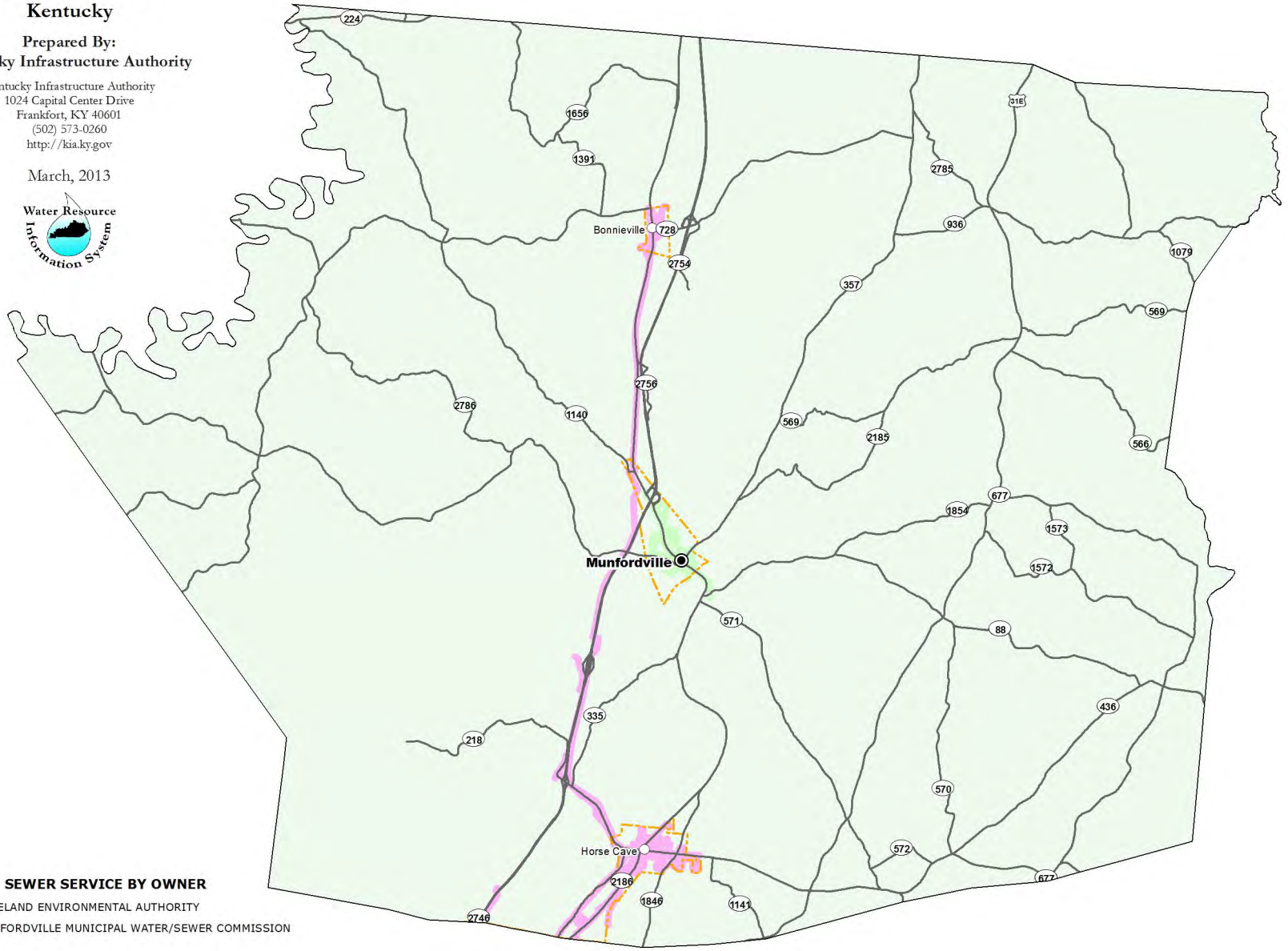
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Water Resource Information System



SEWER SERVICE BY OWNER

- CAVELAND ENVIRONMENTAL AUTHORITY
- MUNFORDVILLE MUNICIPAL WATER/SEWER COMMISSION

System Summary for Caveland Environmental Authority

Permit ID	KY0091561	Treats Wastewater	Yes, 0.88 MGD with 0.14 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,340
Owner Type	Joint Sewer Agency	KISOP Sender	No
Employees	16	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$55.32	Total KISOP Treated (MG)	-
Residential Customers	2,275	Total Treated (MG)	171.185
Commercial Customers	108	Number of Manholes	1047
Institutional Customers	-	Number of Lift Stations	43
Industrial Customers	-	Percent Lines 20 yrs or Older	60%
KISOP Customers	-	Has Facility Plan	Yes, 65% Constructed
Total Collection System Line Length = 113.77 miles (Collection: 113.77 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Caveland Environmental Authority

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21009044	Caveland Environmental - Hiseville School Sewer Project	3-5 Years	Not Funded	$1,000,000	Barren	1	1
SX21099023	Horse Cave Regional Water Replacement Facility Expansion Project	0-2 Years	Not Funded	$5,342,000	Hart	2	1
SX21061009	Edmonson County Water District - Collection System Phase III	3-5 Years	Not Funded	$7,843,771	Edmonson	8	1
SX21009045	Caveland Environmental - Cave City Replacement	0-2 Years	Not Funded	$900,000	Barren	21	3
SX21009049	CEA - Cave City WWTP Improvements	3-5 Years	Not Funded	$505,000	Barren	31	4

System Summary for Munfordville Municipal Water/Sewer Commission

Permit ID	KY0031755	Treats Wastewater	Yes, 0.26 MGD with 0.1 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	491
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.80	Total KISOP Treated (MG)	-
Residential Customers	393	Total Treated (MG)	29.200
Commercial Customers	96	Number of Manholes	500
Institutional Customers	-	Number of Lift Stations	11
Industrial Customers	2	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 14.20 miles (Collection: 13.66 miles, Interceptors: 0.55 miles).			

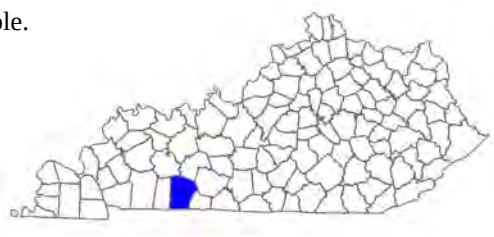
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Munfordville Municipal Water/Sewer Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21099022	City of Munfordville - Sewer Extensions and Pump Station Rehabilitations	3-5 Years	Not Funded	$1,250,620	Hart	13	2
SX21099021	City of Munfordville - SSES and Stormwater Inflow Removal Project	3-5 Years	Not Funded	$1,450,000	Hart	24	3
SX21099006	Caveland Environmental - Sewer Service to Rolling Hills Community	3-5 Years	Not Funded	$400,000	Hart	34	4

Logan County

- 2010 census population of 26,835 (12,339 households) with 39% serviceable.
- Projected 2020 population of 27,382 (change of 547).
- Logan County has 100.76 miles of existing sewer lines.
- 48.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $28,907,759.
- Estimated funding needs for projects from 6 to 10 years: $8,950,000.



Logan County has a 2010 census population count of 26,835 (12,339 households) with a projected 2020 population count of 27,382 (11,301 households). Public sewer is currently available to approximately 39 percent of the county's households based on 2010 census counts. Over the next ten years approximately 923 serviceable households will be added through the construction of 48.00 miles of sewer line extensions and approximately 1,275 instances of improved service through the rehabilitation of 4.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Adairville	4	$1,528,759	-	334	2.00	1.00	-
City of Auburn	4	$9,360,000	1	97	2.00	1.00	-
City of Lewisburg	2	$72,000	-	9	-	-	-
City of Russellville	10	$25,957,000	862	835	37.00	2.00	-
East Logan Water District	1	$940,000	60	-	7.00	-	-
Totals:	**21**	**$37,857,759**	**923**	**1,275**	**48.00**	**4.00**	**-**

Public Wastewater Systems in Logan County

Note: Serviceability counts are for households within Logan county only.

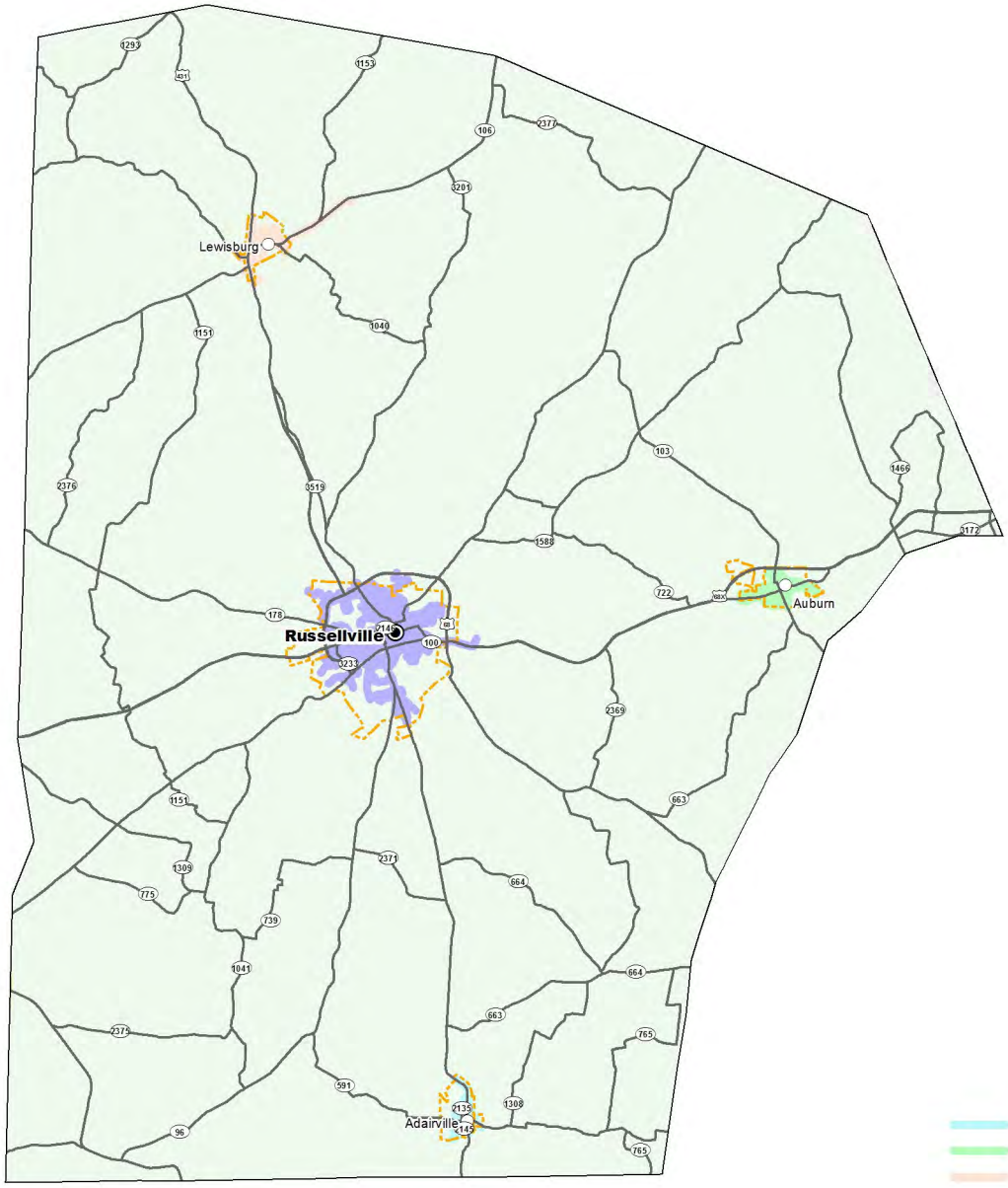
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020885	Adairville Sewer Department	Logan	895	434
KY0021202	Auburn Sewer Department	Logan	1,413	662
KY0024881	Lewisburg Municipal Water & Sewer Department	Logan	853	458
KY0020877	Russellville Municipal Sewer Department	Logan	6,821	3,307
		Totals:	9,982	4,861

SEWER SERVICE AREAS
LOGAN COUNTY
Kentucky

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March, 2013



System Summary for Adairville Sewer Department

Permit ID	KY0020885	Treats Wastewater	Yes, 0.26 MGD with 0.04 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	372
Owner Type	Incorporated City	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.00	Total KISOP Treated (MG)	-
Residential Customers	344	Total Treated (MG)	14.145
Commercial Customers	27	Number of Manholes	141
Institutional Customers	1	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	82%
KISOP Customers	-	Has Facility Plan	Yes, 35% Constructed
Total Collection System Line Length = 8.29 miles (Collection: 8.20 miles, Interceptors: 0.09 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Adairville Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21141045	Adairville Wastewater System Improvements	3-5 Years	Partially Funded	$733,759	Logan		
SX21141003	Adairville Project 3 - Industrial Park Sewer Lines / Lift St	6-10 Years	Not Funded	$500,000	Logan		
SX21141002	Adairville Project 2 - Red River Drive / First Street Sewer Ext	0-2 Years	Not Funded	$195,000	Logan		
SX21141005	Adairville Project 5 - Sewer Line Ext West of Cemetery Street	6-10 Years	Not Funded	$100,000	Logan		

System Summary for Auburn Sewer Department

Permit ID	KY0021202	Treats Wastewater	Yes, 0.35 MGD with 0.31 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	618
Owner Type	Incorporated City	KISOP Sender	No
Employees	7	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$29.06	Total KISOP Treated (MG)	-
Residential Customers	606	Total Treated (MG)	113.767
Commercial Customers	8	Number of Manholes	180
Institutional Customers	3	Number of Lift Stations	8
Industrial Customers	1	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 11.60 miles (Collection: 11.59 miles, Interceptors: 0.02 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Auburn Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21141014	City of Auburn - Upgrade of Existing Wastewater Treatment Plant	3-5 Years	Not Funded	$2,000,000	Logan	5	1
SX21141047	Sewer System Extension Project	0-2 Years	Not Funded	$810,000	Logan	12	2
SX21141023	City of Auburn Wastewater Project #1	0-2 Years	Not Funded	$5,800,000	Logan		
SX21141046	Sewer Line Extension to South Union Area	3-5 Years	Not Funded	$940,000	Logan		
SX21141024	City of Auburn - Wastewater Project #2 - Replace Lift Stations	3-5 Years	Not Funded	$750,000	Logan		

System Summary for Lewisburg Municipal Water & Sewer Department

Permit ID	KY0024881	Treats Wastewater	Yes, 0.35 MGD with 0.26 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	364
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.72	Total KISOP Treated (MG)	-
Residential Customers	320	Total Treated (MG)	128.000
Commercial Customers	40	Number of Manholes	350
Institutional Customers	2	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	98%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 13.77 miles (Collection: 11.10 miles, Interceptors: 2.66 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lewisburg Municipal Water & Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21141042	City of Lewisburg - Line C Collection System Replacement	3-5 Years	Not Funded	$62,000	Logan		
SX21141008	Lewisburg - Ground Water Infiltration Correction to Lift Stations	0-2 Years	Not Funded	$10,000	Logan		

System Summary for Russellville Municipal Sewer Department

Permit ID	KY0020877	Treats Wastewater	Yes, 2.4 MGD with 0.92 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,870
Owner Type	Incorporated City	KISOP Sender	No
Employees	95	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$35.80	Total KISOP Treated (MG)	-
Residential Customers	2,267	Total Treated (MG)	423.700
Commercial Customers	481	Number of Manholes	1050
Institutional Customers	110	Number of Lift Stations	10
Industrial Customers	7	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	Yes, 77% Constructed
Total Collection System Line Length = 67.09 miles (Collection: 67.01 miles, Interceptors: 0.09 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Russellville Municipal Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21141036	Russellville - Franklin Road Sewer Project	3-5 Years	Not Funded	$1,020,000	Logan	22	3
SX21141034	Russellville Greens Sewer Project	3-5 Years	Not Funded	$595,000	Logan	36	4
SX21141037	Russellville - Hwy 68-80 East Sewer Project	6-10 Years	Not Funded	$8,350,000	Logan		
SX21141035	Russellville - Hwy 431 South Sewer Project	3-5 Years	Not Funded	$4,150,000	Logan		
SX21141028	Russellville Wastewater Project #3	0-2 Years	Not Funded	$2,820,000	Logan		
SX21141039	Russellville Hwy 68-80 West Sewer	3-5 Years	Not Funded	$2,000,000	Logan		
SX21141038	Russellville Hickory Hill Lane Sewer Project	3-5 Years	Not Funded	$155,000	Logan		
SX21141044	City of Russellville Relocation & Improvements to Sanitary Sewer	3-5 Years	Not Funded	$92,000	Logan		

Metcalfe County

- 2010 census population of 10,099 (4,681 households) with 17% serviceable.
- Projected 2020 population of 10,329 (change of 230).
- Metcalfe County has 21.55 miles of existing sewer lines.
- 5.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,375,000.
- There are no projects planned from 6 to 10 years.



Metcalfe County has a 2010 census population count of 10,099 (4,681 households) with a projected 2020 population count of 10,329 (4,306 households). Public sewer is currently available to approximately 17 percent of the county's households based on 2010 census counts. Over the next ten years approximately 39 serviceable households will be added through the construction of 5.00 miles of sewer line extensions and approximately 808 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Edmonton	5	$1,375,000	39	808	5.00	-	-
Totals:	**5**	**$1,375,000**	**39**	**808**	**5.00**	**-**	**-**

Public Wastewater Systems in Metcalfe County

Note: Serviceability counts are for households within Metcalfe county only.

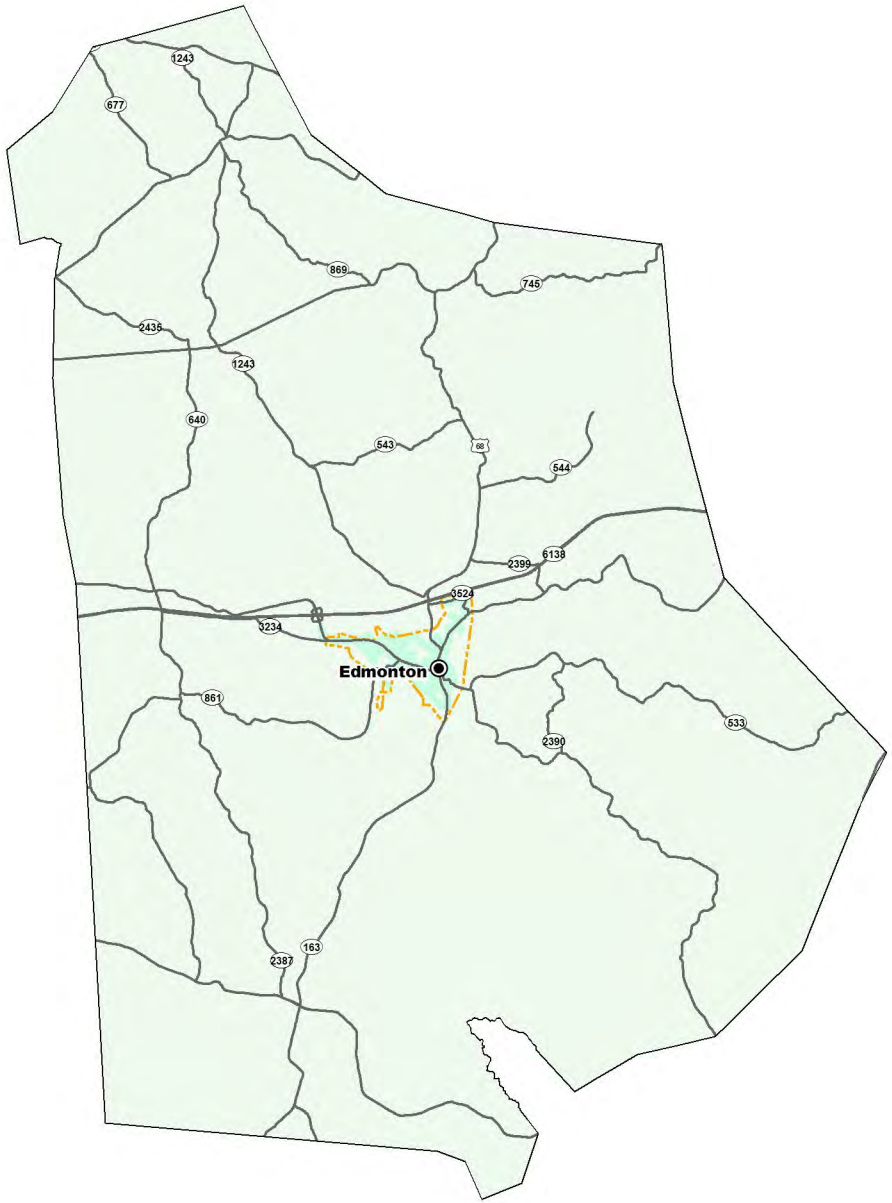
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0028100	Edmonton Water Works	Metcalfe	1,597	810
		Totals:	1,597	810

SEWER SERVICE AREAS
METCALFE COUNTY
Kentucky

Prepared By:
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System Summary for Edmonton Water Works

Permit ID	KY0028100	Treats Wastewater	Yes, 0.51 MGD with 0.2 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	683
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.15	Total KISOP Treated (MG)	-
Residential Customers	515	Total Treated (MG)	73.000
Commercial Customers	164	Number of Manholes	358
Institutional Customers	-	Number of Lift Stations	8
Industrial Customers	4	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 21.55 miles (Collection: 21.20 miles, Interceptors: 0.35 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Edmonton Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21169007	Edmonton - Cumberland Parkway Area Extension	3-5 Years	Not Funded	$400,000	Metcalfe	10	1
SX21169011	Edmonton - Harvey Hurt Rd. Area Extension	3-5 Years	Not Funded	$350,000	Metcalfe	19	2
SX21169012	Edmonton - Old Glasgow Street Area Extension	3-5 Years	Not Funded	$300,000	Metcalfe	29	3
SX21169008	Edmonton - River Road Project Extension	3-5 Years	Not Funded	$300,000	Metcalfe	38	4
SX21169005	Edmonton - Wastewater Facility Plan	0-2 Years	Not Funded	$25,000	Metcalfe	43	5

Monroe County

- 2010 census population of 10,963 (5,204 households) with 29% serviceable.
- Projected 2020 population of 10,405 (change of -558).
- Monroe County has 38.91 miles of existing sewer lines.
- 5.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,013,000.
- There are no projects planned from 6 to 10 years.



Monroe County has a 2010 census population count of 10,963 (5,204 households) with a projected 2020 population count of 10,405 (4,423 households). Public sewer is currently available to approximately 29 percent of the county's households based on 2010 census counts. Over the next ten years approximately 128 serviceable households will be added through the construction of 5.00 miles of sewer line extensions and approximately 1,325 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Gamaliel	1	$1,010,000	-	209	-	-	-
City of Tompkinsville	2	$1,450,000	128	-	5.00	-	-
Fountain Run Water District #1	2	$553,000	-	1,116	-	-	-
Totals:	**5**	**$3,013,000**	**128**	**1,325**	**5.00**	**-**	**-**

Public Wastewater Systems in Monroe County

Note: Serviceability counts are for households within Monroe county only.

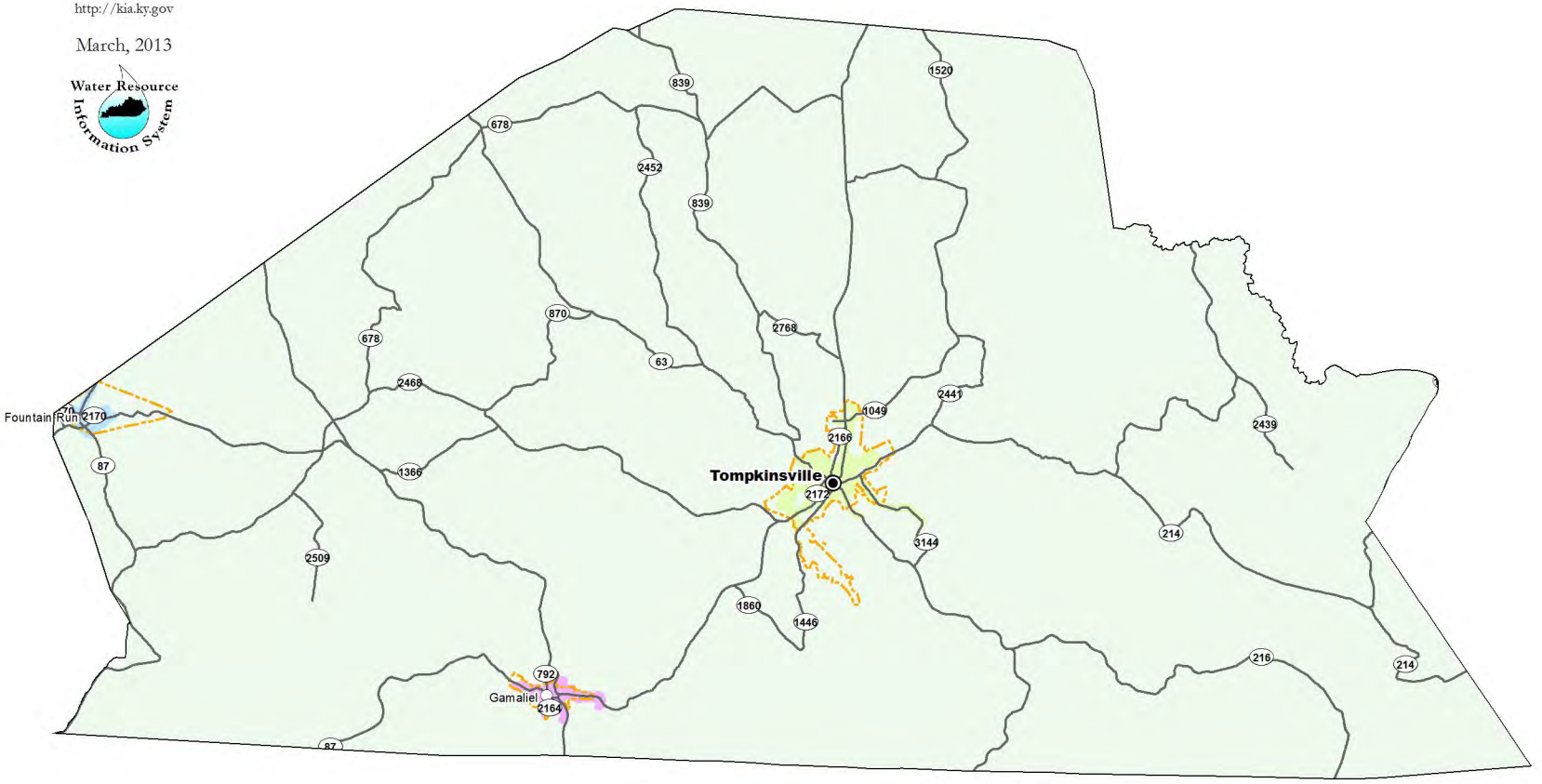
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KIA171001	Fountain Run Water District #1	Monroe	226	132
KY0095257	Gamaliel Municipal Water & Wastewater Department	Monroe	457	215
KY0020702	Tompkinsville Sewer Department	Monroe	2,332	1,163
		Totals:	3,015	1,510

SEWER SERVICE AREAS
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SEWER SERVICE BY OWNER

- FOUNTAIN RUN WATER DISTRICT #1
- GAMALIEL MUNICIPAL WATER & WASTEWATER DEPARTMENT
- TOMPKINSVILLE SEWER DEPARTMENT

System Summary for Fountain Run Water District #1

Permit ID	KIA171001	Treats Wastewater	No
System Type	KIA Non-Permitted	Total Connections	110
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.80	Total KISOP Treated (MG)	-
Residential Customers	110	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	9
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 6.62 miles (Collection: 6.62 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Fountain Run Water District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21171014	Fountain Run Water District #1 - Sewer System Improvements	3-5 Years	Not Funded	$360,000	Monroe	4	1
SX21171018	Fountain Run Water District #1 - SCADA control system for the sewer system	3-5 Years	Not Funded	$193,000	Monroe	27	3

System Summary for Gamaliel Municipal Water & Wastewater Department

Permit ID	KY0095257	Treats Wastewater	Yes, 0.1 MGD with 0.055 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	215
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.00	Total KISOP Treated (MG)	-
Residential Customers	199	Total Treated (MG)	14.900
Commercial Customers	15	Number of Manholes	0
Institutional Customers	1	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 85% Constructed
Total Collection System Line Length = 7.66 miles (Collection: 7.51 miles, Interceptors: 0.15 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Gamaliel Municipal Water & Wastewater Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21171006	City of Gamaliel - Sewer Rehabilitation Project	0-2 Years	Partially Funded	$1,010,000	Monroe		

System Summary for Tompkinsville Sewer Department

Permit ID	KY0020702	Treats Wastewater	Yes, 0.67 MGD with 0.26 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	977
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$13.10	Total KISOP Treated (MG)	-
Residential Customers	743	Total Treated (MG)	136.875
Commercial Customers	165	Number of Manholes	236
Institutional Customers	34	Number of Lift Stations	9
Industrial Customers	1	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 30% Constructed
Total Collection System Line Length = 24.70 miles (Collection: 24.70 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Tompkinsville Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21171003	City of Tompkinsville - Collection System Extensions to Unserved Areas	3-5 Years	Not Funded	$1,000,000	Monroe	20	2
SX21171008	City of Tompkinsville - Sewer Extension to Joe Harrison Carter School	3-5 Years	Not Funded	$450,000	Monroe	37	4

Simpson County

- 2010 census population of 17,327 (7,435 households) with 60% serviceable.
- Projected 2020 population of 18,342 (change of 1,015).
- Simpson County has 84.00 miles of existing sewer lines.
- 33.00 miles of line extensions proposed in the next 10 years.
- 7.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $20,866,694.
- There are no projects planned from 6 to 10 years.



Simpson County has a 2010 census population count of 17,327 (7,435 households) with a projected 2020 population count of 18,342 (7,429 households). Public sewer is currently available to approximately 60 percent of the county's households based on 2010 census counts. Over the next ten years approximately 542 serviceable households will be added through the construction of 33.00 miles of sewer line extensions and approximately 503 instances of improved service through the rehabilitation of 7.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Franklin	21	$17,078,888	338	503	13.00	7.00	-
Simpson County Water District	4	$3,787,806	204	-	20.00	-	-
Totals:	**25**	**$20,866,694**	**542**	**503**	**33.00**	**7.00**	**-**

Public Wastewater Systems in Simpson County

Note: Serviceability counts are for households within Simpson county only.

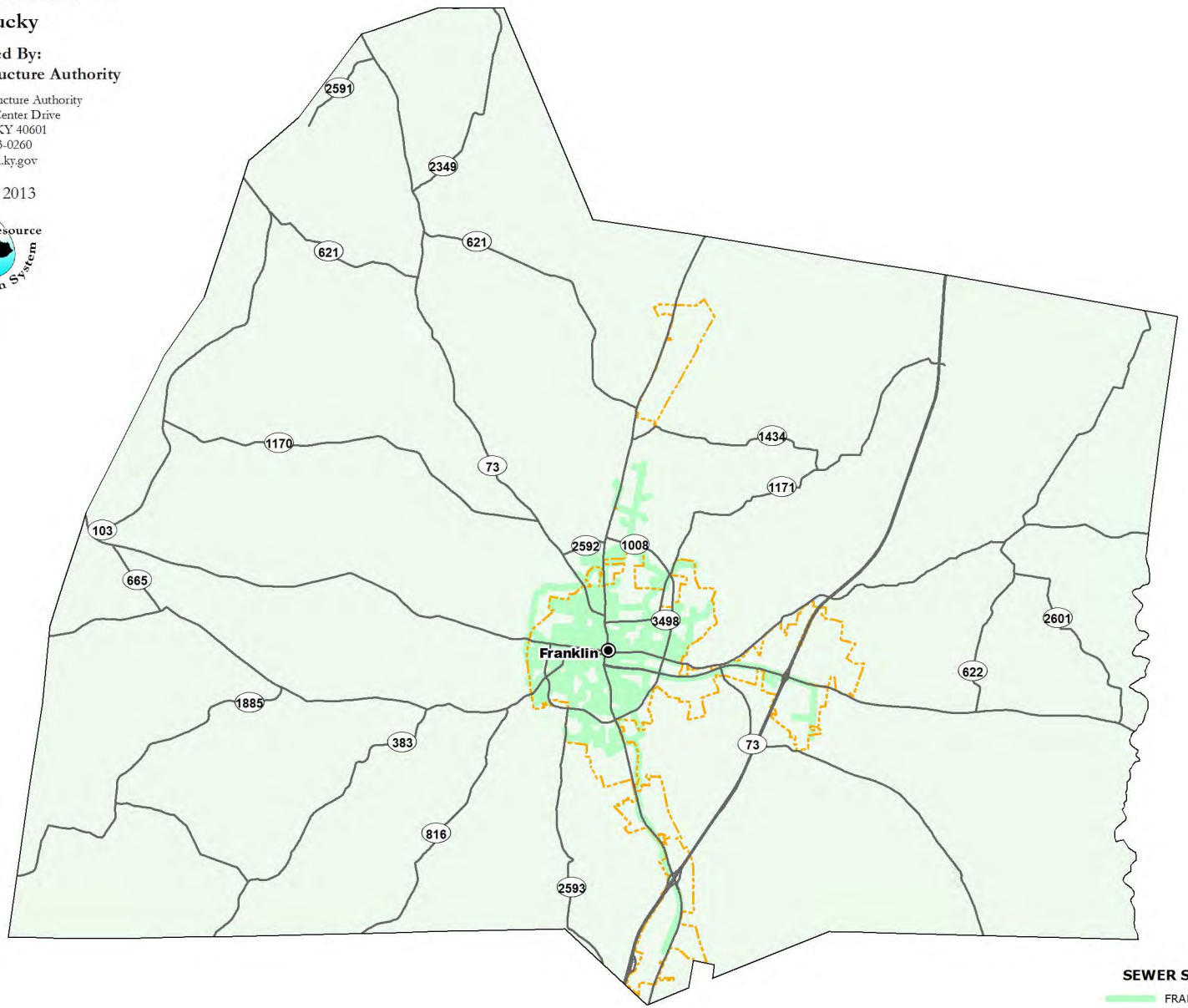
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0027456	Franklin Sewer Department	Simpson	10,083	4,437
		Totals:	10,083	4,437

SEWER SERVICE AREAS
SIMPSON COUNTY
Kentucky

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March, 2013



System Summary for Franklin Sewer Department

Permit ID	KY0027456	Treats Wastewater	Yes, 3.2 MGD with 2.2 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	3,489
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$11.04	Total KISOP Treated (MG)	-
Residential Customers	3,019	Total Treated (MG)	803.000
Commercial Customers	460	Number of Manholes	1043
Institutional Customers	4	Number of Lift Stations	13
Industrial Customers	15	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 84.00 miles (Collection: 78.99 miles, Interceptors: 5.01 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Franklin Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21213032	City of Franklin - Sunset Circle Sewer Project	0-2 Years	Not Funded	$400,000	Simpson	14	2
SX21213024	City of Franklin - Sewer Line Replacement 31W Downtown	3-5 Years	Not Funded	$2,010,000	Simpson	23	3
SX21213027	City of Franklin - Manhole Rehabilitation Project	3-5 Years	Not Funded	$258,750	Simpson	35	4
SX21213021	City of Franklin - E Cedar St Sewer Line Project	3-5 Years	Not Funded	$475,000	Simpson	41	5
SX21213017	City of Franklin - Quail Ridge & Huntington Park Sub Sewer Lines	0-2 Years	Not Funded	$2,895,000	Simpson		
SX21213013	City of Franklin - Patton Rd Sub 8" Sewer	0-2 Years	Not Funded	$2,312,000	Simpson		
SX21213014	City of Franklin - Country Club Estates Sewer	0-2 Years	Not Funded	$1,678,800	Simpson		
SX21213016	City of Franklin - Broadway Sewer Line	0-2 Years	Not Funded	$1,500,662	Simpson		
SX21213011	SCWD - Hwy 100 West Area Sewer	3-5 Years	Not Funded	$1,315,160	Simpson		
SX21213009	SCWD - Gold City Area Sewer	3-5 Years	Not Funded	$1,046,650	Simpson		
SX21213008	SCWD - Hwy 100 East Area Sewer	3-5 Years	Not Funded	$853,160	Simpson		
SX21213015	City of Franklin - Broderson Trailer Park Sewer	0-2 Years	Not Funded	$815,676	Simpson		
SX21213037	31W South Annexation Sewer Extension	3-5 Years	Not Funded	$748,000	Simpson		
SX21213019	City of Franklin - Highlands Subdivision Sewer Line Replacement	3-5 Years	Not Funded	$630,000	Simpson		
SX21213010	SCWD - Hwy 31W North Area Sewer	3-5 Years	Not Funded	$572,836	Simpson		
SX21213020	City of Franklin - Akin Ave Sewer Line Replacement	0-2 Years	Not Funded	$550,000	Simpson		
SX21213026	City of Franklin - North Industrial Park Sewer Extension	0-2 Years	Not Funded	$550,000	Simpson		
SX21213031	City of Franklin - High St Sewer Project	0-2 Years	Not Funded	$420,000	Simpson		

Warren County

- 2010 census population of 113,792 (47,223 households) with 62% serviceable.
- Projected 2020 population of 137,250 (change of 23,458).
- Warren County has 394.06 miles of existing sewer lines.
- 13.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 6.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $20,325,700.
- Estimated funding needs for projects from 6 to 10 years: $2,478,000.



Warren County has a 2010 census population count of 113,792 (47,223 households) with a projected 2020 population count of 137,250 (54,299 households). Public sewer is currently available to approximately 62 percent of the county's households based on 2010 census counts. Over the next ten years approximately 143 serviceable households will be added through the construction of 13.00 miles of sewer line extensions and approximately 3,000 instances of improved service through system wide upgrades. 6.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Bowling Green Municipal Utilities	12	$13,530,000	-	3,000	-	-	6.00
Warren County Water District	15	$9,273,700	143	-	13.00	-	-
Totals:	**27**	**$22,803,700**	**143**	**3,000**	**13.00**	**-**	**6.00**

Public Wastewater Systems in Warren County

Note: Serviceability counts are for households within Warren county only.

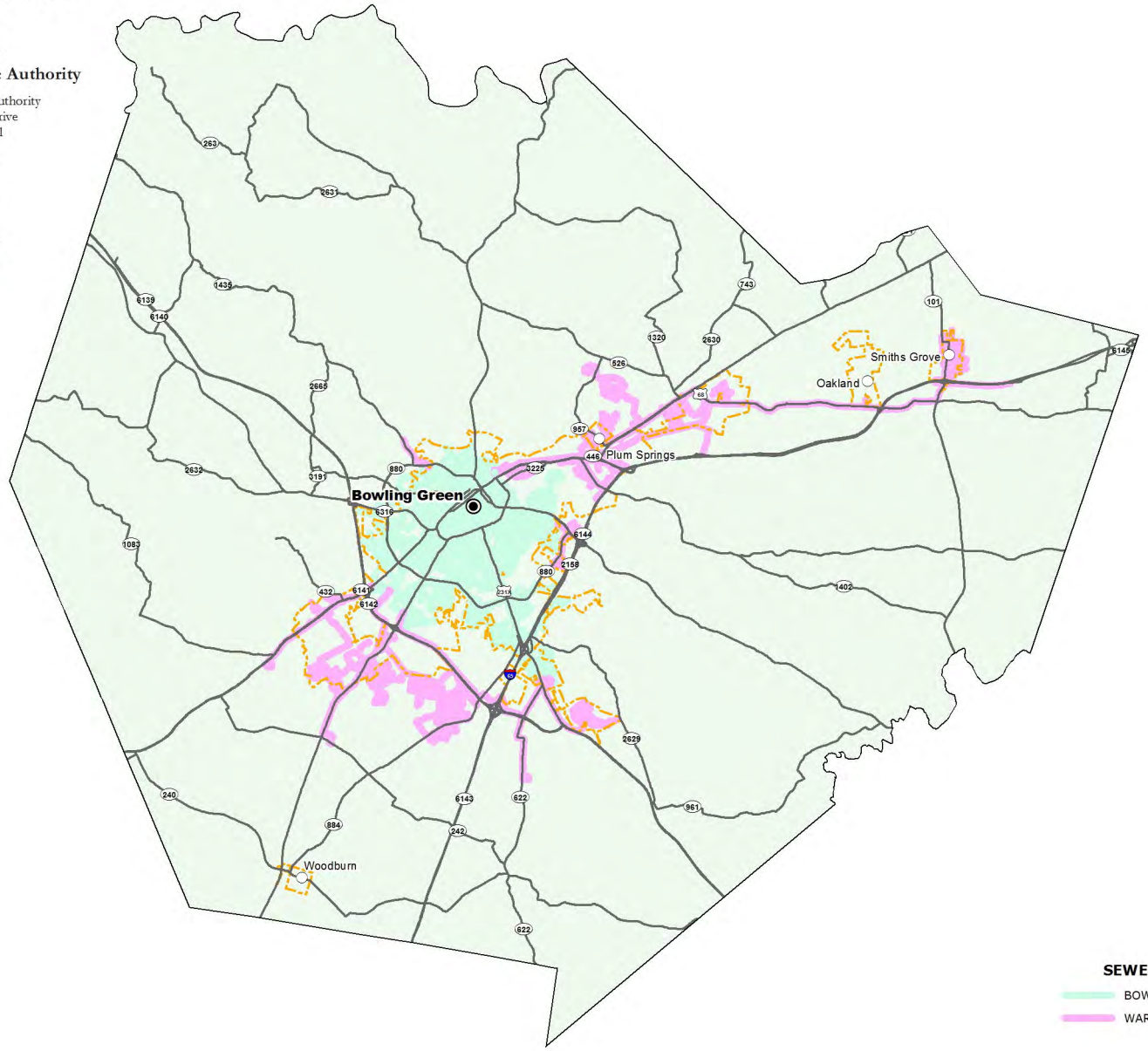
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0022403	Bowling Green Municipal Utilities	Warren	54,421	23,172
KYP000032	Warren County Water District	Warren	15,078	6,156
		Totals:	69,499	29,328

SEWER SERVICE AREAS
WARREN COUNTY
Kentucky

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March, 2013



System Summary for Bowling Green Municipal Utilities

Permit ID	KY0022403	Treats Wastewater	Yes, 10.6 MGD with 24.85 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	19,543
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	31	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$19.97	Total KISOP Treated (MG)	474.963
Residential Customers	15,632	Total Treated (MG)	2,864.540
Commercial Customers	3,600	Number of Manholes	5011
Institutional Customers	10	Number of Lift Stations	51
Industrial Customers	300	Percent Lines 20 yrs or Older	80%
KISOP Customers	1	Has Facility Plan	Yes, 85% Constructed

Total Collection System Line Length = 243.08 miles (Collection: 241.28 miles, Interceptors: 1.79 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bowling Green Municipal Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21227074	BGMU - Industrial Dr Interceptor	3-5 Years	Not Funded	$8,000,000	Warren	7	1
SX21227079	BGMU - Collet and Fairview Sanitary Sewer Interceptor Rehabilitation	3-5 Years	Not Funded	$1,850,000	Warren	28	3
SX21227072	BGMU - Odor Control Upgrade - Nashville Rd	0-2 Years	Not Funded	$500,000	Warren		
SX21227021	BGMU - Interceptor Cleaning & Video	0-2 Years	Not Funded	$500,000	Warren		
SX21227063	BGMU- CCTV Assessment of Sewer Basins	0-2 Years	Not Funded	$500,000	Warren		
SX21227069	BGMU - Sewer Line Rehabilitation	3-5 Years	Not Funded	$500,000	Warren		
SX21227070	BGMU - Electrical Quick Connections to Pump Stations	0-2 Years	Not Funded	$400,000	Warren		
SX21227068	BGMU - Sewer Pump Station Rehabilitation	0-2 Years	Not Funded	$300,000	Warren		
SX21227008	BGMU - Hydraulic Model	0-2 Years	Not Funded	$300,000	Warren		
SX21227062	BGMU - Jennings Creek Interceptor Rehabilitation Project	0-2 Years	Not Funded	$300,000	Warren		
SX21227048	BGMU - Emergency Generator for Jennings Creek Lift Station	0-2 Years	Not Funded	$130,000	Warren		

System Summary for Warren County Water District

Permit ID	KYP000032	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	5,928
Owner Type	Water District (KRS 74)	KISOP Sender	Yes, to 1 receiver.
Employees	14	Total KISOP Sent (MG)	474.963
Cost Per 4000 Gallons	$22.12	Total KISOP Treated (MG)	-
Residential Customers	4,834	Total Treated (MG)	-
Commercial Customers	464	Number of Manholes	1909
Institutional Customers	-	Number of Lift Stations	52
Industrial Customers	-	Percent Lines 20 yrs or Older	30%
KISOP Customers	-	Has Facility Plan	Yes, 20% Constructed
Total Collection System Line Length = 150.98 miles (Collection: 142.96 miles, Interceptors: 8.02 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Warren County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21227030	WCWD - Hwy 68 West Lift Station Upgrade	0-2 Years	Not Funded	$500,000	Warren	16	2
SX21227059	WCWD - Memphis Junction Lift Station Upgrade	3-5 Years	Not Funded	$1,243,000	Warren	32	4
SX21227047	WCWD- Alvaton Area Sewer Extension	0-2 Years	Partially Funded	$1,760,700	Warren		
SX21227061	WCWD - Richpond Interceptor	6-10 Years	Not Funded	$1,440,000	Warren		
SX21227060	WCWD - Dillard Rd. Lift Station	0-2 Years	Not Funded	$1,209,000	Warren		
SX21227077	WCWD - Allen County Sewer Extension	0-2 Years	Not Funded	$1,200,000	Allen		
SX21227045	WCWD- Basil Griffin Park Lift Station, Phase 2	3-5 Years	Not Funded	$835,000	Warren		
SX21227067	WCWD - Hunters Point Interceptor	6-10 Years	Not Funded	$440,000	Warren		
SX21227057	WCWD - Hidden River Interceptor	3-5 Years	Not Funded	$372,000	Warren		
SX21227080	WCWD - Lift Station No. 8 Upgrade	0-2 Years	Not Funded	$369,000	Warren		
SX21227031	WCWD - Extend 14-Inch BGMU Force Main to WWTP	6-10 Years	Not Funded	$298,000	Warren		
SX21227043	WCWD - Hidden River #1 LS Upgrade, Phase 2	3-5 Years	Not Funded	$282,000	Warren		
SX21227034	WCWD - Elrod Road Lift Station Upgrade	6-10 Years	Not Funded	$150,000	Warren		
SX21227036	WCWD - Pioneer Drive/Twn Lift Station Upgrade	6-10 Years	Not Funded	$150,000	Warren		
SX21227027	WCWD - Sckip Lift Station Upgrade	3-5 Years	Not Funded	$125,000	Warren		
SX21227058	WCWD - Ewing Ford Lift Station Upgrade	3-5 Years	Not Funded	$100,000	Warren		

Big Sandy Area Development District (BSADD)

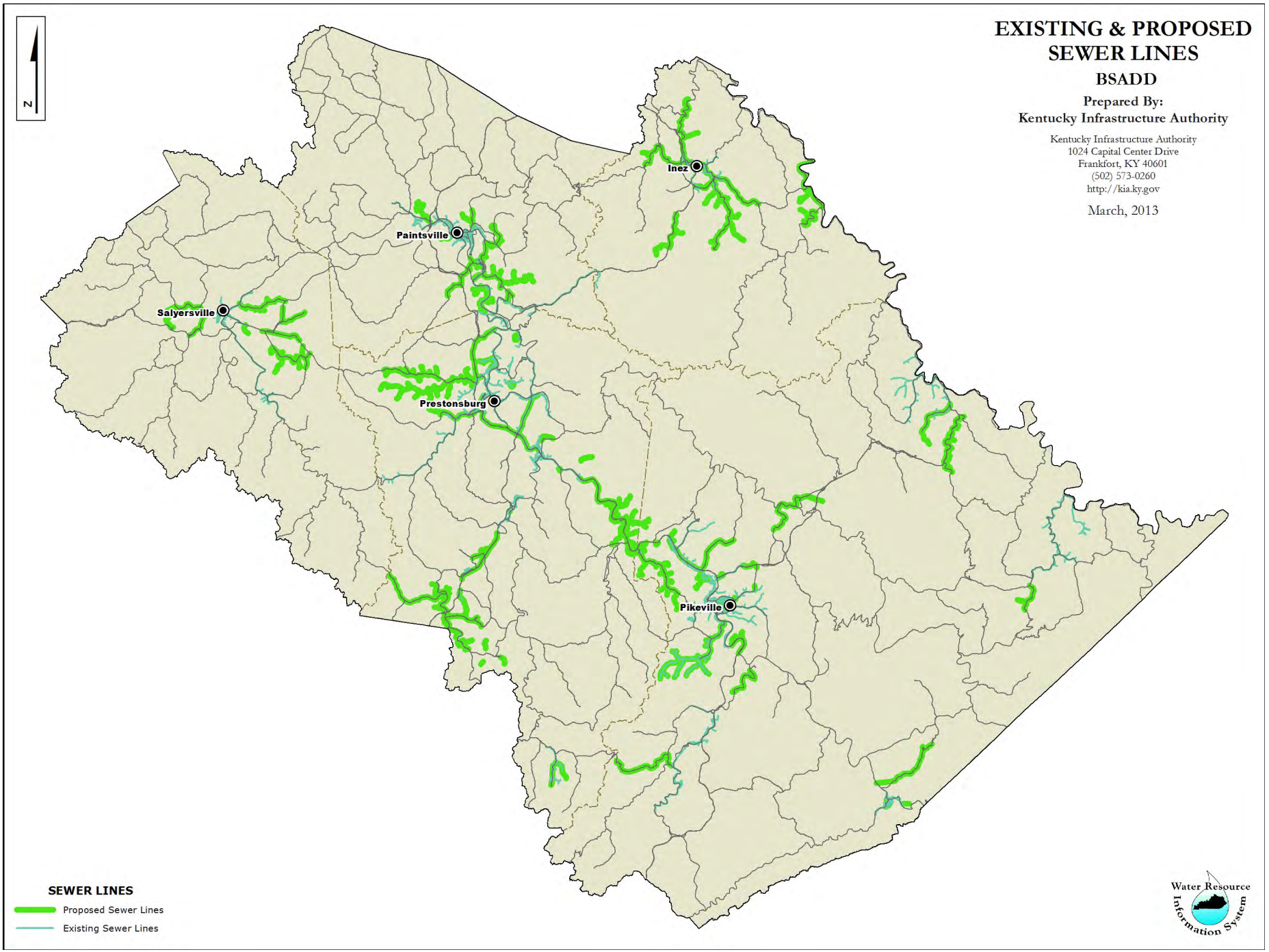


- 2010 census population of 154,093 (70,217 households) with 23% serviceable.
- Projected 2020 population of 148,051 (change of -6,042).
- 349.28 miles of existing sewer lines.
- 121.00 miles of line extensions proposed in the next 10 years.
- 22.00 miles of line rehabilitation proposed in the next 10 years.
- 8.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $133,759,679.
- Estimated funding needs for projects from 6 to 10 years: $21,015,460.
- Average age of wastewater treatment plants is 20 years.
- Total number of interconnected systems is 1.
- 124 miles of sewer lines less than 15 years old.
- 161 miles of sewer lines between 15 and 30 years old.
- 17 miles of sewer lines between 31 and 50 years old.
- 48 miles of sewer lines between 51 and 70 years old.
- 0 miles of sewer lines greater than 70 years old.

Big Sandy Area Development District has a 2010 census population count of 154,093 (70,217 households) with a projected 2020 population count of 148,051 (61,704 households). Public sewer is currently available to approximately 23 percent of the district's households based on 2010 census counts. Over the next ten years approximately 5,691 serviceable households will be added through the construction of 121.00 miles of sewer line extensions and approximately 13,864 instances of improved service through the rehabilitation of 22.00 miles of existing sewer lines and other appurtenances. 8.00 miles of interceptor lines are also proposed within this district.

County Summary for Big Sandy Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Floyd	39,451	18,175	37,153	15,594	4,878	27%	$ 46,943,477
Johnson	23,356	10,624	23,265	9,647	2,956	28%	$ 30,735,930
Magoffin	13,333	5,950	13,587	5,696	1,329	22%	$ 7,895,700
Martin	12,929	5,164	12,055	4,410	566	11%	$ 2,000,000
Pike	65,024	30,304	61,991	26,357	6,489	21%	$ 67,200,032
Totals	**154,093**	**70,217**	**148,051**	**61,704**	**16,218**	**23%**	**$ 154,775,139**


EXISTING & PROPOSED
SEWER LINES
BSADD
Prepared By:
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March, 2013
N
Inez
Paintsville
Salyersville
Prestonsburg
Pikeville
SEWER LINES
Proposed Sewer Lines
Existing Sewer Lines
Water Resource
Information System

Public Sewer Systems in the Big Sandy Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0026921	Martin Wastewater Treatment Plant	Floyd	789	442
KY0027413	Prestonsburg City's Utilities	Floyd	7,689	3,571
KY0107051	Southern Water & Sewer District - Eastern STP	Floyd	27	13
KY0105228	Southern Water & Sewer District - Wayland STP	Floyd	148	65
KY0028789	Wheelwright Utility Commission	Floyd	923	373
KY0103578	Paintsville Utilities Commission - Honey Branch	Johnson	2,152	965
KY0020630	Paintsville Utilities Commission - Paintsville STP	Johnson	4,975	2,405
KY0104540	Salyersville Water Works	Magoffin	2,946	1,329
KY0079316	Martin County Sanitation District	Martin	1,193	566
KY0020958	Elkhorn City Water Department	Pike	1,050	521
KY0042811	Mountain Water District - Douglas	Pike	1,722	850
KY0025291	Pikeville Wastewater Treatment Plant	Pike	10,891	5,110
		Totals:	34,505	16,210

Big Sandy Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Extend Services to Unserved Areas**
Secondary Need: **Economic Stimulation**

Discussion of Area Development District Needs:

In the Big Sandy Area wastewater infrastructure is limited outside of corporate boundaries. Current infrastructure does not effectively protect public health, environmental quality or add value to current living conditions and does not accommodate future economic growth. Big Sandy Area infrastructure needs include new developments, expansion of existing community wastewater systems, construction of individual wastewater treatment systems, or the construction of a new community wastewater collection and treatment facilities. Extending current services to residential areas would be beneficial to adequately meet the sewage needs of the current population and eliminate straight pipes and failing septic systems.

Big Sandy's primary clean water need is to extend services to unserved areas. The major projects underway include the Harold Sewer Project located along the US 23 corridor in Floyd County which will result in having public wastewater system availability in this high traffic/high growth area. Project funding for a major wastewater project serving Warfield in Martin County has been secured and is expected to be underway in 2012. Each of these projects will impact hundreds of customers that have never had access to public wastewater systems resulting in a cleaner environment eliminating small package treatment plants and furthering potential for economic development. The secondary need in the Big Sandy Area is for economic simulation.

The systems in the Big Sandy Area lack the capacity to pay for capital improvements and cost associated with operation and maintenance of wastewater system.

Description and Determination of Planning Units:

Big Sandy has five wastewater planning areas, Floyd, Johnson, Magoffin, Martin, and Pike Counties. The planning group is made up of Judge Executives, Mayors, and Utilities within the planning area. The water suppliers in the planning groups are as follows:

- Floyd County Utilities – Prestonsburg City's, Martin Water Works, Wheelwright Utilities, Southern Water and Sewer District
- Johnson County - Paintsville Utilities
- Magoffin County- Magoffin County Water District, Salyersville Water Works
- Martin County- Martin County Water District
- Pike County-Mountain Water District, Pikeville Water Department, and Elkhorn City Water Department.

The planning areas follow the county boundary of the respective planning unit.

Big Sandy Area Development District
Project Ranking Methodology

The annual ranking in the Big Sandy area begins with a series of county-wide meetings comprised of all the water and sewer utilities in the county where the meeting is taking place. Each utility present decides which of their projects is to be ranked and determines the importance of those for themselves. The county ranking process is based on a consensus decision by the members present at the meeting.

While the county rankings are based on a consensus, the regional ranking process uses a quantitative points system to determine the importance of each project ranked at the county level. The points given to each project fall within 7 categories: Project Type, Compliance, Financial, Project Status, County Ranking, Water Loss, and Regional Importance.

Project Type

A.	Will this project provide or continue regionalization and/or consolidation of wastewater treatment systems? Proposed project reduces the number of NPDES discharges by regionalization.	25
B.	Combined Sewer Overflow (CSO) Correction	25
C.	Elimination of sewage treatment plant through an interconnection.	23
D.	Sanitary Sewer Overflow (SSO) Correction	20
E.	Construction of a new wastewater treatment plant for a regional provider.	20
F.	Replacement and/or rehabilitation of aging infrastructure	17
G.	New Treatment Plant/Expanding Existing Plant	15
H.	Extension of Service to Unserved Households	
	a. 9+ households per mile	20
	b. 7-8 households per mile	19
	c. 5-6 households per mile	18
	d. 3-4 households per mile	15
	e. 1-2 households per mile	10

Compliance with Enforcement Action

	Is the project necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree?	20

Financial

A.	Documented financing plan in Project Profile	10
B.	Utility service area has a MHI less than $32,958	20
C.	Utility service area with a MHI between $41,197 and $32,959	10

Project Status

A.	Estimated engineer's budget complete	5
B.	Estimated bid date and construction start date	5

County Ranking

A.	Number one ranked project	24
B.	Number two ranked project	20
C.	Number three ranked project	16
D.	Number four ranked project	14
E.	Number five ranked project	12

Water Loss

A.	Utility has a water loss percentage less than 15%	20
B.	Utility has a water loss percentage between 15% to 25%	15
C.	Utility has a water loss percentage between 25% to 35%	10

Regional Importance

A project can be awarded points at the discretion of the regional water management council.
No more than thirty points can be awarded by the council to water projects in the regional ranking.

Project Rankings For Big Sandy Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21071007	Big Sandy Regional Waste Water Treatment Plant	0-2 Years	Not Funded	$10,770,430	Floyd	1	1
SX21195018	Elkhorn City Wastewater Treatment Plant Project	0-2 Years	Partially Funded	$3,375,000	Pike	2	1
SX21153522	Magoffin County Industrial Park Sewer Extension	3-5 Years	Partially Funded	$2,900,000	Magoffin	3	1
SX21115003	Paintsville WWTP I & I Removal Project Phase II	0-2 Years	Not Funded	$15,122,030	Johnson	4	1
SX21159007	Martin County Sanitation District - Belt Press and Sludge Handling	0-2 Years	Not Funded	$2,000,000	Martin	5	1
SX21195013	Marion Branch Industrial Park - Sewer Infrastructure Project	0-2 Years	Not Funded	$930,000	Pike	6	2
SX21071231	PCUC - US 23 Banner Community Sewer System	3-5 Years	Not Funded	$2,163,000	Floyd	7	2
SX21071235	PCUC - KY 1428 and Stonecrest Sewer Extension Project	0-2 Years	Not Funded	$1,952,900	Floyd	8	3
SX21115510	Paintsville Utilities Powell Addition Sewer Project	3-5 Years	Not Funded	$2,750,000	Johnson	9	2
SX21071210	Stephens Branch & Lower Abbott Creek Sewer Extension Projects	3-5 Years	Not Funded	$2,033,200	Floyd	10	4
SX21071005	Phase III - Harold Sewer Project	3-5 Years	Partially Funded	$2,000,000	Floyd	11	5
SX21195699	Douglas WWTP Expansion	0-2 Years	Partially Funded	$3,300,000	Pike	12	3
SX21195024	City of Pikeville KY Wastewater Treatment Plant Upgrade	0-2 Years	Partially Funded	$21,945,000	Pike	13	4
SX21195692	MWD - Belfry-Pond Sewer Project	0-2 Years	Partially Funded	$8,120,000	Pike	14	5
SX21153004	Magoffin County Garage Lift Station and Line Replacement Project	3-5 Years	Not Funded	$735,000	Magoffin	15	2
SX21115502	Paintsville Utility Commission Van Lear Waste Water Project	11-20 Years	Not Funded	$4,640,000	Johnson	16	3
SX21195004	MWD- Sewer Lift Station Upgrades	0-2 Years	Not Funded	$400,000	Pike	17	9
SX21195011	Thompson Road (Walmart P-13) Lift Station	0-2 Years	Not Funded	$400,000	Pike	18	7
SX21195107	Pikeville #7 Lift Station Replacement	0-2 Years	Not Funded	$475,000	Pike	19	8
SX21071002	Sewer Line Extension From New Plant At Eastern	3-5 Years	Not Funded	$500,000	Floyd	20	7
SX21071722	Southern Water & Sewer District – Solids Handling Facilities At Wayland WWTP	3-5 Years	Not Funded	$515,000	Floyd	21	6
SX21195020	Elkhorn City Upper Branch Sewer Project	3-5 Years	Not Funded	$554,400	Pike	22	6
SX21195696	MWD - Forest Hills Phase III	3-5 Years	Not Funded	$600,000	Pike	23	10
			Total Cost:	**$88,180,960**			

Floyd County

- 2010 census population of 39,451 (18,175 households) with 27% serviceable.
- Projected 2020 population of 37,153 (change of -2,298).
- Floyd County has 114.08 miles of existing sewer lines.
- 61.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $39,769,977.
- Estimated funding needs for projects from 6 to 10 years: $7,173,500.



Floyd County has a 2010 census population count of 39,451 (18,175 households) with a projected 2020 population count of 37,153 (15,594 households). Public sewer is currently available to approximately 27 percent of the county's households based on 2010 census counts. Over the next ten years approximately 3,484 serviceable households will be added through the construction of 61.00 miles of sewer line extensions and approximately 1,124 instances of improved service through the rehabilitation of 4.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Martin	1	$2,435,000	92	124	-	3.00	-
Paintsville Utility Commission	1	$15,122,030	-	-	-	-	-
Prestonsburg City's Utilities Commission	7	$21,341,947	3,029	900	50.00	-	-
Southern Water & Sewer District	5	$7,307,500	303	-	10.00	-	-
Wheelwright Utilities Commission	2	$737,000	60	100	1.00	1.00	-
Totals:	**16**	**$46,943,477**	**3,484**	**1,124**	**61.00**	**4.00**	**-**

Public Wastewater Systems in Floyd County

Note: Serviceability counts are for households within Floyd county only.

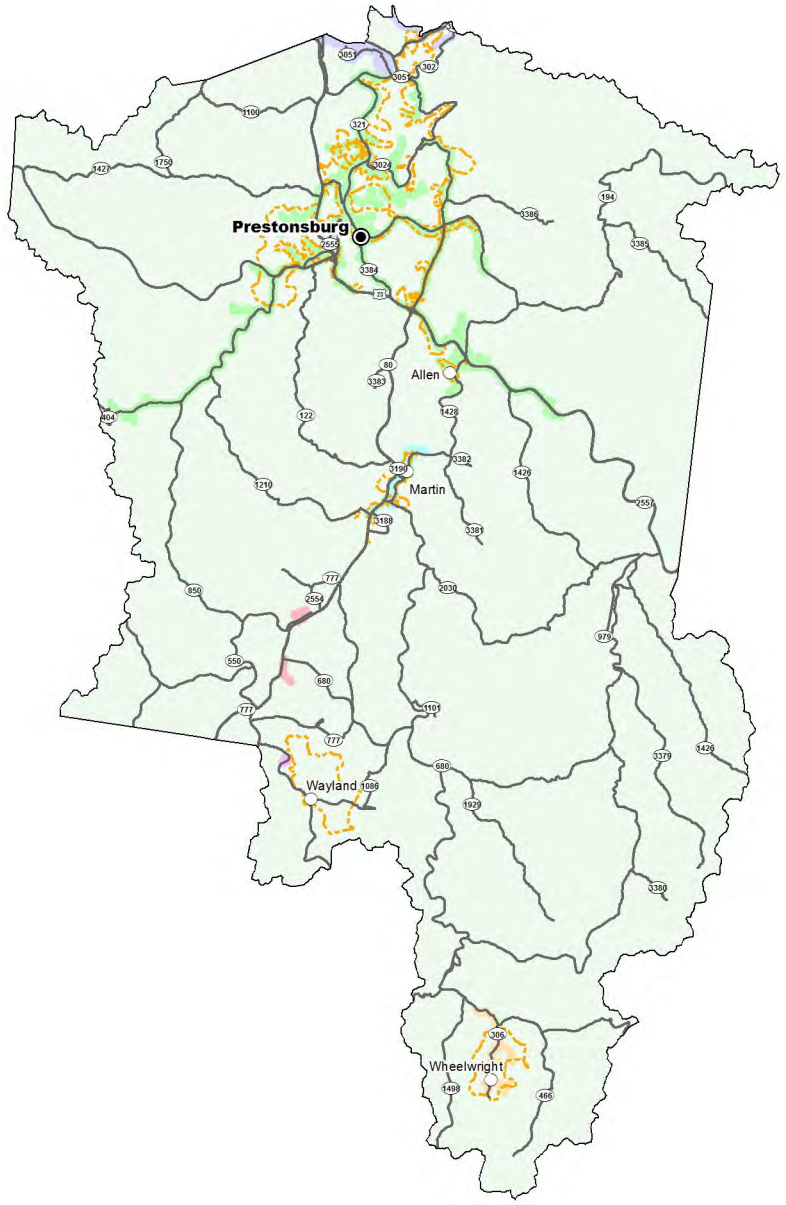
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0026921	Martin Wastewater Treatment Plant	Floyd	789	442
KY0027413	Prestonsburg City's Utilities	Floyd	7,689	3,571
KY0107051	Southern Water & Sewer District - Eastern STP	Floyd	27	13
KY0105228	Southern Water & Sewer District - Wayland STP	Floyd	148	65
KY0028789	Wheelwright Utility Commission	Floyd	923	373
KY0103578	Paintsville Utilities Commission - Honey Branch	Johnson	859	414
		Totals:	10,435	4,878

SEWER SERVICE AREAS
FLOYD COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



System Summary for Bear Hollow Subdivision

Permit ID	KY0103161	Treats Wastewater	Yes, 0.006 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Bear Hollow Subdivision

System Summary for Eagle Trace Subdivision

Permit ID	KY0103802	Treats Wastewater	Yes, 0.03 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Eagle Trace Subdivision

System Summary for Harold Wastewater Treatment Plant

Permit ID	KY0109258	Treats Wastewater	Yes, 0.1 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$47.42	Total KISOP Treated (MG)	-
Residential Customers	124	Total Treated (MG)	3.600
Commercial Customers	5	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Harold Wastewater Treatment Plant

System Summary for Martin Wastewater Treatment Plant

Permit ID	KY0026921	Treats Wastewater	Yes, 0.12 MGD with 0.11 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	403
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$35.41	Total KISOP Treated (MG)	-
Residential Customers	198	Total Treated (MG)	14.939
Commercial Customers	47	Number of Manholes	350
Institutional Customers	-	Number of Lift Stations	14
Industrial Customers	-	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 8.41 miles (Collection: 8.30 miles, Interceptors: 0.10 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Martin Wastewater Treatment Plant

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21071006	City of Martin Package Treatment Plant Elimination Project	3-5 Years	Not Funded	$2,435,000	Floyd		

System Summary for Prestonsburg City's Utilities

Permit ID	KY0027413	Treats Wastewater	Yes, 1 MGD with 0.67 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,807
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	9	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.64	Total KISOP Treated (MG)	-
Residential Customers	2,214	Total Treated (MG)	205.000
Commercial Customers	593	Number of Manholes	1100
Institutional Customers	-	Number of Lift Stations	36
Industrial Customers	-	Percent Lines 20 yrs or Older	82%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed

Total Collection System Line Length = 88.78 miles (Collection: 88.68 miles, Interceptors: 0.11 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Prestonsburg City's Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21071007	Big Sandy Regional Waste Water Treatment Plant	0-2 Years	Not Funded	$10,770,430	Floyd	1	1
SX21071231	PCUC - US 23 Banner Community Sewer System	3-5 Years	Not Funded	$2,163,000	Floyd	7	2
SX21071235	PCUC - KY 1428 and Stonecrest Sewer Extension Project	0-2 Years	Not Funded	$1,952,900	Floyd	8	3
SX21071210	Stephens Branch & Lower Abbott Creek Sewer Extension Projects	3-5 Years	Not Funded	$2,033,200	Floyd	10	4
SX21071233	PCUC - Upper Abbott Creek Sewer System Extension	6-10 Years	Not Funded	$2,144,000	Floyd		
SX21071220	PCUC - By Pass Force Main Around Town	3-5 Years	Not Funded	$1,493,000	Floyd		
SX21071215	PCUC - Section 531 Project	3-5 Years	Partially Funded	$785,417	Floyd		

System Summary for Southern Water & Sewer District - Eastern STP

Permit ID	KY0107051	Treats Wastewater	Yes, 0.25 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	36
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$47.42	Total KISOP Treated (MG)	-
Residential Customers	34	Total Treated (MG)	0.730
Commercial Customers	2	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 25% Constructed
Total Collection System Line Length = 0.71 miles (Collection: 0.71 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Southern Water & Sewer District - Eastern STP

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21071002	Sewer Line Extension From New Plant At Eastern	3-5 Years	Not Funded	$500,000	Floyd	20	7
SX21071004	Phase IV - Harold Sewer Project	6-10 Years	Not Funded	$2,292,500	Floyd		

System Summary for Southern Water & Sewer District - Wayland STP

Permit ID	KY0105228	Treats Wastewater	Yes, 0.1 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	171
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$47.42	Total KISOP Treated (MG)	-
Residential Customers	166	Total Treated (MG)	7.600
Commercial Customers	5	Number of Manholes	40
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 5% Constructed
Total Collection System Line Length = 2.41 miles (Collection: 2.20 miles, Interceptors: 0.21 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Southern Water & Sewer District - Wayland STP

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21071005	Phase III - Harold Sewer Project	3-5 Years	Partially Funded	$2,000,000	Floyd	11	5
SX21071722	Southern Water & Sewer District – Solids Handling Facilities At Wayland WWTP	3-5 Years	Not Funded	$515,000	Floyd	21	6
SX21071721	SWSD - Wayland Sewer Line Extension Project	6-10 Years	Not Funded	$2,000,000	Floyd		

System Summary for Wheelwright Utility Commission

Permit ID	KY0028789	Treats Wastewater	Yes, 0.23 MGD with 0.14 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	321
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$25.00	Total KISOP Treated (MG)	-
Residential Customers	305	Total Treated (MG)	33.000
Commercial Customers	15	Number of Manholes	30
Institutional Customers	1	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 5.89 miles (Collection: 5.87 miles, Interceptors: 0.03 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Wheelwright Utility Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21071902	Wheelwright - Replacement of Sewer System	6-10 Years	Not Funded	$587,000	Floyd		
SX21071001	Extend Service to Golf Hollow and Branham Hollow (Stoker Branch)	6-10 Years	Not Funded	$150,000	Floyd		

Johnson County

- 2010 census population of 23,356 (10,624 households) with 28% serviceable.
- Projected 2020 population of 23,265 (change of -91).
- Johnson County has 52.23 miles of existing sewer lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- 17.00 miles of line rehabilitation proposed in the next 10 years.
- 8.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $26,370,930.
- Estimated funding needs for projects from 6 to 10 years: $4,365,000.



Johnson County has a 2010 census population count of 23,356 (10,624 households) with a projected 2020 population count of 23,265 (9,647 households). Public sewer is currently available to approximately 28 percent of the county's households based on 2010 census counts. Over the next ten years approximately 314 serviceable households will be added through the construction of 4.00 miles of sewer line extensions and approximately 1,374 instances of improved service through the rehabilitation of 17.00 miles of existing sewer lines and other appurtenances. 8.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Paintsville Utility Commission	6	$30,735,930	314	1,374	4.00	17.00	8.00
Totals:	**6**	**$30,735,930**	**314**	**1,374**	**4.00**	**17.00**	**8.00**

Public Wastewater Systems in Johnson County

Note: Serviceability counts are for households within Johnson county only.

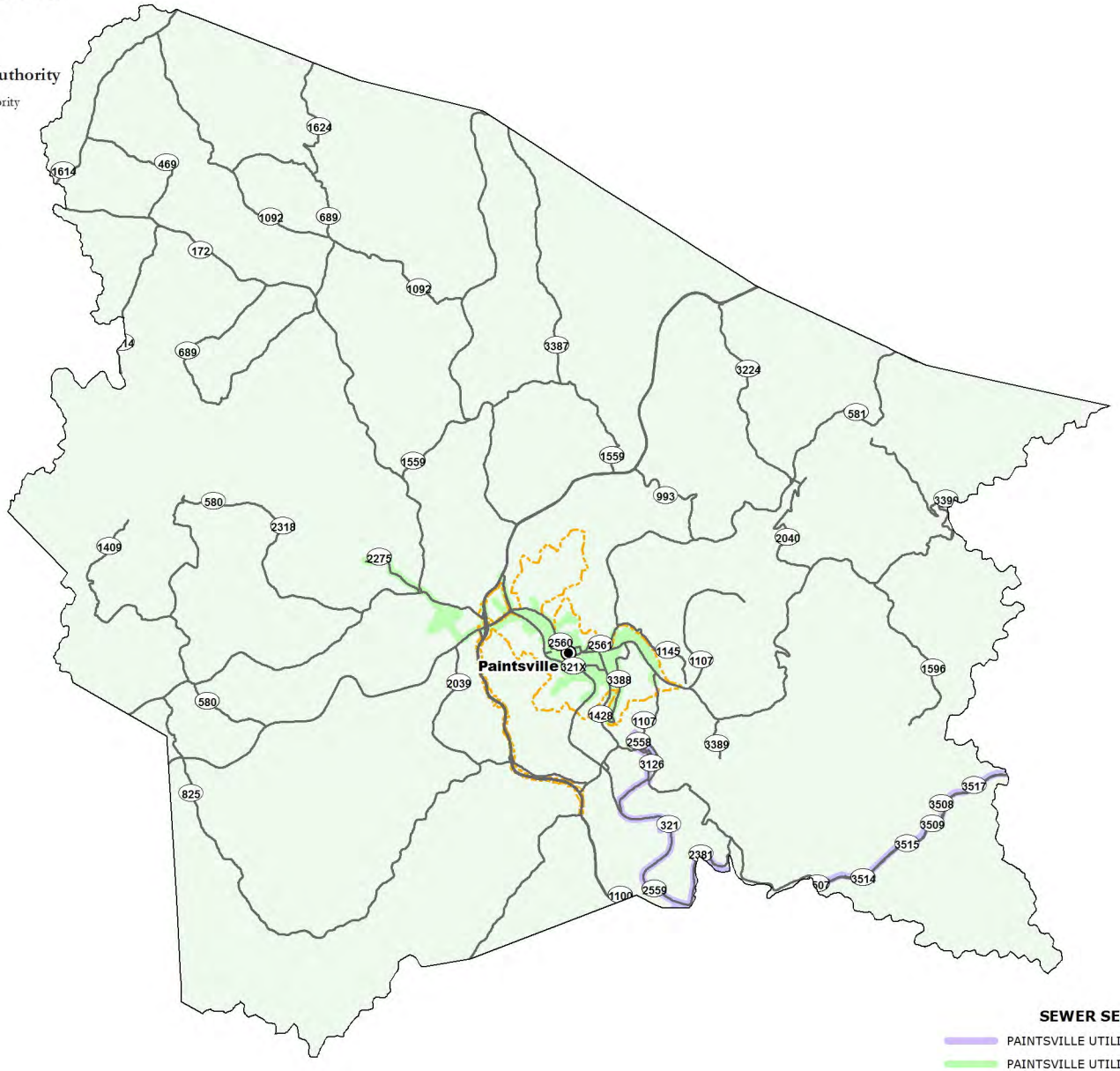
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0103578	Paintsville Utilities Commission - Honey Branch	Johnson	1,243	551
KY0020630	Paintsville Utilities Commission - Paintsville STP	Johnson	4,975	2,405
		Totals:	6,218	2,956

SEWER SERVICE AREAS
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Kentucky

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March, 2013



System Summary for Bush Gardens Subdivision

Permit ID	KY0103853	Treats Wastewater	Yes, 0.008 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Bush Gardens Subdivision

System Summary for Homestead Estates

Permit ID	KY0105066	Treats Wastewater	Yes, 0.02 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Homestead Estates

System Summary for Paintsville Utilities Commission - Honey Branch

Permit ID	KY0103578	Treats Wastewater	Yes, 1 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	345
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$31.48	Total KISOP Treated (MG)	-
Residential Customers	340	Total Treated (MG)	124.000
Commercial Customers	4	Number of Manholes	95
Institutional Customers	1	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 40% Constructed

Total Collection System Line Length = 23.14 miles (Collection: 23.01 miles, Interceptors: 0.12 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Paintsville Utilities Commission - Honey Branch

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21115003	Paintsville WWTP I & I Removal Project Phase II	0-2 Years	Not Funded	$15,122,030	Johnson	4	1
SX21115510	Paintsville Utilities Powell Addition Sewer Project	3-5 Years	Not Funded	$2,750,000	Johnson	9	2
SX21115010	American Standard Area	0-2 Years	Not Funded	$1,350,000	Johnson		

System Summary for Paintsville Utilities Commission - Paintsville STP

Permit ID	KY0020630	Treats Wastewater	Yes, 0.99 MGD with 0.5 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,335
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$31.48	Total KISOP Treated (MG)	-
Residential Customers	3,950	Total Treated (MG)	201.600
Commercial Customers	405	Number of Manholes	617
Institutional Customers	-	Number of Lift Stations	13
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed

Total Collection System Line Length = 38.35 miles (Collection: 38.30 miles, Interceptors: 0.05 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Paintsville Utilities Commission - Paintsville STP

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21115003	Paintsville WWTP I & I Removal Project Phase II	0-2 Years	Not Funded	$15,122,030	Johnson	4	1
SX21115008	Paintsville WWTP I & I Removal Project Phase I & III	0-2 Years	Not Funded	$7,148,900	Johnson		
SX21115005	Paintsville Utility Commission Sewer Line Extension Thelma	6-10 Years	Not Funded	$2,500,000	Johnson		
SX21115512	Paintsville City Utilities - Line Ext Hager Hill Loop & Arlen Heights	6-10 Years	Not Funded	$1,865,000	Johnson		

System Summary for River Road Disposal System

Permit ID	KY0094129	Treats Wastewater	Yes, 0.006 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$31.48	Total KISOP Treated (MG)	-
Residential Customers	10	Total Treated (MG)	0.370
Commercial Customers	-	Number of Manholes	2
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for River Road Disposal System

System Summary for Thelma Waste Control Inc #1

Permit ID	KY0083208	Treats Wastewater	Yes, 0.02 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$31.48	Total KISOP Treated (MG)	-
Residential Customers	54	Total Treated (MG)	2.000
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No

Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Thelma Waste Control Inc #1

System Summary for Thelma Waste Control Inc #2

Permit ID	KY0083895	Treats Wastewater	Yes, 0.004 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$31.48	Total KISOP Treated (MG)	-
Residential Customers	6	Total Treated (MG)	0.219
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No

Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Thelma Waste Control Inc #2

Magoffin County

- 2010 census population of 13,333 (5,950 households) with 22% serviceable.
- Projected 2020 population of 13,587 (change of 254).
- Magoffin County has 26.47 miles of existing sewer lines.
- 14.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,635,000.
- Estimated funding needs for projects from 6 to 10 years: $4,260,700.



Magoffin County has a 2010 census population count of 13,333 (5,950 households) with a projected 2020 population count of 13,587 (5,696 households). Public sewer is currently available to approximately 22 percent of the county's households based on 2010 census counts. Over the next ten years approximately 348 serviceable households will be added through the construction of 14.00 miles of sewer line extensions and approximately 36 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Salyersville	2	$4,260,700	252	-	6.00	-	-
Magoffin County Fiscal Court	1	$2,900,000	96	-	8.00	-	-
Salyersville Water Works	1	$735,000	-	36	-	1.00	-
Totals:	**4**	**$7,895,700**	**348**	**36**	**14.00**	**1.00**	**-**

Public Wastewater Systems in Magoffin County

Note: Serviceability counts are for households within Magoffin county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0104540	Salyersville Water Works	Magoffin	2,946	1,329
		Totals:	2,946	1,329

SEWER SERVICE AREAS
MAGOFFIN COUNTY
Kentucky

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March, 2013



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SEWER SERVICE BY OWNER

SALYERSVILLE WATER WORKS

System Summary for Salyersville Water Works

Permit ID	KY0104540	Treats Wastewater	Yes, 0.6 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,350
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$32.20	Total KISOP Treated (MG)	-
Residential Customers	1,212	Total Treated (MG)	146.000
Commercial Customers	138	Number of Manholes	150
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 26.47 miles (Collection: 26.39 miles, Interceptors: 0.07 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Salyersville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21153522	Magoffin County Industrial Park Sewer Extension	3-5 Years	Partially Funded	$2,900,000	Magoffin	3	1
SX21153523	Mash Fork Sewer Extension	6-10 Years	Not Funded	$2,045,000	Magoffin		

Martin County

- 2010 census population of 12,929 (5,164 households) with 11% serviceable.
- Projected 2020 population of 12,055 (change of -874).
- Martin County has 13.73 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,000,000.
- There are no projects planned from 6 to 10 years.



Martin County has a 2010 census population count of 12,929 (5,164 households) with a projected 2020 population count of 12,055 (4,410 households). Public sewer is currently available to approximately 11 percent of the county's households based on 2010 census counts. Over the next ten years approximately 500 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Martin County Sanitation District	1	$2,000,000	-	500	-	-	-
Totals:	**1**	**$2,000,000**	**-**	**500**	**-**	**-**	**-**

Public Wastewater Systems in Martin County

Note: Serviceability counts are for households within Martin county only.

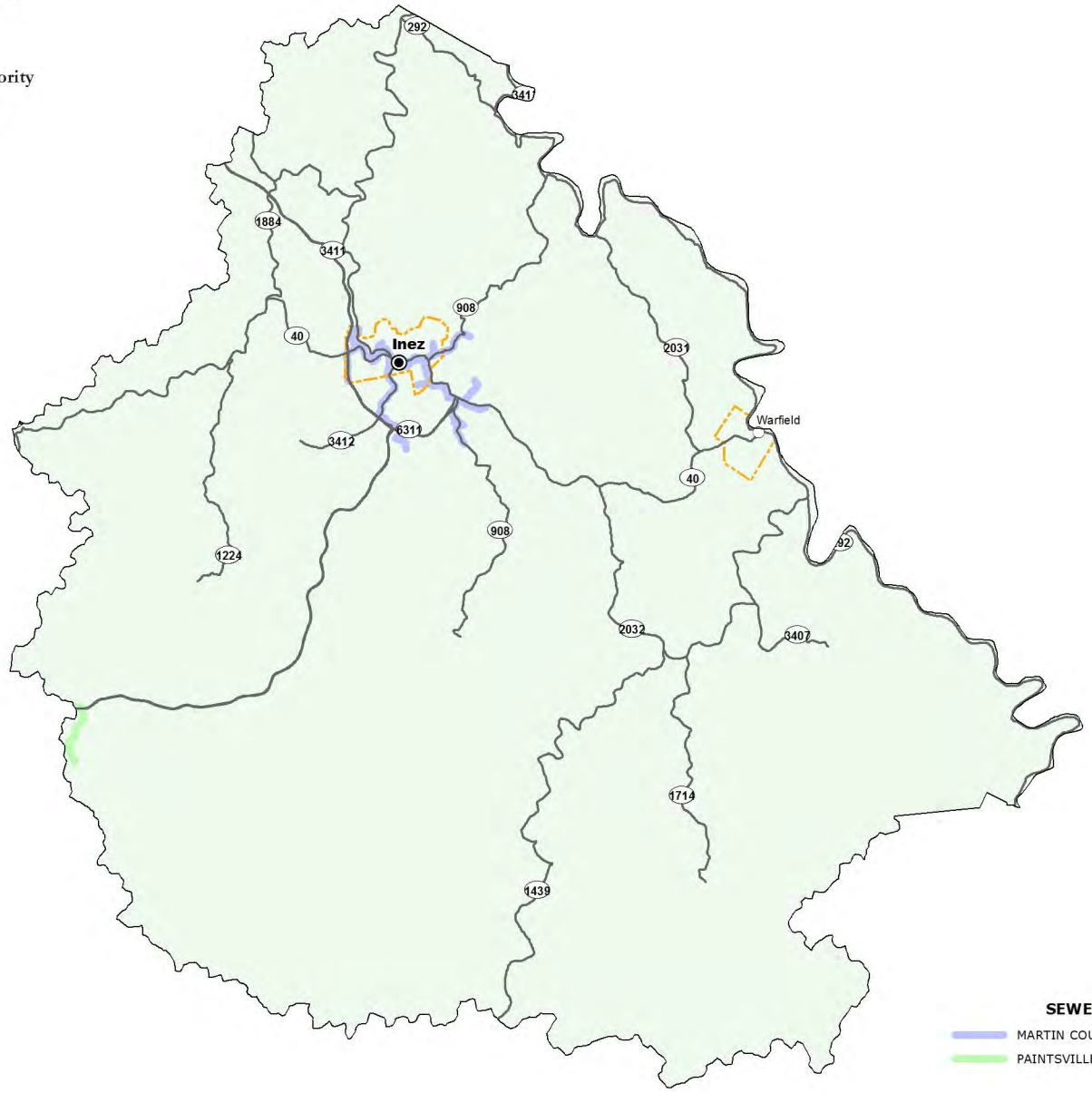
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0079316	Martin County Sanitation District	Martin	1,193	566
		Totals:	1,193	566

SEWER SERVICE AREAS
MARTIN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
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Frankfort, KY 40601
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http://kia.ky.gov

March, 2013



System Summary for Lovely Kentucky Sewage Disposal System

Permit ID	KY0102822	Treats Wastewater	Yes, 0.0015 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.10	Total KISOP Treated (MG)	-
Residential Customers	5	Total Treated (MG)	0.015
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Lovely Kentucky Sewage Disposal System

System Summary for Martin County Sanitation District

Permit ID	KY0079316	Treats Wastewater	Yes, 0.26 MGD with 0.11 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	687
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.00	Total KISOP Treated (MG)	-
Residential Customers	568	Total Treated (MG)	55.000
Commercial Customers	119	Number of Manholes	11
Institutional Customers	-	Number of Lift Stations	5
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 12.34 miles (Collection: 12.29 miles, Interceptors: 0.05 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Martin County Sanitation District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21159007	Martin County Sanitation District - Belt Press and Sludge Handling	0-2 Years	Not Funded	$2,000,000	Martin	5	1

System Summary for Tug Valley Sewer Auth WWTP

Permit ID	KY0107905	Treats Wastewater	Yes, 0.2 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Tug Valley Sewer Auth WWTP

Pike County

- 2010 census population of 65,024 (30,304 households) with 21% serviceable.
- Projected 2020 population of 61,991 (change of -3,033).
- Pike County has 142.77 miles of existing sewer lines.
- 42.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $61,983,772.
- Estimated funding needs for projects from 6 to 10 years: $5,216,260.



Pike County has a 2010 census population count of 65,024 (30,304 households) with a projected 2020 population count of 61,991 (26,357 households). Public sewer is currently available to approximately 21 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,545 serviceable households will be added through the construction of 42.00 miles of sewer line extensions and approximately 10,830 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Elkhorn City	3	$4,179,400	25	650	-	-	-
City of Pikeville	8	$32,018,150	617	7,954	15.00	-	-
Mountain Water District	6	$28,596,122	874	2,226	26.00	-	-
Pike County Fiscal Court	1	$113,860	-	-	-	-	-
Southern Water & Sewer District	1	$2,292,500	29	-	1.00	-	-
Totals:	**19**	**$67,200,032**	**1,545**	**10,830**	**42.00**	**-**	**-**

Public Wastewater Systems in Pike County

Note: Serviceability counts are for households within Pike county only.

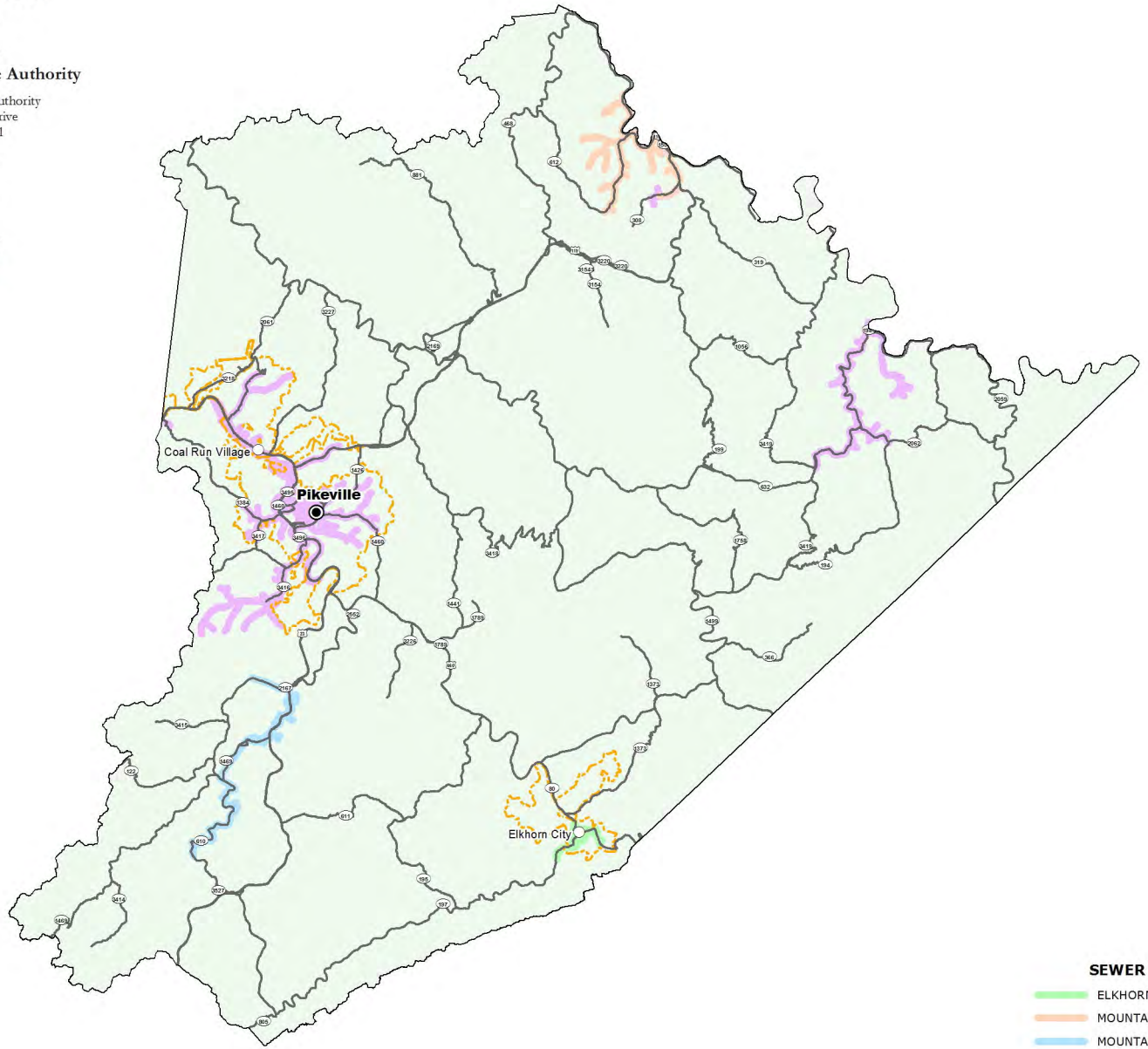
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020958	Elkhorn City Water Department	Pike	1,050	521
KY0042811	Mountain Water District - Douglas	Pike	1,722	850
KY0025291	Pikeville Wastewater Treatment Plant	Pike	10,891	5,110
		Totals:	13,663	6,481

SEWER SERVICE AREAS
PIKE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



System Summary for Elkhorn City Water Department

Permit ID	KY0020958	Treats Wastewater	Yes, 0.15 MGD with 0.13 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	429
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$30.50	Total KISOP Treated (MG)	-
Residential Customers	364	Total Treated (MG)	54.000
Commercial Customers	53	Number of Manholes	75
Institutional Customers	-	Number of Lift Stations	9
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 10.42 miles (Collection: 10.36 miles, Interceptors: 0.06 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Elkhorn City Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21195018	Elkhorn City Wastewater Treatment Plant Project	0-2 Years	Partially Funded	$3,375,000	Pike	2	1
SX21195020	Elkhorn City Upper Branch Sewer Project	3-5 Years	Not Funded	$554,400	Pike	22	6
SX21195009	Elhorn City - Centerville Sewer Line	6-10 Years	Not Funded	$250,000	Pike		

System Summary for Maple Valley Subdivision

Permit ID	KY0098353	Treats Wastewater	Yes, 0.003 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	38	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Maple Valley Subdivision

System Summary for Modern Home Park Inc

Permit ID	KY0096857	Treats Wastewater	Yes, 0.006 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	25	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Modern Home Park Inc

System Summary for Mountain Water District

Permit ID	KYP000067	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	Yes, to 1 receiver.
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$24.72	Total KISOP Treated (MG)	-
Residential Customers	611	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	20
Institutional Customers	-	Number of Lift Stations	16
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 10% Constructed
Total Collection System Line Length = 22.63 miles (Collection: 0.00 miles, Interceptors: 22.63 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mountain Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21195004	MWD- Sewer Lift Station Upgrades	0-2 Years	Not Funded	$400,000	Pike	17	9
SX21195696	MWD - Forest Hills Phase III	3-5 Years	Not Funded	$600,000	Pike	23	10
SX21195693	Scott Fork Phase 2	3-5 Years	Not Funded	$14,826,122	Pike		

System Summary for Mountain Water District - Branham Heights Treatment Plant

Permit ID	KY0096580	Treats Wastewater	Yes, 0.01 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	3	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.07 miles (Collection: 0.07 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Mountain Water District - Branham Heights Treatment Plant

System Summary for Mountain Water District - Douglas

Permit ID	KY0042811	Treats Wastewater	Yes, 0.2 MGD with 0.2 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	710
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	642	Total Treated (MG)	39.204
Commercial Customers	42	Number of Manholes	12
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	5%
KISOP Customers	-	Has Facility Plan	Yes, 35% Constructed
Total Collection System Line Length = 17.18 miles (Collection: 17.18 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mountain Water District - Douglas

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21195699	Douglas WWTP Expansion	0-2 Years	Partially Funded	$3,300,000	Pike	12	3

System Summary for Mountain Water District - Phelps Freeburn

Permit ID	KY0104442	Treats Wastewater	Yes, 0.25 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	56	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	854	Total Treated (MG)	44.900
Commercial Customers	-	Number of Manholes	1
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 77% Constructed
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mountain Water District - Phelps Freeburn

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21195694	MWD - Scott Fork Temporary Septic System	6-10 Years	Not Funded	$113,860	Pike		

System Summary for Mountain Water District - Shelbiana MHP

Permit ID	KY0099805	Treats Wastewater	Yes, 0.09 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.10 miles (Collection: 0.10 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Mountain Water District - Shelbiana MHP

System Summary for Mountain Water District - Stone Heights Wastewater Fac

Permit ID	KY0029343	Treats Wastewater	Yes, 0.01 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	17	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.01 miles (Collection: 0.01 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Mountain Water District - Stone Heights Wastewater Fac

System Summary for Mountain Water District - Willow Place

Permit ID	KY0082708	Treats Wastewater	Yes, 0.01 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	29	Total Treated (MG)	0.002
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.01 miles (Collection: 0.01 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Mountain Water District - Willow Place

System Summary for Pikeville Wastewater Treatment Plant

Permit ID	KY0025291	Treats Wastewater	Yes, 2 MGD with 0.74 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	4,600
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.60	Total KISOP Treated (MG)	-
Residential Customers	4,042	Total Treated (MG)	540.000
Commercial Customers	554	Number of Manholes	1600
Institutional Customers	4	Number of Lift Stations	12
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 94.69 miles (Collection: 94.55 miles, Interceptors: 0.15 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Pikeville Wastewater Treatment Plant

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21195013	Marion Branch Industrial Park - Sewer Infrastructure Project	0-2 Years	Not Funded	$930,000	Pike	6	2
SX21195024	City of Pikeville KY Wastewater Treatment Plant Upgrade	0-2 Years	Partially Funded	$21,945,000	Pike	13	4
SX21195107	Pikeville #7 Lift Station Replacement	0-2 Years	Not Funded	$475,000	Pike	19	8
SX21195131	Hurricane Creek	0-2 Years	Not Funded	$6,108,250	Pike		
SX21195129	Kinninnick	6-10 Years	Not Funded	$1,004,900	Pike		
SX21195133	Pikeville WWTP Headworks Reconstruction	6-10 Years	Not Funded	$1,000,000	Pike		
SX21195139	Buckleys Creek Sewer	6-10 Years	Not Funded	$355,000	Pike		
SX21195120	Pikeville Sewer Telemetry Project	6-10 Years	Partially Funded	$200,000	Pike		

System Summary for T & N MHP

Permit ID	KY0076511	Treats Wastewater	Yes, 0.003 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	8	Total Treated (MG)	0.432
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for T & N MHP

Buffalo Trace Area Development District (BTADD)



- 2010 census population of 56,478 (26,144 households) with 33% serviceable.
- Projected 2020 population of 58,306 (change of 1,828).
- 216.47 miles of existing sewer lines.
- 48.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- 35.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $24,265,000.
- Estimated funding needs for projects from 6 to 10 years: $17,150,000.
- Average age of wastewater treatment plants is 30 years.
- Total number of interconnected systems is 1.
- 71 miles of sewer lines less than 15 years old.
- 25 miles of sewer lines between 15 and 30 years old.
- 78 miles of sewer lines between 31 and 50 years old.
- 39 miles of sewer lines between 51 and 70 years old.
- 0 miles of sewer lines greater than 70 years old.

Buffalo Trace Area Development District has a 2010 census population count of 56,478 (26,144 households) with a projected 2020 population count of 58,306 (24,059 households). Public sewer is currently available to approximately 33 percent of the district's households based on 2010 census counts. Over the next ten years approximately 2,513 serviceable households will be added through the construction of 48.00 miles of sewer line extensions and approximately 2,368 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances. 35.00 miles of interceptor lines are also proposed within this district.

County Summary for Buffalo Trace Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Bracken	8,488	3,840	8,744	3,538	925	24%	$ 13,360,000
Fleming	14,348	6,623	14,880	6,231	1,618	24%	$ 13,655,000
Lewis	13,870	6,481	13,899	5,717	1,190	18%	$ 8,700,500
Mason	17,490	8,105	18,419	7,608	4,576	57%	$ 3,040,500
Robertson	2,282	1,095	2,364	965	260	24%	$ 2,659,000
Totals	**56,478**	**26,144**	**58,306**	**24,059**	**8,569**	**33%**	**$ 41,415,000**

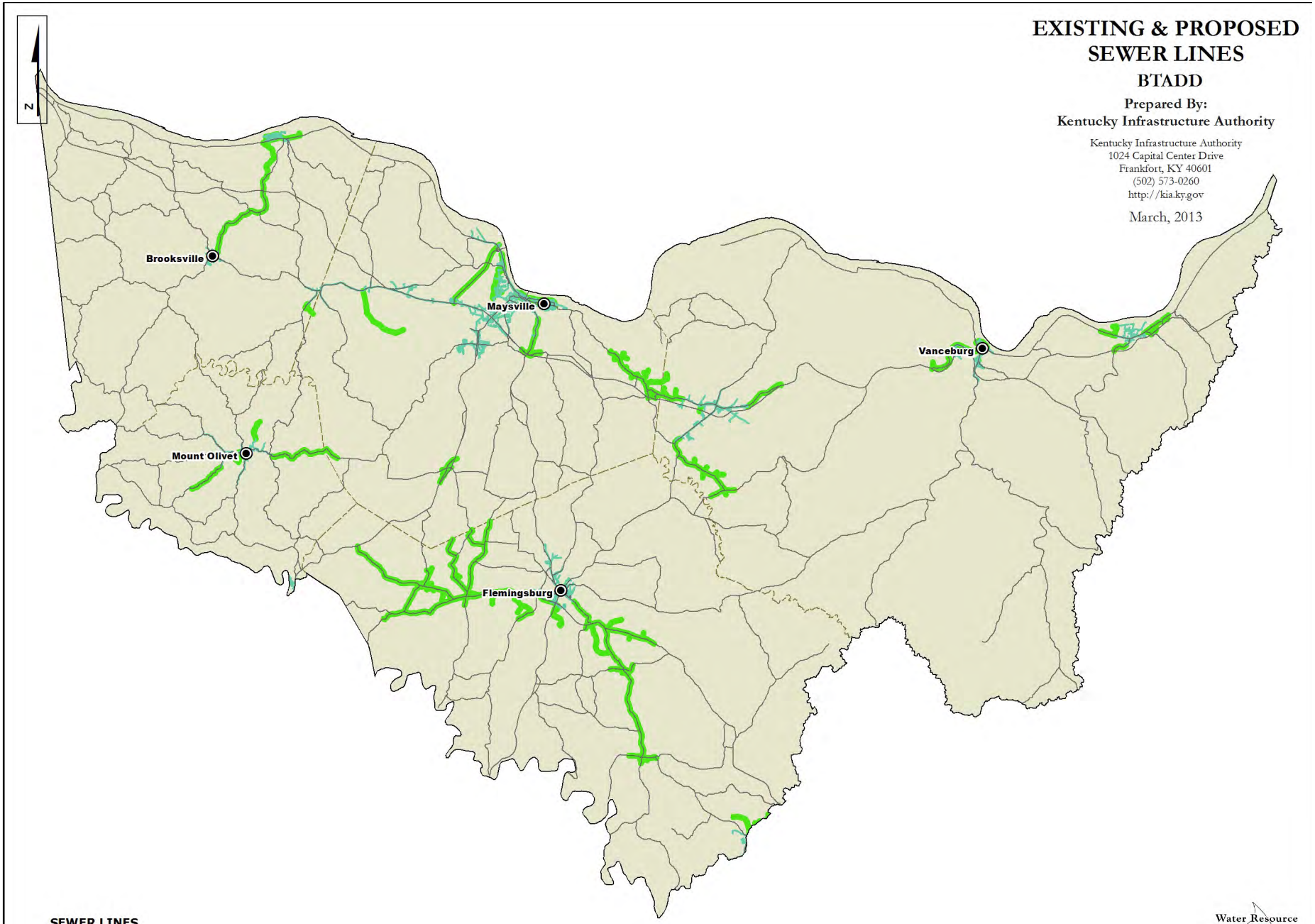
EXISTING & PROPOSED SEWER LINES

BTADD

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March, 2013



Public Sewer Systems in the Buffalo Trace Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021261	Augusta Sewer	Bracken	1,135	554
KY0025232	Brooksville Sewer	Bracken	653	298
KY0021229	Flemingsburg Sewer	Fleming	3,030	1,552
KY0102601	Lewis County Sanitation District #1	Lewis	803	371
KY0078123	Meadowbrook Subdivision	Lewis	262	105
KY0021512	Vanceburg Sewer	Lewis	1,471	713
KY0020257	Maysville Sewer	Mason	8,568	4,272
KYP000081	Western Mason Sanitation District	Mason	847	377
KY0104299	Mount Olivet Sewer	Robertson	560	258
		Totals:	17,329	8,500

Buffalo Trace Area Development District
Regional Wastewater Needs Assessment



Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Sanitary Sewer Overflow Correction**

Discussion of Area Development District Needs:

Buffalo Trace Area Development District (BTADD) is comprised of Bracken, Fleming, Lewis, Mason and Robertson Counties. Nine (9) wastewater systems currently provide sanitary service to the residents of the area. During a Regional Water Management Council meeting, the systems were given the opportunity to meet with the other systems in their respective county to discuss the needs for their system and determine the needs that were most prevalent in the county. The needs identified were used in the determination of the primary and secondary of the Buffalo Trace Area Development District.

The District's primary Clean Water need is to Repair and Replace Existing Infrastructure. This was identified as the primary or secondary need in four of the five planning units. Aging and undersized lines, along with treatment plants being insufficient to handle KY Division of Water limits, were primary reasons cited for determining Repair and Replace Existing Infrastructure as the primary need.

There was a tie to identify the secondary need for the region with Meet Regulatory Requirements and Extend Services to Unserved Areas. Meet Regulatory Requirements is directly related to the primary need. Two planning units have systems that are currently unable to meet regulatory requirements regarding ammonia and phosphorous limits that are required by KY Division of Water. Extend Services to Unserved Areas is also a critical need of the area. Wastewater systems provide service to only about 40% of the households in the Buffalo Trace region.

Additional needs identified as Clean Water needs for the region include Regionalization and Sanitary Sewer Overflow Correction.

Description and Determination of Planning Units:

The Buffalo Trace Area Development covers five planning units, each encompassing a political county boundary. The five planning units are: Bracken County, Fleming County, Lewis County, Mason County and Robertson County.

There are currently three (3) wastewater utilities in the Bracken County Planning Unit: Augusta Sewer, Brooksville Sewer and a portion of Western Mason Sanitation District. Also, the Augusta Regional Sewer Authority has been formed. This Authority will regionalize sewer in Bracken County by eliminating the Augusta and Brooksville WWTPs and will construct a corridor between the systems and provide service along this area.

One (1) wastewater utility, Flemingsburg Utility, provides service in Fleming County Planning Unit.

Lewis County Planning Unit is served by three (3) wastewater systems - Garrison Sewer, Lewis County Sanitation District #1 and Vanceburg Electric Plant Board.

Mason County Planning Unit is served by two (2) wastewater systems. They include: Maysville Utility System and Western Mason Sanitation District.

Mt. Olivet Utilities provides service in the Robertson County Planning Unit.

Buffalo Trace Area Development District
Project Ranking Methodology



Buffalo Trace completes county meetings. Every person who is on the mailing list for the Water Management Council (systems, Judge Executives, Mayors, engineers, Health Departments, DOW, etc.) is notified of the meetings. Each project is discussed and then the individuals present at the meeting rank the projects by what they determine to be most important and beneficial for the county. The rankings are reached by consensus.

After the county meetings, the Water Management Council ranks the projects on a regional basis. Each project that received a #1 ranking at the county meeting is presented. The Council then ranks those projects as to what is determined to be the most important and beneficial for the region. After those five projects are ranked and consensus reached, the projects are ranked on an alternating basis. The county that received the number 1 rank then receives the number 10 rank. The county that received the 2 rank receives the 9 rank. The county that received the 3 rank receives the 8 rank. The county that received the 4 rank receives the 7 rank. The county that received the 5 rank receives the 6 rank.

The rankings continue in an alternating fashion.
Basically;
County A receives regional rankings of 1, 10, 11, 20, etc.
County B receives regional rankings of 2, 9, 12, 19, etc.
County C receives regional rankings of 3, 8, 13, 18, etc.
County D receives regional rankings of 4, 7, 14, 17, etc.
County E receives regional rankings of 5, 6, 15, 16, etc.

This process is completed for both water and sewer projects. The order of regional rankings for water and sewer projects are completed independently of each other.

Project Rankings For Buffalo Trace Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21161006	Stonelick Line Extension	3-5 Years	Not Funded	$650,000	Mason	1	1
SX21069020	Phase 2 - Flemingsburg Bypass Sewer Line	3-5 Years	Partially Funded	$525,000	Fleming	2	1
SX21135018	LCSD #1 Sewer Plant Upgrade	3-5 Years	Not Funded	$2,170,000	Lewis	3	1
SX21023005	Augusta/Brooksville Regional Sewer Project	0-2 Years	Partially Funded	$12,370,000	Bracken	4	1
SX21201007	Mt. Olivet Phase 1 - Wastewater Treatment Plant Upgrade	0-2 Years	Fully Funded	$65,000	Robertson	5	1
SX21201008	Mt. Olivet Phase 2 - Wastewater Treatment Plant Upgrade	3-5 Years	Not Funded	$2,000,000	Robertson	6	2
SX21023007	Augusta-2nd Street Sewer Relinement	3-5 Years	Not Funded	$150,000	Bracken	7	2
SX21135010	Vanceburg - Meadowbrook	3-5 Years	Not Funded	$1,386,500	Lewis	8	2
SX21069019	Flemingsburg Circle Drive & Textron Drive Sewer Line Replacement	3-5 Years	Not Funded	$210,000	Fleming	9	2
SX21161004	Maysville Utility Wastewater Dump Station	6-10 Years	Not Funded	$100,000	Mason	10	2
SX21161024	WMSD Barrett Pike-Clarks Run Expansion	6-10 Years	Not Funded	$950,000	Mason	11	3
SX21069017	Ewing Sewer Phase I (Construction)	6-10 Years	Not Funded	$5,870,000	Fleming	12	3
SX21135002	Garrison Sewer Phase II	6-10 Years	Not Funded	$2,000,000	Lewis	13	3
SX21023008	WMSD-Jett Estates Sewer	6-10 Years	Not Funded	$840,000	Bracken	14	3
SX21201005	Mt. Olivet Phase III Sewer Line Extension	3-5 Years	Not Funded	$659,000	Robertson	15	3
SX21201004	Mt. Olivet-Extend Service to Sardis From KY 616	11-20 Years	Not Funded	$2,353,000	Robertson	16	4
SX21135020	LCSD Sewer Extension to Burtonville	3-5 Years	Not Funded	$1,080,000	Lewis	17	4
SX21069005	Ewing Sewer Phase II	11-20 Years	Not Funded	$2,850,000	Fleming	18	4
SX21161021	Western Mason Lift Station Upgrade	3-5 Years	Not Funded	$500,500	Mason	19	4
SX21069006	Ewing Sewer Phase III	11-20 Years	Not Funded	$2,850,000	Fleming	20	5
SX21135007	LCSD-Ribolt Area	3-5 Years	Not Funded	$794,000	Lewis	21	5
SX21135013	3037 Collection	6-10 Years	Not Funded	$1,000,000	Lewis	22	6
SX21069018	Hillsboro Sewer Phase I (Construction)	6-10 Years	Not Funded	$5,550,000	Fleming	23	6
SX21069008	Hillsboro Sewer Phase II	11-20 Years	Not Funded	$1,500,000	Fleming	24	7
SX21135022	Tollesboro Industrial Park (Sewer)	3-5 Years	Not Funded	$270,000	Lewis	25	7
SX21135003	Garrison Sewer Phase III	11-20 Years	Not Funded	$1,500,000	Lewis	26	8
SX21069009	Hillsboro Sewer Phase III	11-20 Years	Not Funded	$1,500,000	Fleming	27	8
			Total Cost:	**$51,693,000**			

Bracken County

- 2010 census population of 8,488 (3,840 households) with 24% serviceable.
- Projected 2020 population of 8,744 (change of 256).
- Bracken County has 16.27 miles of existing sewer lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- 12.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $12,520,000.
- Estimated funding needs for projects from 6 to 10 years: $840,000.



Bracken County has a 2010 census population count of 8,488 (3,840 households) with a projected 2020 population count of 8,744 (3,538 households). Public sewer is currently available to approximately 24 percent of the county's households based on 2010 census counts. Over the next ten years approximately 126 serviceable households will be added through the construction of 1.00 miles of sewer line extensions and approximately 941 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances. 12.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Augusta Regional Sewer Authority	1	$12,370,000	71	894	-	-	12.00
City of Augusta	1	$150,000	-	47	-	1.00	-
Western Mason Sanitation District	1	$840,000	55	-	1.00	-	-
Totals:	**3**	**$13,360,000**	**126**	**941**	**1.00**	**1.00**	**12.00**

Public Wastewater Systems in Bracken County

Note: Serviceability counts are for households within Bracken county only.

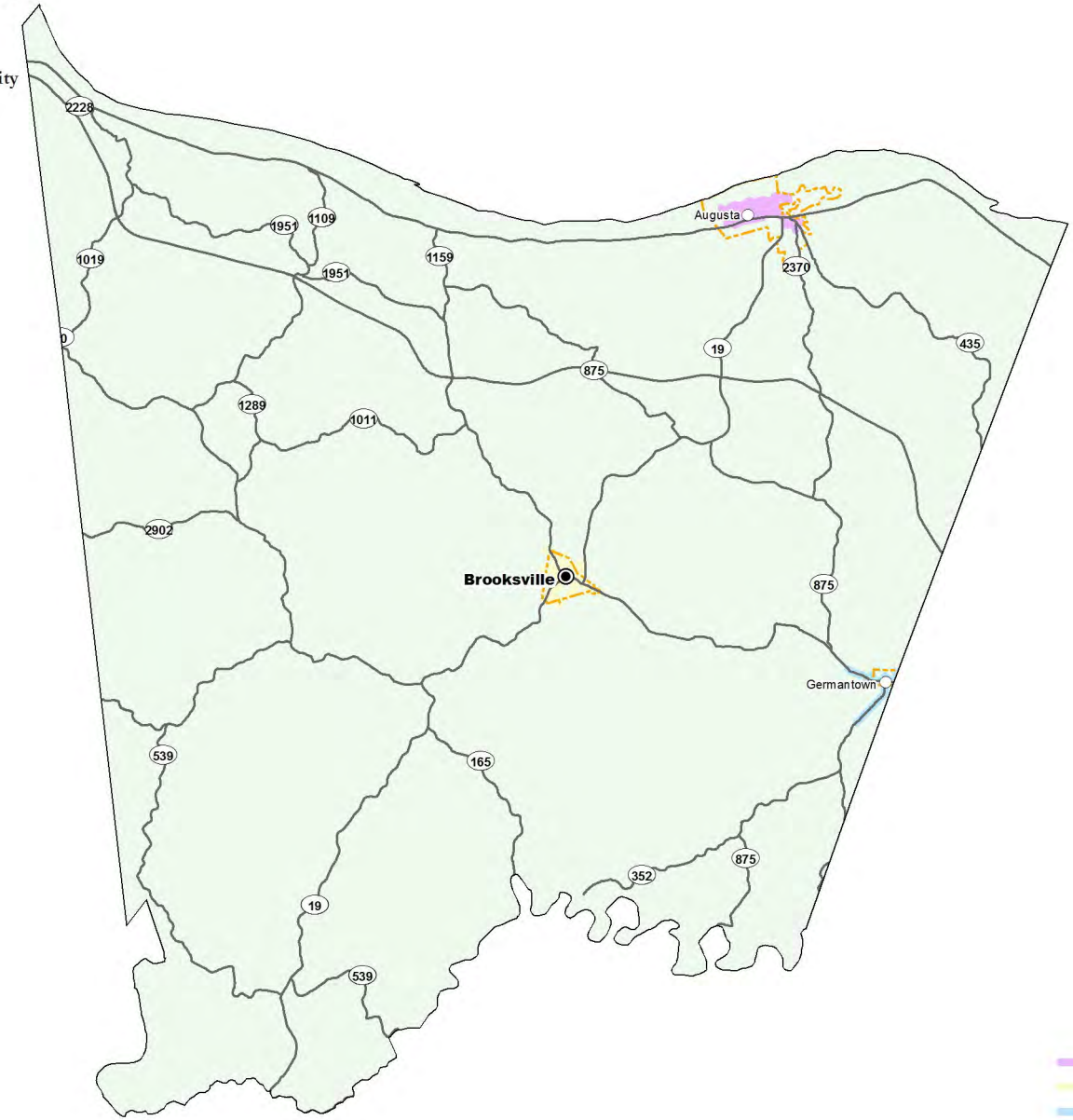
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021261	Augusta Sewer	Bracken	1,135	554
KY0025232	Brooksville Sewer	Bracken	653	298
KYP000081	Western Mason Sanitation District	Mason	159	73
		Totals:	1,947	925

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March, 2013



System Summary for Augusta Sewer

Permit ID	KY0021261	Treats Wastewater	Yes, 0.33 MGD with 0.125 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	569
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.16	Total KISOP Treated (MG)	-
Residential Customers	522	Total Treated (MG)	45.464
Commercial Customers	42	Number of Manholes	60
Institutional Customers	-	Number of Lift Stations	11
Industrial Customers	5	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 10% Constructed
Total Collection System Line Length = 7.67 miles (Collection: 6.31 miles, Interceptors: 1.36 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Augusta Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21023005	Augusta/Brooksville Regional Sewer Project	0-2 Years	Partially Funded	$12,370,000	Bracken	4	1
SX21023007	Augusta-2nd Street Sewer Relinement	3-5 Years	Not Funded	$150,000	Bracken	7	2

System Summary for Brooksville Sewer

Permit ID	KY0025232	Treats Wastewater	Yes, 0.12 MGD with 0.06 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	311
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$29.88	Total KISOP Treated (MG)	-
Residential Customers	249	Total Treated (MG)	28.770
Commercial Customers	62	Number of Manholes	110
Institutional Customers	-	Number of Lift Stations	9
Industrial Customers	-	Percent Lines 20 yrs or Older	99%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 6.52 miles (Collection: 4.01 miles, Interceptors: 2.50 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Brooksville Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21023005	Augusta/Brooksville Regional Sewer Project	0-2 Years	Partially Funded	$12,370,000	Bracken	4	1

Fleming County

- 2010 census population of 14,348 (6,623 households) with 24% serviceable.
- Projected 2020 population of 14,880 (change of 532).
- Fleming County has 33.38 miles of existing sewer lines.
- 32.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 3.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,235,000.
- Estimated funding needs for projects from 6 to 10 years: $11,420,000.



Fleming County has a 2010 census population count of 14,348 (6,623 households) with a projected 2020 population count of 14,880 (6,231 households). Public sewer is currently available to approximately 24 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,257 serviceable households will be added through the construction of 32.00 miles of sewer line extensions and approximately 11 instances of improved service through system wide upgrades. 3.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Ewing	1	$5,870,000	699	-	20.00	-	-
City of Flemingsburg	2	$735,000	-	11	-	-	3.00
Fleming County Fiscal Court	1	$5,550,000	552	-	12.00	-	-
Morehead Utility Plant Board	1	$1,500,000	6	-	-	-	-
Totals:	**5**	**$13,655,000**	**1,257**	**11**	**32.00**	**-**	**3.00**

Public Wastewater Systems in Fleming County

Note: Serviceability counts are for households within Fleming county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021229	Flemingsburg Sewer	Fleming	3,030	1,552
KY0052752	Morehead Utility Plant Board	Rowan	158	66
		Totals:	3,188	1,618

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March, 2013



System Summary for Ewing Sewer

Permit ID	KYP000075	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	-
Owner Type	Incorporated City	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed

Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Ewing Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21069017	Ewing Sewer Phase I (Construction)	6-10 Years	Not Funded	$5,870,000	Fleming	12	3

System Summary for Flemingsburg Sewer

Permit ID	KY0021229	Treats Wastewater	Yes, 0.65 MGD with 0.55 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,371
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$38.25	Total KISOP Treated (MG)	-
Residential Customers	1,169	Total Treated (MG)	127.894
Commercial Customers	5	Number of Manholes	557
Institutional Customers	5	Number of Lift Stations	7
Industrial Customers	1	Percent Lines 20 yrs or Older	82%
KISOP Customers	-	Has Facility Plan	Yes, 95% Constructed
Total Collection System Line Length = 30.00 miles (Collection: 25.82 miles, Interceptors: 4.18 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Flemingsburg Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21069020	Phase 2 - Flemingsburg Bypass Sewer Line	3-5 Years	Partially Funded	$525,000	Fleming	2	1
SX21069019	Flemingsburg Circle Drive & Textron Drive Sewer Line Replacement	3-5 Years	Not Funded	$210,000	Fleming	9	2
SX21069017	Ewing Sewer Phase I (Construction)	6-10 Years	Not Funded	$5,870,000	Fleming	12	3
SX21069018	Hillsboro Sewer Phase I (Construction)	6-10 Years	Not Funded	$5,550,000	Fleming	23	6

Lewis County

- 2010 census population of 13,870 (6,481 households) with 18% serviceable.
- Projected 2020 population of 13,899 (change of 29).
- Lewis County has 47.52 miles of existing sewer lines.
- 9.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 14.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,700,500.
- Estimated funding needs for projects from 6 to 10 years: $3,000,000.



Lewis County has a 2010 census population count of 13,870 (6,481 households) with a projected 2020 population count of 13,899 (5,717 households). Public sewer is currently available to approximately 18 percent of the county's households based on 2010 census counts. Over the next ten years approximately 521 serviceable households will be added through the construction of 9.00 miles of sewer line extensions and approximately 650 instances of improved service through system wide upgrades. 14.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Garrison-Quincy-Ky-O-Heights Water District	1	$2,000,000	200	-	-	-	5.00
Lewis County Sanitation District #1	4	$4,314,000	240	550	5.00	-	7.00
Vanceburg Electric Plant Board	2	$2,386,500	81	100	4.00	-	2.00
Totals:	**7**	**$8,700,500**	**521**	**650**	**9.00**	**-**	**14.00**

Public Wastewater Systems in Lewis County

Note: Serviceability counts are for households within Lewis county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0102601	Lewis County Sanitation District #1	Lewis	803	371
KY0078123	Meadowbrook Subdivision	Lewis	262	105
KY0021512	Vanceburg Sewer	Lewis	1,471	713
		Totals:	2,536	1,189

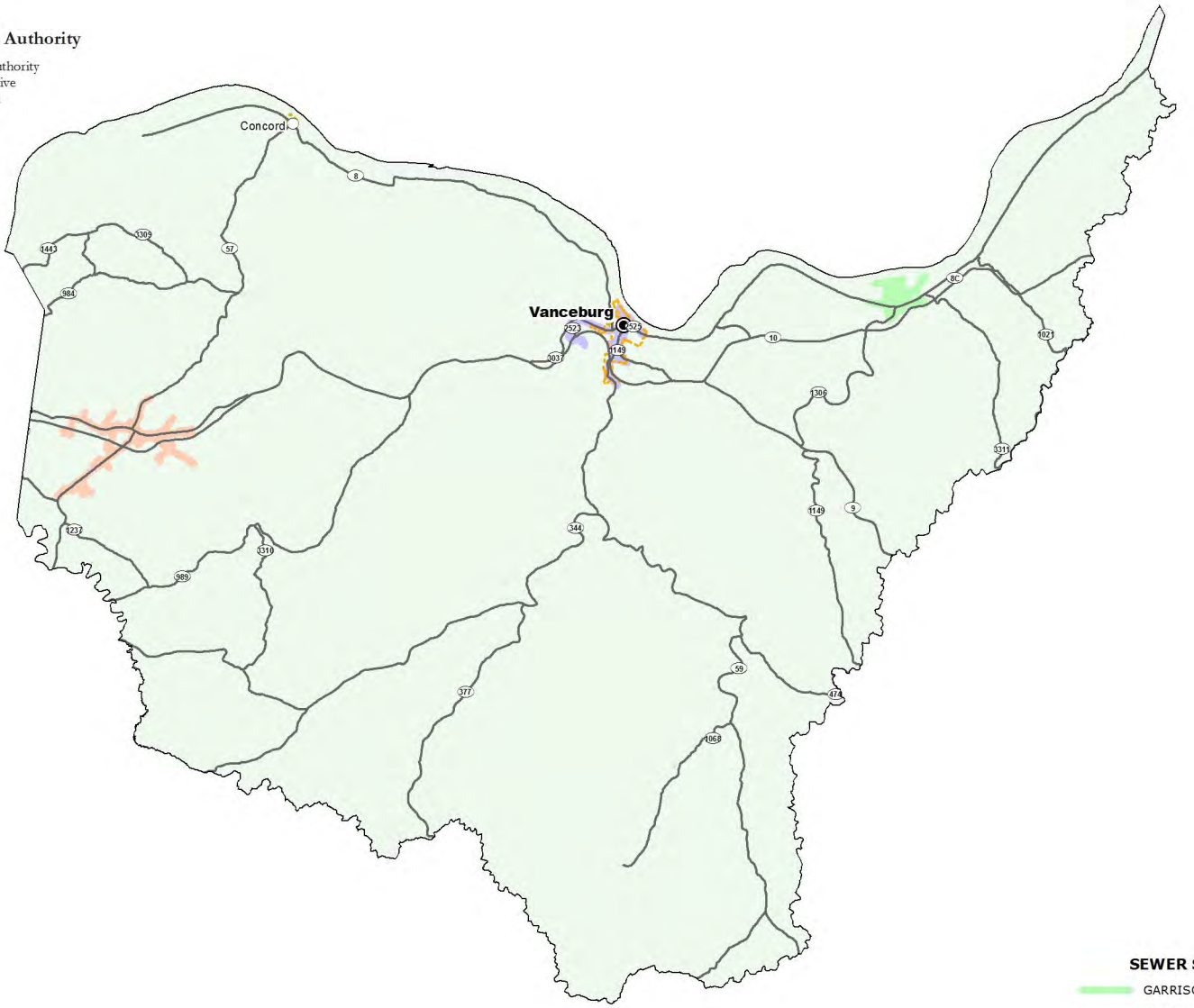
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March, 2013

Water Resource Information System



System Summary for Garrison Sewer

Permit ID	KY0105422	Treats Wastewater	Yes, 0.11 MGD with 0.018 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$44.00	Total KISOP Treated (MG)	-
Residential Customers	291	Total Treated (MG)	6.570
Commercial Customers	20	Number of Manholes	2
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 9.70 miles (Collection: 0.00 miles, Interceptors: 9.70 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Garrison Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21135002	Garrison Sewer Phase II	6-10 Years	Not Funded	$2,000,000	Lewis	13	3

System Summary for Lewis County Sanitation District #1

Permit ID	KY0102601	Treats Wastewater	Yes, 0.12 MGD with 0.05 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	555
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$38.65	Total KISOP Treated (MG)	-
Residential Customers	530	Total Treated (MG)	21.410
Commercial Customers	20	Number of Manholes	215
Institutional Customers	-	Number of Lift Stations	10
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 22.80 miles (Collection: 12.08 miles, Interceptors: 10.72 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lewis County Sanitation District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21135018	LCSD #1 Sewer Plant Upgrade	3-5 Years	Not Funded	$2,170,000	Lewis	3	1
SX21135020	LCSD Sewer Extension to Burtonville	3-5 Years	Not Funded	$1,080,000	Lewis	17	4
SX21135007	LCSD-Ribolt Area	3-5 Years	Not Funded	$794,000	Lewis	21	5
SX21135022	Tollesboro Industrial Park (Sewer)	3-5 Years	Not Funded	$270,000	Lewis	25	7

System Summary for Meadowbrook Subdivision

Permit ID	KY0078123	Treats Wastewater	Yes, 0.05 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	117
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.86	Total KISOP Treated (MG)	-
Residential Customers	117	Total Treated (MG)	4.370
Commercial Customers	-	Number of Manholes	26
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed

Total Collection System Line Length = 1.40 miles (Collection: 1.29 miles, Interceptors: 0.12 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Meadowbrook Subdivision

System Summary for Vanceburg Sewer

Permit ID	KY0021512	Treats Wastewater	Yes, 0.41 MGD with 0.197 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	720
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.86	Total KISOP Treated (MG)	-
Residential Customers	606	Total Treated (MG)	72.072
Commercial Customers	95	Number of Manholes	281
Institutional Customers	1	Number of Lift Stations	15
Industrial Customers	18	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed

Total Collection System Line Length = 13.51 miles (Collection: 10.37 miles, Interceptors: 3.14 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Vanceburg Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21135010	Vanceburg - Meadowbrook	3-5 Years	Not Funded	$1,386,500	Lewis	8	2
SX21135013	3037 Collection	6-10 Years	Not Funded	$1,000,000	Lewis	22	6

Mason County

- 2010 census population of 17,490 (8,105 households) with 57% serviceable.
- Projected 2020 population of 18,419 (change of 929).
- Mason County has 105.22 miles of existing sewer lines.
- 2.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 6.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,150,500.
- Estimated funding needs for projects from 6 to 10 years: $1,890,000.



Mason County has a 2010 census population count of 17,490 (8,105 households) with a projected 2020 population count of 18,419 (7,608 households). Public sewer is currently available to approximately 57 percent of the county's households based on 2010 census counts. Over the next ten years approximately 560 serviceable households will be added through the construction of 2.00 miles of sewer line extensions and approximately 510 instances of improved service through system wide upgrades. 6.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Mason County Fiscal Court	1	$650,000	10	70	2.00	-	2.00
Maysville Utility Commission	1	$100,000	500	-	-	-	-
Western Mason Sanitation District	3	$2,290,500	50	440	-	-	4.00
Totals:	**5**	**$3,040,500**	**560**	**510**	**2.00**	**-**	**6.00**

Public Wastewater Systems in Mason County

Note: Serviceability counts are for households within Mason county only.

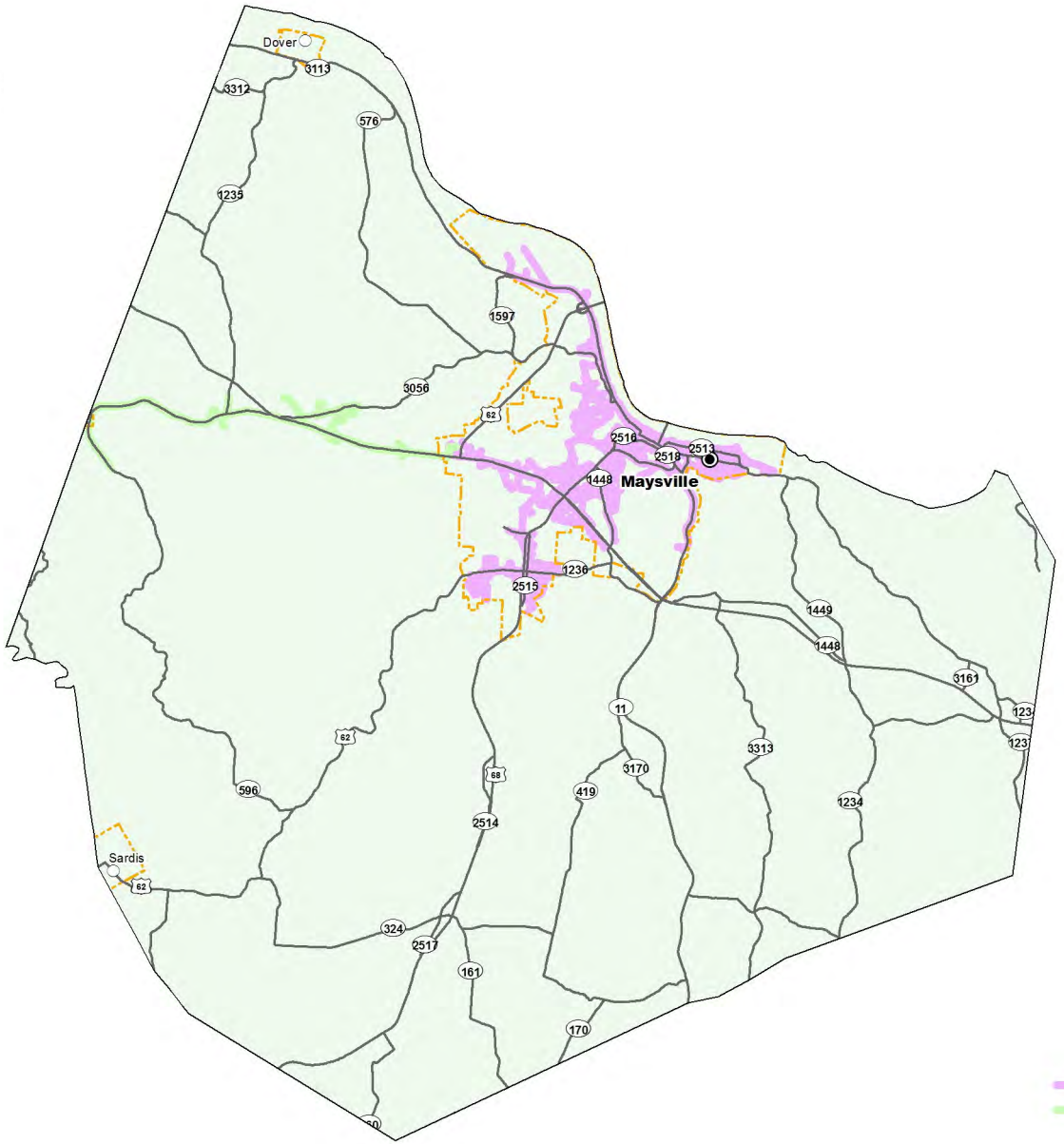
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020257	Maysville Sewer	Mason	8,568	4,272
KYP000081	Western Mason Sanitation District	Mason	688	304
		Totals:	9,256	4,576

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March, 2013



System Summary for Maysville Sewer

Permit ID	KY0020257	Treats Wastewater	Yes, 3.4 MGD with 1.353 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	3,657
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	8	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$27.45	Total KISOP Treated (MG)	12.000
Residential Customers	3,096	Total Treated (MG)	258.056
Commercial Customers	412	Number of Manholes	2462
Institutional Customers	108	Number of Lift Stations	26
Industrial Customers	40	Percent Lines 20 yrs or Older	75%
KISOP Customers	1	Has Facility Plan	Yes, 80% Constructed

Total Collection System Line Length = 91.43 miles (Collection: 72.32 miles, Interceptors: 19.10 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Maysville Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21161006	Stonelick Line Extension	3-5 Years	Not Funded	$650,000	Mason	1	1
SX21161004	Maysville Utility Wastewater Dump Station	6-10 Years	Not Funded	$100,000	Mason	10	2
SX21161024	WMSD Barrett Pike-Clarks Run Expansion	6-10 Years	Not Funded	$950,000	Mason	11	3
SX21023008	WMSD-Jett Estates Sewer	6-10 Years	Not Funded	$840,000	Bracken	14	3

System Summary for Pinewood Subdivision STP

Permit ID	KY0076724	Treats Wastewater	Yes, 0.025 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.00	Total KISOP Treated (MG)	-
Residential Customers	75	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.01 miles (Collection: 0.01 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Pinewood Subdivision STP

System Summary for Western Mason Sanitation District

Permit ID	KYP000081	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	440
Owner Type	Sewer and Sanitation District	KISOP Sender	Yes, to 1 receiver.
Employees	1	Total KISOP Sent (MG)	12.000
Cost Per 4000 Gallons	$51.73	Total KISOP Treated (MG)	-
Residential Customers	388	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 10% Constructed
Total Collection System Line Length = 15.78 miles (Collection: 15.71 miles, Interceptors: 0.07 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Western Mason Sanitation District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21161024	WMSD Barrett Pike-Clarks Run Expansion	6-10 Years	Not Funded	$950,000	Mason	11	3
SX21023008	WMSD-Jett Estates Sewer	6-10 Years	Not Funded	$840,000	Bracken	14	3
SX21161021	Western Mason Lift Station Upgrade	3-5 Years	Not Funded	$500,500	Mason	19	4

Robertson County

- 2010 census population of 2,282 (1,095 households) with 24% serviceable.
- Projected 2020 population of 2,364 (change of 82).
- Robertson County has 14.08 miles of existing sewer lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,659,000.
- There are no projects planned from 6 to 10 years.



Robertson County has a 2010 census population count of 2,282 (1,095 households) with a projected 2020 population count of 2,364 (965 households). Public sewer is currently available to approximately 24 percent of the county's households based on 2010 census counts. Over the next ten years approximately 49 serviceable households will be added through the construction of 4.00 miles of sewer line extensions and approximately 256 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Mount Olivet	2	$2,659,000	49	256	4.00	-	-
Totals:	**2**	**$2,659,000**	**49**	**256**	**4.00**	**-**	**-**

Public Wastewater Systems in Robertson County

Note: Serviceability counts are for households within Robertson county only.

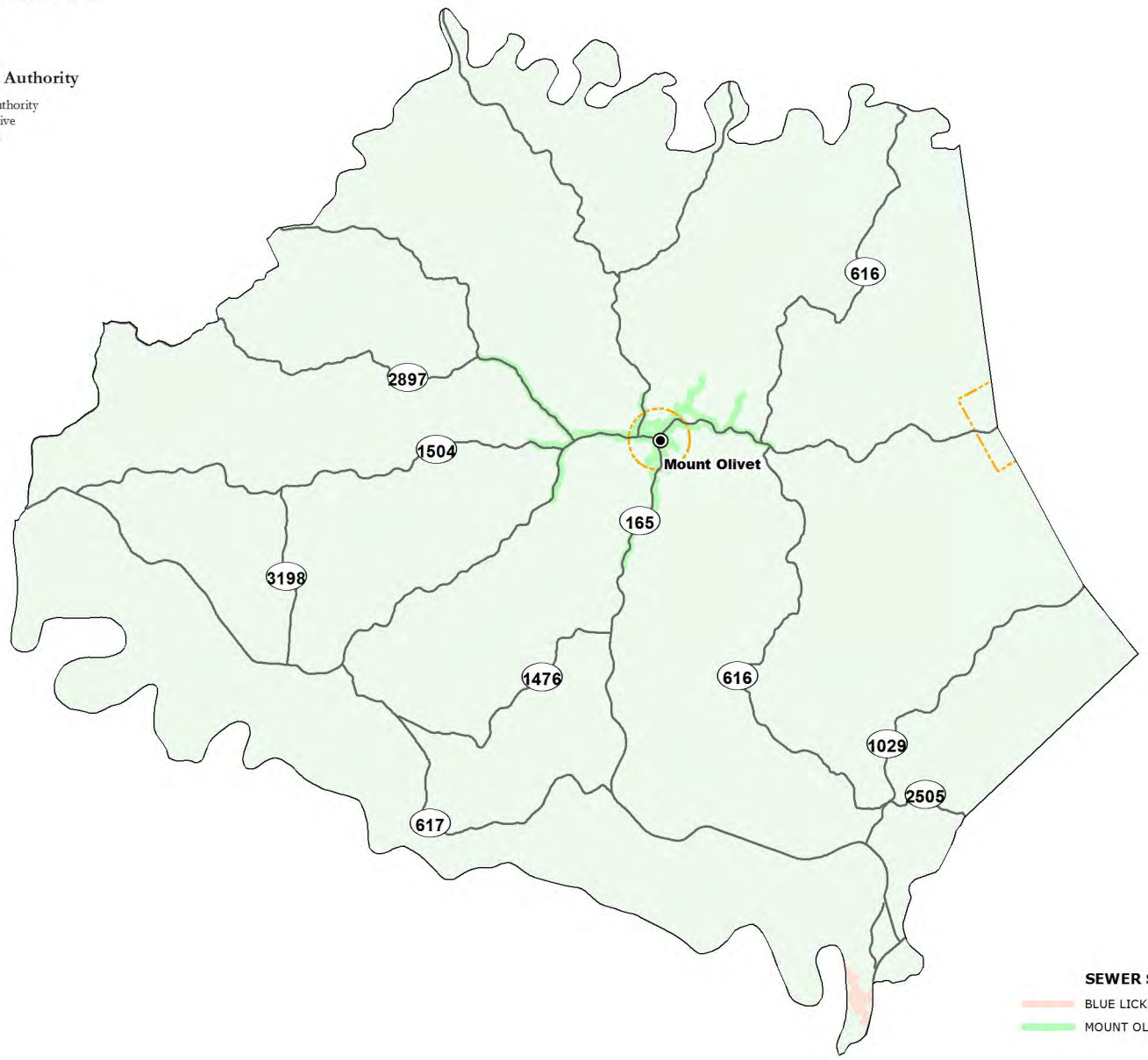
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0104299	Mount Olivet Sewer	Robertson	560	258
		Totals:	560	258

SEWER SERVICE AREAS
ROBERTSON COUNTY
Kentucky

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March, 2013



System Summary for Mount Olivet Sewer

Permit ID	KY0104299	Treats Wastewater	Yes, 0.04 MGD with 0.044 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	270
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$39.76	Total KISOP Treated (MG)	-
Residential Customers	229	Total Treated (MG)	16.060
Commercial Customers	20	Number of Manholes	7
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed
Total Collection System Line Length = 12.64 miles (Collection: 12.63 miles, Interceptors: 0.01 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mount Olivet Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21201008	Mt. Olivet Phase 2 - Wastewater Treatment Plant Upgrade	3-5 Years	Not Funded	$2,000,000	Robertson	6	2
SX21201005	Mt. Olivet Phase III Sewer Line Extension	3-5 Years	Not Funded	$659,000	Robertson	15	3

Cumberland Valley Area Development District (CVADD)



- 2010 census population of 236,618 (104,865 households) with 33% serviceable.
- Projected 2020 population of 237,501 (change of 883).
- 696.27 miles of existing sewer lines.
- 582.00 miles of line extensions proposed in the next 10 years.
- 73.00 miles of line rehabilitation proposed in the next 10 years.
- 46.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $121,901,681.
- Estimated funding needs for projects from 6 to 10 years: $94,523,049.
- Average age of wastewater treatment plants is 32 years.
- Total number of interconnected systems is 2.
- 165 miles of sewer lines less than 15 years old.
- 115 miles of sewer lines between 15 and 30 years old.
- 235 miles of sewer lines between 31 and 50 years old.
- 140 miles of sewer lines between 51 and 70 years old.
- 38 miles of sewer lines greater than 70 years old.

Cumberland Valley Area Development District has a 2010 census population count of 236,618 (104,865 households) with a projected 2020 population count of 237,501 (97,085 households). Public sewer is currently available to approximately 33 percent of the district's households based on 2010 census counts. Over the next ten years approximately 19,909 serviceable households will be added through the construction of 582.00 miles of sewer line extensions and approximately 22,136 instances of improved service through the rehabilitation of 73.00 miles of existing sewer lines and other appurtenances. 46.00 miles of interceptor lines are also proposed within this district.

County Summary for Cumberland Valley Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Bell	28,691	13,154	27,648	11,714	6,308	48%	$ 18,265,348
Clay	21,730	8,875	20,289	7,421	1,834	21%	$ 17,086,503
Harlan	29,278	13,513	26,099	10,856	5,544	41%	$ 24,664,482
Jackson	13,494	6,523	13,771	5,961	483	7%	$ 1,040,000
Knox	31,883	14,485	32,132	13,362	4,632	32%	$ 9,337,446
Laurel	58,849	25,446	64,713	26,415	9,281	37%	$ 97,768,900
Rockcastle	17,056	7,703	17,593	7,308	2,061	27%	$ 25,151,000
Whitley	35,637	15,166	35,256	14,048	4,917	32%	$ 23,111,051
Totals	**236,618**	**104,865**	**237,501**	**97,085**	**35,060**	**33%**	**$ 216,424,730**

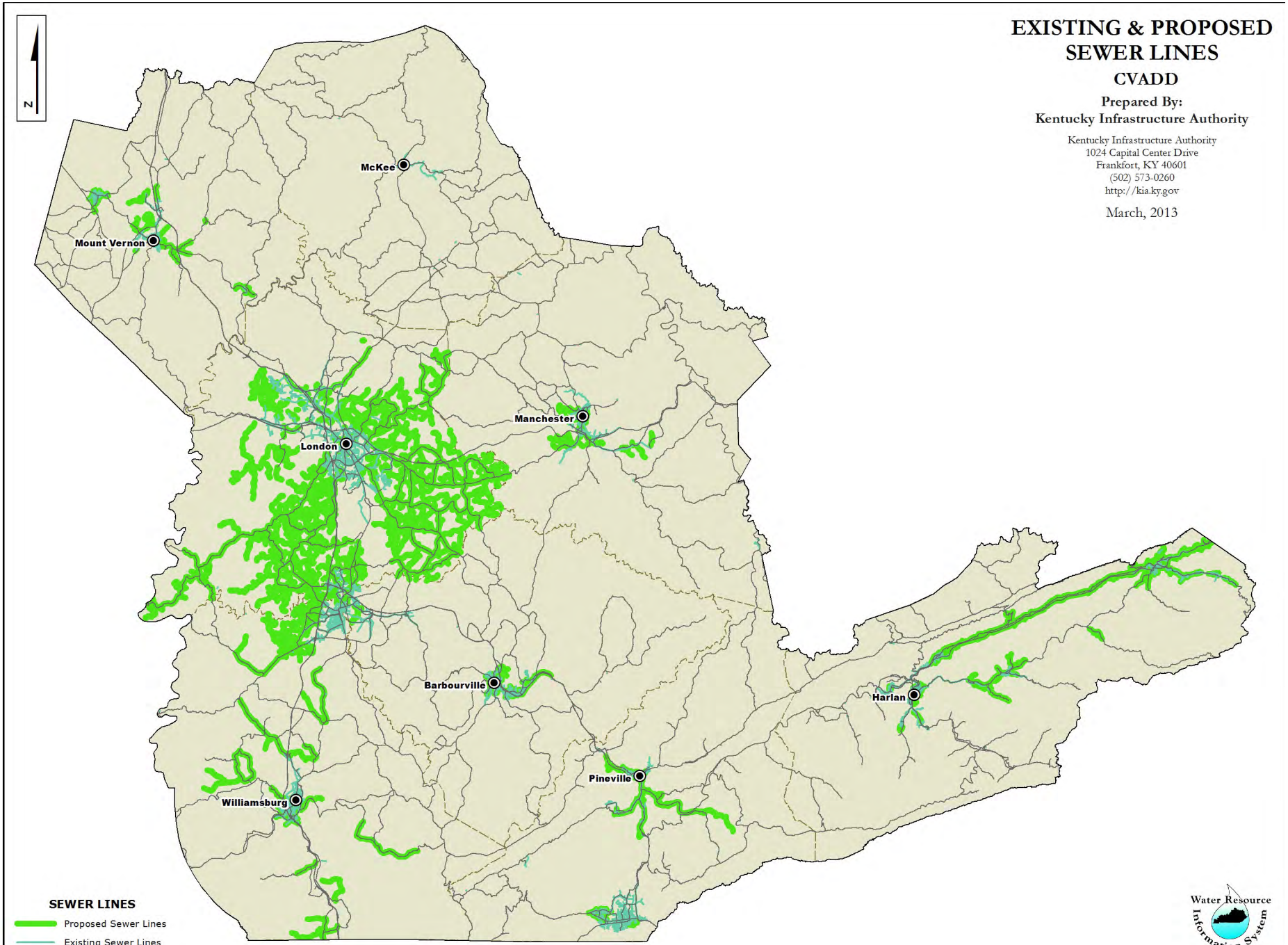
EXISTING & PROPOSED SEWER LINES

CVADD

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March, 2013



Public Sewer Systems in the Cumberland Valley Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0072885	City of Middlesboro	Bell	10,364	4,971
KY0024058	Pineville Utility Commission	Bell	3,106	1,329
KY0029122	City of Manchester	Clay	4,514	1,814
KY0025755	City of Benham	Harlan	778	406
KY0021571	City of Cumberland	Harlan	2,198	1,047
KY0073091	City of Evarts	Harlan	1,307	483
KY0077615	City of Evarts Turner Trailer Park	Harlan	81	43
KY0026093	City of Harlan	Harlan	5,794	2,683
KY0026115	City of Loyall	Harlan	748	374
KY0024279	City of Lynch	Harlan	839	499
KY0034444	City of McKee	Jackson	879	483
KY0024082	Barbourville Utility Commission	Knox	5,604	2,546
KYP000074	Knox County Utility Commission	Knox	113	60
KY0020133	Corbin Utilities Commission	Laurel	13,022	6,129
KY0021270	London Utility Commission	Laurel	12,410	5,604
KYP000063	Wood Creek Water District	Laurel	4,908	2,227
KY0047431	City of Brodhead	Rockcastle	1,187	535
KY0040703	City of Livingston	Rockcastle	198	105
KY0024694	City of Mount Vernon	Rockcastle	3,009	1,421
KY0028347	City of Williamsburg	Whitley	5,633	2,165
		Totals:	76,692	34,924

Cumberland Valley Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Extend Services to Unserved Areas**
Secondary Need: **Repair and Replace Existing Infrastructure**

Discussion of Area Development District Needs:

The Cumberland Valley ADD wastewater planning needs include extending lines to unserved areas, repairing and replacing existing infrastructure, new collector sewer and appurtenances, sanitary sewer overflow correction, meeting regulatory requirements, ground water protection, regionalization and improving security.
Extending wastewater services to unserved areas, repair and replacing aging infrastructure is a great need in the Cumberland Valley Planning Unit. Each County has identifies wastewater needs and proposed projects to meet those needs. Those projects are listed in the planning unit section.

Lack of wastewater services in rural areas of the Cumberland Valley ADD is a major challenge. A lot of time and effort has been devoted to planning for wastewater services but that has not brought change to many communities in the area. County by county has cluster of communities that could benefit from some on site treatment method, but funding and management issues have held the process. The situation could be improved if more water districts and associations could provide services in their respective service areas. Laurel and Whitley Counties have shown leadership in wastewater planning at the grass root level, but implementation has been held back by lack of funding.

Description and Determination of Planning Units:

The Cumberland Valley Area Development District is divided into eight planning units that are based on the eight counties in the Cumberland Valley Area. The planning units are: Bell County, Clay County, Harlan County, Jackson County, Knox County, Laurel County, Rockcastle County, and Whitley County.

In the Bell County planning unit there are two wastewater utilities (City of Middlesboro and City of Pineville) that serve approximately 6,308 households.

The City of Manchester is the only wastewater utility in the Clay County planning unit and serves approximately 1,834 households.

The Harlan County planning unit is comprised of seven utilities (City of Benham, City of Cumberland, City of Evarts, City of Harlan, City of Loyall, City of Lynch, and Black Mountain Utility District) that serve approximately 5,544 households.

The City of McKee is the only wastewater utility in the Jackson County planning unit and serves approximately 483 households.

The Knox County planning unit has two wastewater utilities (Barbourville Utility Commission and Knox county Utility Commission) that serve approximately 4,632 households.

The Laurel County planning unit has three wastewater utilities (London Utility Commission, Corbin Utilities Commission, and Wood Creek Water District) that serve approximately 9,281 households.

The Rockcastle County planning unit serves approximately 2,061 households with three wastewater utilities (City of Brodhead, City of Livingston, and the City of Mount Vernon).

The City of Williamsburg is the only wastewater utility in the Whitley County planning unit and serves approximately 5,633 households.

Cumberland Valley Area Development District
Project Ranking Methodology

The annual ranking in the Cumberland Valley area begins with a series of county-wide meetings comprised of all the water and sewer utilities in the county where the meeting is taking place. Each utility present decides which of their projects is to be ranked and determines the importance of those for themselves. The county ranking process is based on a consensus decision by the members present at the meeting.

While the county rankings are based on a consensus, the regional ranking process uses a quantitative points system to determine the importance of each project ranked at the county level. The points given to each project fall within 7 categories: Project Type, Compliance, Financial, Project Status, County Ranking, Water Loss, and Regional Importance.

Project Type

A.	Will this project provide or continue regionalization and/or consolidation of wastewater treatment systems? Proposed project reduces the number of NPDES discharges by regionalization.	25
B.	Combined Sewer Overflow (CSO) Correction	25
C.	Elimination of sewage treatment plant through an interconnection.	23
D.	Sanitary Sewer Overflow (SSO) Correction	20
E.	Construction of a new wastewater treatment plant for a regional provider.	20
F.	Replacement and/or rehabilitation of aging infrastructure	17
G.	New Treatment Plant/Expanding Existing Plant	15
H.	Extension of Service to Unserved Households	
	a. 9+ households per mile	20
	b. 7-8 households per mile	19
	c. 5-6 households per mile	18
	d. 3-4 households per mile	15
	e. 1-2 households per mile	10

Compliance with Enforcement Action

	Is the project necessary to achieve full or partial compliance with a court order, agreed order, or a judicial or administrative consent decree?	20

Financial

A.	Documented financing plan in Project Profile	10
B.	Utility service area has a MHI less than $32,958	20
C.	Utility service area with a MHI between $41,197 and $32,959	10

Project Status

A.	Estimated engineer's budget complete	5
B.	Estimated bid date and construction start date	5

County Ranking

A.	Number one ranked project	24
B.	Number two ranked project	20
C.	Number three ranked project	16
D.	Number four ranked project	14
E.	Number five ranked project	12

Water Loss

A.	Utility has a water loss percentage less than 15%	20
B.	Utility has a water loss percentage between 15% to 25%	15
C.	Utility has a water loss percentage between 25% to 35%	10

Regional Importance

A project can be awarded points at the discretion of the regional water management council.
No more than thirty points can be awarded by the council to water projects in the regional ranking.

Project Rankings For Cumberland Valley Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21013003	Courthouse Square Utility Replacement	0-2 Years	Not Funded	$2,255,948	Bell	1	2
SX21095003	Tri Cities Sewer Interconnect Phase 1	0-2 Years	Not Funded	$3,085,000	Harlan	2	1
SX21203316	City of Brodhead - Sewer Rehabilitation	0-2 Years	Not Funded	$1,275,000	Rockcastle	3	2
SX21235004	Sanitary Sewer Rehabilitation and I&I Removal Project	3-5 Years	Partially Funded	$1,179,835	Whitley	4	1
SX21095004	City of Loyall - wastewater Line Replacement Project Phase 3	3-5 Years	Not Funded	$1,284,500	Harlan	5	2
SX21235005	Ball Park Pump Station/ Force Main - Phase II	0-2 Years	Not Funded	$1,599,411	Whitley	6	2
SX21095050	Harlan: Sanitary Sewer - Combined Sewer Rehabilitation	0-2 Years	Partially Funded	$1,368,490	Harlan	7	3
SX21203153	Wastewater System Improvements Project	3-5 Years	Not Funded	$1,419,000	Rockcastle	8	1
SX21013148	Middlesboro: Noetown Sewer Rehab/Binghamtown PS Rehab	0-2 Years	Partially Funded	$2,550,000	Bell	9	1
SX21051006	Lift Station Rehabilitation and Replacement	3-5 Years	Not Funded	$1,180,000	Clay	10	1
SX21203190	City of Mt. Vernon Wastewater Replacement Along Main Street	3-5 Years	Not Funded	$1,640,000	Rockcastle	11	3
SX21121138	City of Barbourville - Heidrick Sanitary	0-2 Years	Partially Funded	$1,000,000	Knox	12	1
SX21013142	Middlesboro - "y" Road Sewer Extension/Whitmer Industrial Park	3-5 Years	Not Funded	$1,097,000	Bell	13	4
SX21013144	Pineville - PMRIDA Sewer Ext to Industrial Park	0-2 Years	Partially Funded	$4,994,000	Bell	14	3
SX21125151	Wood Creek Wastewater Treatment Facilities	3-5 Years	Not Funded	$4,000,000	Laurel	15	1
SX21051007	Beech Creek Recreational Center Wastewater Package Plant Replacement	3-5 Years	Not Funded	$425,000	Clay	16	2
SX21125318	East Laurel Water District - Wastewater Line Extensions #18	3-5 Years	Not Funded	$1,199,266	Laurel	17	3
SX21051048	Red Bird Mission Wastewater Plant Replacement	3-5 Years	Not Funded	$900,000	Clay	18	3
SX21095055	Evarts Pride Wastewater Sewer Extension	3-5 Years	Not Funded	$600,000	Harlan	19	5
SX21203192	Mount Vernon Wastewater Gravity Force Main and Lift Station Hwy 25 South From Mt. Vernon to Burr Area	3-5 Years	Not Funded	$5,385,000	Rockcastle	20	5
SX21125322	WCWD - Unserved Customers In Lake Watershed	3-5 Years	Not Funded	$10,150,000	Laurel	21	5
SX21095510	City of Benham: Popular Street Sewer Replacement	3-5 Years	Not Funded	$87,000	Harlan	22	4
SX21125516	London Utility Commission - Sunshine Hills Area Phase I	3-5 Years	Not Funded	$605,800	Laurel	23	2
SX21203191	City of Mount Vernon -WWTP and Pump Station off Richmond Street	3-5 Years	Not Funded	$5,500,000	Rockcastle	24	4
SX21125519	London - Phase I to Serve The Area Between Parker Road (KY 3432) and I-75	6-10 Years	Not Funded	$918,450	Laurel	25	4
			Total Cost:	**$55,698,700**			

Bell County

- 2010 census population of 28,691 (13,154 households) with 48% serviceable.
- Projected 2020 population of 27,648 (change of -1,043).
- Bell County has 90.89 miles of existing sewer lines.
- 22.00 miles of line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- 2.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $14,196,948.
- Estimated funding needs for projects from 6 to 10 years: $4,068,400.



Bell County has a 2010 census population count of 28,691 (13,154 households) with a projected 2020 population count of 27,648 (11,714 households). Public sewer is currently available to approximately 48 percent of the county's households based on 2010 census counts. Over the next ten years approximately 363 serviceable households will be added through the construction of 22.00 miles of sewer line extensions and approximately 470 instances of improved service through the rehabilitation of 10.00 miles of existing sewer lines and other appurtenances. 2.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Bell County Fiscal Court	2	$8,294,000	214	210	16.00	-	-
City of Middlesboro	2	$3,647,000	32	200	1.00	9.00	-
City of Pineville	5	$6,324,348	117	60	5.00	1.00	2.00
Totals:	**9**	**$18,265,348**	**363**	**470**	**22.00**	**10.00**	**2.00**

Public Wastewater Systems in Bell County

Note: Serviceability counts are for households within Bell county only.

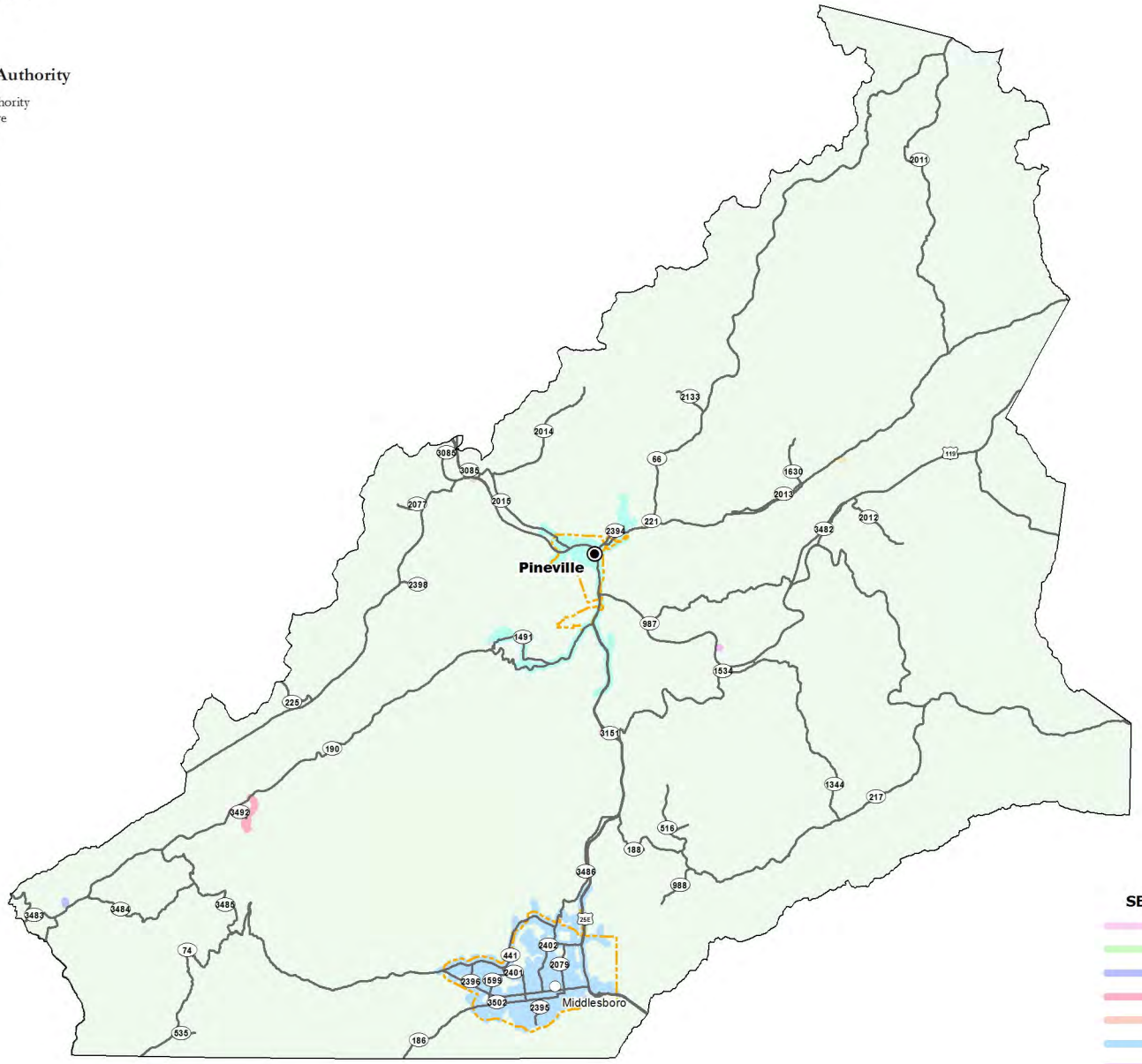
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0072885	City of Middlesboro	Bell	10,364	4,971
KY0024058	Pineville Utility Commission	Bell	3,106	1,329
		Totals:	13,470	6,300

SEWER SERVICE AREAS
BELL COUNTY
Kentucky

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March, 2013



System Summary for City of Middlesboro

Permit ID	KY0072885	Treats Wastewater	Yes, 3.6 MGD with 2.55 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	4,560
Owner Type	Incorporated City	KISOP Sender	No
Employees	12	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$12.92	Total KISOP Treated (MG)	-
Residential Customers	3,948	Total Treated (MG)	0.932
Commercial Customers	584	Number of Manholes	5055
Institutional Customers	-	Number of Lift Stations	25
Industrial Customers	4	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 20% Constructed
Total Collection System Line Length = 63.74 miles (Collection: 63.64 miles, Interceptors: 0.10 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Middlesboro

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21013148	Middlesboro: Noetown Sewer Rehab/Binghamtown PS Rehab	0-2 Years	Partially Funded	$2,550,000	Bell	9	1
SX21013142	Middlesboro - "y" Road Sewer Extension/Whitmer Industrial Park	3-5 Years	Not Funded	$1,097,000	Bell	13	4

System Summary for Pineville Utility Commission

Permit ID	KY0024058	Treats Wastewater	Yes, 0.72 MGD with 0.72 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	858
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	22	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$24.06	Total KISOP Treated (MG)	-
Residential Customers	727	Total Treated (MG)	219.000
Commercial Customers	131	Number of Manholes	300
Institutional Customers	-	Number of Lift Stations	13
Industrial Customers	-	Percent Lines 20 yrs or Older	60%
KISOP Customers	-	Has Facility Plan	Yes, 30% Constructed

Total Collection System Line Length = 25.15 miles (Collection: 24.97 miles, Interceptors: 0.18 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Pineville Utility Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21013003	Courthouse Square Utility Replacement	0-2 Years	Not Funded	$2,255,948	Bell	1	2
SX21013144	Pineville - PMRIDA Sewer Ext to Industrial Park	0-2 Years	Partially Funded	$4,994,000	Bell	14	3
SX21103156	US 119 Sewer Line Extension	3-5 Years	Not Funded	$3,300,000	Bell		
SX21013145	Pineville: Ferndale Sewerline Extension	6-10 Years	Not Funded	$1,500,000	Bell		
SX21013029	Turkey Creek Sewer Extension	6-10 Years	Not Funded	$1,000,000	Bell		
SX21013150	Pineville: Paula Drive Sewer Extension	6-10 Years	Not Funded	$950,000	Bell		
SX21013002	Jackson Drive (25E) Sewer Extension	6-10 Years	Not Funded	$618,400	Bell		

Clay County

- 2010 census population of 21,730 (8,875 households) with 21% serviceable.
- Projected 2020 population of 20,289 (change of -1,441).
- Clay County has 44.07 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,505,000.
- Estimated funding needs for projects from 6 to 10 years: $14,581,503.



Clay County has a 2010 census population count of 21,730 (8,875 households) with a projected 2020 population count of 20,289 (7,421 households). Public sewer is currently available to approximately 21 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,321 serviceable households will be added through the construction of 0.00 miles of sewer line extensions and approximately 771 instances of improved service through the rehabilitation of 10.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Manchester	5	$14,485,000	-	771	-	10.00	-
Clay County Fiscal Court	1	$900,000	1,321	-	-	-	-
East Laurel Water District	1	$1,701,503	-	-	-	-	-
Totals:	**7**	**$17,086,503**	**1,321**	**771**	**-**	**10.00**	**-**

Public Wastewater Systems in Clay County

Note: Serviceability counts are for households within Clay county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0029122	City of Manchester	Clay	4,514	1,814
		Totals:	4,514	1,814

SEWER SERVICE AREAS
CLAY COUNTY
Kentucky

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March, 2013



SEWER SERVICE BY OWNER

- BIG CREEK ELEM SCHOOL
- BURNING SPRINGS ELEM SCHOOL
- CHADS HOPE CENTER
- CLAY CO AREA TECH CENTER
- GOOSE ROCK ELEM SCHOOL
- HACKER ELEM SCHOOL
- LAUREL CREEK HEALTH CARE CENTER
- MANCHESTER RECREATIONAL CENTER
- MANCHESTER STP
- ONEDA BAPTIST INSTITUTE
- REDBIRD MISSION HIGH & ELEMENTARY
- REDBIRD MISSION INC.

System Summary for City of Manchester

Permit ID	KY0029122	Treats Wastewater	Yes, 1.6 MGD with 0.77 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,321
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$15.88	Total KISOP Treated (MG)	-
Residential Customers	1,095	Total Treated (MG)	202.670
Commercial Customers	225	Number of Manholes	1000
Institutional Customers	1	Number of Lift Stations	25
Industrial Customers	-	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 40% Constructed
Total Collection System Line Length = 41.81 miles (Collection: 41.69 miles, Interceptors: 0.12 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Manchester

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21051006	Lift Station Rehabilitation and Replacement	3-5 Years	Not Funded	$1,180,000	Clay	10	1
SX21051007	Beech Creek Recreational Center Wastewater Package Plant Replacement	3-5 Years	Not Funded	$425,000	Clay	16	2
SX21051001	Downtown Manchester Sewer Line Rehabilitation and Replacement	6-10 Years	Not Funded	$7,500,000	Clay		
SX21051005	East Manchester Sewer Line Replacement	6-10 Years	Not Funded	$4,600,000	Clay		
SX21051002	Frog Level Sewer Line Replacement	6-10 Years	Not Funded	$780,000	Clay		

Harlan County

- 2010 census population of 29,278 (13,513 households) with 41% serviceable.
- Projected 2020 population of 26,099 (change of -3,179).
- Harlan County has 100.28 miles of existing sewer lines.
- 35.00 miles of line extensions proposed in the next 10 years.
- 16.00 miles of line rehabilitation proposed in the next 10 years.
- 5.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $13,717,013.
- Estimated funding needs for projects from 6 to 10 years: $10,947,469.



Harlan County has a 2010 census population count of 29,278 (13,513 households) with a projected 2020 population count of 26,099 (10,856 households). Public sewer is currently available to approximately 41 percent of the county's households based on 2010 census counts. Over the next ten years approximately 3,245 serviceable households will be added through the construction of 35.00 miles of sewer line extensions and approximately 5,597 instances of improved service through the rehabilitation of 16.00 miles of existing sewer lines and other appurtenances. 5.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Benham	3	$776,000	422	417	1.00	8.00	-
City of Cumberland	5	$6,402,957	1,448	1,679	5.00	-	3.00
City of Evarts	3	$6,965,000	875	425	18.00	-	-
City of Harlan	1	$1,368,490	-	2,300	-	2.00	-
City of Loyall	1	$1,284,500	-	391	-	2.00	-
City of Lynch	1	$1,112,488	-	385	-	4.00	-
Harlan County Fiscal Court	2	$6,755,047	500	-	11.00	-	2.00
Totals:	**16**	**$24,664,482**	**3,245**	**5,597**	**35.00**	**16.00**	**5.00**

Public Wastewater Systems in Harlan County

Note: Serviceability counts are for households within Harlan county only.

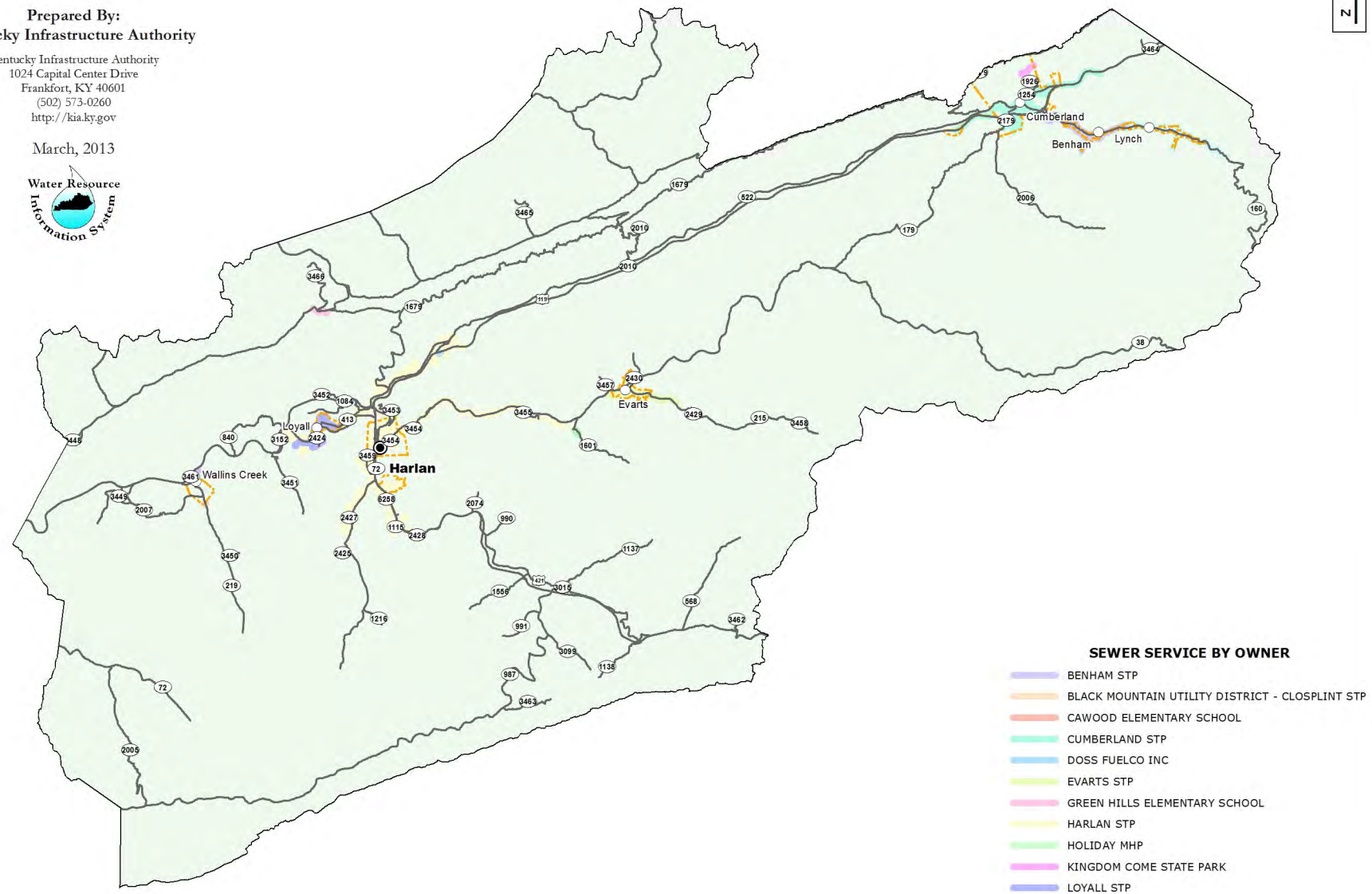
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0025755	City of Benham	Harlan	778	406
KY0021571	City of Cumberland	Harlan	2,198	1,047
KY0073091	City of Evarts	Harlan	1,307	483
KY0077615	City of Evarts Turner Trailer Park	Harlan	81	43
KY0026093	City of Harlan	Harlan	5,794	2,683
KY0026115	City of Loyall	Harlan	748	374
KY0024279	City of Lynch	Harlan	839	499
		Totals:	11,745	5,535

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HARLAN COUNTY
Kentucky

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Kentucky Infrastructure Authority

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March, 2013



System Summary for Black Mountain Utility District - Closplint

Permit ID	KY0105155	Treats Wastewater	Yes, 0.005 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$9.00	Total KISOP Treated (MG)	-
Residential Customers	26	Total Treated (MG)	0.012
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 0.02 miles (Collection: 0.00 miles, Interceptors: 0.02 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Black Mountain Utility District - Closplint

System Summary for City of Benham

Permit ID	KY0025755	Treats Wastewater	Yes, 0.25 MGD with 0.27 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	408
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$35.96	Total KISOP Treated (MG)	-
Residential Customers	398	Total Treated (MG)	18.980
Commercial Customers	9	Number of Manholes	166
Institutional Customers	1	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	99%
KISOP Customers	-	Has Facility Plan	Yes, 98% Constructed
Total Collection System Line Length = 7.81 miles (Collection: 7.77 miles, Interceptors: 0.03 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Benham

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21095003	Tri Cities Sewer Interconnect Phase 1	0-2 Years	Not Funded	$3,085,000	Harlan	2	1
SX21095510	City of Benham: Popular Street Sewer Replacement	3-5 Years	Not Funded	$87,000	Harlan	22	4
SX21095509	City of Benham Rehabilitation	3-5 Years	Not Funded	$450,000	Harlan		
SX21095508	City of Benham - Gilliam Hill Sewer Extension Project	6-10 Years	Not Funded	$239,000	Harlan		

System Summary for City of Cumberland

Permit ID	KY0021571	Treats Wastewater	Yes, 0.5 MGD with 0.52 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	860
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.45	Total KISOP Treated (MG)	-
Residential Customers	753	Total Treated (MG)	273.750
Commercial Customers	107	Number of Manholes	260
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	99%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 14.99 miles (Collection: 14.95 miles, Interceptors: 0.03 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Cumberland

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21095003	Tri Cities Sewer Interconnect Phase 1	0-2 Years	Not Funded	$3,085,000	Harlan	2	1
SX21095072	City of Cumberland New Service Extensions	3-5 Years	Not Funded	$1,562,957	Harlan		
SX21095074	City of Cumberland - Parker Street, Stacy Hill and Cloverlick SE	6-10 Years	Not Funded	$620,000	Harlan		
SX21095073	Cumberland - Blair Sewer Project(Previously SX21095071)	3-5 Years	Not Funded	$580,000	Harlan		
SX21095009	City of Cumberland Waste Water Treatment Plant Rehabilitation	0-2 Years	Not Funded	$555,000	Harlan		

System Summary for City of Evarts

Permit ID	KY0073091	Treats Wastewater	Yes, 0.12 MGD with 0.85 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	484
Owner Type	Incorporated City	KISOP Sender	No
Employees	9	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$25.50	Total KISOP Treated (MG)	-
Residential Customers	448	Total Treated (MG)	32.000
Commercial Customers	36	Number of Manholes	500
Institutional Customers	-	Number of Lift Stations	8
Industrial Customers	-	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed
Total Collection System Line Length = 7.72 miles (Collection: 7.68 miles, Interceptors: 0.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Evarts

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21095055	Evarts Pride Wastewater Sewer Extension	3-5 Years	Not Funded	$600,000	Harlan	19	5
SX21095053	City of Evarts Wastewater Collection and Treatment Plant Expansion	6-10 Years	Not Funded	$5,000,000	Harlan		
SX21095054	Evarts - Pride Wastewater Construction Program	6-10 Years	Not Funded	$1,365,000	Harlan		

System Summary for City of Evarts Turner Trailer Park

Permit ID	KY0077615	Treats Wastewater	Yes, 0.0099 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	9	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$30.75	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.33 miles (Collection: 0.31 miles, Interceptors: 0.02 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for City of Evarts Turner Trailer Park

System Summary for City of Harlan

Permit ID	KY0026093	Treats Wastewater	Yes, 1.2 MGD with 0.47 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,729
Owner Type	Incorporated City	KISOP Sender	No
Employees	10	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.02	Total KISOP Treated (MG)	-
Residential Customers	1,345	Total Treated (MG)	358.981
Commercial Customers	378	Number of Manholes	410
Institutional Customers	4	Number of Lift Stations	10
Industrial Customers	2	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 35% Constructed
Total Collection System Line Length = 52.36 miles (Collection: 52.36 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Harlan

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21095050	Harlan: Sanitary Sewer - Combined Sewer Rehabilitation	0-2 Years	Partially Funded	$1,368,490	Harlan	7	3
SX21095008	U.S. 119 Fourmile - Wallins Sanitary Sewer Extension	0-2 Years	Partially Funded	$3,031,578	Harlan		6
SX21095006	Sukey Ridge - Airport Road	6-10 Years	Not Funded	$3,723,469	Harlan		

System Summary for City of Loyall

Permit ID	KY0026115	Treats Wastewater	Yes, 0.185 MGD with 0.05 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	391
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.65	Total KISOP Treated (MG)	-
Residential Customers	391	Total Treated (MG)	21.133
Commercial Customers	-	Number of Manholes	101
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	65%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 6.68 miles (Collection: 6.66 miles, Interceptors: 0.02 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Loyall

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21095004	City of Loyall - wastewater Line Replacement Project Phase 3	3-5 Years	Not Funded	$1,284,500	Harlan	5	2

System Summary for City of Lynch

Permit ID	KY0024279	Treats Wastewater	Yes, 0.2 MGD with 0.35 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	377
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$32.48	Total KISOP Treated (MG)	-
Residential Customers	317	Total Treated (MG)	87.756
Commercial Customers	5	Number of Manholes	213
Institutional Customers	1	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 9.04 miles (Collection: 9.04 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Lynch

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21095003	Tri Cities Sewer Interconnect Phase 1	0-2 Years	Not Funded	$3,085,000	Harlan	2	1
SX21095061	Lynch: Wastewater Rehabilitation	0-2 Years	Partially Funded	$1,112,488	Harlan		7

System Summary for Closplint Area WWTP

Permit ID	KY0107409	Treats Wastewater	Yes, 0.024 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type		KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	6	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Closplint Area WWTP

Jackson County

- 2010 census population of 13,494 (6,523 households) with 7% serviceable.
- Projected 2020 population of 13,771 (change of 277).
- Jackson County has 10.49 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,040,000.
- There are no projects planned from 6 to 10 years.



Jackson County has a 2010 census population count of 13,494 (6,523 households) with a projected 2020 population count of 13,771 (5,961 households). Public sewer is currently available to approximately 7 percent of the county's households based on 2010 census counts. Over the next ten years approximately 250 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of McKee	1	$1,040,000	-	250	-	2.00	-
Totals:	**1**	**$1,040,000**	**-**	**250**	**-**	**2.00**	**-**

Public Wastewater Systems in Jackson County

Note: Serviceability counts are for households within Jackson county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0034444	City of McKee	Jackson	879	483
		Totals:	879	483

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- JACKSON MANOR
- MCKEE STP
- SAND GAP ELEM SCHOOL
- TYNER ELEM SCHOOL

System Summary for City of McKee

Permit ID	KY0034444	Treats Wastewater	Yes, 0.17 MGD with 0.36 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	239
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$34.07	Total KISOP Treated (MG)	-
Residential Customers	139	Total Treated (MG)	37.000
Commercial Customers	69	Number of Manholes	110
Institutional Customers	31	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 95% Constructed
Total Collection System Line Length = 10.11 miles (Collection: 9.79 miles, Interceptors: 0.32 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of McKee

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21109001	Phase 1 - Wastewater System Rehabilitation	3-5 Years	Not Funded	$1,040,000	Jackson		

Knox County

- 2010 census population of 31,883 (14,485 households) with 32% serviceable.
- Projected 2020 population of 32,132 (change of 249).
- Knox County has 78.86 miles of existing sewer lines.
- 9.00 miles of line extensions proposed in the next 10 years.
- 12.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,856,109.
- Estimated funding needs for projects from 6 to 10 years: $6,481,337.



Knox County has a 2010 census population count of 31,883 (14,485 households) with a projected 2020 population count of 32,132 (13,362 households). Public sewer is currently available to approximately 32 percent of the county's households based on 2010 census counts. Over the next ten years approximately 238 serviceable households will be added through the construction of 9.00 miles of sewer line extensions and approximately 2,200 instances of improved service through the rehabilitation of 12.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Barbourville Utility Commission	2	$2,856,109	20	2,200	3.00	12.00	-
Corbin Utilities Commission	1	$163,337	38	-	-	-	-
Knox County Fiscal Court	2	$5,068,000	110	-	2.00	-	-
Knox County Utility Commission	1	$1,250,000	70	-	4.00	-	-
Totals:	**6**	**$9,337,446**	**238**	**2,200**	**9.00**	**12.00**	**-**

Public Wastewater Systems in Knox County

Note: Serviceability counts are for households within Knox county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0024082	Barbourville Utility Commission	Knox	5,604	2,546
KYP000074	Knox County Utility Commission	Knox	113	60
KY0020133	Corbin Utilities Commission	Laurel	4,168	2,026
		Totals:	9,885	4,632

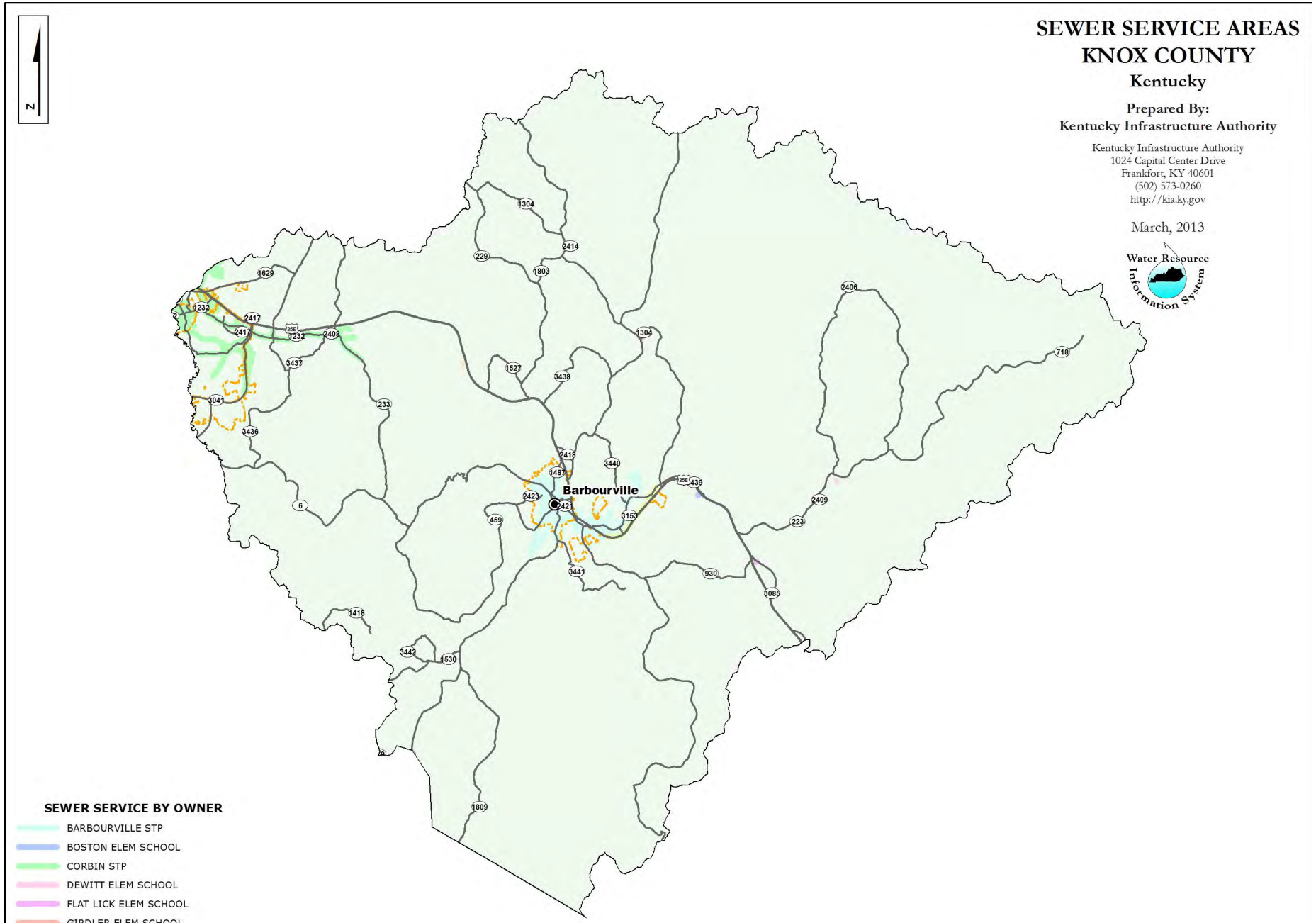
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Water Resource Information System



System Summary for Barbourville Utility Commission

Permit ID	KY0024082	Treats Wastewater	Yes, 1 MGD with 0.67 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,312
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	12	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$27.51	Total KISOP Treated (MG)	0.960
Residential Customers	1,916	Total Treated (MG)	351.495
Commercial Customers	396	Number of Manholes	643
Institutional Customers	-	Number of Lift Stations	23
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	1	Has Facility Plan	Yes, 30% Constructed
Total Collection System Line Length = 42.87 miles (Collection: 42.53 miles, Interceptors: 0.34 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Barbourville Utility Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21121138	City of Barbourville - Heidrick Sanitary	0-2 Years	Partially Funded	$1,000,000	Knox	12	1
SX21121133	Barbourville: Sewer Rehab	3-5 Years	Not Funded	$1,856,109	Knox		

System Summary for Knox County Utility Commission

Permit ID	KYP000074	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	1
Owner Type	Water District (KRS 74)	KISOP Sender	Yes, to 1 receiver.
Employees	2	Total KISOP Sent (MG)	0.960
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	11	Total Treated (MG)	531.984
Commercial Customers	1	Number of Manholes	15
Institutional Customers	1	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 2.75 miles (Collection: 0.91 miles, Interceptors: 1.84 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Knox County Utility Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21121504	Artemus Sewer Ext.	6-10 Years	Not Funded	$3,753,000	Knox		
SX21121501	Knox County (Bimble) Sewer Extension	6-10 Years	Not Funded	$1,250,000	Knox		

Laurel County

- 2010 census population of 58,849 (25,446 households) with 37% serviceable.
- Projected 2020 population of 64,713 (change of 5,864).
- Laurel County has 222.16 miles of existing sewer lines.
- 475.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 37.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $63,517,365.
- Estimated funding needs for projects from 6 to 10 years: $34,251,535.



Laurel County has a 2010 census population count of 58,849 (25,446 households) with a projected 2020 population count of 64,713 (26,415 households). Public sewer is currently available to approximately 37 percent of the county's households based on 2010 census counts. Over the next ten years approximately 12,195 serviceable households will be added through the construction of 475.00 miles of sewer line extensions and approximately 7,872 instances of improved service through system wide upgrades. 37.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Corbin Utilities Commission	3	$9,663,610	24	4,372	1.00	-	-
East Laurel Water District	20	$34,193,889	4,908	3,500	255.00	-	-
Knox County Fiscal Court	1	$1,315,000	30	-	-	-	-
London Utility Commission	9	$7,408,399	661	-	19.00	-	2.00
West Laurel Water Association Inc	13	$29,438,002	4,559	-	193.00	-	-
Wood Creek Water District	3	$15,750,000	2,013	-	7.00	-	35.00
Totals:	**49**	**$97,768,900**	**12,195**	**7,872**	**475.00**	**-**	**37.00**

Public Wastewater Systems in Laurel County

Note: Serviceability counts are for households within Laurel county only.

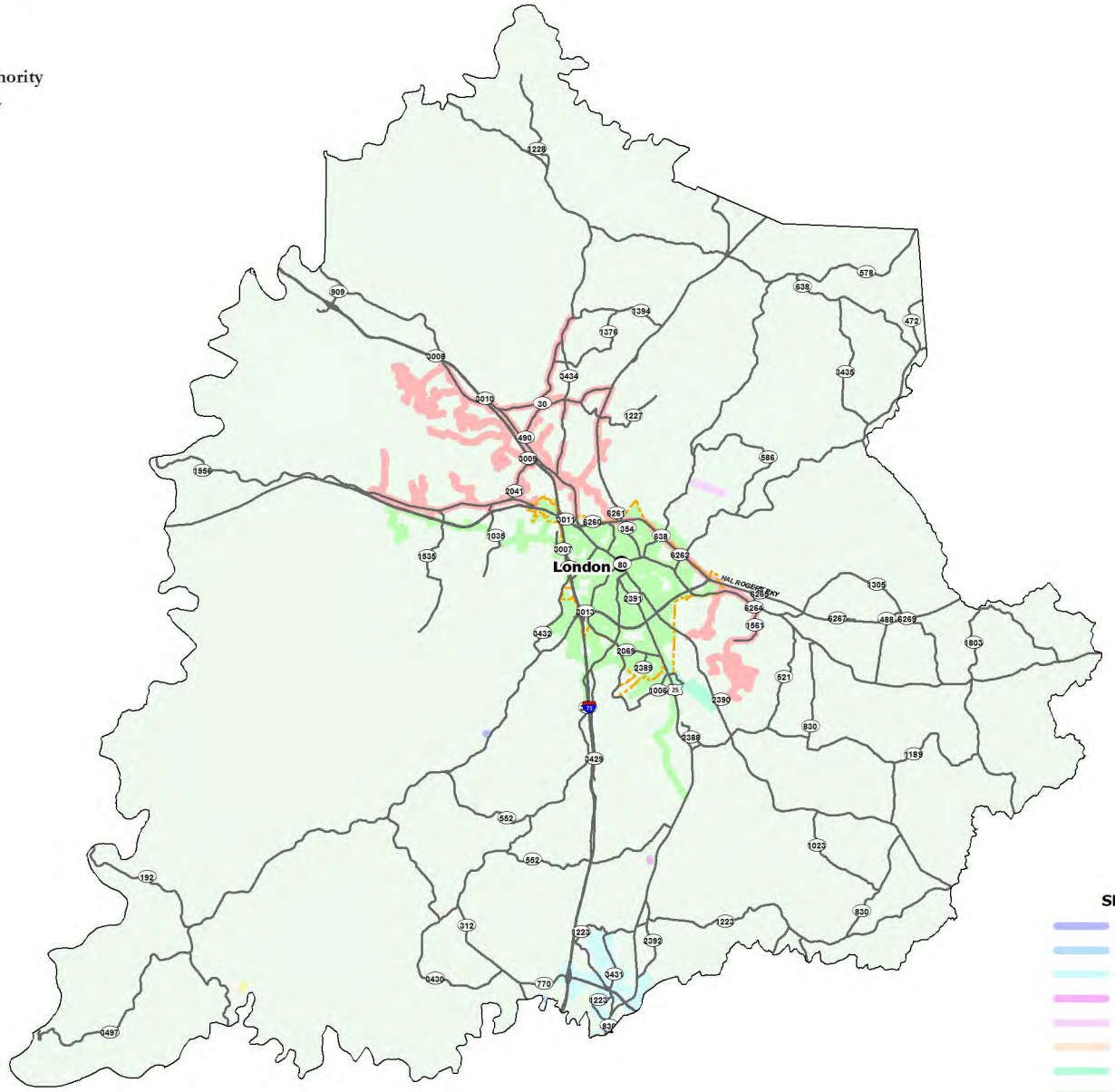
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020133	Corbin Utilities Commission	Laurel	3,007	1,351
KY0021270	London Utility Commission	Laurel	12,410	5,604
KYP000063	Wood Creek Water District	Laurel	4,908	2,227
		Totals:	20,325	9,182

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System Summary for Corbin Utilities Commission

Permit ID	KY0020133	Treats Wastewater	Yes, 4.5 MGD with 2.5 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	4,403
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	17	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$14.14	Total KISOP Treated (MG)	-
Residential Customers	3,527	Total Treated (MG)	949.000
Commercial Customers	865	Number of Manholes	2300
Institutional Customers	4	Number of Lift Stations	28
Industrial Customers	7	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 5% Constructed

Total Collection System Line Length = 108.67 miles (Collection: 108.62 miles, Interceptors: 0.06 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Corbin Utilities Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21125115	Sanitary Sewer Collection System to Serve Sandy Hills Subdivision	3-5 Years	Not Funded	$231,475	Laurel		6
SX21253111	Corbin - Sanitary Sewer Extension Along Boone Avenue and Greenda	3-5 Years	Not Funded	$248,020	Laurel		8
SX21235117	Corbin Wastewater Treatment Plant Upgrade Improvements	3-5 Years	Partially Funded	$9,184,115	Laurel		
SX21235006	Tattersall Subdivision Sanitary Sewer Extension	3-5 Years	Not Funded	$4,732,000	Whitley		
SX21121506	North Corbin Sewer Ext.	6-10 Years	Not Funded	$1,315,000	Knox		
SX21125113	Corbin - Sanitary Sewer Collection System to Serve Dantley Drive	6-10 Years	Not Funded	$1,117,725	Whitley		
SX21125114	Corbin: Sanitary Sewer Service Along London Avenue, Haskew Avenu	6-10 Years	Not Funded	$163,337	Knox		

System Summary for London Utility Commission

Permit ID	KY0021270	Treats Wastewater	Yes, 5 MGD with 2.2 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	4,445
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	30	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.93	Total KISOP Treated (MG)	96.468
Residential Customers	4,399	Total Treated (MG)	553.898
Commercial Customers	-	Number of Manholes	2091
Institutional Customers	36	Number of Lift Stations	20
Industrial Customers	9	Percent Lines 20 yrs or Older	50%
KISOP Customers	1	Has Facility Plan	Yes, 35% Constructed

Total Collection System Line Length = 127.34 miles (Collection: 126.73 miles, Interceptors: 0.61 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for London Utility Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21125516	London Utility Commission - Sunshine Hills Area Phase I	3-5 Years	Not Funded	$605,800	Laurel	23	2
SX21125519	London - Phase I to Serve The Area Between Parker Road (KY 3432) and I-75	6-10 Years	Not Funded	$918,450	Laurel	25	4
SX21125520	London - Phase II to Serve The Area Between Parker Road and KY 192	6-10 Years	Not Funded	$2,258,520	Laurel		
SX21125215	Laurel County Sanitation District - KY Hwy 363 and Elementary Sc	3-5 Years	Not Funded	$958,737	Laurel		
SX21125518	London - Sunshine Hills Sanitary Sewer Extension Phase III	6-10 Years	Not Funded	$709,800	Laurel		
SX21125002	South US 25 Force Main Sewer	0-2 Years	Not Funded	$588,132	Laurel		
SX21125517	London - Sunshine Hills Sanitary Sewer Extension Phase II	6-10 Years	Not Funded	$572,000	Laurel		
SX21125566	London - Phase III to Serve Areas Along KY 363 and KY 1006	6-10 Years	Not Funded	$492,960	Laurel		
SX21125321	Cross Keys Sewers - Phase II	3-5 Years	Not Funded	$304,000	Laurel		

System Summary for Wood Creek Water District

Permit ID	KYP000063	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	1,153
Owner Type	Water District (KRS 74)	KISOP Sender	Yes, to 1 receiver.
Employees	37	Total KISOP Sent (MG)	96.468
Cost Per 4000 Gallons	$35.14	Total KISOP Treated (MG)	-
Residential Customers	971	Total Treated (MG)	92.079
Commercial Customers	182	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	10
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 20% Constructed
Total Collection System Line Length = 71.19 miles (Collection: 67.49 miles, Interceptors: 3.70 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Wood Creek Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21125151	Wood Creek Wastewater Treatment Facilities	3-5 Years	Not Funded	$4,000,000	Laurel	15	1
SX21125318	East Laurel Water District - Wastewater Line Extensions #18	3-5 Years	Not Funded	$1,199,266	Laurel	17	3
SX21125322	WCWD - Unserved Customers In Lake Watershed	3-5 Years	Not Funded	$10,150,000	Laurel	21	5
SX21125200	WLWA - Wastewater Line Extension #1 & Wastewater Treatment Plant	3-5 Years	Not Funded	$5,850,024	Laurel		
SX21125203	WLWA - Wastewater Line Extension #4	6-10 Years	Not Funded	$2,773,314	Laurel		
SX21125212	WLWA - Wastewater Line Extension #13	6-10 Years	Not Funded	$2,552,923	Laurel		
SX21125205	WLWA - Wastewater Line Extension #6	6-10 Years	Not Funded	$2,437,991	Laurel		
SX21125201	WLWA - Wastewater Line Extension #2	3-5 Years	Not Funded	$2,227,454	Laurel		
SX21125300	East Laurel Water District - Wastewater Treatment Plant	6-10 Years	Not Funded	$2,100,080	Laurel		
SX21125315	East Laurel Water District - Wastewater Line Extensions #15	6-10 Years	Not Funded	$2,059,002	Laurel		
SX21125302	East Laurel Water District - Wastewater Line Extension #2	3-5 Years	Not Funded	$1,979,872	Laurel		
SX21125311	East Laurel Water District - Wastewater Line Extensions #11	3-5 Years	Not Funded	$1,974,118	Laurel		
SX21125301	East Laurel Water District - Wastewater Line Extension #1	3-5 Years	Partially Funded	$1,959,446	Laurel		
SX21125206	WLWA - Wastewater Line Extension #7	6-10 Years	Not Funded	$1,951,567	Laurel		
SX21125309	East Laurel Water District - Wastewater Line Extension #9	3-5 Years	Not Funded	$1,939,067	Laurel		
SX21125307	East Laurel Water District - Wastewater Line Extensions #7	3-5 Years	Not Funded	$1,912,863	Laurel		
SX21125312	East Laurel Water District - Wastewater Line Extensions #12	3-5 Years	Not Funded	$1,903,037	Laurel		
SX21125208	WLWA - Wastewater Line Extension #9	6-10 Years	Not Funded	$1,876,722	Laurel		

Rockcastle County

- 2010 census population of 17,056 (7,703 households) with 27% serviceable.
- Projected 2020 population of 17,593 (change of 537).
- Rockcastle County has 48.36 miles of existing sewer lines.
- 21.00 miles of line extensions proposed in the next 10 years.
- 10.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $16,558,000.
- Estimated funding needs for projects from 6 to 10 years: $8,593,000.



Rockcastle County has a 2010 census population count of 17,056 (7,703 households) with a projected 2020 population count of 17,593 (7,308 households). Public sewer is currently available to approximately 27 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,425 serviceable households will be added through the construction of 21.00 miles of sewer line extensions and approximately 2,498 instances of improved service through the rehabilitation of 10.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Brodhead	2	$4,795,000	-	1,033	-	7.00	-
City of Livingston	7	$4,623,000	295	427	3.00	1.00	-
City of Mount Vernon	6	$15,733,000	1,130	1,038	18.00	2.00	-
Totals:	**15**	**$25,151,000**	**1,425**	**2,498**	**21.00**	**10.00**	**-**

Public Wastewater Systems in Rockcastle County

Note: Serviceability counts are for households within Rockcastle county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0047431	City of Brodhead	Rockcastle	1,187	535
KY0040703	City of Livingston	Rockcastle	198	105
KY0024694	City of Mount Vernon	Rockcastle	3,009	1,421
		Totals:	4,394	2,061

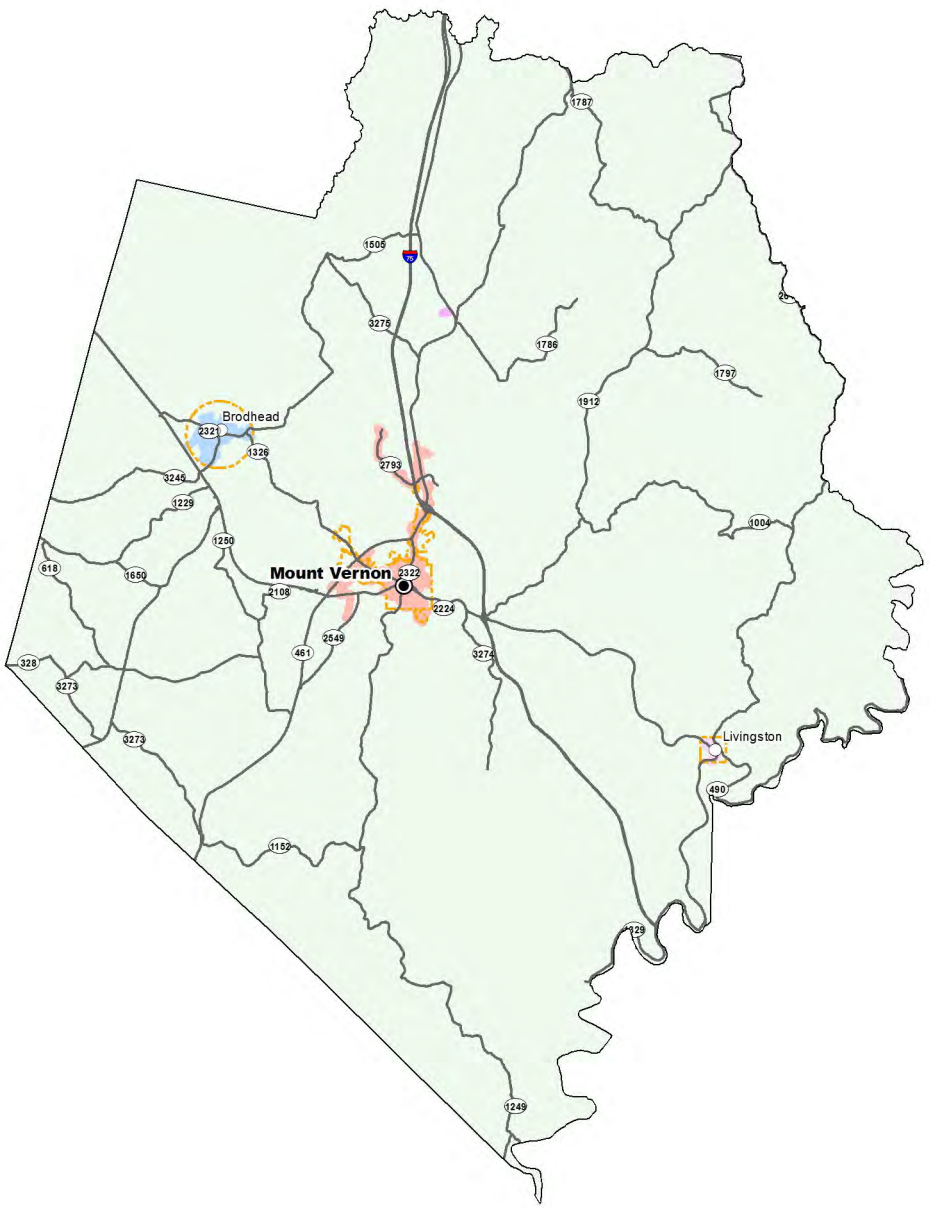
SEWER SERVICE AREAS
ROCKCASTLE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013

Water Resource Information System



System Summary for City of Brodhead

Permit ID	KY0047431	Treats Wastewater	Yes, 0.15 MGD with 0.19 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	440
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$32.89	Total KISOP Treated (MG)	-
Residential Customers	425	Total Treated (MG)	0.199
Commercial Customers	14	Number of Manholes	125
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	1	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 8.87 miles (Collection: 8.24 miles, Interceptors: 0.64 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Brodhead

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21203316	City of Brodhead - Sewer Rehabilitation	0-2 Years	Not Funded	$1,275,000	Rockcastle	3	2
SX21203317	City of Brodhead - WWTP Upgrade and Improvement	6-10 Years	Not Funded	$3,520,000	Rockcastle		

System Summary for City of Livingston

Permit ID	KY0040703	Treats Wastewater	Yes, 0.04 MGD with 0.032 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	82
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$27.60	Total KISOP Treated (MG)	-
Residential Customers	84	Total Treated (MG)	10.382
Commercial Customers	-	Number of Manholes	38
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 20% Constructed
Total Collection System Line Length = 1.86 miles (Collection: 1.82 miles, Interceptors: 0.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Livingston

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21203153	Wastewater System Improvements Project	3-5 Years	Not Funded	$1,419,000	Rockcastle	8	1
SX21203156	City of Livingston - New 60,000 GPD WWTP	6-10 Years	Not Funded	$718,000	Rockcastle		
SX21203158	City of Livingston - New Sewers - KY490 & Gauley to Piney Creek Roads	6-10 Years	Not Funded	$718,000	Rockcastle		
SX21203160	City of Livingston - N.W. Sewer Line Rehab (Flows to P.S.)	3-5 Years	Not Funded	$616,000	Rockcastle		
SX21203159	City of Livingston - S.E Sewer Line Rehab (Flows to WWTP)	3-5 Years	Not Funded	$567,000	Rockcastle		
SX21203157	City of Livingston - New Sewers-White Star Area	6-10 Years	Not Funded	$429,000	Rockcastle		
SX21203161	City of Livingston - Replace Main Sewer Pump Station	3-5 Years	Not Funded	$156,000	Rockcastle		

System Summary for City of Mount Vernon

Permit ID	KY0024694	Treats Wastewater	Yes, 0.37 MGD with 0.23 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,077
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$19.02	Total KISOP Treated (MG)	-
Residential Customers	896	Total Treated (MG)	54.597
Commercial Customers	181	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	16
Industrial Customers	-	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 37.47 miles (Collection: 34.61 miles, Interceptors: 2.86 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Mount Vernon

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21203190	City of Mt. Vernon Wastewater Replacement Along Main Street	3-5 Years	Not Funded	$1,640,000	Rockcastle	11	3
SX21203192	Mount Vernon Wastewater Gravity Force Main and Lift Station Hwy 25 South From Mt. Vernon to Burr Area	3-5 Years	Not Funded	$5,385,000	Rockcastle	20	5
SX21203191	City of Mount Vernon -WWTP and Pump Station off Richmond Street	3-5 Years	Not Funded	$5,500,000	Rockcastle	24	4
SX21203197	City of Mt. Vernon: Rainbow Ridge Area Sanitary Collection and Transfer	6-10 Years	Not Funded	$2,091,000	Rockcastle		
SX21203196	City of Mt. Vernon: Little Rock Hill Road Area Sanitary Collection and Transfer	6-10 Years	Not Funded	$1,034,000	Rockcastle		
SX21203527	City of Mount Vernon - US 25 Sewer Force Main Project	6-10 Years	Not Funded	$83,000	Rockcastle		

Whitley County

- 2010 census population of 35,637 (15,166 households) with 32% serviceable.
- Projected 2020 population of 35,256 (change of -381).
- Whitley County has 101.16 miles of existing sewer lines.
- 20.00 miles of line extensions proposed in the next 10 years.
- 13.00 miles of line rehabilitation proposed in the next 10 years.
- 2.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,511,246.
- Estimated funding needs for projects from 6 to 10 years: $15,599,805.



Whitley County has a 2010 census population count of 35,637 (15,166 households) with a projected 2020 population count of 35,256 (14,048 households). Public sewer is currently available to approximately 32 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,122 serviceable households will be added through the construction of 20.00 miles of sewer line extensions and approximately 2,478 instances of improved service through the rehabilitation of 13.00 miles of existing sewer lines and other appurtenances. 2.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Williamsburg	2	$2,779,246	3	2,400	2.00	12.00	-
Corbin Utilities Commission	2	$5,849,725	341	78	8.00	1.00	2.00
Whitley County Fiscal Court	4	$14,482,080	778	-	10.00	-	-
Totals:	**8**	**$23,111,051**	**1,122**	**2,478**	**20.00**	**13.00**	**2.00**

Public Wastewater Systems in Whitley County

Note: Serviceability counts are for households within Whitley county only.

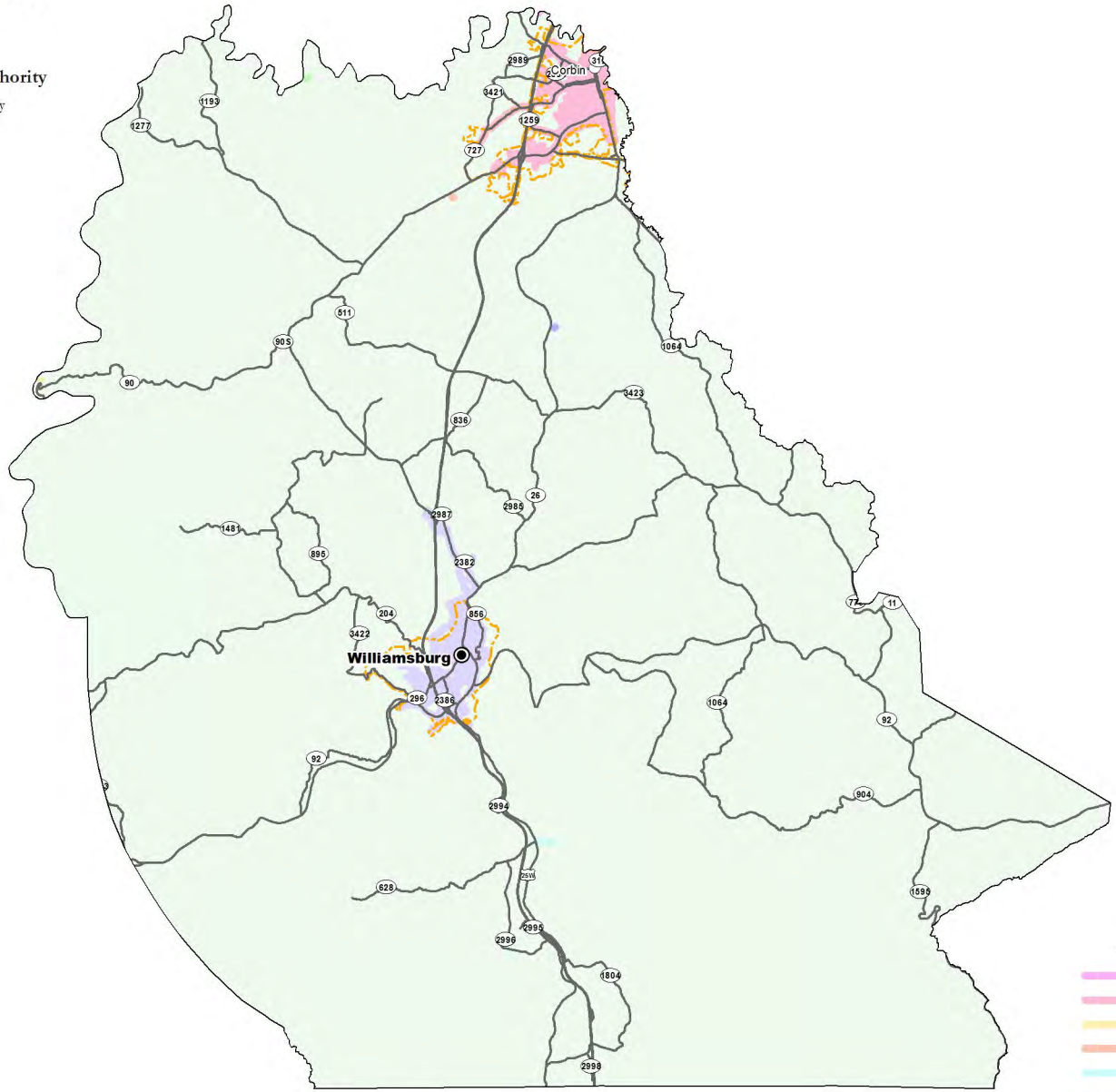
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0028347	City of Williamsburg	Whitley	5,633	2,165
KY0020133	Corbin Utilities Commission	Laurel	5,847	2,752
		Totals:	11,480	4,917

SEWER SERVICE AREAS
WHITLEY COUNTY
Kentucky

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March, 2013



System Summary for City of Williamsburg

Permit ID	KY0028347	Treats Wastewater	Yes, 2 MGD with 1.01 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,697
Owner Type	Incorporated City	KISOP Sender	No
Employees	15	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.36	Total KISOP Treated (MG)	-
Residential Customers	1,336	Total Treated (MG)	480.528
Commercial Customers	193	Number of Manholes	756
Institutional Customers	-	Number of Lift Stations	25
Industrial Customers	1	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 30% Constructed
Total Collection System Line Length = 44.11 miles (Collection: 43.97 miles, Interceptors: 0.14 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for City of Williamsburg

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21235004	Sanitary Sewer Rehabilitation and I&I Removal Project	3-5 Years	Partially Funded	$1,179,835	Whitley	4	1
SX21235005	Ball Park Pump Station/ Force Main - Phase II	0-2 Years	Not Funded	$1,599,411	Whitley	6	2
SX21235218	Whitley County: Package Treatment Plant At Pleasant View/Cane Cr	6-10 Years	Not Funded	$5,839,680	Whitley		
SX21235224	Whitley County: Wastewater Line Extension to Clio Airport	6-10 Years	Not Funded	$5,802,720	Whitley		
SX21235219	Whitley County: Package Treatment Plant and Wastewater Line to M	6-10 Years	Not Funded	$1,991,680	Whitley		
SX21235222	Whitley County: Wastewater Line Extension to Hanging Rock Commun	6-10 Years	Not Funded	$848,000	Whitley		

Five County Area Development District (FIVCO)



- 2010 census population of 137,884 (61,101 households) with 53% serviceable.
- Projected 2020 population of 139,098 (change of 1,214).
- 582.13 miles of existing sewer lines.
- 71.00 miles of line extensions proposed in the next 10 years.
- 22.00 miles of line rehabilitation proposed in the next 10 years.
- 12.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $121,105,145.
- Estimated funding needs for projects from 6 to 10 years: $191,300.
- Average age of wastewater treatment plants is 35 years.
- Total number of interconnected systems is 8.
- 58 miles of sewer lines less than 15 years old.
- 367 miles of sewer lines between 15 and 30 years old.
- 77 miles of sewer lines between 31 and 50 years old.
- 74 miles of sewer lines between 51 and 70 years old.
- 6 miles of sewer lines greater than 70 years old.

Five County Area Development District has a 2010 census population count of 137,884 (61,101 households) with a projected 2020 population count of 139,098 (56,252 households). Public sewer is currently available to approximately 53 percent of the district's households based on 2010 census counts. Over the next ten years approximately 2,714 serviceable households will be added through the construction of 71.00 miles of sewer line extensions and approximately 57,287 instances of improved service through the rehabilitation of 22.00 miles of existing sewer lines and other appurtenances. 12.00 miles of interceptor lines are also proposed within this district.

County Summary for Five County Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Boyd	49,542	21,803	49,446	20,040	17,655	81%	$ 58,566,000
Carter	27,720	12,311	28,459	11,508	2,873	23%	$ 8,284,775
Elliott	7,852	3,371	8,078	3,011	368	11%	-
Greenup	36,910	16,330	36,923	15,046	9,286	57%	$ 26,212,410
Lawrence	15,860	7,286	16,192	6,647	1,934	27%	$ 28,233,260
Totals	**137,884**	**61,101**	**139,098**	**56,252**	**32,116**	**53%**	**$ 121,296,445**

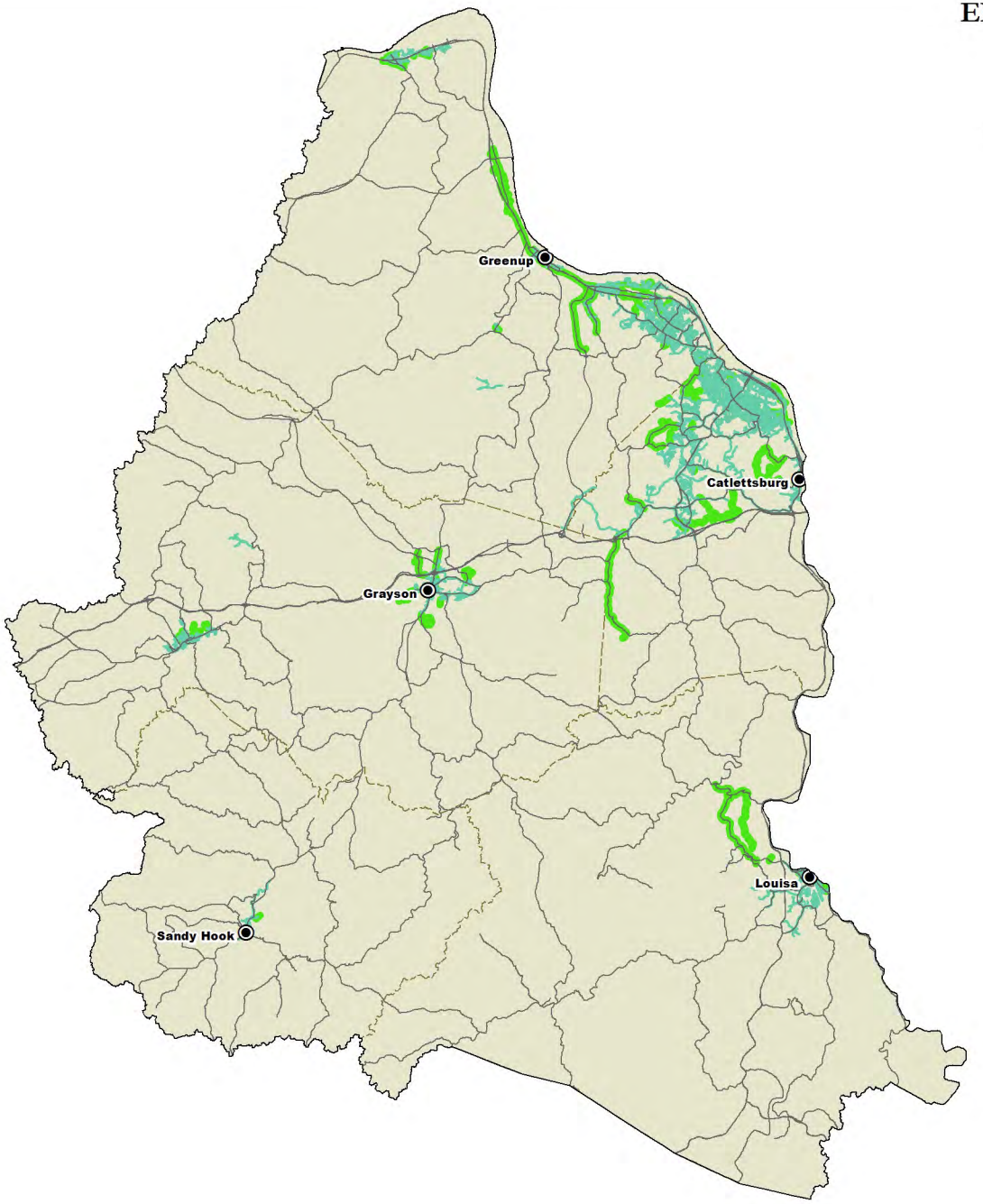
EXISTING & PROPOSED SEWER LINES

FIVCO

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March, 2013



Public Sewer Systems in the Five County Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0022373	Ashland Sewer Department	Boyd	21,646	10,527
KYP000035	Boyd County Sanitation District #2	Boyd	4,149	1,839
KYP000044	Boyd County Sanitation District #4	Boyd	10,723	4,119
KY0035467	Catlettsburg Sewer Department	Boyd	2,427	1,136
KY0020931	Grayson Sewer Department	Carter	4,637	1,957
KY0025925	Olive Hill Sewer Department	Carter	1,837	903
KY0052264	Sandy Hook Sewer Department	Elliott	688	368
KYP000040	Boyd & Greenup County Sanitation District #1	Greenup	3,347	1,399
KYP000039	Flatwoods Sewer Department	Greenup	7,719	3,442
KY0026450	Greenup Sewer Department	Greenup	1,270	542
KYP000038	Raceland Sewer Department	Greenup	2,388	1,109
KYP000037	Russell Sewer Department	Greenup	854	420
KY0026131	South Shore Sewer Department	Greenup	2,282	1,102
KY0022926	Worthington Sewer Department	Greenup	1,611	682
KY0033553	Wurtland Sewer Department	Greenup	1,456	618
KYP000061	Lawrence County Fiscal Court	Lawrence	820	353
KY0027961	Louisa Sewer Department	Lawrence	3,419	1,581
		Totals:	71,273	32,097

Five County Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Meet Regulartory Requirements**

Discussion of Area Development District Needs:

Aging infrastructure is the primary need across all five counties of the ADD: In Worthington, for example, some collection lines were installed during the 1930's and 1940's, while the City of Ashland has many large brick sewers deeply buried and still in use. With all the maintenance needs of our communities, replacement of older parts of a collection system generally occurs when a failure or collapse focuses the repair crew's attention into that area.

Money. There is a limit to the number of rate hikes the customer base can absorb to keep the system working and still allow the utility to replace/upgrade the older sections. Loans work for a time, but the rebuilt section addressed by a loan ages 30 years during the terms of the loan along with all the other sections of the system.

Extensions: Listing "extend services into unserved areas" should not be limited to municipal gravity lines. The "services" may well be mandatory inspection and repair (by the utility) of on-site systems required per County ordinance. Payment for such a program could come from modest utility bills to fund a responsible entity (such as a municipal system) to perform the function on a three year rotation to different of the county. Such an approach to wastewater treatment in the County surrounding any municipal system could only work if proper ordinances were in place and enforced. Gravity lines or low pressure systems should not be ruled out but may be prohibitively expensive. Satellite treatment that rely on gravity collection systems rather than expensive pump stations may also be an option.

Several utilities expressed a desire for the Fiscal Court of each county to invest in backup generators that could be trucked to areas of need during a crisis that disables part of a utility's system.

Description and Determination of Planning Units:

The Planning Units for the FIVCO ADD follow the county boundaries. This was necessary because of the small, unconnected nature of a collection system. Rarely does one utility’s line come within several miles of the neighboring system and the concerns of one county do not carry over into the next county.

Boyd County is effectively covered throughout the county because of a county ordinance making hook-up to collection system mandatory. Though there are uncovered areas, the collection systems are growing.

Carter County has two municipalities separated by more than 10 miles that do not approach their neighboring counties. Elliott County and Lawrence County each have a municipal system with little extension beyond the cities. Without a mandatory hookup ordinance, extension of service outside city limits is difficult if not impossible for all these counties.

Fully half of the wastewater systems in the FIVCO ADD are in Greenup County. The Greenup County Environmental Commission is a regional treatment plant serving three cities and two sanitation districts. The other communities have their own treatment plants with the remainder of the county covered by on-site systems.

Five County Area Development District
Project Ranking Methodology

The annual ranking in the FIVCO ADD area begins with a series of county-wide meetings comprised of all the water and sewer utilities in the county where the meeting is taking place. Each utility present decides which of their projects is to be ranked (typically two or three from their list) and determines the importance of those for themselves.

A point system is not used as the members of the Council feel that the importance of a project exists independent of a score based on its position in the development process. To provide some structure to the ranking, however, priority was given to projects dealing with:

- Immanent public health issues
- Critical system failures (current or threatening) that might bring down a utility lacking a backup plan
- Input from DOW such as a Notice of Violation (NOV) or an Agreed Order
- Regionalization

Projects are considered based on the aforementioned criteria and a ranking is produced following amicable discussion by all those present.

****

If a Ranking cannot be agreed upon, FIVCO ADD has a backup plan using the following point system:

Points / Problem Addressed by Project

7 Immanent public health issues or critical system failures that might bring down a utility
6 Agreed Order from DOW
5 Notice of Violation from DOW
4 Regionalization of services
3 Maintenance projects on existing infrastructure
2 Upgrades to the treatment plants, pumps, or the distribution/collection system
1 Extension of new service lines

Add five (5) points if plans have been engineered and submitted to DOW for approval.

Discussion within the group can override the points attached to each problem addressed by the project.

Project Rankings For Five County Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21043036	Olive Hill: Oxidation Ditch Upgrade and Electrical Repairs	0-2 Years	Not Funded	$65,000	Carter	1	1
SX21089095	South Shore: Upgrade Lift Stations 4, 5, and 6	0-2 Years	Not Funded	$753,000	Greenup	2	2
SX21089091	Russell: Filter Backwash Project	0-2 Years	Not Funded	$970,000	Greenup	3	1
SX21019077	SD4: Rehab Ray Drive Sewer Line	3-5 Years	Not Funded	$312,000	Boyd	4	1
SX21089093	Raceland: Update Systemwide SSES & I&I Study	0-2 Years	Not Funded	$85,000	Greenup	5	3
SX21019065	Ashland: Enlarge Sewer Treatment Plant to Eliminate Overflows	3-5 Years	Not Funded	$25,000,000	Boyd	6	3
SX21089108	Raceland: Rehab the Williams Avenue Lift Station	3-5 Years	Not Funded	$250,000	Greenup	7	4
SX21089096	South Shore: Upgrade Forest Heights Collection Lines	3-5 Years	Not Funded	$889,100	Greenup	8	5
SX21089103	Raceland: Rehab Howard Street Sewer Line to Correct I&I Problem	0-2 Years	Not Funded	$65,000	Greenup	9	7
SX21019062	Sd2: System-Wide Inflow and Infiltration Abatement Project	0-2 Years	Partially Funded	$2,173,000	Boyd	10	2
SX21043030	Grayson: Rolling Hills Subdivision Sewer Extension	0-2 Years	Not Funded	$1,200,000	Carter	11	2
SX21019063	SD2: Ferguson Street Sewer Extension	3-5 Years	Not Funded	$1,100,000	Boyd	12	4
SX21089031	Raceland: Sanitary Sewer Rehab Project	3-5 Years	Not Funded	$50,000	Greenup	13	6
SX21043017	Olive Hill: Rehab of City Lines to Replace Clay Pipe	3-5 Years	Not Funded	$831,775	Carter	14	3
SX21089080	Flatwoods: Federal Way Sewer Line Upgrade and Replacement	0-2 Years	Not Funded	$400,000	Greenup	15	8
SX21043035	Grayson: Plantation Subdivision Sewer Extension Project	0-2 Years	Not Funded	$1,900,000	Carter	16	4
SX21043015	Olive Hill: Sparks Avenue Project	3-5 Years	Not Funded	$68,000	Carter	17	5
			Total Cost:	**$36,111,875**			

Boyd County

- 2010 census population of 49,542 (21,803 households) with 81% serviceable.
- Projected 2020 population of 49,446 (change of -96).
- Boyd County has 304.11 miles of existing sewer lines.
- 29.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- 2.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $58,566,000.
- There are no projects planned from 6 to 10 years.



Boyd County has a 2010 census population count of 49,542 (21,803 households) with a projected 2020 population count of 49,446 (20,040 households). Public sewer is currently available to approximately 81 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,023 serviceable households will be added through the construction of 29.00 miles of sewer line extensions and approximately 28,076 instances of improved service through the rehabilitation of 4.00 miles of existing sewer lines and other appurtenances. 2.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Boyd County Sanitation District #2	2	$3,273,000	-	1,537	1.00	-	-
Boyd County Sanitation District #4	12	$21,026,000	1,008	25	28.00	1.00	2.00
City of Ashland	3	$29,900,000	-	24,027	-	3.00	-
City of Catlettsburg	4	$4,367,000	15	2,487	-	-	-
Totals:	**21**	**$58,566,000**	**1,023**	**28,076**	**29.00**	**4.00**	**2.00**

Public Wastewater Systems in Boyd County

Note: Serviceability counts are for households within Boyd county only.

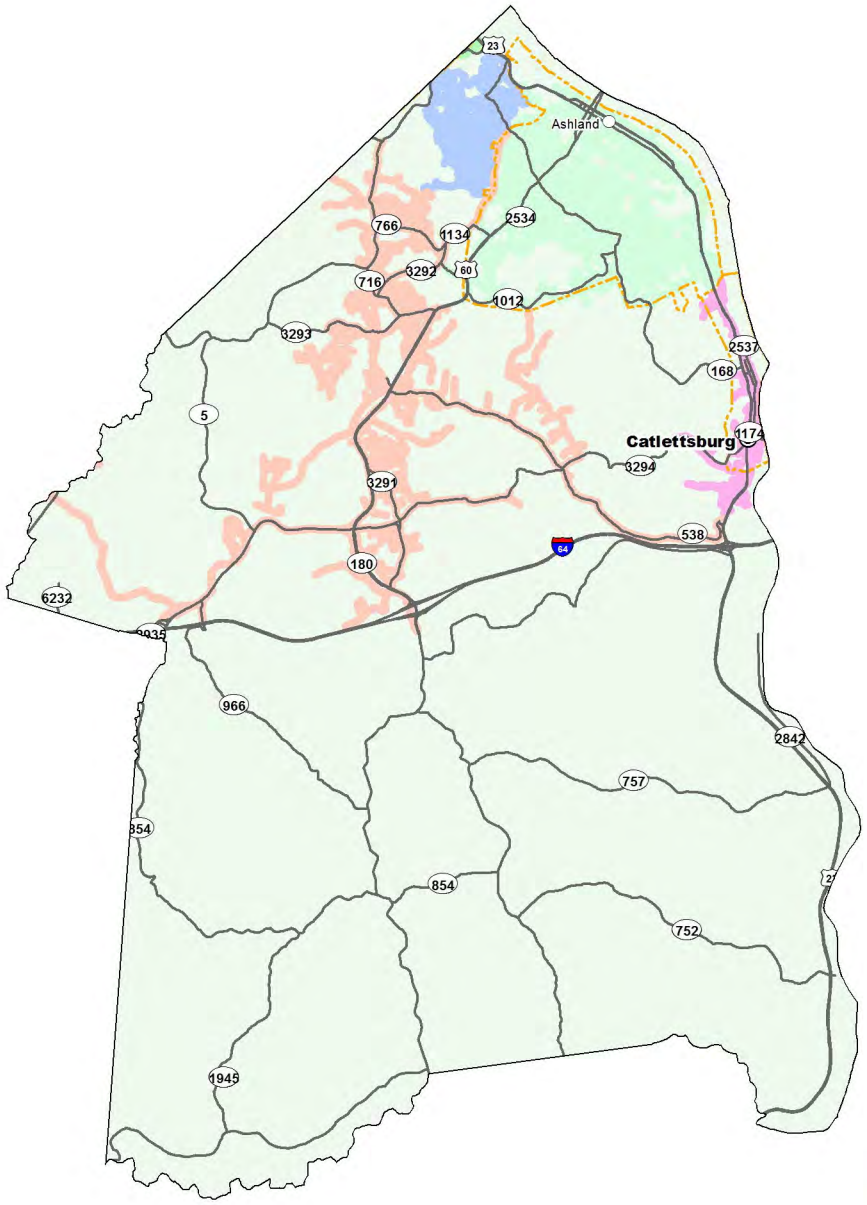
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0022373	Ashland Sewer Department	Boyd	21,646	10,527
KYP000035	Boyd County Sanitation District #2	Boyd	4,079	1,811
KYP000044	Boyd County Sanitation District #4	Boyd	10,707	4,111
KY0035467	Catlettsburg Sewer Department	Boyd	2,427	1,136
KYP000040	Boyd & Greenup County Sanitation District #1	Greenup	141	70
		Totals:	39,000	17,655

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March, 2013



System Summary for Ashland Sewer Department

Permit ID	KY0022373	Treats Wastewater	Yes, 11 MGD with 6.5 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	9,135
Owner Type	Incorporated City	KISOP Sender	No
Employees	12	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$19.94	Total KISOP Treated (MG)	102.991
Residential Customers	7,491	Total Treated (MG)	1,883.700
Commercial Customers	1,467	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	17
Industrial Customers	8	Percent Lines 20 yrs or Older	0%
KISOP Customers	2	Has Facility Plan	Yes, 70% Constructed
Total Collection System Line Length = 139.57 miles (Collection: 132.79 miles, Interceptors: 6.77 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Ashland Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21019065	Ashland: Enlarge Sewer Treatment Plant to Eliminate Overflows	3-5 Years	Not Funded	$25,000,000	Boyd	6	3
SX21019073	Ashland: 37th Street Pump Station Replacement and Force Main Up	0-2 Years	Partially Funded	$4,500,000	Boyd		
SX21019074	Ashland: Replace 39th Street Trunk Sewer	3-5 Years	Not Funded	$400,000	Boyd		

System Summary for Boyd County Sanitation District #2

Permit ID	KYP000035	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	1,522
Owner Type	Sewer and Sanitation District	KISOP Sender	Yes, to 1 receiver.
Employees	1	Total KISOP Sent (MG)	113.850
Cost Per 4000 Gallons	$30.07	Total KISOP Treated (MG)	-
Residential Customers	1,491	Total Treated (MG)	-
Commercial Customers	31	Number of Manholes	881
Institutional Customers	-	Number of Lift Stations	13
Industrial Customers	-	Percent Lines 20 yrs or Older	45%
KISOP Customers	-	Has Facility Plan	Yes, 95% Constructed
Total Collection System Line Length = 35.13 miles (Collection: 34.67 miles, Interceptors: 0.46 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Boyd County Sanitation District #2

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21019062	Sd2: System-Wide Inflow and Infiltration Abatement Project	0-2 Years	Partially Funded	$2,173,000	Boyd	10	2
SX21019063	SD2: Ferguson Street Sewer Extension	3-5 Years	Not Funded	$1,100,000	Boyd	12	4
SX21089026	GCEC: New Bar Screen for WWTP	0-2 Years	Not Funded	$305,000	Greenup		

System Summary for Boyd County Sanitation District #4

Permit ID	KYP000044	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	3,817
Owner Type	Sewer and Sanitation District	KISOP Sender	Yes, to 1 receiver.
Employees	12	Total KISOP Sent (MG)	102.991
Cost Per 4000 Gallons	$37.20	Total KISOP Treated (MG)	-
Residential Customers	3,731	Total Treated (MG)	-
Commercial Customers	70	Number of Manholes	1300
Institutional Customers	16	Number of Lift Stations	34
Industrial Customers	-	Percent Lines 20 yrs or Older	12%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 111.32 miles (Collection: 105.80 miles, Interceptors: 5.52 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Boyd County Sanitation District #4

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21019077	SD4: Rehab Ray Drive Sewer Line	3-5 Years	Not Funded	$312,000	Boyd	4	1
SX21019013	Boyd County SD4: Rt5 Area Sewers	3-5 Years	Partially Funded	$4,730,000	Boyd		
SX21019031	BCFC: Phase IV Johnson Fork, Catletts Creek, and Twin Fork	0-2 Years	Not Funded	$3,350,000	Boyd		
SX21019070	SD4: Phase 2 Rt 5 Area Sewer Extension	0-2 Years	Not Funded	$2,157,000	Boyd		
SX21019068	SD4: North Big Run Project	0-2 Years	Not Funded	$2,000,000	Boyd		
SX21019053	SD4: Systemwide Pump Station Maintenance	0-2 Years	Not Funded	$950,000	Boyd		
SX21019071	SD4: Molsberger Road Sewer Line	0-2 Years	Not Funded	$325,000	Boyd		
SX21019072	SD4: Southland Drive Area Sewer Extension	0-2 Years	Not Funded	$242,000	Boyd		

System Summary for Boyd County Sanitation District #4 FC

Permit ID	KYP000049	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	Yes, to 1 receiver.
Employees	10	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$40.00	Total KISOP Treated (MG)	-
Residential Customers	1,800	Total Treated (MG)	-
Commercial Customers	137	Number of Manholes	1500
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	2	Percent Lines 20 yrs or Older	2%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed

Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Boyd County Sanitation District #4 FC

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21019021	BCFC: Phase IV Tarpin Ridge, Alley Branch, Collings Branch	3-5 Years	Not Funded	$3,300,000	Boyd		
SX21019026	BCFC: Phase IV Sr5 From New Buckley Rd to Paradise Rd	3-5 Years	Not Funded	$3,000,000	Boyd		
SX21019022	BCFC: Phase IV SR 5 Princess Area	3-5 Years	Not Funded	$400,000	Boyd		
SX21019028	BCFC: Phase IV Rockhouse Rock Extension Into Greenup County	3-5 Years	Not Funded	$260,000	Boyd		

System Summary for Catlettsburg Sewer Department

Permit ID	KY0035467	Treats Wastewater	Yes, 0.5 MGD with 0.576 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,243
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$30.67	Total KISOP Treated (MG)	-
Residential Customers	1,218	Total Treated (MG)	210.381
Commercial Customers	25	Number of Manholes	600
Institutional Customers	-	Number of Lift Stations	12
Industrial Customers	-	Percent Lines 20 yrs or Older	65%
KISOP Customers	-	Has Facility Plan	Yes, 45% Constructed
Total Collection System Line Length = 20.65 miles (Collection: 17.84 miles, Interceptors: 2.80 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Catlettsburg Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21019075	Catlettsburg: Add new Clarifier to the WWTP & Rehab Existing Clarifiers	0-2 Years	Partially Funded	$3,335,000	Boyd		
SX21019061	Catlettsburg: Rehab Clarifiers at Wastewater Treatment Plant	0-2 Years	Not Funded	$462,000	Boyd		
SX21019064	Catlettsburg: Grit Chamber Rehab/Replacement	0-2 Years	Not Funded	$300,000	Boyd		
SX21019076	Catlettsburg: Sewer Extension on US-23 to I-64	0-2 Years	Not Funded	$270,000	Boyd		

Carter County

- 2010 census population of 27,720 (12,311 households) with 23% serviceable.
- Projected 2020 population of 28,459 (change of 739).
- Carter County has 54.29 miles of existing sewer lines.
- 11.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- 2.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,284,775.
- There are no projects planned from 6 to 10 years.



Carter County has a 2010 census population count of 27,720 (12,311 households) with a projected 2020 population count of 28,459 (11,508 households). Public sewer is currently available to approximately 23 percent of the county's households based on 2010 census counts. Over the next ten years approximately 573 serviceable households will be added through the construction of 11.00 miles of sewer line extensions and approximately 933 instances of improved service through the rehabilitation of 3.00 miles of existing sewer lines and other appurtenances. 2.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Olive Hill	5	$1,804,775	35	933	-	3.00	2.00
Grayson Utility Commission	7	$6,480,000	538	-	11.00	-	-
Totals:	**12**	**$8,284,775**	**573**	**933**	**11.00**	**3.00**	**2.00**

Public Wastewater Systems in Carter County

Note: Serviceability counts are for households within Carter county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020931	Grayson Sewer Department	Carter	4,637	1,957
KY0025925	Olive Hill Sewer Department	Carter	1,837	903
		Totals:	6,474	2,860

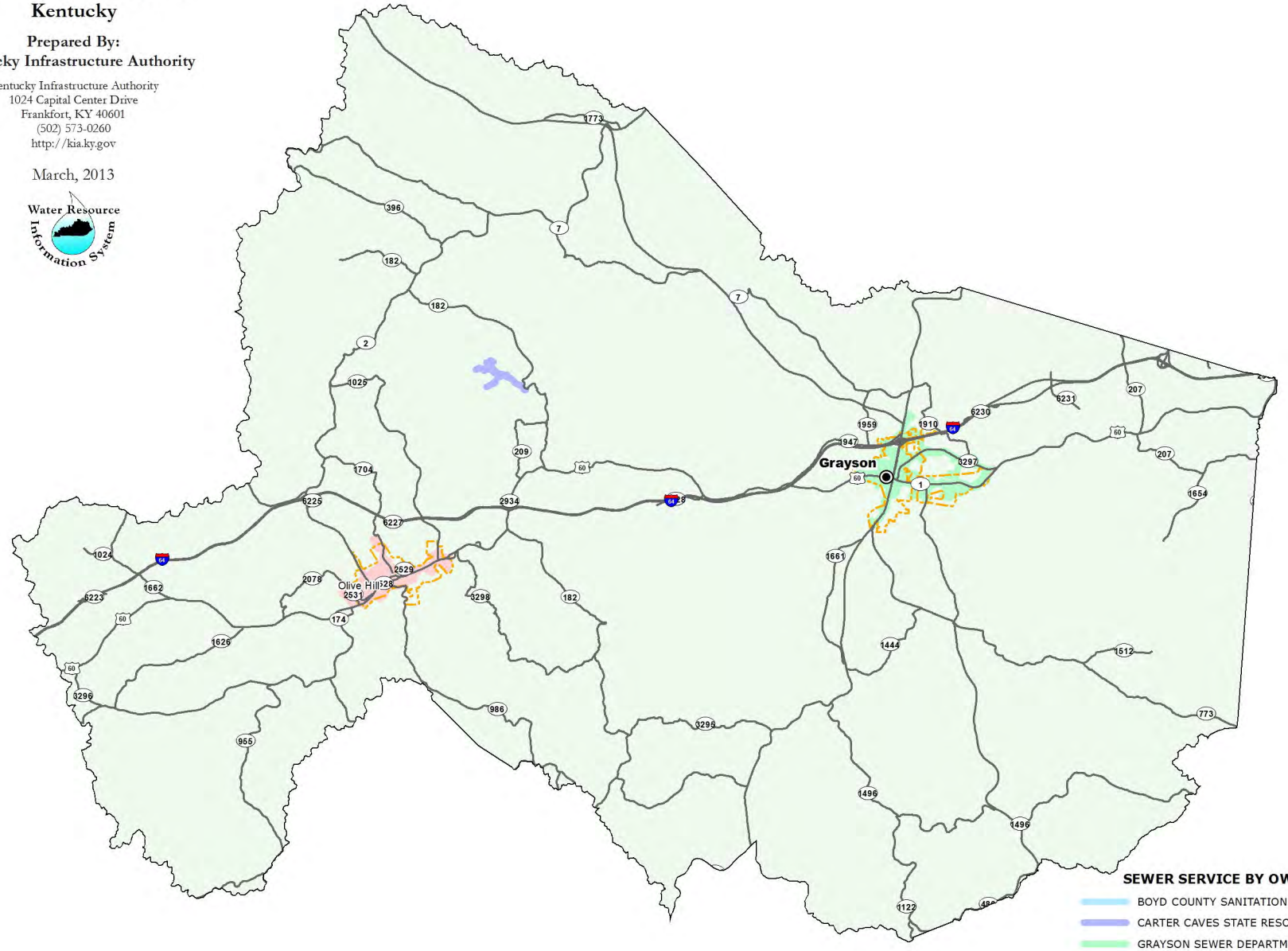
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March, 2013

Water Resource Information System



System Summary for Grayson Sewer Department

Permit ID	KY0020931	Treats Wastewater	Yes, 0.96 MGD with 0.6 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,505
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$31.95	Total KISOP Treated (MG)	-
Residential Customers	737	Total Treated (MG)	114.170
Commercial Customers	768	Number of Manholes	350
Institutional Customers	-	Number of Lift Stations	13
Industrial Customers	-	Percent Lines 20 yrs or Older	65%
KISOP Customers	-	Has Facility Plan	Yes, 60% Constructed

Total Collection System Line Length = 29.86 miles (Collection: 28.93 miles, Interceptors: 0.94 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Grayson Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21043030	Grayson: Rolling Hills Subdivision Sewer Extension	0-2 Years	Not Funded	$1,200,000	Carter	11	2
SX21043035	Grayson: Plantation Subdivision Sewer Extension Project	0-2 Years	Not Funded	$1,900,000	Carter	16	4
SX21043006	Grayson: Valleyview Subdivision	3-5 Years	Not Funded	$775,000	Carter		
SX21043007	Grayson: KY 1947 to Hidden Subdivision & Corral Park	3-5 Years	Not Funded	$775,000	Carter		
SX21043003	Grayson: Rt 7 to Landsdowne Subdivision	3-5 Years	Not Funded	$765,000	Carter		
SX21043004	Grayson: US 60 West to Sunset Hills	3-5 Years	Not Funded	$765,000	Carter		
SX21043024	Grayson: Route 1 Sewer Project	3-5 Years	Not Funded	$300,000	Carter		

System Summary for Olive Hill Sewer Department

Permit ID	KY0025925	Treats Wastewater	Yes, 3.5 MGD with 0.268 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	862
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$30.00	Total KISOP Treated (MG)	-
Residential Customers	689	Total Treated (MG)	97.820
Commercial Customers	173	Number of Manholes	300
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 21.28 miles (Collection: 20.30 miles, Interceptors: 0.98 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Olive Hill Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21043036	Olive Hill: Oxidation Ditch Upgrade and Electrical Repairs	0-2 Years	Not Funded	$65,000	Carter	1	1
SX21043017	Olive Hill: Rehab of City Lines to Replace Clay Pipe	3-5 Years	Not Funded	$831,775	Carter	14	3
SX21043015	Olive Hill: Sparks Avenue Project	3-5 Years	Not Funded	$68,000	Carter	17	5
SX21043019	Olive Hill: Smokey Valley Sewer Line Extension	3-5 Years	Not Funded	$525,000	Carter		
SX21043018	Olive Hill: Woodland Subdivision Sewer Project	3-5 Years	Not Funded	$315,000	Carter		

Elliott County

- 2010 census population of 7,852 (3,371 households) with 11% serviceable.
- Projected 2020 population of 8,078 (change of 226).
- Elliott County has 11.62 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- There are no projects planned from 0 to 5 years.
- There are no projects planned from 6 to 10 years.



Elliott County has a 2010 census population count of 7,852 (3,371 households) with a projected 2020 population count of 8,078 (3,011 households). Public sewer is currently available to approximately 11 percent of the county's households based on 2010 census counts. There are no projects proposed for this county over the next 10 years.

Public Wastewater Systems in Elliott County

Note: Serviceability counts are for households within Elliott county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0052264	Sandy Hook Sewer Department	Elliott	688	368
		Totals:	688	368

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System Summary for Sandy Hook Sewer Department

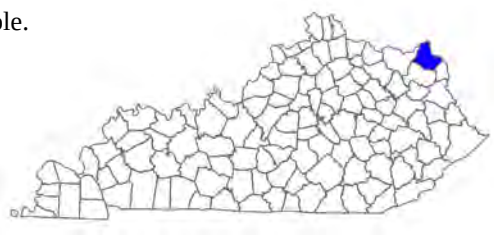
Permit ID	KY0052264	Treats Wastewater	Yes, 0.5 MGD with 0.27 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	252
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$24.00	Total KISOP Treated (MG)	-
Residential Customers	185	Total Treated (MG)	85.782
Commercial Customers	44	Number of Manholes	78
Institutional Customers	23	Number of Lift Stations	9
Industrial Customers	-	Percent Lines 20 yrs or Older	65%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 11.62 miles (Collection: 11.03 miles, Interceptors: 0.59 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Sandy Hook Sewer Department

Greenup County

- 2010 census population of 36,910 (16,330 households) with 57% serviceable.
- Projected 2020 population of 36,923 (change of 13).
- Greenup County has 170.95 miles of existing sewer lines.
- 21.00 miles of line extensions proposed in the next 10 years.
- 15.00 miles of line rehabilitation proposed in the next 10 years.
- 8.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $26,021,110.
- Estimated funding needs for projects from 6 to 10 years: $191,300.



Greenup County has a 2010 census population count of 36,910 (16,330 households) with a projected 2020 population count of 36,923 (15,046 households). Public sewer is currently available to approximately 57 percent of the county's households based on 2010 census counts. Over the next ten years approximately 692 serviceable households will be added through the construction of 21.00 miles of sewer line extensions and approximately 26,697 instances of improved service through the rehabilitation of 15.00 miles of existing sewer lines and other appurtenances. 8.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Boyd County Sanitation District #4	1	$260,000	11	-	-	-	-
City of Bellefonte	2	$315,000	-	72	-	1.00	-
City of Flatwoods	4	$1,560,000	-	260	-	1.00	-
City of Greenup	3	$5,420,000	-	1,090	-	8.00	-
City of Raceland	9	$1,078,300	116	3,221	4.00	1.00	-
City of Russell	1	$970,000	-	-	-	-	-
City of South Shore	4	$2,901,100	-	588	-	2.00	-
City of Worthington	6	$933,170	-	2,313	-	2.00	-
City of Wurtland	10	$11,692,840	564	1,983	17.00	-	6.00
Greenup County Environmental Commission	2	$555,000	-	17,170	-	-	-
Greenup County Fiscal Court	1	$527,000	1	-	-	-	2.00
Totals:	**43**	**$26,212,410**	**692**	**26,697**	**21.00**	**15.00**	**8.00**

Public Wastewater Systems in Greenup County

Note: Serviceability counts are for households within Greenup county only.

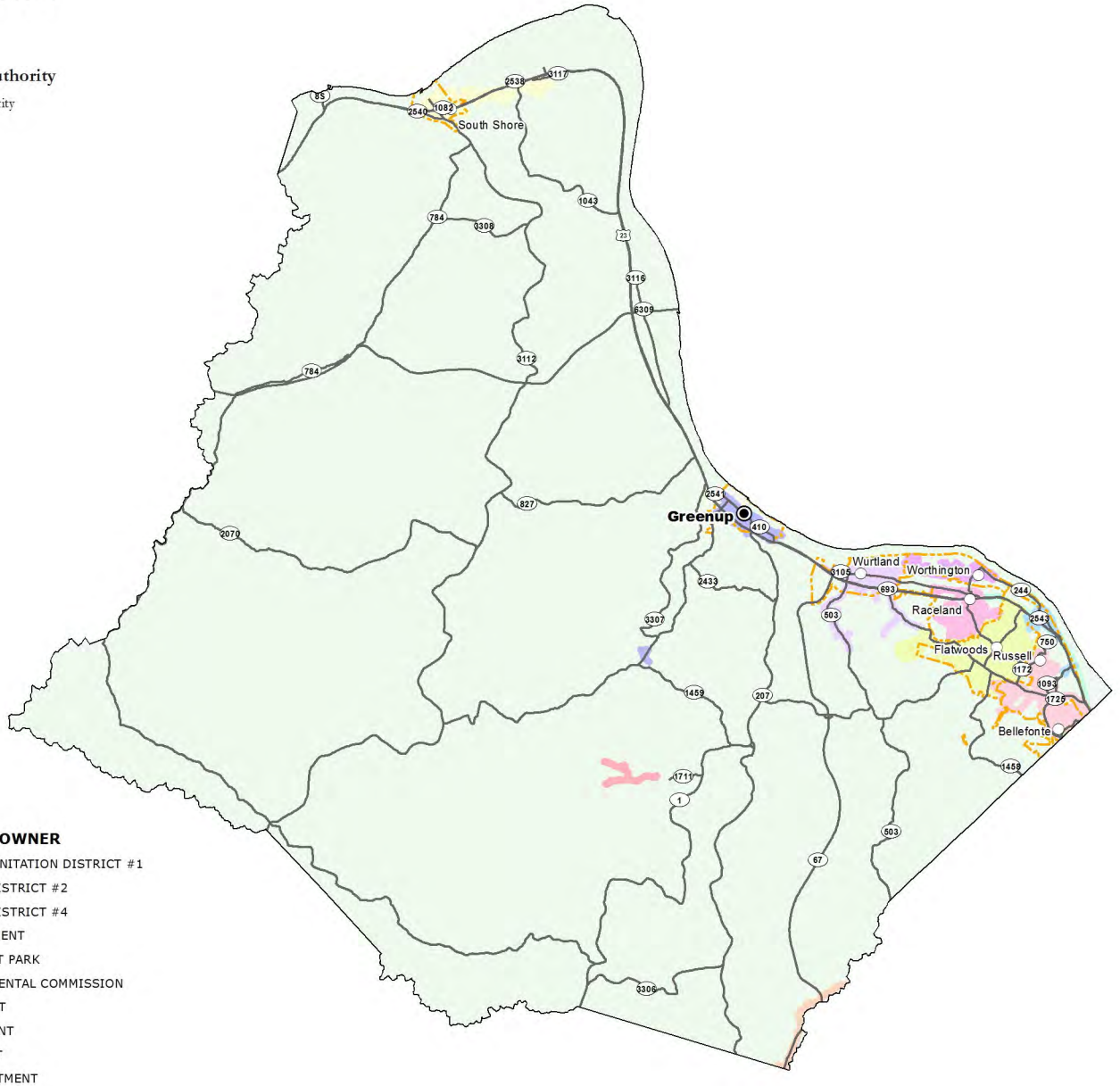
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000040	Boyd & Greenup County Sanitation District #1	Greenup	3,206	1,329
KYP000039	Flatwoods Sewer Department	Greenup	7,719	3,442
KY0026450	Greenup Sewer Department	Greenup	1,270	542
KYP000038	Raceland Sewer Department	Greenup	2,388	1,109
KYP000037	Russell Sewer Department	Greenup	854	420
KY0026131	South Shore Sewer Department	Greenup	2,282	1,102
KY0022926	Worthington Sewer Department	Greenup	1,611	682
KY0033553	Wurtland Sewer Department	Greenup	1,456	618
KYP000035	Boyd County Sanitation District #2	Boyd	70	28
		Totals:	20,856	9,272

SEWER SERVICE AREAS
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SEWER SERVICE BY OWNER

- BOYD & GREENUP COUNTY SANITATION DISTRICT #1
- BOYD COUNTY SANITATION DISTRICT #2
- BOYD COUNTY SANITATION DISTRICT #4
- FLATWOODS SEWER DEPARTMENT
- GREENBO LAKE STATE RESORT PARK
- GREENUP COUNTY ENVIRONMENTAL COMMISSION
- GREENUP SEWER DEPARTMENT
- RACELAND SEWER DEPARTMENT
- RUSSELL SEWER DEPARTMENT
- SOUTH SHORE SEWER DEPARTMENT
- WORTHINGTON SEWER DEPARTMENT
- WURTLAND SEWER DEPARTMENT

System Summary for Alpine Village Subdivision

Permit ID	KY0077194	Treats Wastewater	Yes, 0.022 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$17.00	Total KISOP Treated (MG)	-
Residential Customers	47	Total Treated (MG)	9.228
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Alpine Village Subdivision

System Summary for Boyd & Greenup County Sanitation District #1

Permit ID	KYP000040	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	2,385
Owner Type	Sewer and Sanitation District	KISOP Sender	Yes, to 1 receiver.
Employees	3	Total KISOP Sent (MG)	177.010
Cost Per 4000 Gallons	$24.00	Total KISOP Treated (MG)	-
Residential Customers	2,229	Total Treated (MG)	-
Commercial Customers	156	Number of Manholes	692
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 27.31 miles (Collection: 27.31 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Boyd & Greenup County Sanitation District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21089026	GCEC: New Bar Screen for WWTP	0-2 Years	Not Funded	$305,000	Greenup		
SX21089045	Bellefonte: Buena Vista Sewer Repair	3-5 Years	Not Funded	$115,000	Greenup		

System Summary for Flatwoods Sewer Department

Permit ID	KYP000039	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	2,807
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	9	Total KISOP Sent (MG)	380.620
Cost Per 4000 Gallons	$32.62	Total KISOP Treated (MG)	-
Residential Customers	2,639	Total Treated (MG)	-
Commercial Customers	168	Number of Manholes	1010
Institutional Customers	-	Number of Lift Stations	10
Industrial Customers	-	Percent Lines 20 yrs or Older	65%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 55.17 miles (Collection: 51.50 miles, Interceptors: 3.67 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Flatwoods Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21089080	Flatwoods: Federal Way Sewer Line Upgrade and Replacement	0-2 Years	Not Funded	$400,000	Greenup	15	8
SX21089083	Flatwoods: Jones Street Sewer Project	0-2 Years	Not Funded	$650,000	Greenup		
SX21089084	Flatwoods: Dietdrich Drive Sewer Project	0-2 Years	Not Funded	$425,000	Greenup		
SX21089026	GCEC: New Bar Screen for WWTP	0-2 Years	Not Funded	$305,000	Greenup		
SX21089056	Sewer System Evaluation Study	0-2 Years	Not Funded	$85,000	Greenup		

System Summary for Greenup County Environmental Commission

Permit ID	KY0048348	Treats Wastewater	Yes, 3.5 MGD with 1.99 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$6.00	Total KISOP Treated (MG)	784.050
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	6	Number of Manholes	21
Institutional Customers	1	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	45%
KISOP Customers	5	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 6.13 miles (Collection: 0.00 miles, Interceptors: 6.13 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Greenup County Environmental Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21089026	GCEC: New Bar Screen for WWTP	0-2 Years	Not Funded	$305,000	Greenup		
SX21089078	GCEC: Lagoon Aeration Equipment	3-5 Years	Not Funded	$250,000	Greenup		

System Summary for Greenup Sewer Department

Permit ID	KY0026450	Treats Wastewater	Yes, 1.09 MGD with 0.17 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	548
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$17.00	Total KISOP Treated (MG)	-
Residential Customers	548	Total Treated (MG)	50.530
Commercial Customers	-	Number of Manholes	70
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 9.01 miles (Collection: 8.95 miles, Interceptors: 0.06 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Greenup Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21089036	Greenup: Rehab Or Replacement of Collection System	3-5 Years	Not Funded	$5,000,000	Greenup		
SX21089042	Greenup: Alpine Village PTP and Outfall	3-5 Years	Not Funded	$350,000	Greenup		
SX21089102	Greenup: City Park Force Main	3-5 Years	Not Funded	$70,000	Greenup		

System Summary for Raceland Sewer Department

Permit ID	KYP000038	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	980
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	6	Total KISOP Sent (MG)	36.130
Cost Per 4000 Gallons	$31.49	Total KISOP Treated (MG)	-
Residential Customers	980	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	980
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 16.20 miles (Collection: 16.11 miles, Interceptors: 0.09 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Raceland Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21089093	Raceland: Update Systemwide SSES & I&I Study	0-2 Years	Not Funded	$85,000	Greenup	5	3
SX21089108	Raceland: Rehab the Williams Avenue Lift Station	3-5 Years	Not Funded	$250,000	Greenup	7	4
SX21089103	Raceland: Rehab Howard Street Sewer Line to Correct I&I Problem	0-2 Years	Not Funded	$65,000	Greenup	9	7
SX21089031	Raceland: Sanitary Sewer Rehab Project	3-5 Years	Not Funded	$50,000	Greenup	13	6
SX21089026	GCEC: New Bar Screen for WWTP	0-2 Years	Not Funded	$305,000	Greenup		
SX21089069	Raceland: Caroline Road Line Extension	3-5 Years	Not Funded	$220,000	Greenup		
SX21089019	Raceland: US 23 & Caroline Road Sewer Extension	3-5 Years	Not Funded	$215,000	Greenup		
SX21089104	Raceland: Caroline Road Sewer Extension	3-5 Years	Not Funded	$125,000	Greenup		
SX21089017	Raceland: Cherokee Road Sewer Extension	3-5 Years	Not Funded	$102,000	Greenup		
SX21089018	Raceland: Lost Canyon and Caroline Road Sewer Extension	6-10 Years	Partially Funded	$71,000	Greenup		
SX21089016	Raceland: Pond Run Interceptor Force Main	6-10 Years	Not Funded	$65,300	Greenup		
SX21089068	Raceland: Rogers Avenue Upgrade	0-2 Years	Not Funded	$20,000	Greenup		

System Summary for Russell Sewer Department

Permit ID	KYP000037	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	893
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	4	Total KISOP Sent (MG)	76.440
Cost Per 4000 Gallons	$17.55	Total KISOP Treated (MG)	-
Residential Customers	827	Total Treated (MG)	-
Commercial Customers	65	Number of Manholes	65
Institutional Customers	-	Number of Lift Stations	5
Industrial Customers	1	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 6.07 miles (Collection: 6.02 miles, Interceptors: 0.05 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Russell Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21089091	Russell: Filter Backwash Project	0-2 Years	Not Funded	$970,000	Greenup	3	1
SX21089026	GCEC: New Bar Screen for WWTP	0-2 Years	Not Funded	$305,000	Greenup		

System Summary for South Shore Sewer Department

Permit ID	KY0026131	Treats Wastewater	Yes, 0.39 MGD with 0.27 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	801
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$38.00	Total KISOP Treated (MG)	-
Residential Customers	729	Total Treated (MG)	87.509
Commercial Customers	71	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	1	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 18.12 miles (Collection: 17.71 miles, Interceptors: 0.41 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for South Shore Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21089095	South Shore: Upgrade Lift Stations 4, 5, and 6	0-2 Years	Not Funded	$753,000	Greenup	2	2
SX21089096	South Shore: Upgrade Forest Heights Collection Lines	3-5 Years	Not Funded	$889,100	Greenup	8	5
SX21089100	South Shore: Phase III Sewer Line Rehab	3-5 Years	Not Funded	$725,000	Greenup		
SX21089099	South Shore: Phase II Sewer Line Repair	3-5 Years	Not Funded	$534,000	Greenup		
SX21089086	GCFC: McKell Library Sewer	0-2 Years	Not Funded	$25,000	Greenup		

System Summary for Worthington Sewer Department

Permit ID	KY0022926	Treats Wastewater	Yes, 0.2 MGD with 0.14 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	684
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$27.37	Total KISOP Treated (MG)	-
Residential Customers	680	Total Treated (MG)	33.319
Commercial Customers	4	Number of Manholes	119
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 10.34 miles (Collection: 9.68 miles, Interceptors: 0.66 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Worthington Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21089005	Worthington: Rehab Project to Replace Clay Pipe	3-5 Years	Not Funded	$300,000	Greenup		
SX21089063	Worthington: CSO Phase 4 Project	3-5 Years	Not Funded	$270,270	Greenup		
SX21089064	Worthington: CSO Phase 5 Project	3-5 Years	Not Funded	$185,900	Greenup		
SX21089003	Worthington STP Belt Press	3-5 Years	Not Funded	$120,000	Greenup		
SX21089043	Worthington: Calumet Causeway Sewer Project	6-10 Years	Not Funded	$55,000	Greenup		
SX21089004	Worthington STP Sulfur Dioxide Drain	3-5 Years	Not Funded	$2,000	Greenup		

System Summary for Wurtland Sewer Department

Permit ID	KY0033553	Treats Wastewater	Yes, 1.1 MGD with 0.59 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	460
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$42.24	Total KISOP Treated (MG)	-
Residential Customers	437	Total Treated (MG)	83.998
Commercial Customers	16	Number of Manholes	75
Institutional Customers	-	Number of Lift Stations	9
Industrial Customers	7	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 17.44 miles (Collection: 16.44 miles, Interceptors: 1.01 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Wurtland Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21089021	Wurtland: Lloyd Sanitary Sewer Project	3-5 Years	Partially Funded	$6,725,000	Greenup		
SX21089060	Wurtland: Uhlen Branch Sewer Line Extension	0-2 Years	Not Funded	$1,000,000	Greenup		
SX21089074	Wurtland: Phase 3 Wurtland Greenup Lloyd Regional Sewer Project	0-2 Years	Not Funded	$687,000	Greenup		
SX21089028	Wurtland: Conley Subdivision Sewer Project	0-2 Years	Not Funded	$650,000	Greenup		
SX21089025	Wurtland: East Park Site C	3-5 Years	Not Funded	$630,000	Greenup		
SX21089088	Wurtland: Replace Blower Piping and Provide Enclosure	3-5 Years	Not Funded	$590,000	Greenup		
SX21089073	Wurtland: Phase 2 Wurtland Greenup Lloyd Regional Sewer Project	0-2 Years	Partially Funded	$533,840	Greenup		
SX21089106	GCFC: Force Main Project from Progressive Railroad to Wurtland	0-2 Years	Not Funded	$527,000	Greenup		
SX21089085	Wurtland: Phase 2 of System Rehab	0-2 Years	Not Funded	$500,000	Greenup		
SX21089098	Wurtland: New Building for The Air Blower System	0-2 Years	Not Funded	$327,000	Greenup		
SX21089094	Wurtland: Industrial Parkway Sewer Service	0-2 Years	Not Funded	$100,000	Greenup		
SX21089090	Wurtland: Riverside Drive Line Extension	3-5 Years	Not Funded	$50,000	Greenup		

Lawrence County

- 2010 census population of 15,860 (7,286 households) with 27% serviceable.
- Projected 2020 population of 16,192 (change of 332).
- Lawrence County has 41.16 miles of existing sewer lines.
- 10.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $28,233,260.
- There are no projects planned from 6 to 10 years.



Lawrence County has a 2010 census population count of 15,860 (7,286 households) with a projected 2020 population count of 16,192 (6,647 households). Public sewer is currently available to approximately 27 percent of the county's households based on 2010 census counts. Over the next ten years approximately 426 serviceable households will be added through the construction of 10.00 miles of sewer line extensions and approximately 1,581 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Lawrence County Fiscal Court	1	$1,500,000	-	-	-	-	-
Louisa Water and Sewer Commission	3	$26,733,260	426	1,581	10.00	-	-
Totals:	**4**	**$28,233,260**	**426**	**1,581**	**10.00**	**-**	**-**

Public Wastewater Systems in Lawrence County

Note: Serviceability counts are for households within Lawrence county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000061	Lawrence County Fiscal Court	Lawrence	820	353
KY0027961	Louisa Sewer Department	Lawrence	3,419	1,581
		Totals:	4,239	1,934

SEWER SERVICE AREAS
LAWRENCE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
(502) 573-0260
http://kia.ky.gov

March, 2013



System Summary for Lawrence County Fiscal Court

Permit ID	KYP000061	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	321
Owner Type	County Fiscal Court	KISOP Sender	Yes, to 1 receiver.
Employees	1	Total KISOP Sent (MG)	0.765
Cost Per 4000 Gallons	$23.08	Total KISOP Treated (MG)	-
Residential Customers	321	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	12
Institutional Customers	-	Number of Lift Stations	9
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 11.41 miles (Collection: 11.35 miles, Interceptors: 0.06 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lawrence County Fiscal Court

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21127011	LCFC: Wastewater Treatment Plant for City of Blaine	3-5 Years	Not Funded	$1,500,000	Lawrence		

System Summary for Louisa Sewer Department

Permit ID	KY0027961	Treats Wastewater	Yes, 0.35 MGD with 0.41 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,246
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$35.92	Total KISOP Treated (MG)	0.765
Residential Customers	2,033	Total Treated (MG)	214.775
Commercial Customers	213	Number of Manholes	150
Institutional Customers	-	Number of Lift Stations	13
Industrial Customers	-	Percent Lines 20 yrs or Older	85%
KISOP Customers	1	Has Facility Plan	Yes, 70% Constructed
Total Collection System Line Length = 29.75 miles (Collection: 26.77 miles, Interceptors: 2.98 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Louisa Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21127029	Louisa: Wastewater Treatment Plant	0-2 Years	Not Funded	$21,000,000	Lawrence		
SX21127006	Louisa: Fallsburg Phase 3 Fuller Ridge Sanitary Sewer Main Line	0-2 Years	Not Funded	$3,798,260	Lawrence		
SX21127028	Louisa: Fallsburg Phase 2	3-5 Years	Not Funded	$1,935,000	Lawrence		
SX21127027	Louisa: Fallsburg Phase 1 Extension to The Top of Five Forks	3-5 Years	Not Funded	$1,900,000	Lawrence		

Green River Area Development District (GRADD)



- 2010 census population of 213,472 (92,066 households) with 64% serviceable.
- Projected 2020 population of 220,544 (change of 7,072).
- 1,021.02 miles of existing sewer lines.
- 53.00 miles of line extensions proposed in the next 10 years.
- 29.00 miles of line rehabilitation proposed in the next 10 years.
- 8.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $63,410,567.
- Estimated funding needs for projects from 6 to 10 years: $19,843,500.
- Average age of wastewater treatment plants is 38 years.
- Total number of interconnected systems is 7.
- 186 miles of sewer lines less than 15 years old.
- 196 miles of sewer lines between 15 and 30 years old.
- 284 miles of sewer lines between 31 and 50 years old.
- 146 miles of sewer lines between 51 and 70 years old.
- 209 miles of sewer lines greater than 70 years old.

Green River Area Development District has a 2010 census population count of 213,472 (92,066 households) with a projected 2020 population count of 220,544 (89,593 households). Public sewer is currently available to approximately 64 percent of the district's households based on 2010 census counts. Over the next ten years approximately 3,554 serviceable households will be added through the construction of 53.00 miles of sewer line extensions and approximately 54,216 instances of improved service through the rehabilitation of 29.00 miles of existing sewer lines and other appurtenances. 8.00 miles of interceptor lines are also proposed within this district.

County Summary for Green River Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Daviess	96,656	41,452	102,214	41,878	32,213	78%	$ 13,858,000
Hancock	8,565	3,734	8,843	3,502	1,415	38%	$ 6,425,000
Henderson	46,250	20,320	47,600	19,851	13,885	68%	$ 23,420,085
McLean	9,531	4,264	9,271	3,821	1,812	43%	$ 10,572,000
Ohio	23,842	10,219	24,781	9,786	3,290	32%	$ 4,556,570
Union	15,007	6,141	14,436	5,463	3,706	60%	$ 12,230,162
Webster	13,621	5,936	13,399	5,292	2,816	47%	$ 12,192,250
Totals	**213,472**	**92,066**	**220,544**	**89,593**	**59,137**	**64%**	**$ 83,254,067**

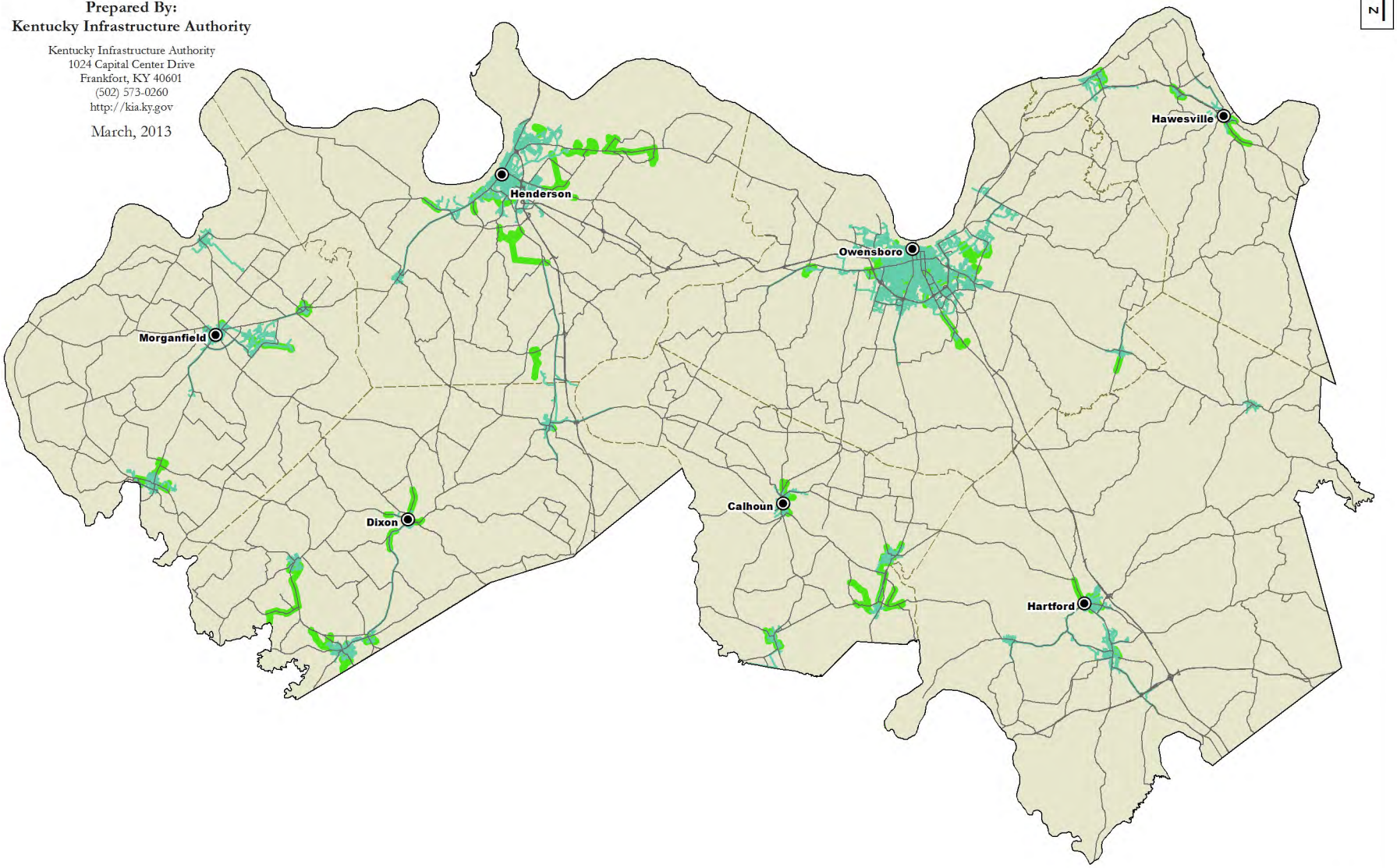
EXISTING & PROPOSED SEWER LINES

GRADD

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



SEWER LINES

- Proposed Sewer Lines
- Existing Sewer Lines

Water Resource Information System

Public Sewer Systems in the Green River Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0073377	Regional Water Resource Agency - East	Daviess	31,643	13,293
KY0020095	Regional Water Resource Agency - West	Daviess	40,774	18,585
KY0054941	Whitesville Water Works	Daviess	761	335
KY0020087	Hawesville Water Works	Hancock	1,266	562
KY0025241	Lewisport Municipal Water Works	Hancock	1,828	853
KYP000042	Corydon Wastewater Collection	Henderson	755	306
KY0020711	Henderson Water Utility - North	Henderson	29,780	13,578
KY0020125	Calhoun Water Works	McLean	1,176	561
KY0066605	Island Water Department	McLean	507	229
KY0020613	Livermore Water Works	McLean	1,464	695
KY0091731	Sacramento Water Works	McLean	685	327
KYP000076	Beaver Dam Municipal Water/Sewer	Ohio	3,877	1,629
KYP000078	Centertown Water System	Ohio	538	219
KY0054801	Fordsville Water District	Ohio	554	242
KYP000077	Hartford Municipal Water Works	Ohio	2,635	1,133
KY0105791	Ohio County Regional Wastewater District	Ohio	165	67
KY0021440	Morganfield Water Works	Union	5,755	2,006
KY0025895	Sturgis Water Works	Union	2,098	1,029
KY0025844	Uniontown Water/Sewer Department	Union	1,116	512
KYP000060	Waverly Wastewater Collection	Union	348	159
KY0028096	Clay Water Works	Webster	1,198	520
KY0021296	Providence Water Works	Webster	2,868	1,447
KYP000054	Sebree Collection System	Webster	1,510	572
KYP000055	Webster County Sanitation District	Webster	822	277
		Totals:	134,123	59,136

Green River Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **New Collector and Appurtenances**

Discussion of Area Development District Needs:

The GRADD region covers seven counties and their individual needs vary widely. The counties all know the importance and value of rationalization and regional projects and strive to build them. However, these individual systems have other needs that must be addressed on a daily basis while regional projects can take years to plan and complete.

In the GRADD region, the primary need is the repair and replacement of existing infrastructure. All seven counties in the GRADD region considered repair and replacement of existing infrastructure as their primary need. Under this, the most important aspect is repair/replacement of sewer lines to combat I&I, but also includes repairing/replacing equipment in the distribution system as well as that at sewer plant.

The secondary need of the area is to build new collector sewer and appurtenances. The need for this varies from county to county as well as between systems. The project needs include building new sewer lines that will redesign the systems flow and will help the system run more efficiently, to building out new sewer lines to serving areas that have failing on-site systems or no sewer system at all.

Description and Determination of Planning Units:

The GRADD Water Management Council adopted the GRADD geographical boundary as its services area.

The following wastewater systems serve communities in the Green River Area Development District, and their service areas are included in the Water Management Planning Area:

*Daviess County
1. Regional Water Resource Agency - East Plant
2. Regional Water Resource Agency - West Plant
3. Whitesville Water Works

*Hancock County
1. Hawesville Water Works
2. Lewisport Municipal Water Works

*Henderson County
1. Henderson Water Utility--North
2. Henderson Water Utility--South

*McLean County
1. Calhoun Water Works
2. Island Water Department
3. Livermore Water Works
4. Sacramento Water Works

*Ohio County
1. Beaver Dam Municipal Water
2. Centertown Water System
3. Fordsville Water Works
4. Hartford Municipal Water Works
5. Ohio County Regional Wastewater District

*Union County
1. Morganfield Water Works
2. Sturgis Water Works
3. Uniontown Water Department
4. Waverly Wastewater Collection

*Webster County
1. Clay Water Works
2. Providence Water Works
3. Sebree Water Department
4. Webster County Sanitation District

Green River Area Development District
Project Ranking Methodology

Basic Information

- Project County
- Project Owner
- WRIS Project Number
- Project Description
- Estimated Project Cost

Type of Project

Unserved

• 9 or more per mile	20 pts
• 7-8 per mile	19 pts
• 5-6 per mile	18 pts
• 3-4 per mile	15 pts
• 1-2 per mile	10 pts
• <1 per mile	5 pts

Underserved

• 80-100% total customer base impacted	20 pts
• 60-79% total customer base impacted	19 pts
• 40-59% total customer base impacted	18 pts
• 20-39% total customer base impacted	15 pts
• 10-19% total customer base impacted	10 pts
• less than 10% customer base impacted	5 pts

Economic Development

• 100 or more jobs created or retained	20 pts
• 75-99 jobs created or retained	19 pts
• 50-74 jobs created or retained	18 pts
• 20-49 jobs created or retained	15 pts
• 10-19 jobs created or retained	10 pts
• less than 10 jobs created or retained	5 pts

Other (a project that does not meet above criteria, i.e. a building for chemicals)

- 3 pts

Combination

- If a project is a combination of the above, whichever category the project scored higher in (unserved, underserved, or economic development) the project will get those points, plus 3 additional pts

Maximum of 20 points for this section

Delivery Area

• Regional – Consolidation into single system	30 pts
• Regionalization of a WTP or WWTP	20 pts
• Project benefits multiple systems/communities	15 pts
• Project benefits two systems/communities	10 pts
• Non-regional	5 pts
• Non-regional project that eliminates a lift station/ package treatment plant/pump station	10 pts

Project Status

- Engineering plans and specs submitted to DOW 20 pts
- PER 15 pts
- Engineering procurement completed 10 pts
- Cost estimate by PE 10 pts
- Preliminary planning by system 5 pts

Funding Status

A project costing greater than $100,000

1. Funding committed for 50% or more 20 pts
2. Funding committed for 25-49% 10 pts
3. Funding committed for 1-24% 5 pts
4. Pending applications 3 pts

A project costing less than $100,000

1. 10 pts as long as the project is in one of the above four processes

Environmental Factors

Any project can receive as many (or none) of the points below

- Water loss reduction/I&I reduction 5 pts
- Replacing inefficient pumps/motors with high efficiency ones 5 pts
- Use of some other Green Technology not listed above 5 pts

Tie breaker is cost per connection

County Ranking

The highest scoring project in a county will be the number one ranking project for that county. The number two and subsequently ranked projects will follow in order of next highest scoring. The top five ranked projects in the county will be sent to be ranked regionally; however, all county ranked projects will still be submitted to KIA.

Regional Ranking

The highest scoring projects in the region will be determined from the highest ranked projects in the counties.

Project Rankings For Green River Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21225024	Morganfield Combined Sewer Separation Project - Phase II	0-2 Years	Partially Funded	$1,954,062	Union	1	1
SX21233026	Providence Wastewater Treatment Plant Expansion	0-2 Years	Not Funded	$1,959,000	Webster	2	1
SX21183016	Centertown Liftstation Rebuild Project	0-2 Years	Not Funded	$150,000	Ohio	3	1
SX21091015	Hawesville Sewer Plant Rebuild Project	0-2 Years	Not Funded	$5,000,000	Hancock	4	1
SX21233025	Providence Sanitary Sewer Upgrades	0-2 Years	Not Funded	$1,693,750	Webster	5	2
SX21233020	Sebree I&I Sewer Rehab Project	3-5 Years	Not Funded	$1,215,000	Webster	6	3
SX21225012	Sturgis Wastewater Treatment Plant Upgrade	6-10 Years	Partially Funded	$2,710,000	Union	7	2
SX21183015	Fordsville Wastewater System Improvement/Rehabilitation Project	0-2 Years	Not Funded	$753,450	Ohio	8	2
SX21059033	Southwest Master Pump Station And Force Main Project	0-2 Years	Not Funded	$7,282,500	Daviess	9	1
SX21059026	Woodlands South Sewer Extension	0-2 Years	Not Funded	$515,000	Daviess	10	2
SX21149023	Sacramento Gravity Sewer Project, Phase II	0-2 Years	Not Funded	$940,000	McLean	11	1
SX21059045	Hayden Road and Pleasant Valley Road Area Subdivisions	0-2 Years	Not Funded	$1,425,000	Daviess	12	3
SX21059039	Pleasant View Estates Sewer Expansion	0-2 Years	Not Funded	$540,000	Daviess	13	4
SX21101015	Happy Acres Sewer Service Extension	11-20 Years	Not Funded	$2,000,000	Henderson	14	1
SX21101018	Graham Hill Sewer Extensions	3-5 Years	Not Funded	$3,150,000	Henderson	15	2
SX21101016	Grantwood Sewer Service Extension	6-10 Years	Not Funded	$1,000,000	Henderson	16	4
SX21059046	Airport/Bittel Road Area Subdivisions	0-2 Years	Not Funded	$572,500	Daviess	17	5
SX21101014	Holloway Hills Sewer Extension	6-10 Years	Not Funded	$600,000	Henderson	18	3
SX21101009	Broadview Sewer Line Extension	11-20 Years	Not Funded	$600,000	Henderson	19	5
SX21149031	Calhoun Wastewater Plant Replacement Project	3-5 Years	Not Funded	$2,480,000	McLean	20	2
SX21149028	Sacramento Phase III Gravity Sewer Project	6-10 Years	Not Funded	$375,000	McLean	21	3
SX21149029	Sacramento Phase IV Gravity Sewer Project	11-20 Years	Not Funded	$1,147,500	McLean	22	4
SX21183002	North 231 Sewer Extension Project	0-2 Years	Not Funded	$700,000	Ohio	23	3
SX21091014	Hawesville Lift Station Rehabilitation	6-10 Years	Not Funded	$100,000	Hancock	24	2
SX21091013	Highway 60 East Economic Development	3-5 Years	Not Funded	$500,000	Hancock	25	3
SX21225015	Uniontown Lift Station Rebuilds	6-10 Years	Not Funded	$1,000,000	Union	26	3
SX21225006	Camp Breckenridge Sewer Rehab	0-2 Years	Not Funded	$3,552,800	Union	27	4
SX21149002	Livermore Sewer Line Extensions	6-10 Years	Not Funded	$1,500,000	McLean	28	5
SX21233001	Webster County Sanitation Expansion Project	6-10 Years	Not Funded	$4,615,000	Webster	29	4
SX21091012	Hawesville Generator Project	6-10 Years	Not Funded	$75,000	Hancock	30	4
SX21233024	Sebree Highway 370 Sewer Line Extension	6-10 Years	Not Funded	$941,500	Webster	31	5
SX21225025	Winn Addition Sewer Expansion	0-2 Years	Not Funded	$1,883,300	Union	32	5
SX21091017	Lewisport Manhole Inspection and Relining Project	11-20 Years	Not Funded	$120,000	Hancock	33	5
SX21183007	Centertown Sewer Clean Out Machine Purchase Project	0-2 Years	Not Funded	$50,000	Ohio	34	5
SX21183013	Beaver Dam Sewer Rehab Debt Payoff	3-5 Years	Not Funded	$580,000	Ohio	35	4

Total Cost:	**$53,680,362**			

Daviess County

- 2010 census population of 96,656 (41,452 households) with 78% serviceable.
- Projected 2020 population of 102,214 (change of 5,558).
- Daviess County has 462.76 miles of existing sewer lines.
- 10.00 miles of line extensions proposed in the next 10 years.
- 5.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $13,858,000.
- There are no projects planned from 6 to 10 years.



Daviess County has a 2010 census population count of 96,656 (41,452 households) with a projected 2020 population count of 102,214 (41,878 households). Public sewer is currently available to approximately 78 percent of the county's households based on 2010 census counts. Over the next ten years approximately 433 serviceable households will be added through the construction of 10.00 miles of sewer line extensions and approximately 2,792 instances of improved service through the rehabilitation of 5.00 miles of existing sewer lines and other appurtenances. 1.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Whitesville	1	$58,000	-	275	-	-	-
Regional Water Resource Agency	6	$13,800,000	433	2,517	10.00	5.00	1.00
Totals:	**7**	**$13,858,000**	**433**	**2,792**	**10.00**	**5.00**	**1.00**

Public Wastewater Systems in Daviess County

Note: Serviceability counts are for households within Daviess county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0073377	Regional Water Resource Agency - East	Daviess	31,643	13,293
KY0020095	Regional Water Resource Agency - West	Daviess	40,774	18,585
KY0054941	Whitesville Water Works	Daviess	761	335
		Totals:	73,178	32,213

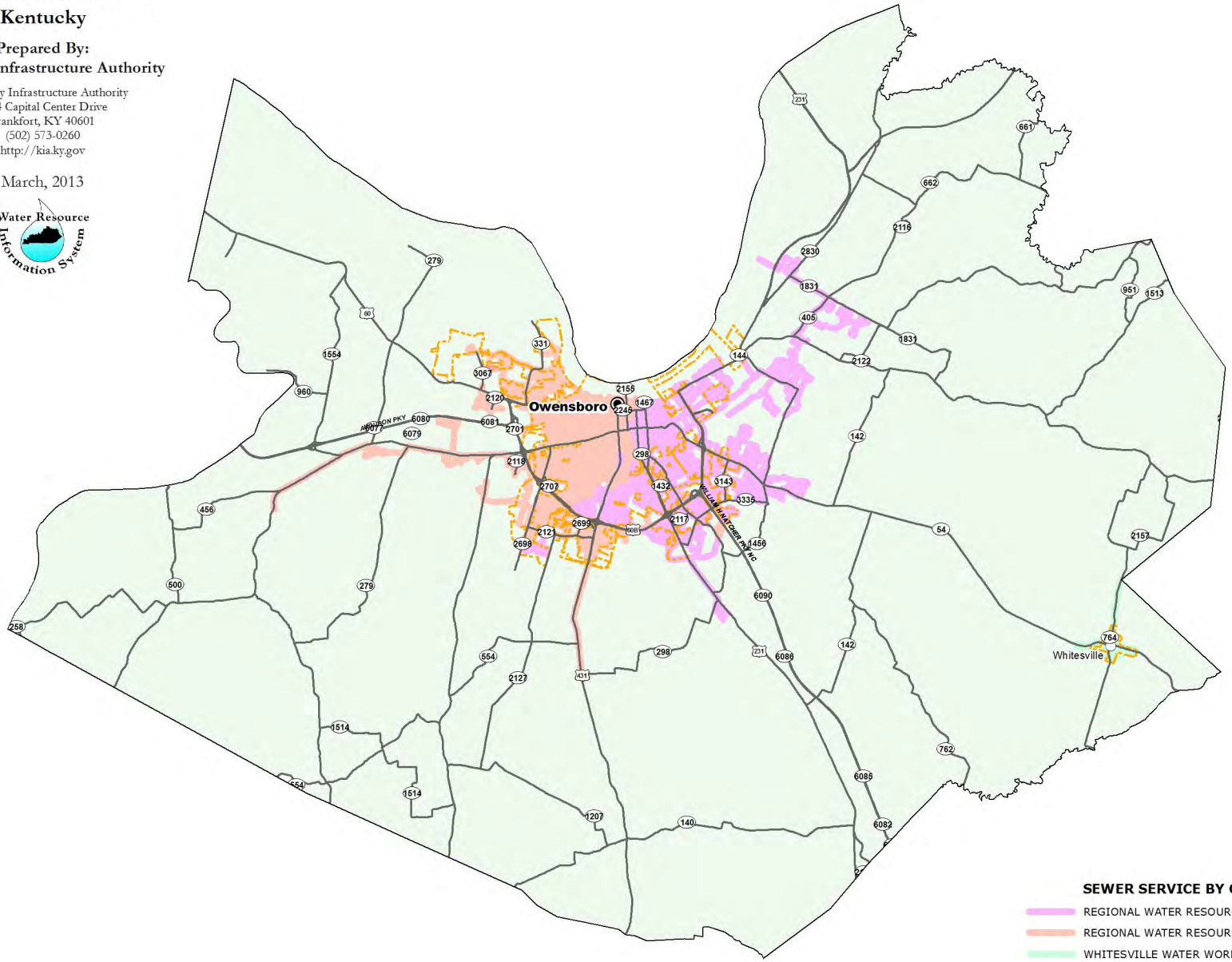
SEWER SERVICE AREAS
DAVIESS COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013

Water Resource Information System



System Summary for Cedar Hills Sanitation Corporation

Permit ID	KY0031895	Treats Wastewater	Yes, 0.047 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.01 miles (Collection: 0.01 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Cedar Hills Sanitation Corporation

System Summary for Friendly Park Development Company

Permit ID	KY0025224	Treats Wastewater	Yes, 0.032 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.06 miles (Collection: 0.06 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Friendly Park Development Company

System Summary for Garden Heights Subdivision

Permit ID	KY0023256	Treats Wastewater	Yes, 0.052 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.04 miles (Collection: 0.04 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Garden Heights Subdivision

System Summary for Regional Water Resource Agency - East

Permit ID	KY0073377	Treats Wastewater	Yes, 6.8 MGD with 4.5 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	30,000
Owner Type	Joint Sewer Agency	KISOP Sender	No
Employees	74	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.62	Total KISOP Treated (MG)	-
Residential Customers	26,207	Total Treated (MG)	2,963.810
Commercial Customers	2,442	Number of Manholes	8306
Institutional Customers	-	Number of Lift Stations	23
Industrial Customers	70	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 200.79 miles (Collection: 186.67 miles, Interceptors: 14.12 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Regional Water Resource Agency - East

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21059045	Hayden Road and Pleasant Valley Road Area Subdivisions	0-2 Years	Not Funded	$1,425,000	Daviess	12	3
SX21059039	Pleasant View Estates Sewer Expansion	0-2 Years	Not Funded	$540,000	Daviess	13	4

System Summary for Regional Water Resource Agency - West

Permit ID	KY0020095	Treats Wastewater	Yes, 15 MGD with 9.5 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	30,000
Owner Type	Joint Sewer Agency	KISOP Sender	No
Employees	75	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.62	Total KISOP Treated (MG)	-
Residential Customers	26,207	Total Treated (MG)	2,963.810
Commercial Customers	2,442	Number of Manholes	8306
Institutional Customers	-	Number of Lift Stations	27
Industrial Customers	70	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 249.73 miles (Collection: 208.34 miles, Interceptors: 41.39 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Regional Water Resource Agency - West

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21059033	Southwest Master Pump Station And Force Main Project	0-2 Years	Not Funded	$7,282,500	Daviess	9	1
SX21059026	Woodlands South Sewer Extension	0-2 Years	Not Funded	$515,000	Daviess	10	2
SX21059046	Airport/Bittel Road Area Subdivisions	0-2 Years	Not Funded	$572,500	Daviess	17	5
SX21059027	Ravines Sewer Upgrade	0-2 Years	Not Funded	$3,465,000	Daviess		7

System Summary for Whitesville Water Works

Permit ID	KY0054941	Treats Wastewater	Yes, 0.1 MGD with 0.06 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	278
Owner Type	Incorporated City	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.66	Total KISOP Treated (MG)	-
Residential Customers	264	Total Treated (MG)	18.000
Commercial Customers	14	Number of Manholes	200
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 11.80 miles (Collection: 10.17 miles, Interceptors: 1.63 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Whitesville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21059043	Whitesville Sewer Rehabilitation Project	3-5 Years	Not Funded	$58,000	Daviess		6

Hancock County

- 2010 census population of 8,565 (3,734 households) with 38% serviceable.
- Projected 2020 population of 8,843 (change of 278).
- Hancock County has 36.19 miles of existing sewer lines.
- 2.00 miles of line extensions proposed in the next 10 years.
- 5.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,100,000.
- Estimated funding needs for projects from 6 to 10 years: $325,000.



Hancock County has a 2010 census population count of 8,565 (3,734 households) with a projected 2020 population count of 8,843 (3,502 households). Public sewer is currently available to approximately 38 percent of the county's households based on 2010 census counts. Over the next ten years approximately 39 serviceable households will be added through the construction of 2.00 miles of sewer line extensions and approximately 4,449 instances of improved service through the rehabilitation of 5.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Hawesville	3	$5,175,000	-	3,850	-	-	-
City of Lewisport	2	$750,000	-	594	-	5.00	-
Hancock County Fiscal Court	1	$500,000	39	5	2.00	-	-
Totals:	**6**	**$6,425,000**	**39**	**4,449**	**2.00**	**5.00**	**-**

Public Wastewater Systems in Hancock County

Note: Serviceability counts are for households within Hancock county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020087	Hawesville Water Works	Hancock	1,266	562
KY0025241	Lewisport Municipal Water Works	Hancock	1,828	853
		Totals:	3,094	1,415

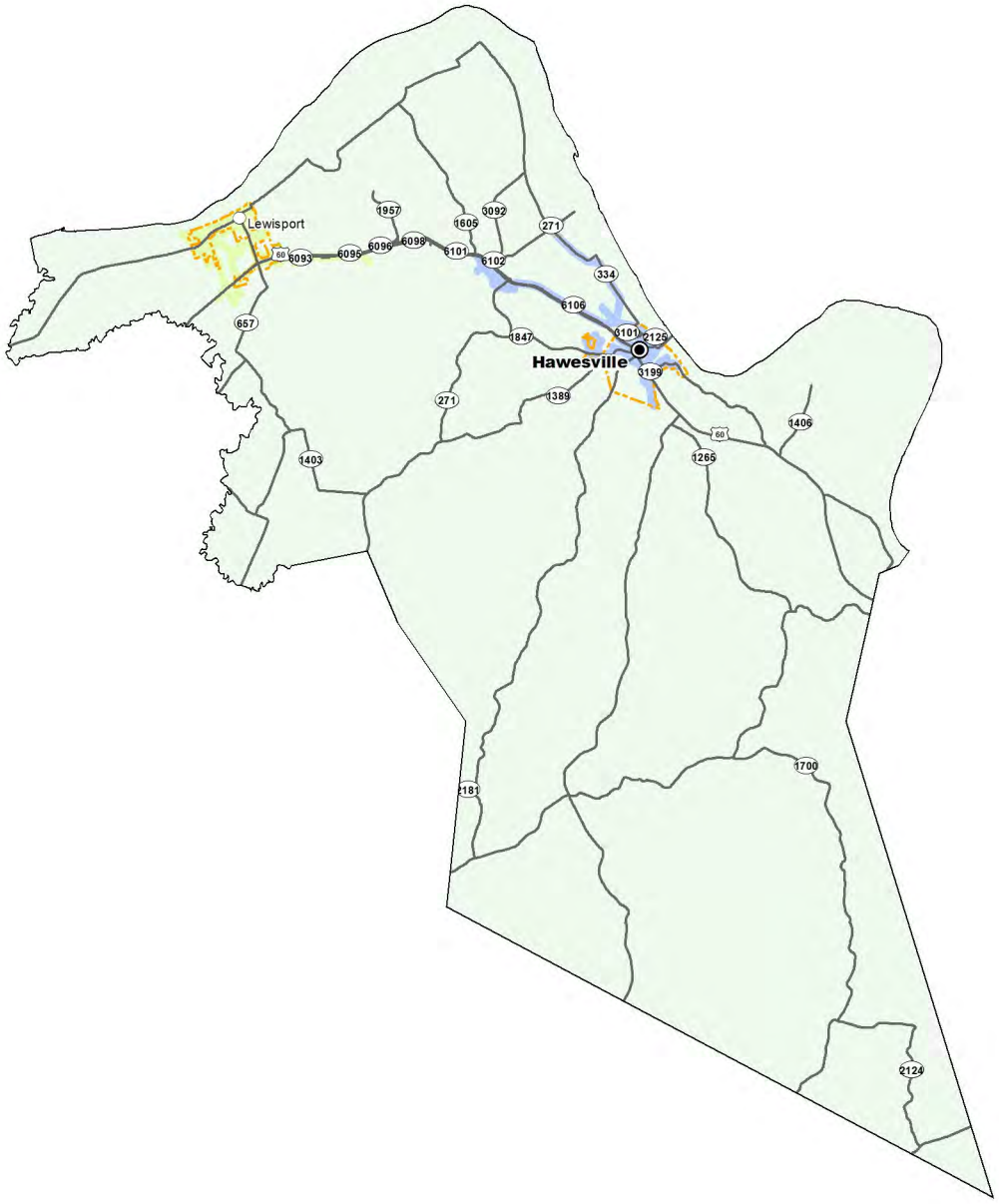
SEWER SERVICE AREAS
HANCOCK COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER
- HAWESVILLE WATER WORKS
- LEWISPORT MUNICIPAL WATER WORKS

System Summary for Hawesville Water Works

Permit ID	KY0020087	Treats Wastewater	Yes, 0.25 MGD with 0.16 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	468
Owner Type	Incorporated City	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.25	Total KISOP Treated (MG)	-
Residential Customers	466	Total Treated (MG)	26.000
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	10
Industrial Customers	2	Percent Lines 20 yrs or Older	98%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 18.60 miles (Collection: 16.04 miles, Interceptors: 2.56 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hawesville Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21091015	Hawesville Sewer Plant Rebuild Project	0-2 Years	Not Funded	$5,000,000	Hancock	4	1
SX21091014	Hawesville Lift Station Rehabilitation	6-10 Years	Not Funded	$100,000	Hancock	24	2
SX21091013	Highway 60 East Economic Development	3-5 Years	Not Funded	$500,000	Hancock	25	3
SX21091012	Hawesville Generator Project	6-10 Years	Not Funded	$75,000	Hancock	30	4
SX21141033	Russellville Historical District Reconditioning	0-2 Years	Not Funded	$6,315,000	Logan		
SX21141032	Russellville Reedville Project	0-2 Years	Not Funded	$460,000	Logan		

System Summary for Lewisport Municipal Water Works

Permit ID	KY0025241	Treats Wastewater	Yes, 0.4 MGD with 0.13 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	692
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.65	Total KISOP Treated (MG)	-
Residential Customers	625	Total Treated (MG)	78.000
Commercial Customers	49	Number of Manholes	230
Institutional Customers	-	Number of Lift Stations	5
Industrial Customers	1	Percent Lines 20 yrs or Older	25%
KISOP Customers	-	Has Facility Plan	Yes, 85% Constructed
Total Collection System Line Length = 17.50 miles (Collection: 17.44 miles, Interceptors: 0.06 miles).			

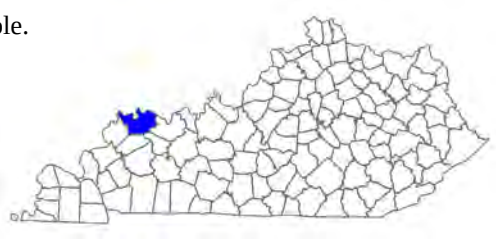
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lewisport Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21091009	Lewisport Slip Lining	3-5 Years	Not Funded	$600,000	Hancock		6
SX21091016	Lift station Elimination Project	6-10 Years	Not Funded	$150,000	Hancock		7

Henderson County

- 2010 census population of 46,250 (20,320 households) with 68% serviceable.
- Projected 2020 population of 47,600 (change of 1,350).
- Henderson County has 210.04 miles of existing sewer lines.
- 19.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 3.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $20,620,085.
- Estimated funding needs for projects from 6 to 10 years: $2,800,000.



Henderson County has a 2010 census population count of 46,250 (20,320 households) with a projected 2020 population count of 47,600 (19,851 households). Public sewer is currently available to approximately 68 percent of the county's households based on 2010 census counts. Over the next ten years approximately 2,151 serviceable households will be added through the construction of 19.00 miles of sewer line extensions and approximately 31,071 instances of improved service through system wide upgrades. 3.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Corydon	2	$720,000	-	571	-	-	-
Henderson County Fiscal Court	2	$2,350,085	241	-	1.00	-	1.00
Henderson Water Utility	9	$20,350,000	1,910	30,500	18.00	-	2.00
Totals:	**13**	**$23,420,085**	**2,151**	**31,071**	**19.00**	**-**	**3.00**

Public Wastewater Systems in Henderson County

Note: Serviceability counts are for households within Henderson county only.

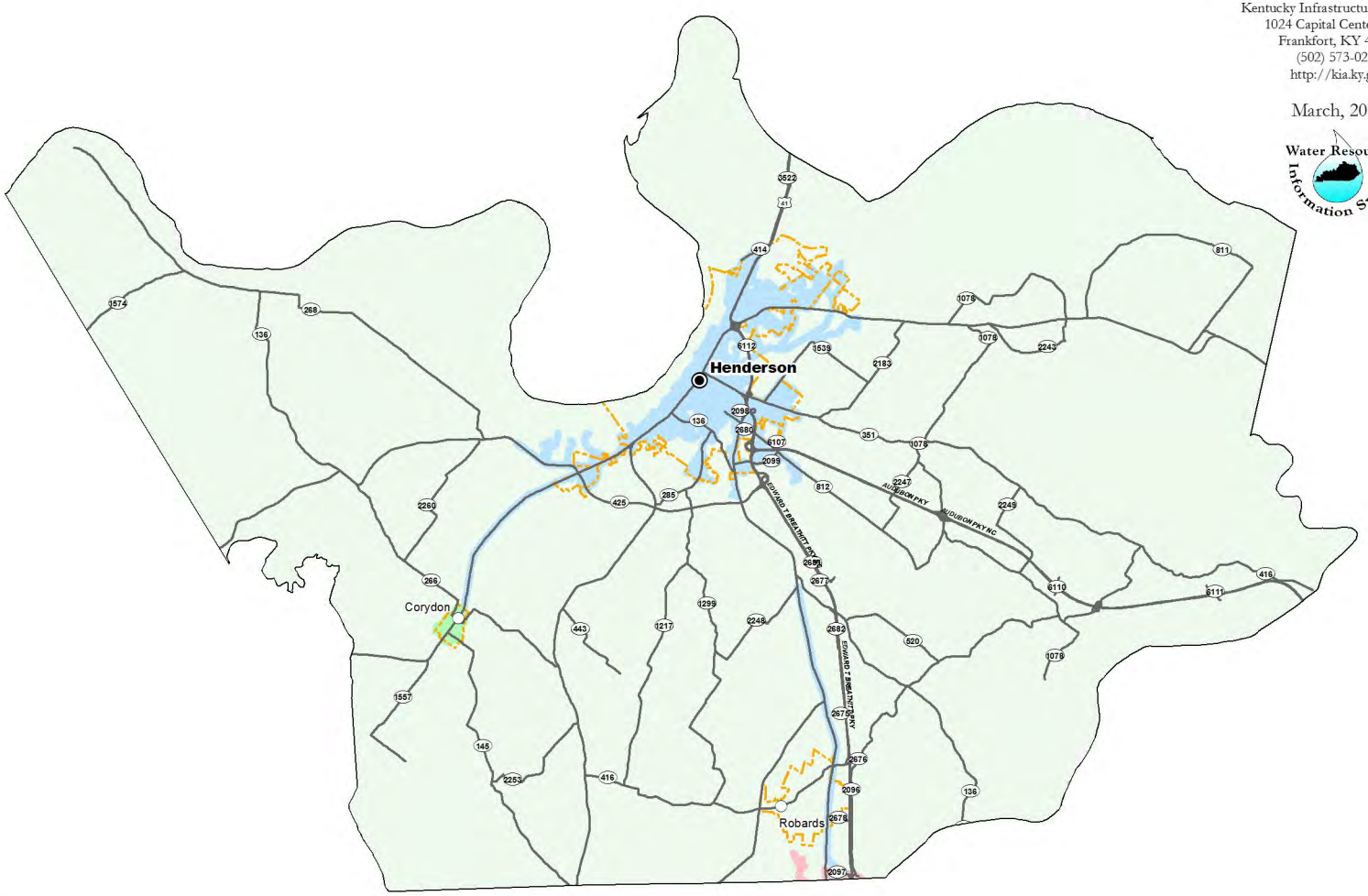
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000042	Corydon Wastewater Collection	Henderson	755	306
KY0020711	Henderson Water Utility - North	Henderson	29,780	13,578
		Totals:	30,535	13,884

SEWER SERVICE AREAS
HENDERSON COUNTY
Kentucky

Prepared By:
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March, 2013



SEWER SERVICE BY OWNER

- CORYDON WASTEWATER COLLECTION
- HENDERSON WATER UTILITIES - SOUTH
- HENDERSON WATER UTILITY - NORTH

System Summary for Corydon Wastewater Collection

Permit ID	KYP000042	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	280
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	4	Total KISOP Sent (MG)	12.000
Cost Per 4000 Gallons	$44.04	Total KISOP Treated (MG)	-
Residential Customers	273	Total Treated (MG)	-
Commercial Customers	7	Number of Manholes	65
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 7.81 miles (Collection: 7.81 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Corydon Wastewater Collection

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21101041	Corydon Flow Meter Project	3-5 Years	Not Funded	$20,000	Henderson		11
SX21101035	Corydon Sewer System Refinancing	3-5 Years	Not Funded	$700,000	Henderson		17

System Summary for Henderson Water Utilities - South

Permit ID	KY0100293	Treats Wastewater	Yes, 8 MGD with 2.5 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	4
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	85	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.47	Total KISOP Treated (MG)	75.000
Residential Customers	-	Total Treated (MG)	1,234.700
Commercial Customers	-	Number of Manholes	2700
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	3	Percent Lines 20 yrs or Older	75%
KISOP Customers	1	Has Facility Plan	Yes, 50% Constructed

Total Collection System Line Length = 11.28 miles (Collection: 0.51 miles, Interceptors: 10.78 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Henderson Water Utilities - South

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21233018	Diamond Area Sewer Study	6-10 Years	Not Funded	$100,000	Webster		9
SX21101038	Finely Addition Sewer Extension	0-2 Years	Partially Funded	$2,100,000	Henderson		15

System Summary for Henderson Water Utility - North

Permit ID	KY0020711	Treats Wastewater	Yes, 15 MGD with 7 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	10,743
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	85	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.47	Total KISOP Treated (MG)	12.000
Residential Customers	9,087	Total Treated (MG)	2,497.000
Commercial Customers	974	Number of Manholes	2700
Institutional Customers	83	Number of Lift Stations	57
Industrial Customers	53	Percent Lines 20 yrs or Older	75%
KISOP Customers	1	Has Facility Plan	Yes, 50% Constructed

Total Collection System Line Length = 199.34 miles (Collection: 172.71 miles, Interceptors: 26.64 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Henderson Water Utility - North

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21101018	Graham Hill Sewer Extensions	3-5 Years	Not Funded	$3,150,000	Henderson	15	2
SX21101016	Grantwood Sewer Service Extension	6-10 Years	Not Funded	$1,000,000	Henderson	16	4
SX21101014	Holloway Hills Sewer Extension	6-10 Years	Not Funded	$600,000	Henderson	18	3
SX21101005	Country Club Sewer Extension	6-10 Years	Not Funded	$1,200,000	Henderson		6
SX21101036	Thorn Ridge Sewer Extension	3-5 Years	Not Funded	$200,000	Henderson		9
SX21233018	Diamond Area Sewer Study	6-10 Years	Not Funded	$100,000	Webster		9
SX21101040	Henderson Riverport Infrastructure Extension, Sewer	0-2 Years	Not Funded	$250,085	Henderson		10
SX21101029	North Treatment Plant Improvements	3-5 Years	Not Funded	$200,000	Henderson		12
SX21101023	Henderson Water Utility Manhole Renovation	3-5 Years	Not Funded	$1,100,000	Henderson		13
SX21101002	Canoe Creek Phase II Sewer Improvements	3-5 Years	Partially Funded	$11,000,000	Henderson		14
SX21101038	Finely Addition Sewer Extension	0-2 Years	Partially Funded	$2,100,000	Henderson		15
SX21101030	Janalee Drive Pump Station Rehabilitation	3-5 Years	Not Funded	$1,900,000	Henderson		16

McLean County

- 2010 census population of 9,531 (4,264 households) with 43% serviceable.
- Projected 2020 population of 9,271 (change of -260).
- McLean County has 52.45 miles of existing sewer lines.
- 11.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,500,000.
- Estimated funding needs for projects from 6 to 10 years: $6,072,000.



McLean County has a 2010 census population count of 9,531 (4,264 households) with a projected 2020 population count of 9,271 (3,821 households). Public sewer is currently available to approximately 43 percent of the county's households based on 2010 census counts. Over the next ten years approximately 420 serviceable households will be added through the construction of 11.00 miles of sewer line extensions and approximately 1,196 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances. 1.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Calhoun	1	$2,480,000	-	400	-	-	-
City of Island	6	$4,077,000	318	258	8.00	-	1.00
City of Livermore	1	$1,500,000	75	-	1.00	-	-
City of Sacramento	3	$1,595,000	-	488	-	2.00	-
McLean County Fiscal Court	2	$920,000	27	50	2.00	-	-
Totals:	**13**	**$10,572,000**	**420**	**1,196**	**11.00**	**2.00**	**1.00**

Public Wastewater Systems in McLean County

Note: Serviceability counts are for households within McLean county only.

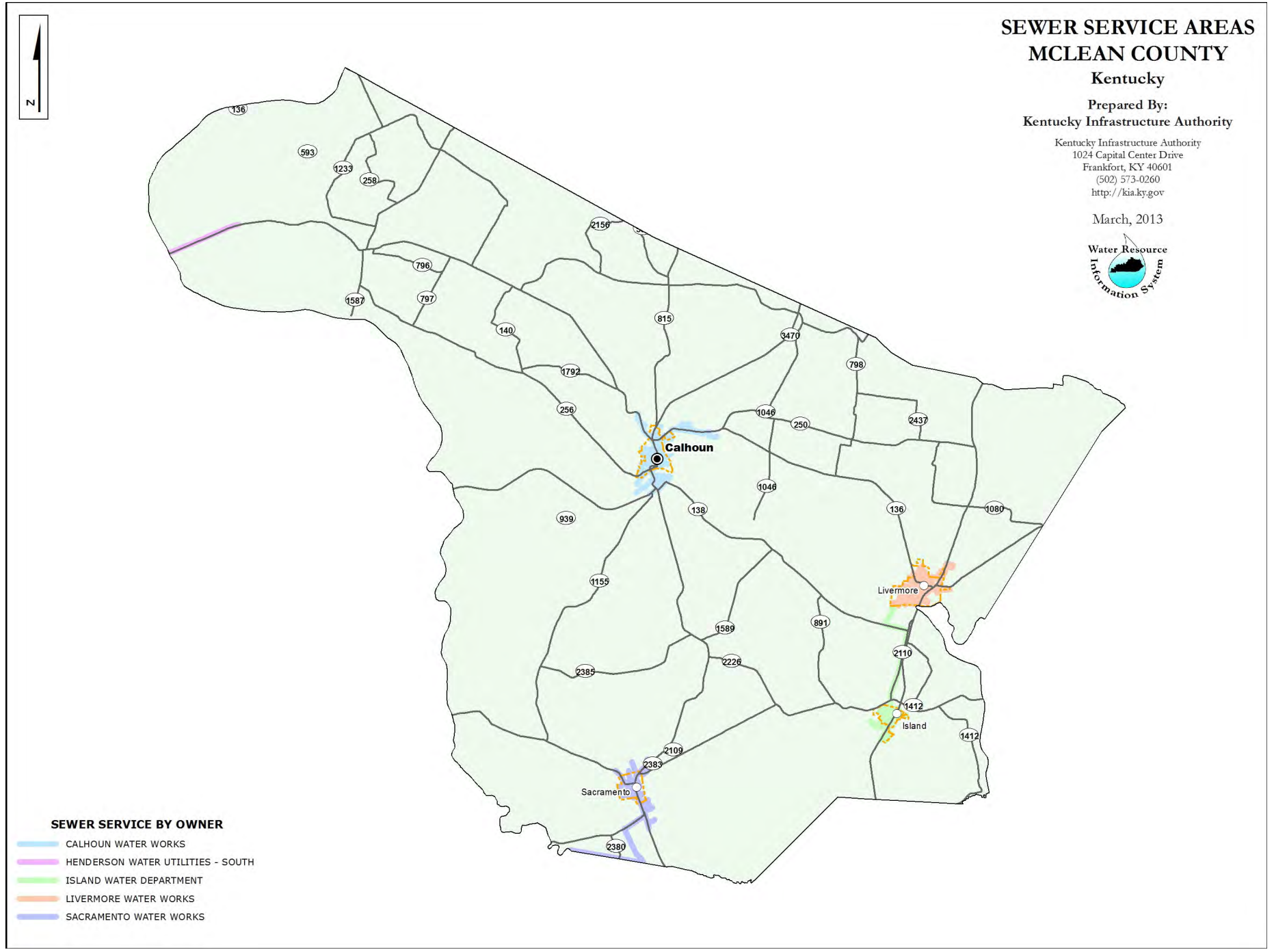
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020125	Calhoun Water Works	McLean	1,176	561
KY0066605	Island Water Department	McLean	507	229
KY0020613	Livermore Water Works	McLean	1,464	695
KY0091731	Sacramento Water Works	McLean	685	327
		Totals:	3,832	1,812

SEWER SERVICE AREAS
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Kentucky

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March, 2013



System Summary for Calhoun Water Works

Permit ID	KY0020125	Treats Wastewater	Yes, 0.4 MGD with 0.118 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	391
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$36.63	Total KISOP Treated (MG)	-
Residential Customers	318	Total Treated (MG)	50.803
Commercial Customers	47	Number of Manholes	310
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 15.55 miles (Collection: 15.03 miles, Interceptors: 0.52 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Calhoun Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21149031	Calhoun Wastewater Plant Replacement Project	3-5 Years	Not Funded	$2,480,000	McLean	20	2
SX21149026	KY815/KY81 Sanitary Sewer Project	3-5 Years	Not Funded	$800,000	McLean		7
SX21149016	Myer Creek Park Sewer Extension	6-10 Years	Not Funded	$120,000	McLean		14

System Summary for Island Water Department

Permit ID	KY0066605	Treats Wastewater	Yes, 0.12 MGD with 0.02 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	197
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$39.53	Total KISOP Treated (MG)	-
Residential Customers	184	Total Treated (MG)	15.000
Commercial Customers	13	Number of Manholes	95
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 9.65 miles (Collection: 6.37 miles, Interceptors: 3.28 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Island Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21149005	Fox Hollow Road Sewer Line Extension	6-10 Years	Not Funded	$1,000,000	McLean		6
SX21149032	Buttonsberry Sewer Line Project	6-10 Years	Not Funded	$1,600,000	McLean		8
SX21149006	Hwy 85 Sewer Line Extension	6-10 Years	Not Funded	$750,000	McLean		11
SX21149004	Hwy 431 Sewer Main Extension	6-10 Years	Not Funded	$500,000	McLean		12
SX21149013	Island Wastewater Treatment Plant Improvements	6-10 Years	Not Funded	$115,000	McLean		13
SX21149024	Island Sewer Plant and Lift Station Generators Project	6-10 Years	Not Funded	$112,000	McLean		15

System Summary for Livermore Water Works

Permit ID	KY0020613	Treats Wastewater	Yes, 0.31 MGD with 0.1 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	682
Owner Type	Incorporated City	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$47.04	Total KISOP Treated (MG)	-
Residential Customers	557	Total Treated (MG)	37.000
Commercial Customers	-	Number of Manholes	144
Institutional Customers	-	Number of Lift Stations	14
Industrial Customers	-	Percent Lines 20 yrs or Older	35%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 13.49 miles (Collection: 13.36 miles, Interceptors: 0.12 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Livermore Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21149002	Livermore Sewer Line Extensions	6-10 Years	Not Funded	$1,500,000	McLean	28	5

System Summary for Sacramento Water Works

Permit ID	KY0091731	Treats Wastewater	Yes, 0.062 MGD with 0.035 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	296
Owner Type	Incorporated City	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.60	Total KISOP Treated (MG)	-
Residential Customers	268	Total Treated (MG)	36.000
Commercial Customers	23	Number of Manholes	175
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 12.09 miles (Collection: 8.44 miles, Interceptors: 3.64 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Sacramento Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21149023	Sacramento Gravity Sewer Project, Phase II	0-2 Years	Not Funded	$940,000	McLean	11	1
SX21149028	Sacramento Phase III Gravity Sewer Project	6-10 Years	Not Funded	$375,000	McLean	21	3
SX21149017	Sacramento Sewer Pumps 2	3-5 Years	Not Funded	$280,000	McLean		10

Ohio County

- 2010 census population of 23,842 (10,219 households) with 32% serviceable.
- Projected 2020 population of 24,781 (change of 939).
- Ohio County has 85.18 miles of existing sewer lines.
- 2.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,556,570.
- There are no projects planned from 6 to 10 years.



Ohio County has a 2010 census population count of 23,842 (10,219 households) with a projected 2020 population count of 24,781 (9,786 households). Public sewer is currently available to approximately 32 percent of the county's households based on 2010 census counts. Over the next ten years approximately 65 serviceable households will be added through the construction of 2.00 miles of sewer line extensions and approximately 3,997 instances of improved service through the rehabilitation of 4.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Beaver Dam	2	$901,120	-	1,920	-	1.00	-
City of Centertown	2	$200,000	-	706	-	-	-
City of Fordsville	1	$753,450	-	233	-	-	-
City of Hartford	1	$2,002,000	-	1,138	-	3.00	-
Ohio County Fiscal Court	1	$700,000	65	-	2.00	-	-
Totals:	**7**	**$4,556,570**	**65**	**3,997**	**2.00**	**4.00**	**-**

Public Wastewater Systems in Ohio County

Note: Serviceability counts are for households within Ohio county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000076	Beaver Dam Municipal Water/Sewer	Ohio	3,877	1,629
KYP000078	Centertown Water System	Ohio	538	219
KY0054801	Fordsville Water District	Ohio	554	242
KYP000077	Hartford Municipal Water Works	Ohio	2,635	1,133
KY0105791	Ohio County Regional Wastewater District	Ohio	165	67
		Totals:	7,769	3,290

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March, 2013



System Summary for Beaver Dam Municipal Water/Sewer

Permit ID	KYP000076	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	1,464
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	10	Total KISOP Sent (MG)	235.963
Cost Per 4000 Gallons	$40.03	Total KISOP Treated (MG)	-
Residential Customers	1,235	Total Treated (MG)	-
Commercial Customers	202	Number of Manholes	200
Institutional Customers	-	Number of Lift Stations	10
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 28.63 miles (Collection: 28.63 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Beaver Dam Municipal Water/Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21183012	Valley View Sewer Line Replacement	3-5 Years	Not Funded	$321,120	Ohio		6

System Summary for Centertown Water System

Permit ID	KYP000078	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	231
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	2	Total KISOP Sent (MG)	13.486
Cost Per 4000 Gallons	$38.36	Total KISOP Treated (MG)	-
Residential Customers	231	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	110
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 6.75 miles (Collection: 5.65 miles, Interceptors: 1.10 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Centertown Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21183016	Centertown Liftstation Rebuild Project	0-2 Years	Not Funded	$150,000	Ohio	3	1
SX21183007	Centertown Sewer Clean Out Machine Purchase Project	0-2 Years	Not Funded	$50,000	Ohio	34	5

System Summary for Fordsville Water District

Permit ID	KY0054801	Treats Wastewater	Yes, 0.13 MGD with 0.06 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	257
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$31.20	Total KISOP Treated (MG)	-
Residential Customers	241	Total Treated (MG)	28.981
Commercial Customers	8	Number of Manholes	161
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	8	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 6.68 miles (Collection: 6.64 miles, Interceptors: 0.05 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Fordsville Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21183015	Fordsville Wastewater System Improvement/Rehabilitation Project	0-2 Years	Not Funded	$753,450	Ohio	8	2

System Summary for Hartford Municipal Water Works

Permit ID	KYP000077	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	1,153
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	8	Total KISOP Sent (MG)	144.348
Cost Per 4000 Gallons	$45.54	Total KISOP Treated (MG)	-
Residential Customers	1,029	Total Treated (MG)	-
Commercial Customers	124	Number of Manholes	220
Institutional Customers	-	Number of Lift Stations	11
Industrial Customers	-	Percent Lines 20 yrs or Older	40%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 18.94 miles (Collection: 18.94 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hartford Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21183002	North 231 Sewer Extension Project	0-2 Years	Not Funded	$700,000	Ohio	23	3
SX21183014	Hartford Sewer Rehabilitation Project - Phase II	0-2 Years	Partially Funded	$2,002,000	Ohio		7

System Summary for Ohio County Regional Wastewater District

Permit ID	KY0105791	Treats Wastewater	Yes, 3.5 MGD with 1.6 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	3
Owner Type	Joint Sewer Agency	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$11.72	Total KISOP Treated (MG)	393.797
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	8
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	3	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 24.15 miles (Collection: 2.36 miles, Interceptors: 21.79 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Ohio County Regional Wastewater District

Union County

- 2010 census population of 15,007 (6,141 households) with 60% serviceable.
- Projected 2020 population of 14,436 (change of -571).
- Union County has 99.82 miles of existing sewer lines.
- 3.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- 3.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,520,162.
- Estimated funding needs for projects from 6 to 10 years: $3,710,000.



Union County has a 2010 census population count of 15,007 (6,141 households) with a projected 2020 population count of 14,436 (5,463 households). Public sewer is currently available to approximately 60 percent of the county's households based on 2010 census counts. Over the next ten years approximately 200 serviceable households will be added through the construction of 3.00 miles of sewer line extensions and approximately 7,261 instances of improved service through the rehabilitation of 4.00 miles of existing sewer lines and other appurtenances. 3.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Morganfield	4	$6,006,862	-	4,881	-	4.00	-
City of Sturgis	4	$5,123,300	200	1,200	3.00	-	3.00
City of Uniontown	2	$1,100,000	-	1,180	-	-	-
Totals:	**10**	**$12,230,162**	**200**	**7,261**	**3.00**	**4.00**	**3.00**

Public Wastewater Systems in Union County

Note: Serviceability counts are for households within Union county only.

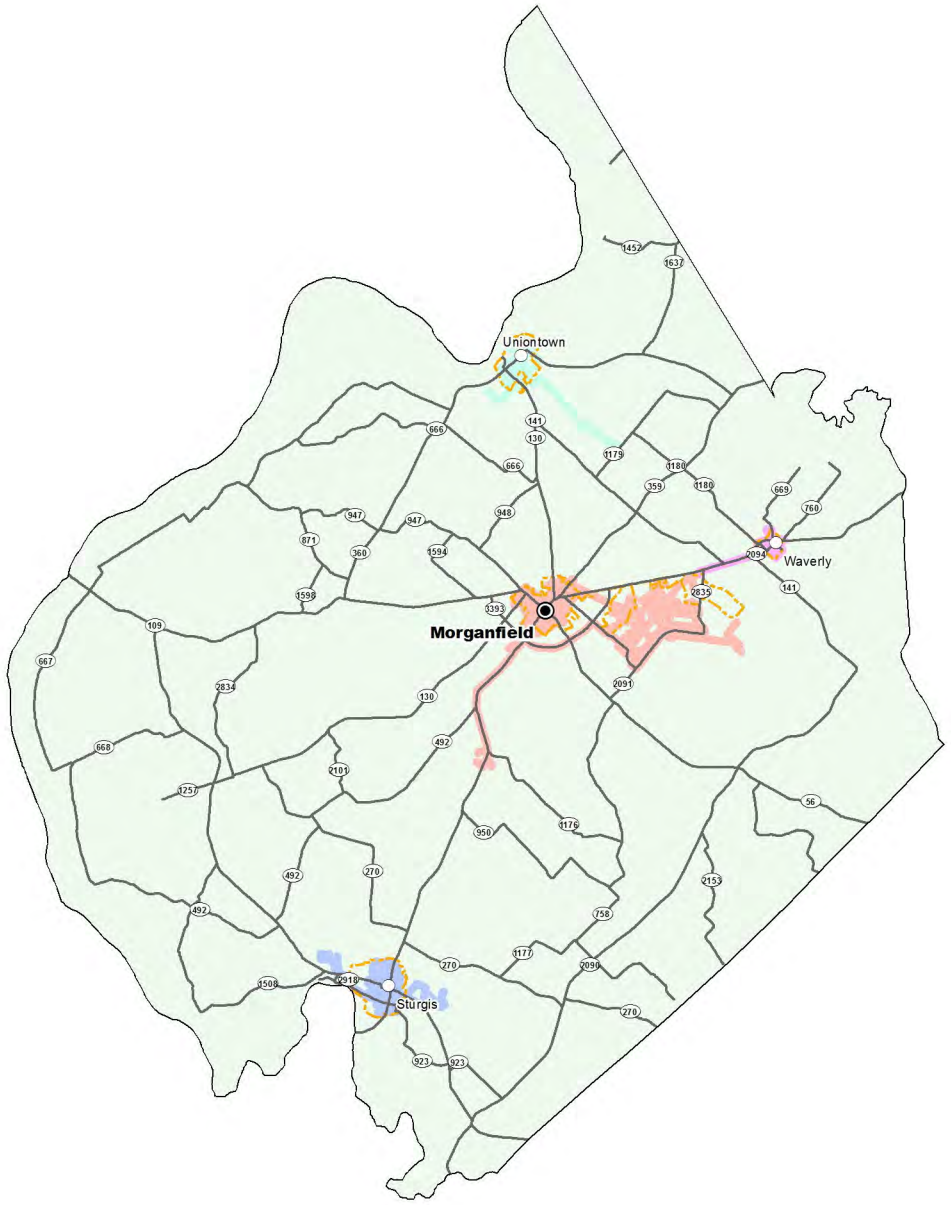
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021440	Morganfield Water Works	Union	5,755	2,006
KY0025895	Sturgis Water Works	Union	2,098	1,029
KY0025844	Uniontown Water/Sewer Department	Union	1,116	512
KYP000060	Waverly Wastewater Collection	Union	348	159
		Totals:	9,317	3,706

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March, 2013



System Summary for Morganfield Water Works

Permit ID	KY0021440	Treats Wastewater	Yes, 3.5 MGD with 1.8 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,086
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.00	Total KISOP Treated (MG)	6.000
Residential Customers	1,643	Total Treated (MG)	266.400
Commercial Customers	272	Number of Manholes	680
Institutional Customers	-	Number of Lift Stations	22
Industrial Customers	11	Percent Lines 20 yrs or Older	90%
KISOP Customers	1	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 60.38 miles (Collection: 57.35 miles, Interceptors: 3.03 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Morganfield Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21225024	Morganfield Combined Sewer Separation Project - Phase II	0-2 Years	Partially Funded	$1,954,062	Union	1	1
SX21225006	Camp Breckenridge Sewer Rehab	0-2 Years	Not Funded	$3,552,800	Union	27	4
SX21225016	Morganfield Old Digester Startup Project	0-2 Years	Not Funded	$250,000	Union		8
SX21225029	Morganfield Sewer Interceptors Project	0-2 Years	Partially Funded	$250,000	Union		9

System Summary for Sturgis Water Works

Permit ID	KY0025895	Treats Wastewater	Yes, 0.5 MGD with 0.41 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	763
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$43.26	Total KISOP Treated (MG)	-
Residential Customers	681	Total Treated (MG)	27.000
Commercial Customers	82	Number of Manholes	300
Institutional Customers	-	Number of Lift Stations	10
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 70% Constructed
Total Collection System Line Length = 19.35 miles (Collection: 19.22 miles, Interceptors: 0.13 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Sturgis Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21225012	Sturgis Wastewater Treatment Plant Upgrade	6-10 Years	Partially Funded	$2,710,000	Union	7	2
SX21225025	Winn Addition Sewer Expansion	0-2 Years	Not Funded	$1,883,300	Union	32	5
SX21225023	Individual Pump Stations for Unsewered Residents of Sturgis	0-2 Years	Not Funded	$115,000	Union		6
SX21225021	Grangertown Lift Station Rehab and Taylor (Camp) Road Lift Station Replacement	0-2 Years	Partially Funded	$415,000	Union		11

System Summary for Uniontown Water/Sewer Department

Permit ID	KY0025844	Treats Wastewater	Yes, 0.16 MGD with 0.09 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	554
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.95	Total KISOP Treated (MG)	-
Residential Customers	529	Total Treated (MG)	48.000
Commercial Customers	25	Number of Manholes	131
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	4	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 13.77 miles (Collection: 13.77 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Uniontown Water/Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21225015	Uniontown Lift Station Rebuilds	6-10 Years	Not Funded	$1,000,000	Union	26	3
SX21225022	Uniontown Lagoon Dredging	3-5 Years	Not Funded	$100,000	Union		7
SX21225028	Pine Street Storm Sewer Replacement	0-2 Years	Partially Funded	$117,521	Union		10

System Summary for Waverly Wastewater Collection

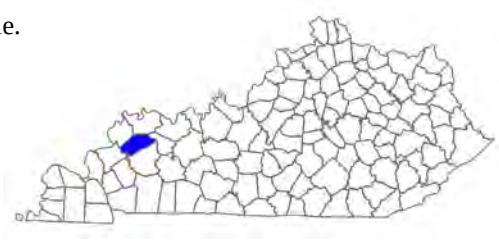
Permit ID	KYP000060	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	149
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	1	Total KISOP Sent (MG)	6.000
Cost Per 4000 Gallons	$32.40	Total KISOP Treated (MG)	-
Residential Customers	144	Total Treated (MG)	-
Commercial Customers	5	Number of Manholes	50
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 6.27 miles (Collection: 3.83 miles, Interceptors: 2.45 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Waverly Wastewater Collection

Webster County

- 2010 census population of 13,621 (5,936 households) with 47% serviceable.
- Projected 2020 population of 13,399 (change of -222).
- Webster County has 74.58 miles of existing sewer lines.
- 6.00 miles of line extensions proposed in the next 10 years.
- 9.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,255,750.
- Estimated funding needs for projects from 6 to 10 years: $6,936,500.



Webster County has a 2010 census population count of 13,621 (5,936 households) with a projected 2020 population count of 13,399 (5,292 households). Public sewer is currently available to approximately 47 percent of the county's households based on 2010 census counts. Over the next ten years approximately 246 serviceable households will be added through the construction of 6.00 miles of sewer line extensions and approximately 3,450 instances of improved service through the rehabilitation of 9.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Providence	4	$4,932,750	-	2,900	-	6.00	-
City of Sebree	2	$2,156,500	15	550	2.00	3.00	-
Webster County Fiscal Court	3	$5,103,000	231	-	4.00	-	-
Totals:	**9**	**$12,192,250**	**246**	**3,450**	**6.00**	**9.00**	**-**

Public Wastewater Systems in Webster County

Note: Serviceability counts are for households within Webster county only.

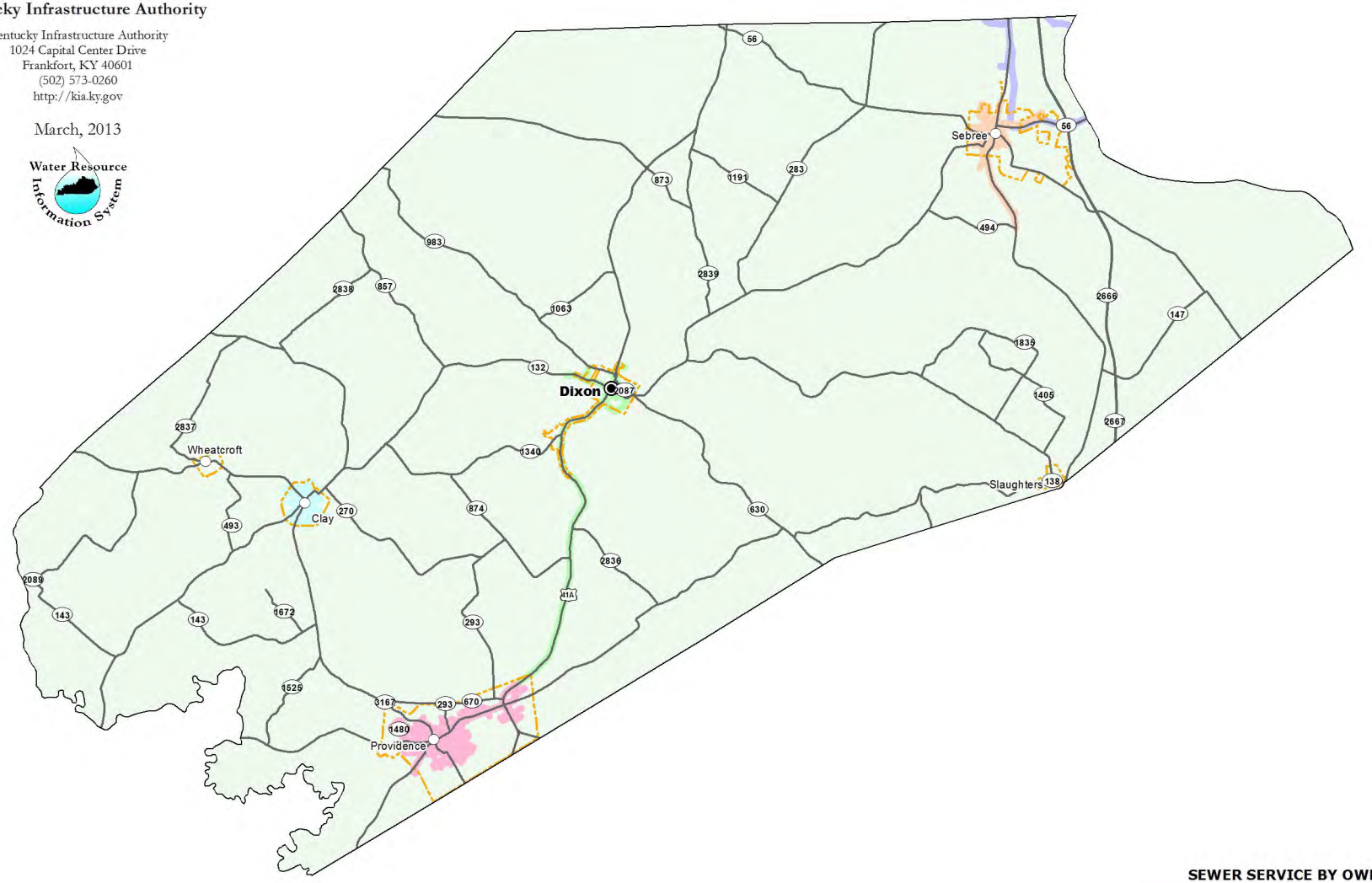
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0028096	Clay Water Works	Webster	1,198	520
KY0021296	Providence Water Works	Webster	2,868	1,447
KYP000054	Sebree Collection System	Webster	1,510	572
KYP000055	Webster County Sanitation District	Webster	822	277
		Totals:	6,398	2,816

SEWER SERVICE AREAS
WEBSTER COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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1024 Capital Center Drive
Frankfort, KY 40601
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March, 2013



System Summary for Clay Water Works

Permit ID	KY0028096	Treats Wastewater	Yes, 0.2 MGD with 0.176 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	488
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.06	Total KISOP Treated (MG)	-
Residential Customers	455	Total Treated (MG)	39.000
Commercial Customers	33	Number of Manholes	76
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	40%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 8.92 miles (Collection: 8.66 miles, Interceptors: 0.27 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Clay Water Works

System Summary for Providence Water Works

Permit ID	KY0021296	Treats Wastewater	Yes, 0.62 MGD with 0.4 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,300
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$20.67	Total KISOP Treated (MG)	24.600
Residential Customers	1,249	Total Treated (MG)	84.000
Commercial Customers	50	Number of Manholes	650
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	1	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 31.62 miles (Collection: 31.09 miles, Interceptors: 0.54 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Providence Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21233026	Providence Wastewater Treatment Plant Expansion	0-2 Years	Not Funded	$1,959,000	Webster	2	1
SX21233025	Providence Sanitary Sewer Upgrades	0-2 Years	Not Funded	$1,693,750	Webster	5	2
SX21233023	New Providence Area Sewer Project	6-10 Years	Not Funded	$1,200,000	Webster		6
SX21233021	Providence Aerobic Digester Aeration Improvement Project	6-10 Years	Not Funded	$80,000	Webster		8
SX21233018	Diamond Area Sewer Study	6-10 Years	Not Funded	$100,000	Webster		9

System Summary for Sebree Collection System

Permit ID	KYP000054	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	551
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	7	Total KISOP Sent (MG)	75.000
Cost Per 4000 Gallons	$35.43	Total KISOP Treated (MG)	-
Residential Customers	538	Total Treated (MG)	-
Commercial Customers	27	Number of Manholes	172
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 85% Constructed
Total Collection System Line Length = 13.51 miles (Collection: 13.51 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Sebree Collection System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21233020	Sebree I&I Sewer Rehab Project	3-5 Years	Not Funded	$1,215,000	Webster	6	3
SX21233024	Sebree Highway 370 Sewer Line Extension	6-10 Years	Not Funded	$941,500	Webster	31	5

System Summary for Webster County Sanitation District

Permit ID	KYP000055	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	410
Owner Type	Sewer and Sanitation District	KISOP Sender	Yes, to 1 receiver.
Employees	1	Total KISOP Sent (MG)	24.600
Cost Per 4000 Gallons	$36.72	Total KISOP Treated (MG)	-
Residential Customers	356	Total Treated (MG)	-
Commercial Customers	54	Number of Manholes	170
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 13.86 miles (Collection: 6.18 miles, Interceptors: 7.68 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Webster County Sanitation District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21233001	Webster County Sanitation Expansion Project	6-10 Years	Not Funded	$4,615,000	Webster	29	4
SX21233007	Dixon Sewer to Pioneer Plastics	3-5 Years	Not Funded	$388,000	Webster		7

Gateway Area Development District (GWADD)



- 2010 census population of 81,652 (36,780 households) with 41% serviceable.
- Projected 2020 population of 87,651 (change of 5,999).
- 355.85 miles of existing sewer lines.
- 23.00 miles of line extensions proposed in the next 10 years.
- 6.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $17,741,914.
- Estimated funding needs for projects from 6 to 10 years: $1,695,089.
- Average age of wastewater treatment plants is 23 years.
- Total number of interconnected systems is 0.
- 63 miles of sewer lines less than 15 years old.
- 204 miles of sewer lines between 15 and 30 years old.
- 70 miles of sewer lines between 31 and 50 years old.
- 22 miles of sewer lines between 51 and 70 years old.
- 0 miles of sewer lines greater than 70 years old.

Gateway Area Development District has a 2010 census population count of 81,652 (36,780 households) with a projected 2020 population count of 87,651 (34,583 households). Public sewer is currently available to approximately 41 percent of the district's households based on 2010 census counts. Over the next ten years approximately 388 serviceable households will be added through the construction of 23.00 miles of sewer line extensions and approximately 42,550 instances of improved service through the rehabilitation of 6.00 miles of existing sewer lines and other appurtenances.

County Summary for Gateway Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Bath	11,591	5,405	12,132	5,006	1,758	33%	$ 6,196,164
Menifee	6,306	3,744	6,038	2,422	572	15%	$ 5,265,250
Montgomery	26,499	11,699	30,750	12,483	6,271	54%	$ 3,225,589
Morgan	13,923	5,830	14,023	5,126	850	15%	$ 750,000
Rowan	23,333	10,102	24,708	9,546	5,748	57%	$ 4,000,000
Totals	**81,652**	**36,780**	**87,651**	**34,583**	**15,199**	**41%**	**$ 19,437,003**

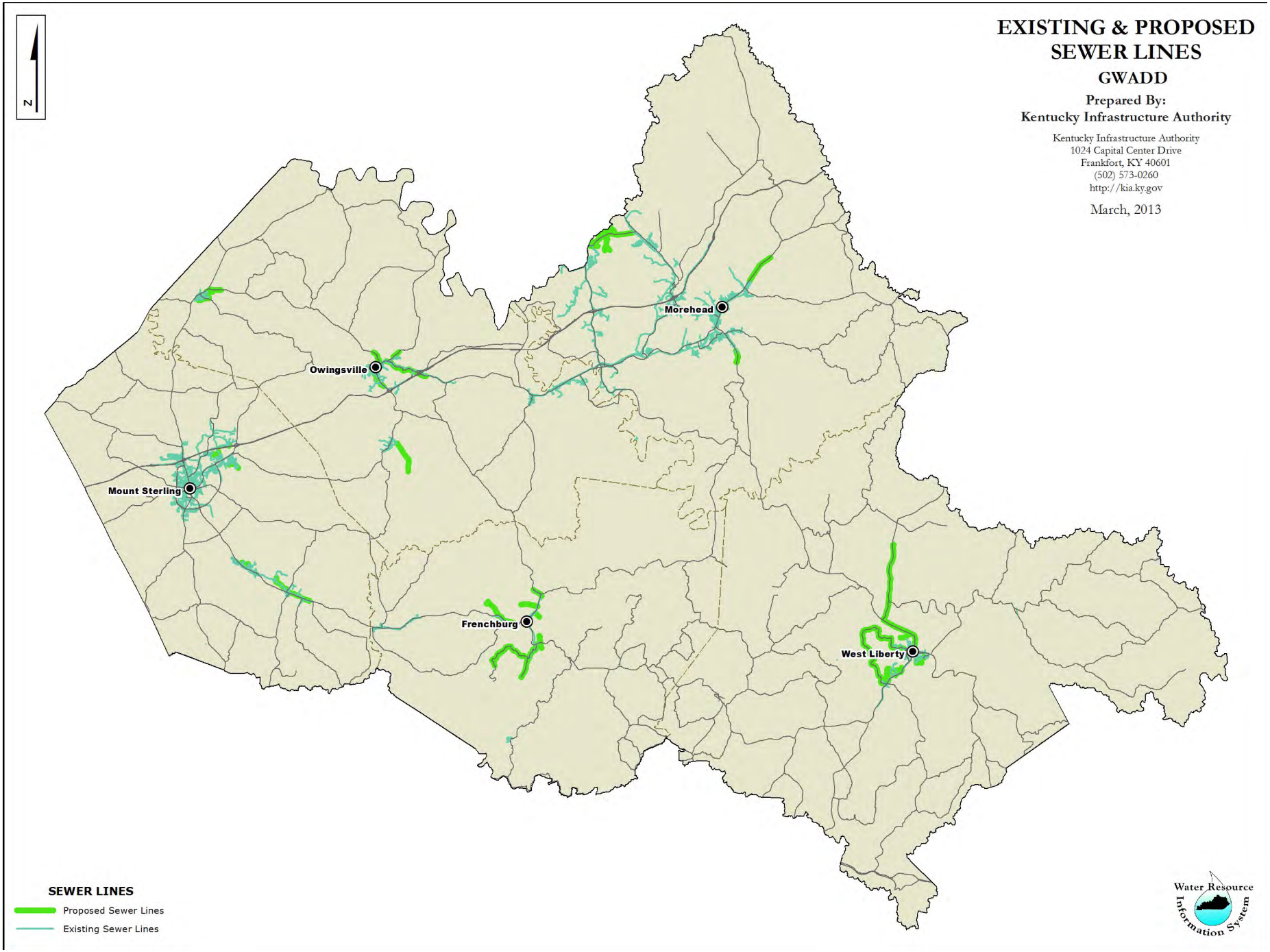
EXISTING & PROPOSED SEWER LINES

GWADD

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March, 2013



Public Sewer Systems in the Gateway Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KIA011001	Bath County Sanitation District	Bath	153	72
KY0024287	Owingsville Water and Sewer	Bath	1,995	992
KY0088421	Sharpsburg Sewer	Bath	392	229
KY0040584	Frenchburg Water and Sewer	Menifee	719	387
KY0100901	Menifee County Sanitation District # 1	Menifee	420	177
KY0069736	Montgomery County Sanitation Dist #2	Montgomery	1,767	791
KY0104400	Mount Sterling Water and Sewer System	Montgomery	11,882	5,480
KY0089567	West Liberty Sewer	Morgan	3,566	850
KY0052752	Morehead Utility Plant Board	Rowan	15,139	6,259
		Totals:	36,033	15,237

Gateway Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Extend Services to Unserved Areas**

Discussion of Area Development District Needs:

There are nine wastewater systems that serve Gateway Area Development District. Each wastewater utility in the Gateway ADD was provided with the opportunity to identify the needs for the system. The needs of every system were considered in the determination of the Gateway Area Development District's primary and secondary Clean Water needs.

The District's primary Clean Water need is Repair/Replace Existing Infrastructure. This was the primary need of every planning unit in the Gateway ADD with the exception of the Menifee County Planning Unit. The wastewater systems in the region have identified this as a Clean Water need for a variety of reasons. Some areas of the region's sewer infrastructure have been damaged as a result of severe weather events, some portions of the aging infrastructure need to be replaced to prevent pipe bursts, and other portions of the existing infrastructure need to be replaced because the current lines, lift stations, etc. are at/near capacity.

Extend Services to Unserved Areas is the secondary Clean Water need in the Gateway Area Development District. This was identified as the secondary need in three of the planning units and mentioned as an additional need in a forth planning unit. While urbanized areas and the larger communities in the Gateway Area Development District have sewer infrastructure, there are large portions of the region that do not. Over 60% of the region's population is not served by a wastewater system.

Additional needs that were identified for the region are Economic Stimulation for areas that cannot currently support potential industrial development. New Collector Sewer and Appurtenances and Sanitary Sewer Overflow Correction were also identified by some of the planning units and individual systems as Clean Water needs in the District.

Description and Determination of Planning Units:

The Gateway Area Development District is divided into five planning units which are: Bath County, Menifee County, Montgomery County, Morgan County, and Rowan County. These planning units follow the political county boundaries.

There are three wastewater systems in Bath County. Two of the systems in the Bath County Planning Unit are municipalities (City of Owingsville Water and Sewer and City of Sharpsburg Sewer) and the other is a sanitation district (Bath County Sanitation District). The systems in the Bath County Planning Unit have combined connection count of 939 total connections (residential, commercial, industrial, etc.).

The Menifee County Planning Unit has two systems; one municipality (City of Frenchburg Water and Sewer) and one sanitation district (Menifee County Sanitation District #1). The systems in the Menifee County Planning Unit have combined connection count of 368 total connections (residential, commercial, industrial, etc.).

The Montgomery County Planning Unit also has two systems; one municipality (Mt. Sterling Water and Sewer) and one sanitation district (Montgomery County Sanitation District #2). The systems in the Montgomery County Planning Unit have combined connection count of 5,652 total connections (residential, commercial, industrial, etc.).

The Morgan and Rowan County Planning Units each have one municipal wastewater system (Morgan County - City of West Liberty Water and Sewer; Rowan County - Morehead Utility Plant Board). Morgan County's total connection count is 566 (residential, commercial, industrial, etc.). Rowan County's total connection count is 5,181 (residential, commercial, industrial, etc.)

Gateway Area Development District
Project Ranking Methodology

The Gateway Area Water Management Council prioritizes projects based on points. Points are given under the following categories: Project Impact and Project Status.

Project Impact

Under this category, points are awarded based on the regional needs met by the project, the scope of impact, and the delivery of the project. Regional needs are based on the Regional Needs Assessment and projects are warded points based upon which regional need is met. Each regional need has a point value established by the Water Management Council. The scope of impact includes the impact of the project to un-served households, underserved households, and economic stimulation. Un-served households are homes that currently do not have public water/wastewater service available to them. Underserved households are homes that have public water/wastewater service, but the completion of the proposed project will improve service and/or quality to said areas in the utility's system. Points are allocated to the economic stimulation group based on the number of jobs the completed project will create. The more households and jobs that a project affects/creates, the more points the project is given. Projects that have more than one scope can receive an additional 5 points and other unlisted project scopes can receive 5 points - maximum points possible for project scope is 20 points. Project Delivery is allotted 20 points for a regional project and 5 points for a non-regional project. A regional project affects more than one utility.

Project Status

Under this category, points are awarded based on project development, commitment of funds, project timeline, and funding type. For project development, projects are given 5 points for preliminary planning, 10 points for attaining a cost estimate from a project engineer or for procuring an engineer for the project, 15 points if a preliminary engineering report is completed, or 20 points if engineering plans and specs have been completed and submitted to Division of Water. The maximum value of point awarded for commitment of funds is 20 points for projects with more than 50% of the total project cost committed - projects with 25-49% of project funds receive 10 points and projects with less than 25% of project funds committed or with pending applications receive 5 points. Projects with a timeline that is more than 10 years receive 5 points, project scheduled for 6-10 years receive 10 points, and project that will take place in 5 years or less receive 20 points. Finally, projects are awarded points based on the type of anticipated funding - projects that will utilize 100% loan funding receive 20 points, projects that will utilize both loan and grant funding receive 10 points, and projects that will only utilize grant funds receive 5 points.

The category totals are added together for a maximum of 140 points possible. The higher the cumulative total, the higher the project is ranked. For projects with the same overall point total, a cost per connection tie breaker is utilized. The cost per connection tie breaker is calculated using the estimated project cost divided by the total number of households the project will affect. The lower the cost per connection, the higher ranking the project receives.

All profiled projects that are submitted to the Water Management Council are prioritized and receive both a county and regional ranking. The prioritization of the projects is based on the points allocated during the ranking process.

Project Rankings For Gateway Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21175013	City of West Liberty Liberty Road Sewer Extension	3-5 Years	Over Funded	$3,257,940	Morgan	1	1
SX21011022	Industrial Park WWTP Expansion	0-2 Years	Not Funded	$2,605,780	Bath	2	1
SX21205033	Morehead Utility Plant Board Phase 5 Inflow and Infiltration Sew	3-5 Years	Not Funded	$500,000	Rowan	3	1
SX21205029	Sunnybrook Development Sewer Line Extension	3-5 Years	Not Funded	$1,000,000	Rowan	4	2
SX21205035	Morehead Utility Plant Board 519 Sewer Extension	3-5 Years	Not Funded	$500,000	Rowan	5	3
SX21011002	City of Owingsville Lagoon System Cleaning Project	3-5 Years	Not Funded	$700,000	Bath	6	2
SX21165015	City of Frenchburg Bryant Lane/Shotgun Hollow Sewer Line Extension Project	3-5 Years	Not Funded	$650,250	Menifee	7	1
SX21205036	KY 801 and KY 158 Sewer Extension Project	3-5 Years	Not Funded	$1,500,000	Rowan	8	4
SX21011017	City of Owingsville KY 36 North Sewer Extension	3-5 Years	Not Funded	$563,284	Bath	9	3
SX21165007	City of Frenchburg McCausey/Amos Ridge Extension Project	3-5 Years	Not Funded	$4,000,000	Menifee	10	2
SX21205037	Morehead Utility Plant Board Administrative Software Upgrade	3-5 Years	Not Funded	$250,000	Rowan	11	5
SX21165019	City of Frenchburg Tolan Road Sewer Extension Project	11-20 Years	Not Funded	$92,560	Menifee	12	9
SX21011015	City of Owingsville Wyoming Road Sewer Line Extension	3-5 Years	Not Funded	$225,000	Bath	13	8
SX21011007	City of Sharpsburg Oaklawn Line Extension Project	3-5 Years	Not Funded	$882,100	Bath	14	4
SX21165020	City of Frenchburg Miscellaneous Sewer Extension Project	3-5 Years	Not Funded	$455,000	Menifee	15	4
SX21173027	Mount Sterling Water and Sewer SCADA System Replacement Project	3-5 Years	Not Funded	$45,000	Montgomery	16	1
SX21173066	Montgomery County Sanitation Dist #2 Boom and Clarifier Weirs Replacement Project	3-5 Years	Not Funded	$75,000	Montgomery	17	2
SX21173033	Montgomery County Sanitation District No. 2 Head Works Screen Pr	3-5 Years	Not Funded	$200,000	Montgomery	18	3
SX21173034	Montgomery County Sanitation District No. 2 Pump Station Upgrade	3-5 Years	Not Funded	$510,000	Montgomery	19	4
SX21205031	MUPB Residential Grinder Replacement Project	3-5 Years	Not Funded	$250,000	Rowan	20	6
SX21175010	City of West Liberty System Sewer Line Replacement Project	6-10 Years	Not Funded	$750,000	Morgan	21	2
SX21011018	Bath County Sanitation District Preston Sewer Project Phase II	3-5 Years	Not Funded	$470,000	Bath	22	5
SX21173063	Montgomery County Sanitation District No. 2 Sludge Holding Tank	6-10 Years	Not Funded	$170,089	Montgomery	23	5
SX21173024	Montgomery County Sanitation District No. 2 Pump Station No. 5 P	3-5 Years	Not Funded	$267,000	Montgomery	24	6
SX21173010	Montgomery Co. Sanitation Dist.#2 Pump Station and Line Upgrade	3-5 Years	Not Funded	$464,000	Montgomery	25	7
SX21011016	City of Owingsville Slate Avenue Pipe Bursting Project	3-5 Years	Not Funded	$590,000	Bath	26	6
SX21165017	Menifee County Sanitation District No. 1 Equalization Basin	11-20 Years	Not Funded	$750,000	Menifee	27	5
SX21011020	City of Owingsville Sewer Extension to Remaining Unserved In Cit	3-5 Years	Not Funded	$100,000	Bath	28	7
SX21173023	Mt. Sterling Water & Sewer Long Wood Tie In Project	3-5 Years	Not Funded	$275,000	Montgomery	29	8
SX21173014	Mt. Sterling Water & Sewer System Manhole Rehab Project	11-20 Years	Not Funded	$625,000	Montgomery	30	9
SX21173049	Mt. Sterling Water & Sewer Woodford Drive Lift Station Upgrade P	6-10 Years	Not Funded	$100,000	Montgomery	31	10
SX21173051	Mt. Sterling Water & Sewer Doe Run Lift Station Upgrade	3-5 Years	Not Funded	$85,000	Montgomery	33	11

Project Rankings For Gateway Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21173052	Mt. Sterling Water & Sewer Spencer Road Lift Station Upgrade	3-5 Years	Not Funded	$85,000	Montgomery	34	12
SX21173053	Mt. Sterling Water & Sewer Alliance Acres Lift Station Upgrade	3-5 Years	Not Funded	$85,000	Montgomery	35	13
SX21173054	Mt. Sterling Water & Sewer LMS Pump Station Elimination	3-5 Years	Not Funded	$100,000	Montgomery	36	14
SX21173017	Mt. Sterling Water & Sewer Portable Diesel Pump Project	3-5 Years	Not Funded	$75,000	Montgomery	37	15
SX21173046	Montgomery County Sanitation District Upgrade Chlorine Room At W	0-2 Years	Not Funded	$14,500	Montgomery	38	16
SX21173048	Montgomery County Sanitation District No. 2 Phosphate Reduction	3-5 Years	Not Funded	$100,000	Montgomery	39	17
SX21173055	Mt. Sterling Water & Sewer I&I Study and Repair Project	11-20 Years	Not Funded	$1,000,000	Montgomery	40	18
SX21165021	City of Frenchburg I & I Analysis Project	3-5 Years	Not Funded	$60,000	Menifee	41	6
SX21173050	Mt. Sterling Water & Sewer Arlington Avenue Lift Station Upgrade	6-10 Years	Not Funded	$175,000	Montgomery	42	29
SX21173056	Mt. Sterling Water & Sewer System Mapping Project	6-10 Years	Not Funded	$225,000	Montgomery	43	20
SX21173015	Mt. Sterling Water & Sewer Eastland Heights Lift Station Upgrade	6-10 Years	Not Funded	$75,000	Montgomery	44	21
SX21011019	Bath County Sanitation District Valve and Riser Lid Replacement	0-2 Years	Not Funded	$60,000	Bath	45	9
SX21173062	Montgomery County Sanitation District No. 2 Combo Vac Truck Proj	6-10 Years	Not Funded	$100,000	Montgomery	46	22
SX21165014	Menifee County Sanitation District System Improvement Project Phase 2	6-10 Years	Not Funded	$100,000	Menifee	47	7
			Total Cost:	**$25,162,503**			

Bath County

- 2010 census population of 11,591 (5,405 households) with 33% serviceable.
- Projected 2020 population of 12,132 (change of 541).
- Bath County has 50.17 miles of existing sewer lines.
- 6.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,196,164.
- There are no projects planned from 6 to 10 years.



Bath County has a 2010 census population count of 11,591 (5,405 households) with a projected 2020 population count of 12,132 (5,006 households). Public sewer is currently available to approximately 33 percent of the county's households based on 2010 census counts. Over the next ten years approximately 124 serviceable households will be added through the construction of 6.00 miles of sewer line extensions and approximately 1,407 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Bath County Sanitation District	2	$530,000	50	130	2.00	-	-
City of Owingsville	6	$4,784,064	37	1,277	2.00	1.00	-
City of Sharpsburg	1	$882,100	37	-	2.00	-	-
Totals:	**9**	**$6,196,164**	**124**	**1,407**	**6.00**	**1.00**	**-**

Public Wastewater Systems in Bath County

Note: Serviceability counts are for households within Bath county only.

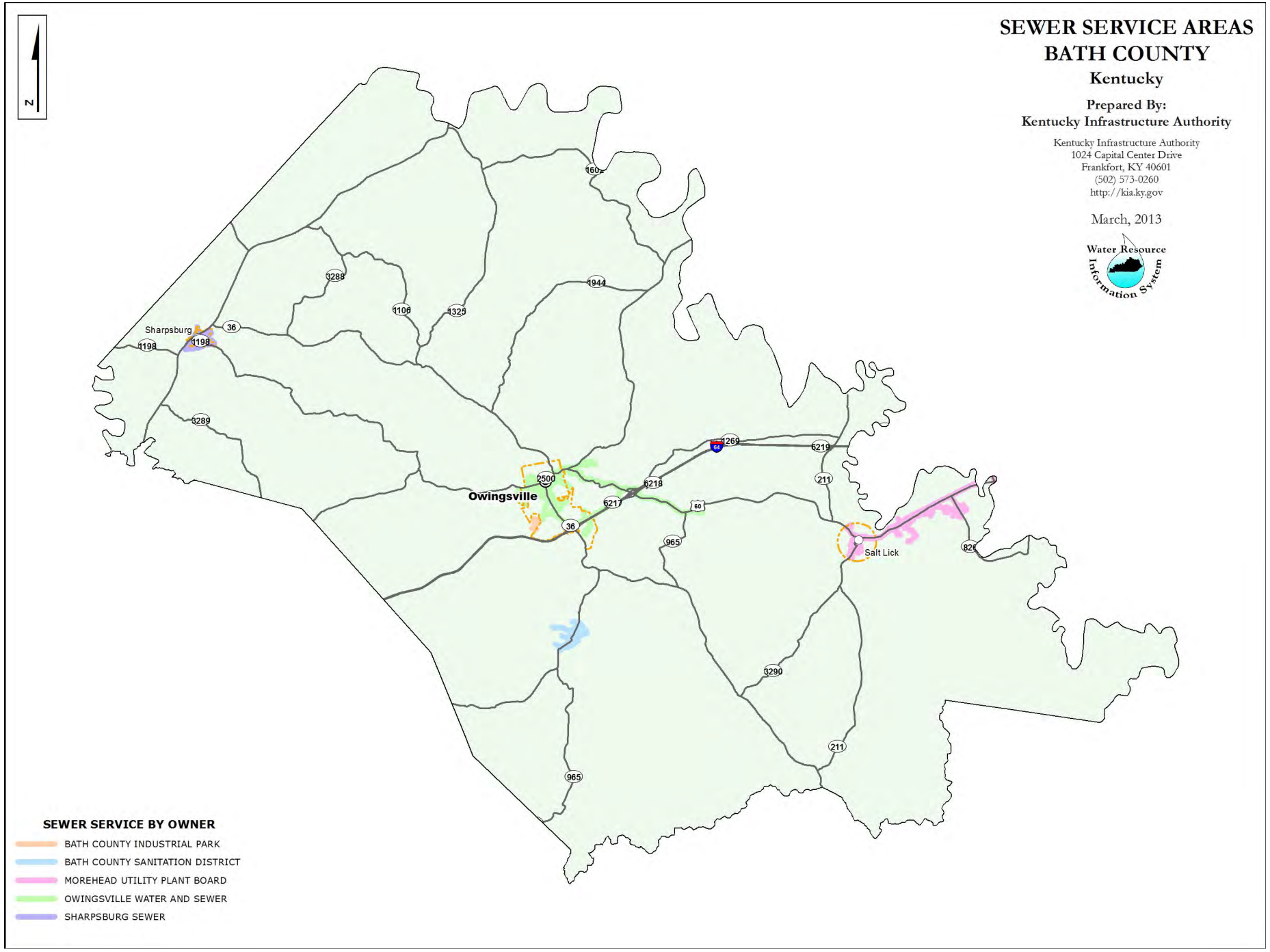
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KIA011001	Bath County Sanitation District	Bath	153	72
KY0024287	Owingsville Water and Sewer	Bath	1,995	992
KY0088421	Sharpsburg Sewer	Bath	392	229
KY0052752	Morehead Utility Plant Board	Rowan	884	456
		Totals:	3,424	1,749

SEWER SERVICE AREAS
BATH COUNTY
Kentucky

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March, 2013



System Summary for Bath County Sanitation District

Permit ID	KIA011001	Treats Wastewater	No
System Type	KIA Non-Permitted	Total Connections	84
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$25.00	Total KISOP Treated (MG)	-
Residential Customers	75	Total Treated (MG)	3.103
Commercial Customers	9	Number of Manholes	75
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 4.46 miles (Collection: 3.61 miles, Interceptors: 0.85 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bath County Sanitation District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21011018	Bath County Sanitation District Preston Sewer Project Phase II	3-5 Years	Not Funded	$470,000	Bath	22	5
SX21011019	Bath County Sanitation District Valve and Riser Lid Replacement	0-2 Years	Not Funded	$60,000	Bath	45	9

System Summary for Owingsville Water and Sewer

Permit ID	KY0024287	Treats Wastewater	Yes, 0.22 MGD with 0.215 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	915
Owner Type	Incorporated City	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.78	Total KISOP Treated (MG)	-
Residential Customers	818	Total Treated (MG)	78.475
Commercial Customers	80	Number of Manholes	160
Institutional Customers	14	Number of Lift Stations	22
Industrial Customers	3	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 23.19 miles (Collection: 20.80 miles, Interceptors: 2.39 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Owingsville Water and Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21011002	City of Owingsville Lagoon System Cleaning Project	3-5 Years	Not Funded	$700,000	Bath	6	2
SX21011017	City of Owingsville KY 36 North Sewer Extension	3-5 Years	Not Funded	$563,284	Bath	9	3
SX21011015	City of Owingsville Wyoming Road Sewer Line Extension	3-5 Years	Not Funded	$225,000	Bath	13	8
SX21011016	City of Owingsville Slate Avenue Pipe Bursting Project	3-5 Years	Not Funded	$590,000	Bath	26	6
SX21011020	City of Owingsville Sewer Extension to Remaining Unserved In Cit	3-5 Years	Not Funded	$100,000	Bath	28	7

System Summary for Sharpsburg Sewer

Permit ID	KY0088421	Treats Wastewater	Yes, 0.07 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	179
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$28.82	Total KISOP Treated (MG)	-
Residential Customers	170	Total Treated (MG)	12.770
Commercial Customers	9	Number of Manholes	110
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	20%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 4.59 miles (Collection: 3.89 miles, Interceptors: 0.71 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Sharpsburg Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21011007	City of Sharpsburg Oaklawn Line Extension Project	3-5 Years	Not Funded	$882,100	Bath	14	4

Menifee County

- 2010 census population of 6,306 (3,744 households) with 15% serviceable.
- Projected 2020 population of 6,038 (change of -268).
- Menifee County has 15.58 miles of existing sewer lines.
- 8.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,165,250.
- Estimated funding needs for projects from 6 to 10 years: $100,000.



Menifee County has a 2010 census population count of 6,306 (3,744 households) with a projected 2020 population count of 6,038 (2,422 households). Public sewer is currently available to approximately 15 percent of the county's households based on 2010 census counts. Over the next ten years approximately 95 serviceable households will be added through the construction of 8.00 miles of sewer line extensions and approximately 495 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Frenchburg	4	$5,165,250	95	387	8.00	-	-
Menifee County Sanitation District #1	1	$100,000	-	108	-	-	-
Totals:	**5**	**$5,265,250**	**95**	**495**	**8.00**	**-**	**-**

Public Wastewater Systems in Menifee County

Note: Serviceability counts are for households within Menifee county only.

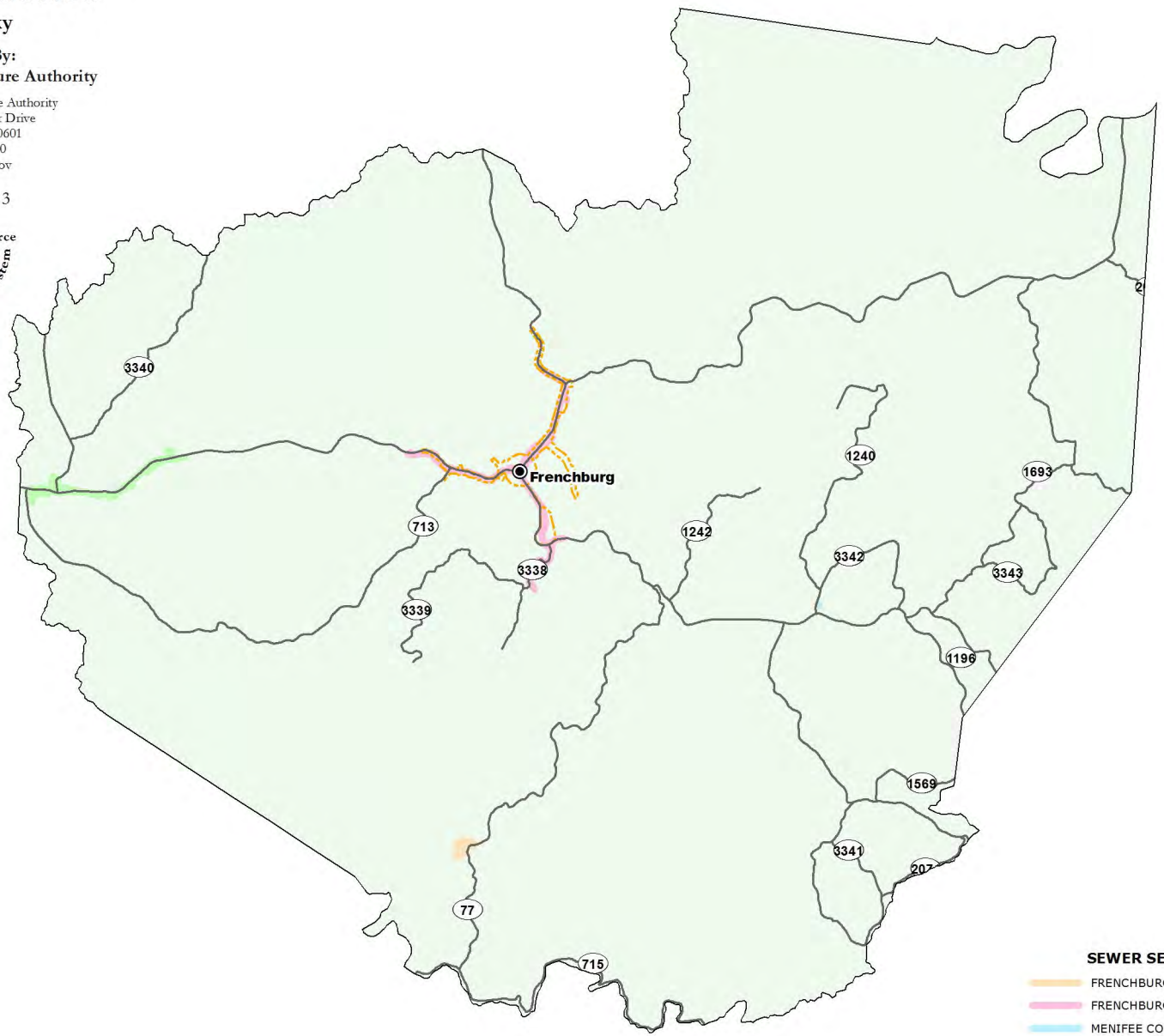
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0040584	Frenchburg Water and Sewer	Menifee	719	387
KY0100901	Menifee County Sanitation District # 1	Menifee	420	177
		Totals:	1,139	564

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System Summary for Frenchburg Water and Sewer

Permit ID	KY0040584	Treats Wastewater	Yes, 0.22 MGD with 0.156 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	192
Owner Type	Incorporated City	KISOP Sender	No
Employees	7	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	141	Total Treated (MG)	56.975
Commercial Customers	49	Number of Manholes	150
Institutional Customers	2	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 8.80 miles (Collection: 8.70 miles, Interceptors: 0.09 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Frenchburg Water and Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21165015	City of Frenchburg Bryant Lane/Shotgun Hollow Sewer Line Extension Project	3-5 Years	Not Funded	$650,250	Menifee	7	1
SX21165007	City of Frenchburg McCausey/Amos Ridge Extension Project	3-5 Years	Not Funded	$4,000,000	Menifee	10	2
SX21165020	City of Frenchburg Miscellaneous Sewer Extension Project	3-5 Years	Not Funded	$455,000	Menifee	15	4
SX21165021	City of Frenchburg I & I Analysis Project	3-5 Years	Not Funded	$60,000	Menifee	41	6

System Summary for Menifee County Sanitation District # 1

Permit ID	KY0100901	Treats Wastewater	Yes, 0.045 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	116
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$25.00	Total KISOP Treated (MG)	-
Residential Customers	110	Total Treated (MG)	10.950
Commercial Customers	2	Number of Manholes	63
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	4	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 5.79 miles (Collection: 5.66 miles, Interceptors: 0.14 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Menifee County Sanitation District # 1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21165014	Menifee County Sanitation District System Improvement Project Phase 2	6-10 Years	Not Funded	$100,000	Menifee	47	7

Montgomery County

- 2010 census population of 26,499 (11,699 households) with 54% serviceable.
- Projected 2020 population of 30,750 (change of 4,251).
- Montgomery County has 111.10 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,380,500.
- Estimated funding needs for projects from 6 to 10 years: $845,089.



Montgomery County has a 2010 census population count of 26,499 (11,699 households) with a projected 2020 population count of 30,750 (12,483 households). Public sewer is currently available to approximately 54 percent of the county's households based on 2010 census counts. Over the next ten years approximately 31,914 instances of improved service through the rehabilitation of 3.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Montgomery County Sanitation District #2	9	$1,900,589	-	5,895	-	2.00	-
Mount Sterling Water and Sewer	11	$1,325,000	-	26,019	-	1.00	-
Totals:	**20**	**$3,225,589**	**-**	**31,914**	**-**	**3.00**	**-**

Public Wastewater Systems in Montgomery County

Note: Serviceability counts are for households within Montgomery county only.

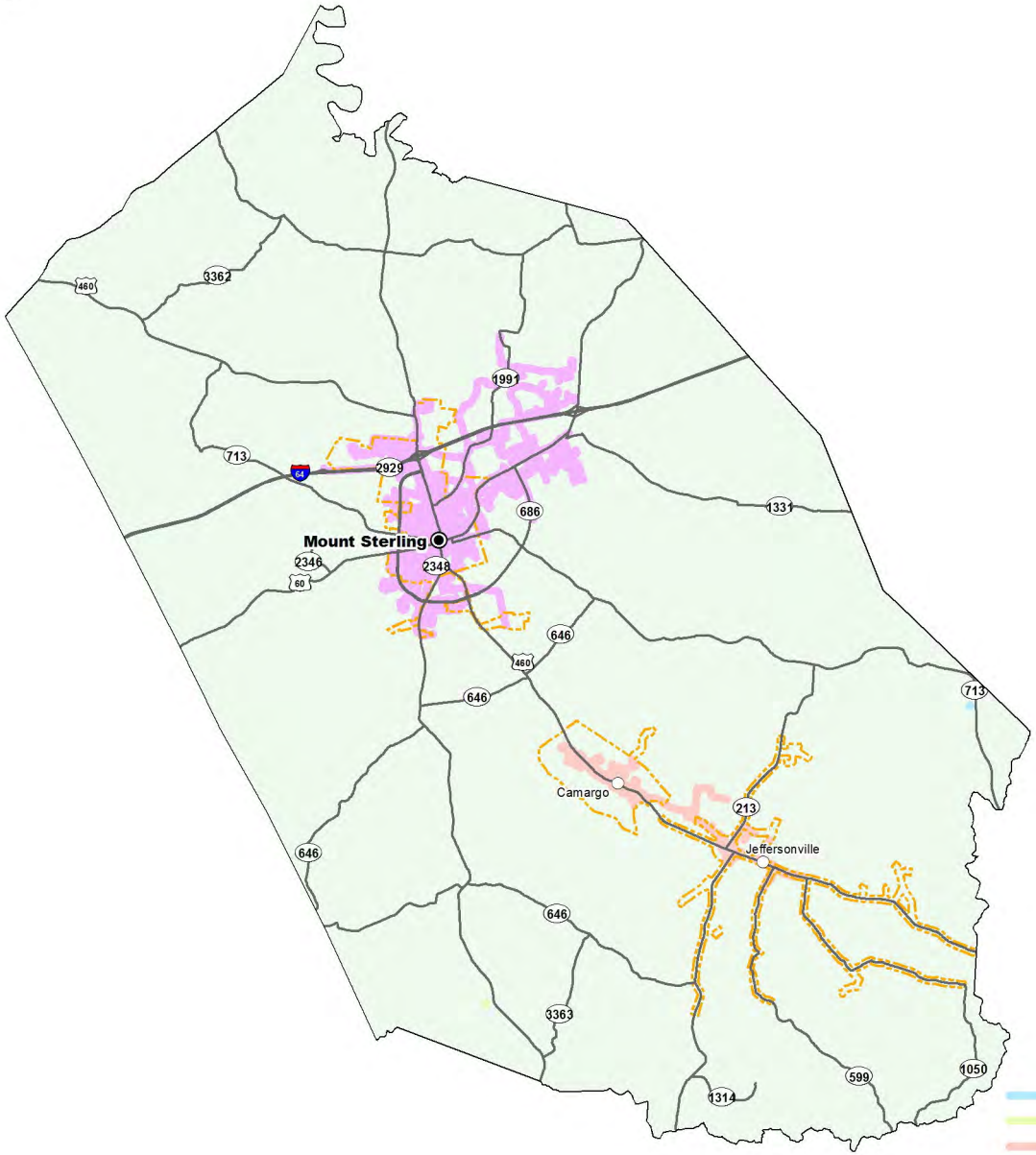
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0069736	Montgomery County Sanitation Dist #2	Montgomery	1,767	791
KY0104400	Mount Sterling Water and Sewer System	Montgomery	11,882	5,480
		Totals:	13,649	6,271

SEWER SERVICE AREAS
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System Summary for Montgomery County Sanitation Dist #2

Permit ID	KY0069736	Treats Wastewater	Yes, 0.28 MGD with 0.131 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	651
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$35.01	Total KISOP Treated (MG)	-
Residential Customers	620	Total Treated (MG)	47.815
Commercial Customers	30	Number of Manholes	273
Institutional Customers	-	Number of Lift Stations	20
Industrial Customers	1	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 95% Constructed
Total Collection System Line Length = 17.67 miles (Collection: 16.09 miles, Interceptors: 1.58 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Montgomery County Sanitation Dist #2

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21173066	Montgomery County Sanitation Dist #2 Boom and Clarifier Weirs Replacement Project	3-5 Years	Not Funded	$75,000	Montgomery	17	2
SX21173033	Montgomery County Sanitation District No. 2 Head Works Screen Pr	3-5 Years	Not Funded	$200,000	Montgomery	18	3
SX21173034	Montgomery County Sanitation District No. 2 Pump Station Upgrade	3-5 Years	Not Funded	$510,000	Montgomery	19	4
SX21173063	Montgomery County Sanitation District No. 2 Sludge Holding Tank	6-10 Years	Not Funded	$170,089	Montgomery	23	5
SX21173024	Montgomery County Sanitation District No. 2 Pump Station No. 5 P	3-5 Years	Not Funded	$267,000	Montgomery	24	6
SX21173010	Montgomery Co. Sanitation Dist.#2 Pump Station and Line Upgrade	3-5 Years	Not Funded	$464,000	Montgomery	25	7
SX21173046	Montgomery County Sanitation District Upgrade Chlorine Room At W	0-2 Years	Not Funded	$14,500	Montgomery	38	16
SX21173048	Montgomery County Sanitation District No. 2 Phosphate Reduction	3-5 Years	Not Funded	$100,000	Montgomery	39	17
SX21173062	Montgomery County Sanitation District No. 2 Combo Vac Truck Proj	6-10 Years	Not Funded	$100,000	Montgomery	46	22

System Summary for Mount Sterling Water and Sewer System

Permit ID	KY0104400	Treats Wastewater	Yes, 3 MGD with 1.85 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	4,722
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	34	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$24.65	Total KISOP Treated (MG)	-
Residential Customers	4,114	Total Treated (MG)	715.689
Commercial Customers	571	Number of Manholes	3421
Institutional Customers	9	Number of Lift Stations	16
Industrial Customers	28	Percent Lines 20 yrs or Older	55%
KISOP Customers	-	Has Facility Plan	Yes, 20% Constructed

Total Collection System Line Length = 93.40 miles (Collection: 89.66 miles, Interceptors: 3.74 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mount Sterling Water and Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21173027	Mount Sterling Water and Sewer SCADA System Replacement Project	3-5 Years	Not Funded	$45,000	Montgomery	16	1
SX21173023	Mt. Sterling Water & Sewer Long Wood Tie In Project	3-5 Years	Not Funded	$275,000	Montgomery	29	8
SX21173049	Mt. Sterling Water & Sewer Woodford Drive Lift Station Upgrade P	6-10 Years	Not Funded	$100,000	Montgomery	31	10
SX21173051	Mt. Sterling Water & Sewer Doe Run Lift Station Upgrade	3-5 Years	Not Funded	$85,000	Montgomery	33	11
SX21173052	Mt. Sterling Water & Sewer Spencer Road Lift Station Upgrade	3-5 Years	Not Funded	$85,000	Montgomery	34	12
SX21173053	Mt. Sterling Water & Sewer Alliance Acres Lift Station Upgrade	3-5 Years	Not Funded	$85,000	Montgomery	35	13
SX21173054	Mt. Sterling Water & Sewer LMS Pump Station Elimination	3-5 Years	Not Funded	$100,000	Montgomery	36	14
SX21173017	Mt. Sterling Water & Sewer Portable Diesel Pump Project	3-5 Years	Not Funded	$75,000	Montgomery	37	15
SX21173050	Mt. Sterling Water & Sewer Arlington Avenue Lift Station Upgrade	6-10 Years	Not Funded	$175,000	Montgomery	42	29
SX21173056	Mt. Sterling Water & Sewer System Mapping Project	6-10 Years	Not Funded	$225,000	Montgomery	43	20
SX21173015	Mt. Sterling Water & Sewer Eastland Heights Lift Station Upgrade	6-10 Years	Not Funded	$75,000	Montgomery	44	21

System Summary for Old Silo Golf Course & Retirement Community

Permit ID	05016028	Treats Wastewater	No
System Type	DOW Non-Discharge (KNDOP)	Total Connections	-
Owner Type		KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No

Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Old Silo Golf Course & Retirement Community

Morgan County

- 2010 census population of 13,923 (5,830 households) with 15% serviceable.
- Projected 2020 population of 14,023 (change of 100).
- Morgan County has 30.53 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- There are no projects planned from 0 to 5 years.
- Estimated funding needs for projects from 6 to 10 years: $750,000.



Morgan County has a 2010 census population count of 13,923 (5,830 households) with a projected 2020 population count of 14,023 (5,126 households). Public sewer is currently available to approximately 15 percent of the county's households based on 2010 census counts. Over the next ten years approximately 100 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of West Liberty	1	$750,000	-	100	-	2.00	-
Totals:	**1**	**$750,000**	**-**	**100**	**-**	**2.00**	**-**

Public Wastewater Systems in Morgan County

Note: Serviceability counts are for households within Morgan county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0089567	West Liberty Sewer	Morgan	3,566	850
		Totals:	3,566	850

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MORGAN COUNTY
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System Summary for West Liberty Sewer

Permit ID	KY0089567	Treats Wastewater	Yes, 0.85 MGD with 0.443 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	603
Owner Type	Incorporated City	KISOP Sender	No
Employees	8	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$32.12	Total KISOP Treated (MG)	-
Residential Customers	471	Total Treated (MG)	161.695
Commercial Customers	107	Number of Manholes	140
Institutional Customers	22	Number of Lift Stations	19
Industrial Customers	3	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed
Total Collection System Line Length = 30.20 miles (Collection: 30.04 miles, Interceptors: 0.16 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for West Liberty Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21175010	City of West Liberty System Sewer Line Replacement Project	6-10 Years	Not Funded	$750,000	Morgan	21	2

Rowan County

- 2010 census population of 23,333 (10,102 households) with 57% serviceable.
- Projected 2020 population of 24,708 (change of 1,375).
- Rowan County has 148.47 miles of existing sewer lines.
- 9.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,000,000.
- There are no projects planned from 6 to 10 years.



Rowan County has a 2010 census population count of 23,333 (10,102 households) with a projected 2020 population count of 24,708 (9,546 households). Public sewer is currently available to approximately 57 percent of the county's households based on 2010 census counts. Over the next ten years approximately 169 serviceable households will be added through the construction of 9.00 miles of sewer line extensions and approximately 8,634 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Morehead Utility Plant Board	6	$4,000,000	169	8,634	9.00	-	-
Totals:	**6**	**$4,000,000**	**169**	**8,634**	**9.00**	**-**	**-**

Public Wastewater Systems in Rowan County

Note: Serviceability counts are for households within Rowan county only.

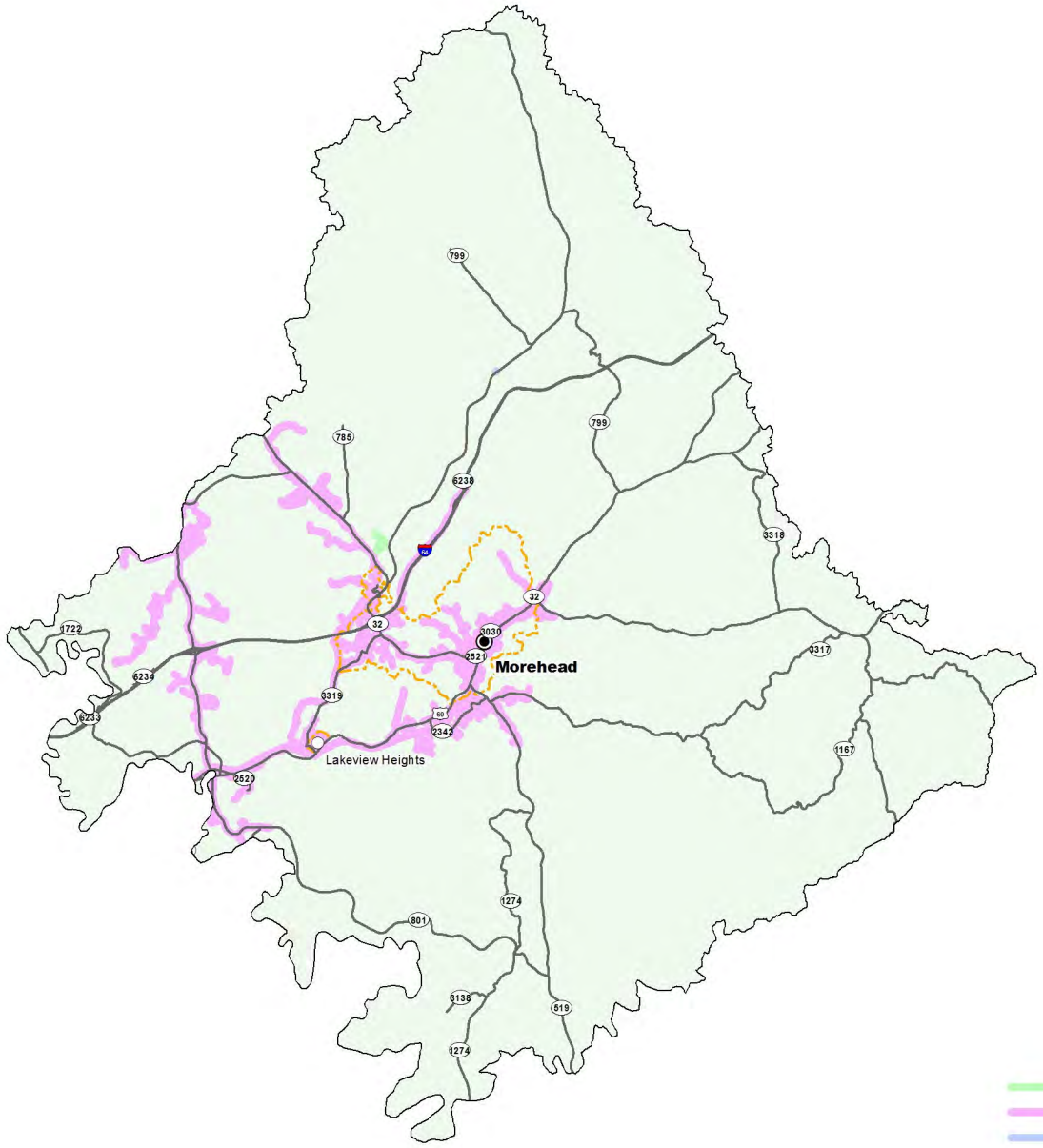
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0052752	Morehead Utility Plant Board	Rowan	14,097	5,737
		Totals:	14,097	5,737

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System Summary for Morehead Utility Plant Board

Permit ID	KY0052752	Treats Wastewater	Yes, 5 MGD with 3.102 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	4,812
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	40	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$15.68	Total KISOP Treated (MG)	-
Residential Customers	3,950	Total Treated (MG)	1,132.230
Commercial Customers	856	Number of Manholes	2453
Institutional Customers	-	Number of Lift Stations	70
Industrial Customers	6	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed

Total Collection System Line Length = 167.56 miles (Collection: 159.09 miles, Interceptors: 8.47 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Morehead Utility Plant Board

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21205033	Morehead Utility Plant Board Phase 5 Inflow and Infiltration Sew	3-5 Years	Not Funded	$500,000	Rowan	3	1
SX21205029	Sunnybrook Development Sewer Line Extension	3-5 Years	Not Funded	$1,000,000	Rowan	4	2
SX21205035	Morehead Utility Plant Board 519 Sewer Extension	3-5 Years	Not Funded	$500,000	Rowan	5	3
SX21205036	KY 801 and KY 158 Sewer Extension Project	3-5 Years	Not Funded	$1,500,000	Rowan	8	4
SX21205037	Morehead Utility Plant Board Administrative Software Upgrade	3-5 Years	Not Funded	$250,000	Rowan	11	5
SX21205031	MUPB Residential Grinder Replacement Project	3-5 Years	Not Funded	$250,000	Rowan	20	6

Kentuckiana Regional Planning and Development Agency (KIPDA)



- 2010 census population of 959,091 (421,502 households) with 88% serviceable.
- Projected 2020 population of 1,058,343 (change of 99,252).
- 7,325.73 miles of existing sewer lines.
- 24.00 miles of line extensions proposed in the next 10 years.
- 11.00 miles of line rehabilitation proposed in the next 10 years.
- 18.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $146,791,437.
- Estimated funding needs for projects from 6 to 10 years: $21,225,601.
- Average age of wastewater treatment plants is 35 years.
- Total number of interconnected systems is 1.
- 592 miles of sewer lines less than 15 years old.
- 1,136 miles of sewer lines between 15 and 30 years old.
- 1,022 miles of sewer lines between 31 and 50 years old.
- 664 miles of sewer lines between 51 and 70 years old.
- 511 miles of sewer lines greater than 70 years old.

Kentuckiana Regional Planning and Development Agency has a 2010 census population count of 959,091 (421,502 households) with a projected 2020 population count of 1,058,343 (437,016 households). Public sewer is currently available to approximately 88 percent of the district's households based on 2010 census counts. Over the next ten years approximately 1,543 serviceable households will be added through the construction of 24.00 miles of sewer line extensions and approximately 6,830 instances of improved service through the rehabilitation of 11.00 miles of existing sewer lines and other appurtenances. 18.00 miles of interceptor lines are also proposed within this district.

County Summary for Kentuckiana Regional Planning and Development Agency

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Bullitt	74,319	29,318	88,508	34,970	15,818	54%	$ 27,299,890
Henry	15,416	6,640	15,915	6,405	2,357	36%	$ 6,229,905
Jefferson	741,096	337,616	793,817	336,744	330,563	98%	$ 54,691,277
Oldham	60,316	20,688	74,990	26,354	10,878	53%	$ 68,297,903
Shelby	42,074	16,606	51,944	19,663	8,598	52%	$ 8,168,063
Spencer	17,061	6,704	23,655	9,025	667	10%	$ 1,650,000
Trimble	8,809	3,930	9,514	3,855	948	24%	$ 1,680,000
Totals	**959,091**	**421,502**	**1,058,343**	**437,016**	**369,829**	**88%**	**$ 168,017,038**

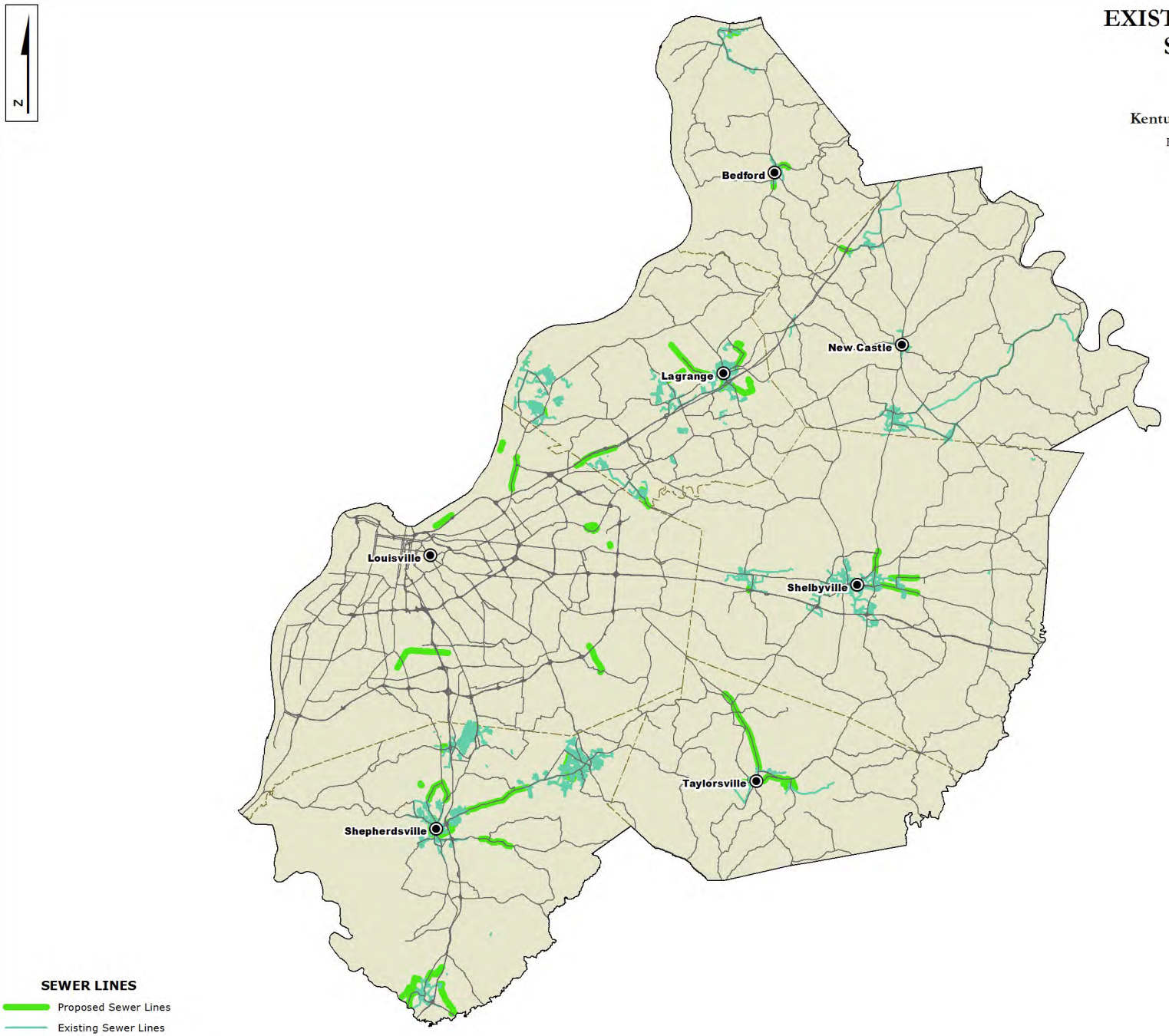
EXISTING & PROPOSED SEWER LINES

KIPDA

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March, 2013



Public Sewer Systems in the Kentuckiana Regional Planning and Development Agency

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0034169	Bullitt County Sanitation District - BCSD Hillview #2	Bullitt	2,444	905
KY0034177	Bullitt County Sanitation District - BCSD Hillview #3	Bullitt	1,210	449
KY0034801	Bullitt County Sanitation District - Bullitt Hills Subdivision	Bullitt	3,482	1,402
KY0034185	Bullitt County Sanitation District - Pioneer Village Sewer Plt #1	Bullitt	2,558	1,015
KY0094307	Bullitt County Sanitation District - Willabrook Sanitation	Bullitt	481	200
KY0104043	Lebanon Junction Wastewater	Bullitt	1,620	705
KY0033804	Mount Washington Water & Sewer Company	Bullitt	14,760	5,904
KY0027359	Shepherdsville Sewer	Bullitt	12,778	5,078
KY0026883	Eminence Wastewater	Henry	2,551	1,103
KY0031828	New Castle Wastewater	Henry	1,101	505
KYP000036	Pleasureville	Henry	966	427
KY0039021	Louisville & Jefferson County MSD - Bancroft	Jefferson	573	229
KY0036501	Louisville & Jefferson County MSD - Berrytown	Jefferson	855	317
KY0098540	Louisville & Jefferson County MSD - Cedar Creek	Jefferson	30,662	12,513
KY0029459	Louisville & Jefferson County MSD - Chenoweth Hills	Jefferson	2,138	741
KY0078956	Louisville & Jefferson County MSD - Derek R Guthrie	Jefferson	203,270	86,282
KY0102784	Louisville & Jefferson County MSD - Floyds Fork	Jefferson	21,771	8,774
KY0044261	Louisville & Jefferson County MSD - Glenview Bluff	Jefferson	37	19
KY0022420	Louisville & Jefferson County MSD - Hite Creek	Jefferson	28,073	11,719
KY0029106	Louisville & Jefferson County MSD - Hunting Creek North	Jefferson	2,501	995
KY0029114	Louisville & Jefferson County MSD - Hunting Creek South	Jefferson	1,589	722
KY0025194	Louisville & Jefferson County MSD - Jeffersontown	Jefferson	20,475	8,639
KY0022497	Louisville & Jefferson County MSD - Ken Carla	Jefferson	86	45
KY0029416	Louisville & Jefferson County MSD - McNeely Lake	Jefferson	1,593	667
KY0022411	Louisville & Jefferson County MSD - Morris Forman	Jefferson	410,354	198,039
KY0031810	Louisville & Jefferson County MSD - Shadow Wood Subdivision	Jefferson	336	217
KY0028801	Louisville & Jefferson County MSD - Silver Heights	Jefferson	2,285	978
KY0031712	Louisville & Jefferson County MSD - Starview	Jefferson	705	374
KY0043087	Louisville & Jefferson County MSD - Timberlake	Jefferson	1,104	503
KY0020001	Lagrange Utilities Commission	Oldham	7,966	3,169
KY0024724	Oldham County Environmental Authority - Ash Avenue	Oldham	1,362	434
KY0103110	Oldham County Environmental Authority - Buckner	Oldham	3,150	668
KY0060577	Oldham County Environmental Authority - Country Village	Oldham	544	207
KY0039870	Oldham County Environmental Authority - Lakewood Valley STP	Oldham	785	278
KY0054674	Oldham County Environmental Authority - Lockwood Estates Subdivision	Oldham	299	112
KY0076813	Oldham County Environmental Authority - Mockingbird Valley	Oldham	140	43
KY0106143	Oldham County Environmental Authority - Ohio River	Oldham	7,924	2,685
KY0033821	Oldham County Environmental Authority - Orchard Grass	Oldham	2,894	977
KY0046264	Oldham County Environmental Authority - Willow Creek	Oldham	749	301
KY0078026	Oldham Woods Subdivision	Oldham	143	52
KY0020427	Shelbyville Municipal Water & Sewer Commission	Shelby	18,714	7,506
KY0065889	Simpsonville Wastewater	Shelby	2,644	1,057
KY0028142	Taylorsville Wastewater	Spencer	1,395	647
KY0069825	Bedford Wastewater	Trimble	983	431
KY0088625	Milton Wastewater	Trimble	1,055	517
		Totals:	823,105	368,550

Kentuckiana Regional Planning and Development Agency
Regional Wastewater Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Extend Services to Unserved Areas**

Discussion of Area Development District Needs:

The KIPDA Regional Water Council through discussion recognizes that planning needs in the region are constantly changing. What may be viewed as the primary need in the near future could differ from what is viewed as the primary need in the present. All of the listed options are viewed as necessities throughout the region and many are viewed to be intertwined with none being mutually exclusive. With these thoughts in consideration, the KIPDA Regional Water Management Council identified the Repair and Replacement of Existing Infrastructure as its primary planning need. This planning need is tied to Economic Stimulation, meeting Regulatory Requirements, and the consolidation of Package Treatment Plants.

With a few exceptions, utilities upgrade existing infrastructure when it is replaced. The increased capabilities from these upgrades enable systems to meet demands and provide improved services to areas which leads to economic stimulation. These upgrades could be in the form of increased size in line replacements to increased treatment and pumping capacity. The ability to provide service drives economic stimulation and the Council realizes that upgrading existing infrastructure is essential to meeting future needs.

Regulatory requirements are often met through the repair and replacement of existing infrastructure. An example from several priority projects in the region includes the identification of of problematic areas within the system and manhole rehabilitation, these projects will address I/I issues and compliance with regulatory requirements. Further examples include expanding treatment capacities to comply with Agreed Orders and construction of chlorine capacity tanks at WWTPs to meet future compliance.

Consolidation in the form of the elimination of package treatment plants was another factor discussed in relation to the repair and replacement of existing infrastructure; especially in Bullitt and Oldham counties. Oldham County is currently in the process of taking five PTPs offline while failing package treatment plants have presented themselves as an issue in Bullitt County. Their elimination will be an improvement of service to customers and to environmental quality in the area. This also relates to what the Council views as the secondary need within the region.

Extending Service to Unserved Areas is viewed by the Council as the secondary need within the region. The caveat in place was the extension of service be to already developed areas. As with the elimination of failing package treatment plants, the benefits of taking customers off septic systems will be realized in the form of improvement to public health, the environment, and water sources in the area.

Description and Determination of Planning Units:

Further, the Council designated the seven (7) water management areas in the KIPDA region to be defined by county boundaries.

1. Bullitt County Wastewater Management Planning Area
• Bullitt County Sanitation District
• Lebanon Junction, City of
• Mount Washington Water and Sewer Company
• Shepherdsville, City of

2. Henry County Wastewater Management Planning Area
• Eminence, City of
• New Castle, City of
• Pleasureville, City of

3. Jefferson County Water Management Planning Area
• Louisville & Jefferson County MSD

4. Oldham County Water Management Planning Area
• Lagrange Utilities Commission
• Oldham County Environmental Authority

5. Shelby County Water Management Planning Area
• Shelbyville Municipal Water and Sewer Commission
• Simpsonville, City of

6. Spencer County Water Management Planning Area
• Taylorsville, City of

7. Trimble County Water Management Planning Area
• Bedford, City of
• Milton, City of

Kentuckiana Regional Planning and Development Agency
Project Ranking Methodology

he KIPDA Regional Water Management Council prioritizes projects using local input and an established priority ranking scoresheet.

Before projects are brought before the KIPDA Regional Water Management Council to be prioritized, they are ranked at the County level. The County Water Management Councils consist of utility representatives and local elected officials. Projects are ranked based on perceived importance within the county.

To bring continuity and fairness throughout the region, the KIPDA Regional Water Management Council requires all projects that are to be considered for Regional Prioritization to complete a Priority Ranking Scoresheet. The methodology for the scoresheet was established in 2007 by a group of Area Development Water Management Coordinators along with KIA staff. This is no longer required for all water and wastewater projects requesting State funding, but the KIPDA Council choice to continue using this method due to past success.

The scoresheet provides for a maximum of 100 points to be assigned to each project depending on how it scores according to the following criteria:

Type of Project (20 point Maximum)

For unserved and underserved projects, households served are the basis for the priority scoring while jobs created are the consideration for economic development projects. Feasibility studies and other projects that don't involve unserved, underserved, commercial, or industrial development are assigned a specified score.

Project Delivery (20 point Maximum)

Projects are scored on whether they are Regional or Non-Regional. For this purpose, regional is defined as projects involving two or more systems that, through shared or consolidated resources, improve services to consumers and achieve economy of scale.

Project Status (20 point Maximum)

Projects are scored based on their status relative to the planning process, the status of the development of engineering plans and specifications, and the detail of the data used to develop the estimated cost of the project. Projects that are further along in the process will receive a higher priority score.

Funding Status (20 point Maximum)

The projects are categorized based on their status relative its size and the funding needed to execute. Projects that are further along in the funding process will receive a higher priority as indicated below.

Local Importance (20 point Maximum)

The projects are assigned priority points based on their importance to the county as determined by consensus during the County Water Management Councils.

With the intention of each county having equal representation on the priority ranking list, the top projects from each county are ranked against each other according to their priority ranking score. This method is continued for the second, third, fourth, etc projects until all submitted projects receive a ranking.

Project Rankings For Kentuckiana Regional Planning and Development Agency

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21211017	Shelby County Cooperative Extension Office	0-2 Years	Not Funded	$469,263	Shelby	1	1
SX21185010	I-71 Interceptor Sewer Replacement	3-5 Years	Not Funded	$694,000	Oldham	2	1
SX21103011	Pleasureville Wastewater Capacity Upgrade	3-5 Years	Not Funded	$150,000	Henry	3	1
SX21029029	Shepherdsville-Blue Lick Stormwater Project	3-5 Years	Not Funded	$1,996,250	Bullitt	4	1
SX21223008	Pump Station Rehabilitation	3-5 Years	Not Funded	$125,000	Trimble	5	1
SX21111101	Hite Creek WTP Expansion	3-5 Years	Not Funded	$14,389,777	Jefferson	6	1
SX21185011	South Pump Station	3-5 Years	Not Funded	$688,000	Oldham	7	2
SX21211008	Eminence Pike Gravity Sewers	3-5 Years	Not Funded	$2,380,000	Shelby	8	2
SX21223011	City of Milton - I/I Mitigation	3-5 Years	Not Funded	$350,000	Trimble	9	2
SX21103014	I-71 Exit 34 Sewer Extension	0-2 Years	Not Funded	$303,479	Henry	10	2
SX21029002	Shepherdsville Sewer Rehab	3-5 Years	Not Funded	$500,000	Bullitt	11	2
SX21029015	Willabrook Wastewater Treatment Plant Expansion	3-5 Years	Partially Funded	$3,000,000	Bullitt	12	3
SX21185005	Madison Street Lift Station Upgrade	3-5 Years	Not Funded	$306,500	Oldham	13	3
SX21223010	Collection System Improvements & I/I Mitigation	6-10 Years	Not Funded	$370,000	Trimble	14	3
SX21211014	Fast Action Response & Management (Farm) Project	3-5 Years	Not Funded	$336,000	Shelby	15	3
SX21185053	Orchard Grass Regional WWTP Phase 3	3-5 Years	Not Funded	$6,300,000	Oldham	16	4
SX21223012	City of Milton Main Trunk Sewers Cleaning, Televising and Repair	6-10 Years	Not Funded	$625,000	Trimble	17	4
SX21185032	Kentucky State Reformatory - Rehab Phase I	3-5 Years	Not Funded	$2,718,080	Oldham	18	5
SX21185051	OCEA Lift Station Rehab, Renovation, and Replacement	3-5 Years	Not Funded	$2,005,000	Oldham	19	6
			Total Cost:	**$37,706,349**			

Bullitt County

- 2010 census population of 74,319 (29,318 households) with 54% serviceable.
- Projected 2020 population of 88,508 (change of 14,189).
- Bullitt County has 207.38 miles of existing sewer lines.
- 6.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- 4.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $26,799,890.
- Estimated funding needs for projects from 6 to 10 years: $500,000.



Bullitt County has a 2010 census population count of 74,319 (29,318 households) with a projected 2020 population count of 88,508 (34,970 households). Public sewer is currently available to approximately 54 percent of the county's households based on 2010 census counts. Over the next ten years approximately 244 serviceable households will be added through the construction of 6.00 miles of sewer line extensions and approximately 956 instances of improved service through the rehabilitation of 3.00 miles of existing sewer lines and other appurtenances. 4.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Bullitt County Fiscal Court	1	$60,000	-	-	-	-	-
Bullitt County Sanitation District	7	$4,711,000	92	50	1.00	-	-
City of Lebanon Junction	4	$1,926,140	152	-	5.00	-	-
City of Mount Washington	1	$606,500	-	-	-	-	3.00
City of Shepherdsville	4	$19,996,250	-	906	-	3.00	1.00
Totals:	**17**	**$27,299,890**	**244**	**956**	**6.00**	**3.00**	**4.00**

Public Wastewater Systems in Bullitt County

Note: Serviceability counts are for households within Bullitt county only.

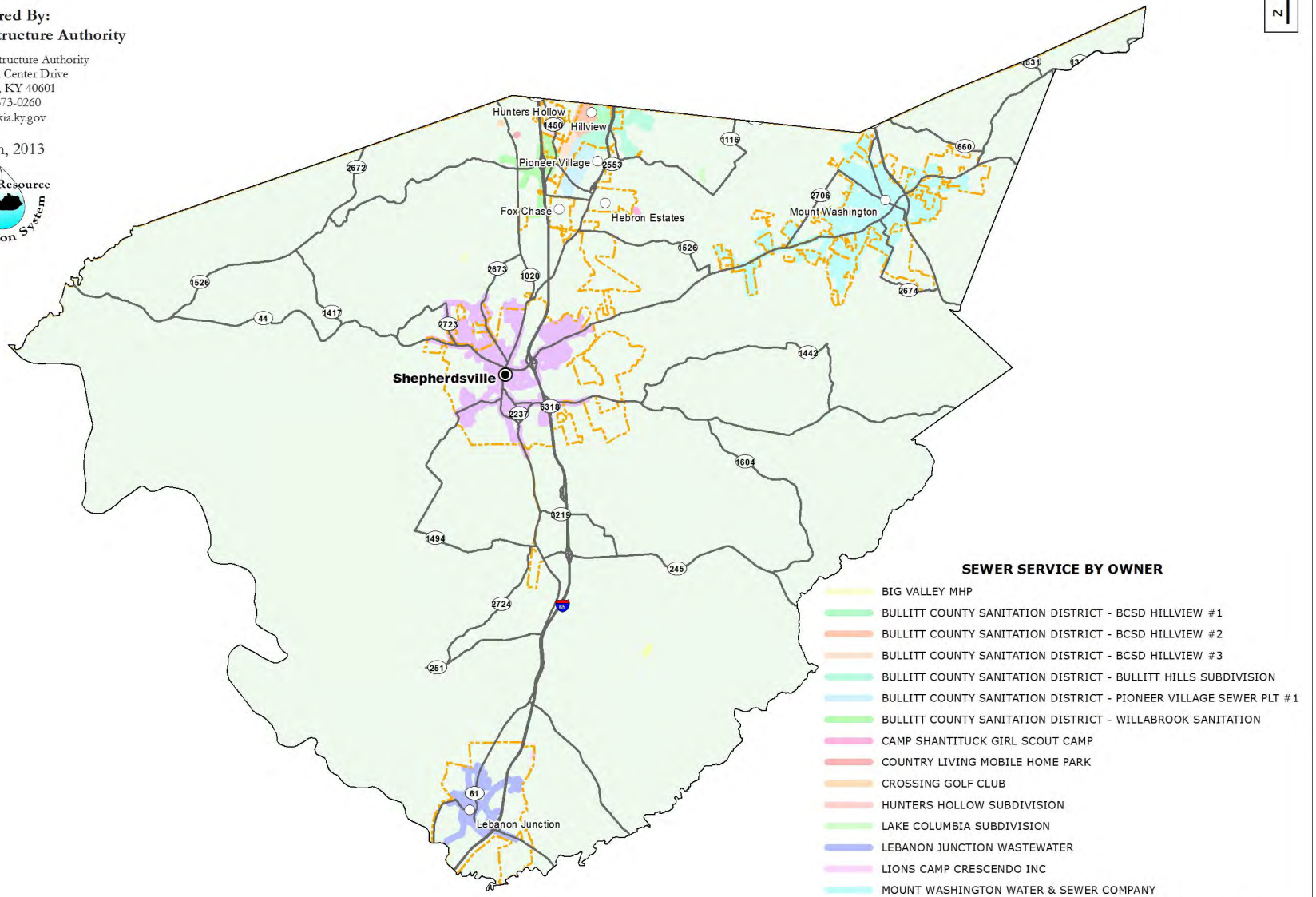
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0034169	Bullitt County Sanitation District - BCSD Hillview #2	Bullitt	2,284	847
KY0034177	Bullitt County Sanitation District - BCSD Hillview #3	Bullitt	1,210	449
KY0034801	Bullitt County Sanitation District - Bullitt Hills Subdivision	Bullitt	3,285	1,304
KY0034185	Bullitt County Sanitation District - Pioneer Village Sewer Plt #1	Bullitt	2,558	1,015
KY0094307	Bullitt County Sanitation District - Willabrook Sanitation	Bullitt	481	200
KY0104043	Lebanon Junction Wastewater	Bullitt	1,620	705
KY0033804	Mount Washington Water & Sewer Company	Bullitt	14,760	5,904
KY0027359	Shepherdsville Sewer	Bullitt	12,778	5,078
KY0078956	Louisville & Jefferson County MSD - Derek R Guthrie	Jefferson	86	33
		Totals:	39,062	15,535

SEWER SERVICE AREAS
BULLITT COUNTY
Kentucky

Prepared By:
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March, 2013



System Summary for Bullitt County Sanitation District - BCSD Hillview #2

Permit ID	KY0034169	Treats Wastewater	Yes, 0.32 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	818
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.68	Total KISOP Treated (MG)	-
Residential Customers	815	Total Treated (MG)	113.880
Commercial Customers	2	Number of Manholes	121
Institutional Customers	1	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 6.50 miles (Collection: 6.50 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bullitt County Sanitation District - BCSD Hillview #2

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21029033	Bullitt County Sanitation District Energy Reduction Project	0-2 Years	Not Funded	$60,000	Bullitt		

System Summary for Bullitt County Sanitation District - BCSD Hillview #3

Permit ID	KY0034177	Treats Wastewater	Yes, 0.148 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	422
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.68	Total KISOP Treated (MG)	-
Residential Customers	422	Total Treated (MG)	50.370
Commercial Customers	-	Number of Manholes	63
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No

Total Collection System Line Length = 3.35 miles (Collection: 3.35 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bullitt County Sanitation District - BCSD Hillview #3

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21029033	Bullitt County Sanitation District Energy Reduction Project	0-2 Years	Not Funded	$60,000	Bullitt		

System Summary for Bullitt County Sanitation District - Bullitt Hills Subdivision

Permit ID	KY0034801	Treats Wastewater	Yes, 0.35 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	898
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.68	Total KISOP Treated (MG)	-
Residential Customers	880	Total Treated (MG)	83.220
Commercial Customers	17	Number of Manholes	260
Institutional Customers	1	Number of Lift Stations	5
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 12.17 miles (Collection: 12.17 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bullitt County Sanitation District - Bullitt Hills Subdivision

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21029023	Tanyard Springs Pump Station Rehabilitation	3-5 Years	Not Funded	$130,000	Bullitt		
SX21029033	Bullitt County Sanitation District Energy Reduction Project	0-2 Years	Not Funded	$60,000	Bullitt		
SX21029026	Hillview WWTP One Anaerobic Digestor Rehabilitation	3-5 Years	Not Funded	$55,000	Bullitt		

System Summary for Bullitt County Sanitation District - Hillview STP

Permit ID	KY0103900	Treats Wastewater	Yes, 0.15 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	11
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.68	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	5.840
Commercial Customers	8	Number of Manholes	9
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	3	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.04 miles (Collection: 0.04 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bullitt County Sanitation District - Hillview STP

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21029033	Bullitt County Sanitation District Energy Reduction Project	0-2 Years	Not Funded	$60,000	Bullitt		

System Summary for Bullitt County Sanitation District - Pioneer Village Sewer Plt #1

Permit ID	KY0034185	Treats Wastewater	Yes, 0.31 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	961
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	961	Total Treated (MG)	95.995
Commercial Customers	2	Number of Manholes	189
Institutional Customers	1	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 8.07 miles (Collection: 8.07 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bullitt County Sanitation District - Pioneer Village Sewer Plt #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21029033	Bullitt County Sanitation District Energy Reduction Project	0-2 Years	Not Funded	$60,000	Bullitt		

System Summary for Bullitt County Sanitation District - Willabrook Sanitation

Permit ID	KY0094307	Treats Wastewater	Yes, 0.12 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	23
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.68	Total KISOP Treated (MG)	-
Residential Customers	1	Total Treated (MG)	21.170
Commercial Customers	18	Number of Manholes	56
Institutional Customers	1	Number of Lift Stations	5
Industrial Customers	3	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 6.77 miles (Collection: 6.77 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bullitt County Sanitation District - Willabrook Sanitation

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21029030	Marvin Avenue Sanitary Sewer Extension	3-5 Years	Not Funded	$298,000	Bullitt		
SX21029033	Bullitt County Sanitation District Energy Reduction Project	0-2 Years	Not Funded	$60,000	Bullitt		

System Summary for Hunters Hollow Subdivision

Permit ID	KY0038610	Treats Wastewater	Yes, 0.24 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Incorporated City	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.02 miles (Collection: 0.02 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Hunters Hollow Subdivision

System Summary for Kingswood Development Subdivision

Permit ID	KY0101419	Treats Wastewater	Yes, 0.04 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	119	Total Treated (MG)	11.300
Commercial Customers	-	Number of Manholes	53
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Kingswood Development Subdivision

System Summary for Lake Columbia Subdivision

Permit ID	KY0077674	Treats Wastewater	Yes, 0.012 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.01 miles (Collection: 0.00 miles, Interceptors: 0.01 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Lake Columbia Subdivision

System Summary for Lebanon Junction Wastewater

Permit ID	KY0104043	Treats Wastewater	Yes, 0.35 MGD with 0.2 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	589
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.00	Total KISOP Treated (MG)	-
Residential Customers	550	Total Treated (MG)	73.000
Commercial Customers	39	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	5
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 16.40 miles (Collection: 16.33 miles, Interceptors: 0.07 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lebanon Junction Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21029012	W. Airport Road Thru Denice Road Tie Into Main Street and Pick Up Newton Road	3-5 Years	Not Funded	$572,500	Bullitt		
SX21029011	S. Sanders Lane to Old Boston Road Picks Up Maraman Road	3-5 Years	Not Funded	$571,420	Bullitt		
SX21029013	Hwy 434 From Sweats Home to River Bridge	3-5 Years	Not Funded	$265,820	Bullitt		

System Summary for Mount Washington Water & Sewer Company

Permit ID	KY0033804	Treats Wastewater	Yes, 3.5 MGD with 1.3 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	5,600
Owner Type	Incorporated City	KISOP Sender	No
Employees	8	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$25.83	Total KISOP Treated (MG)	-
Residential Customers	5,169	Total Treated (MG)	454.000
Commercial Customers	379	Number of Manholes	800
Institutional Customers	-	Number of Lift Stations	32
Industrial Customers	-	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 90.77 miles (Collection: 90.63 miles, Interceptors: 0.14 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mount Washington Water & Sewer Company

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21029018	Mt Washington Sewer Interceptor Line	3-5 Years	Not Funded	$606,500	Bullitt		

System Summary for Shepherdsville Sewer

Permit ID	KY0027359	Treats Wastewater	Yes, 4.02 MGD with 2.22 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	4,580
Owner Type	Incorporated City	KISOP Sender	No
Employees	9	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$37.26	Total KISOP Treated (MG)	-
Residential Customers	4,163	Total Treated (MG)	791.828
Commercial Customers	417	Number of Manholes	2000
Institutional Customers	-	Number of Lift Stations	23
Industrial Customers	-	Percent Lines 20 yrs or Older	65%
KISOP Customers	-	Has Facility Plan	Yes, 5% Constructed
Total Collection System Line Length = 60.39 miles (Collection: 60.22 miles, Interceptors: 0.17 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Shepherdsville Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21029029	Shepherdsville-Blue Lick Stormwater Project	3-5 Years	Not Funded	$1,996,250	Bullitt	4	1
SX21029002	Shepherdsville Sewer Rehab	3-5 Years	Not Funded	$500,000	Bullitt	11	2
SX21029019	City of Shepherdsville, Treatment Plant Expansion	0-2 Years	Not Funded	$17,000,000	Bullitt		
SX21029003	Cedar Grove - 480 Project	6-10 Years	Not Funded	$500,000	Bullitt		

Henry County

- 2010 census population of 15,416 (6,640 households) with 36% serviceable.
- Projected 2020 population of 15,915 (change of 499).
- Henry County has 75.95 miles of existing sewer lines.
- 2.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 4.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,229,905.
- There are no projects planned from 6 to 10 years.



Henry County has a 2010 census population count of 15,416 (6,640 households) with a projected 2020 population count of 15,915 (6,405 households). Public sewer is currently available to approximately 36 percent of the county's households based on 2010 census counts. Over the next ten years approximately 115 serviceable households will be added through the construction of 2.00 miles of sewer line extensions and approximately 8 instances of improved service through system wide upgrades. 4.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Carrollton Utilities	1	$2,120,926	9	-	-	-	1.00
City of Campbellsburg	1	$303,479	6	-	1.00	-	-
City of Eminence	1	$150,000	-	-	-	-	-
City of New Castle	3	$820,500	-	-	-	-	-
City of Pleasureville	1	$150,000	-	-	-	-	-
La Grange Utilities Commission	1	$2,685,000	100	8	1.00	-	3.00
Totals:	**8**	**$6,229,905**	**115**	**8**	**2.00**	**-**	**4.00**

Public Wastewater Systems in Henry County

Note: Serviceability counts are for households within Henry county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0026883	Eminence Wastewater	Henry	2,551	1,103
KY0031828	New Castle Wastewater	Henry	1,101	505
KYP000036	Pleasureville	Henry	892	394
KY0104931	Carrollton Utilities	Carroll	795	355
		Totals:	5,339	2,357

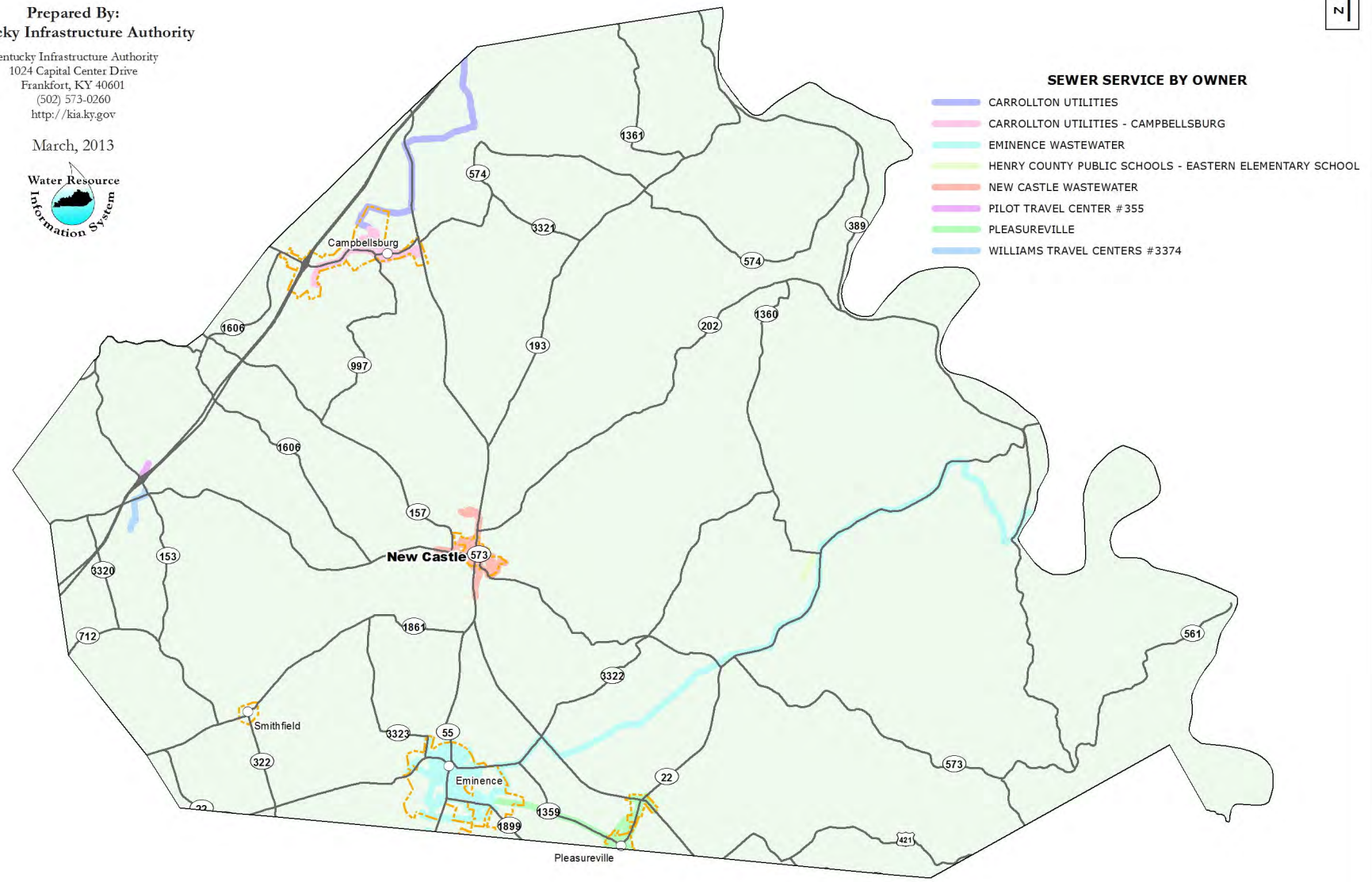
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Kentucky

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March, 2013

Water Resource Information System



System Summary for Carrollton Utilities - Campbellsburg

Permit ID	KYP000070	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	-
Owner Type	Incorporated City	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	300	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No

Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Carrollton Utilities - Campbellsburg

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21041003	CU - The 3444 Sanitary Sewer Project	0-2 Years	Not Funded	$2,120,926	Carroll	1	1

System Summary for Eminence Wastewater

Permit ID	KY0026883	Treats Wastewater	Yes, 0.5 MGD with 0.23 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	920
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.76	Total KISOP Treated (MG)	26.543
Residential Customers	826	Total Treated (MG)	178.800
Commercial Customers	76	Number of Manholes	483
Institutional Customers	-	Number of Lift Stations	11
Industrial Customers	4	Percent Lines 20 yrs or Older	75%
KISOP Customers	1	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 41.11 miles (Collection: 23.84 miles, Interceptors: 17.26 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Eminence Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21103004	City of Eminence - Sanitary Sewer Evaluation Study (SSES) & Rehabilitation	3-5 Years	Not Funded	$150,000	Henry		

System Summary for New Castle Wastewater

Permit ID	KY0031828	Treats Wastewater	Yes, 0.29 MGD with 0.16 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	461
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.43	Total KISOP Treated (MG)	-
Residential Customers	423	Total Treated (MG)	57.800
Commercial Customers	48	Number of Manholes	75
Institutional Customers	7	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	25%
KISOP Customers	-	Has Facility Plan	Yes, 95% Constructed
Total Collection System Line Length = 9.20 miles (Collection: 8.61 miles, Interceptors: 0.60 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for New Castle Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21103012	City of New Castle – Phase 1 Sewer System Rehabilitation Project	3-5 Years	Not Funded	$661,000	Henry		
SX21103009	City of New Castle - Ultraviolet (UV) Disinfection System At WWTP	3-5 Years	Not Funded	$92,500	Henry		
SX21103010	City of New Castle - Sanitary Sewer Evaluation Study (SSES)	3-5 Years	Not Funded	$67,000	Henry		

System Summary for Pleasureville

Permit ID	KYP000036	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	342
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	6	Total KISOP Sent (MG)	26.543
Cost Per 4000 Gallons	$48.65	Total KISOP Treated (MG)	-
Residential Customers	330	Total Treated (MG)	-
Commercial Customers	6	Number of Manholes	38
Institutional Customers	6	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 10.97 miles (Collection: 8.47 miles, Interceptors: 2.50 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Pleasureville

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21103011	Pleasureville Wastewater Capacity Upgrade	3-5 Years	Not Funded	$150,000	Henry	3	1

Jefferson County

- 2010 census population of 741,096 (337,616 households) with 98% serviceable.
- Projected 2020 population of 793,817 (change of 52,721).
- Jefferson County has 6,643.70 miles of existing sewer lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 3.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $54,691,277.
- There are no projects planned from 6 to 10 years.



Jefferson County has a 2010 census population count of 741,096 (337,616 households) with a projected 2020 population count of 793,817 (336,744 households). Public sewer is currently available to approximately 98 percent of the county's households based on 2010 census counts. Over the next ten years approximately 50 serviceable households will be added through the construction of 1.00 miles of sewer line extensions and approximately 300 instances of improved service through system wide upgrades. 3.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Crestwood	1	$3,691,500	-	-	-	-	1.00
City of Middletown	1	$1,900,000	25	300	-	-	-
Louisville And Jefferson County Metropolitan Sewer District	9	$41,789,777	-	-	-	-	-
Louisville Water Company	1	$1,010,000	25	-	1.00	-	-
Oldham County Environmental Authority	1	$6,300,000	-	-	-	-	2.00
Totals:	**13**	**$54,691,277**	**50**	**300**	**1.00**	**-**	**3.00**

Public Wastewater Systems in Jefferson County

Note: Serviceability counts are for households within Jefferson county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0039021	Louisville & Jefferson County MSD - Bancroft	Jefferson	573	229
KY0036501	Louisville & Jefferson County MSD - Berrytown	Jefferson	855	317
KY0098540	Louisville & Jefferson County MSD - Cedar Creek	Jefferson	30,662	12,513
KY0029459	Louisville & Jefferson County MSD - Chenoweth Hills	Jefferson	2,138	741
KY0078956	Louisville & Jefferson County MSD - Derek R Guthrie	Jefferson	203,184	86,249
KY0102784	Louisville & Jefferson County MSD - Floyds Fork	Jefferson	21,766	8,772
KY0044261	Louisville & Jefferson County MSD - Glenview Bluff	Jefferson	37	19
KY0022420	Louisville & Jefferson County MSD - Hite Creek	Jefferson	21,403	9,260
KY0029106	Louisville & Jefferson County MSD - Hunting Creek North	Jefferson	2,501	995
KY0029114	Louisville & Jefferson County MSD - Hunting Creek South	Jefferson	1,547	708
KY0025194	Louisville & Jefferson County MSD - Jeffersontown	Jefferson	20,475	8,639
KY0022497	Louisville & Jefferson County MSD - Ken Carla	Jefferson	86	45
KY0029416	Louisville & Jefferson County MSD - McNeely Lake	Jefferson	1,593	667
KY0022411	Louisville & Jefferson County MSD - Morris Forman	Jefferson	410,354	198,039
KY0031810	Louisville & Jefferson County MSD - Shadow Wood Subdivision	Jefferson	336	217
KY0028801	Louisville & Jefferson County MSD - Silver Heights	Jefferson	2,285	978
KY0031712	Louisville & Jefferson County MSD - Starview	Jefferson	705	374
KY0043087	Louisville & Jefferson County MSD - Timberlake	Jefferson	1,104	503
KY0034169	Bullitt County Sanitation District - BCSD Hillview #2	Bullitt	160	58

KY0034801	Bullitt County Sanitation District - Bullitt Hills Subdivision	Bullitt	197	98
KY0024724	Oldham County Environmental Authority - Ash Avenue	Oldham	1,362	434
KY0106143	Oldham County Environmental Authority - Ohio River	Oldham	56	22
KY0046264	Oldham County Environmental Authority - Willow Creek	Oldham	505	206
		Totals:	723,884	330,083

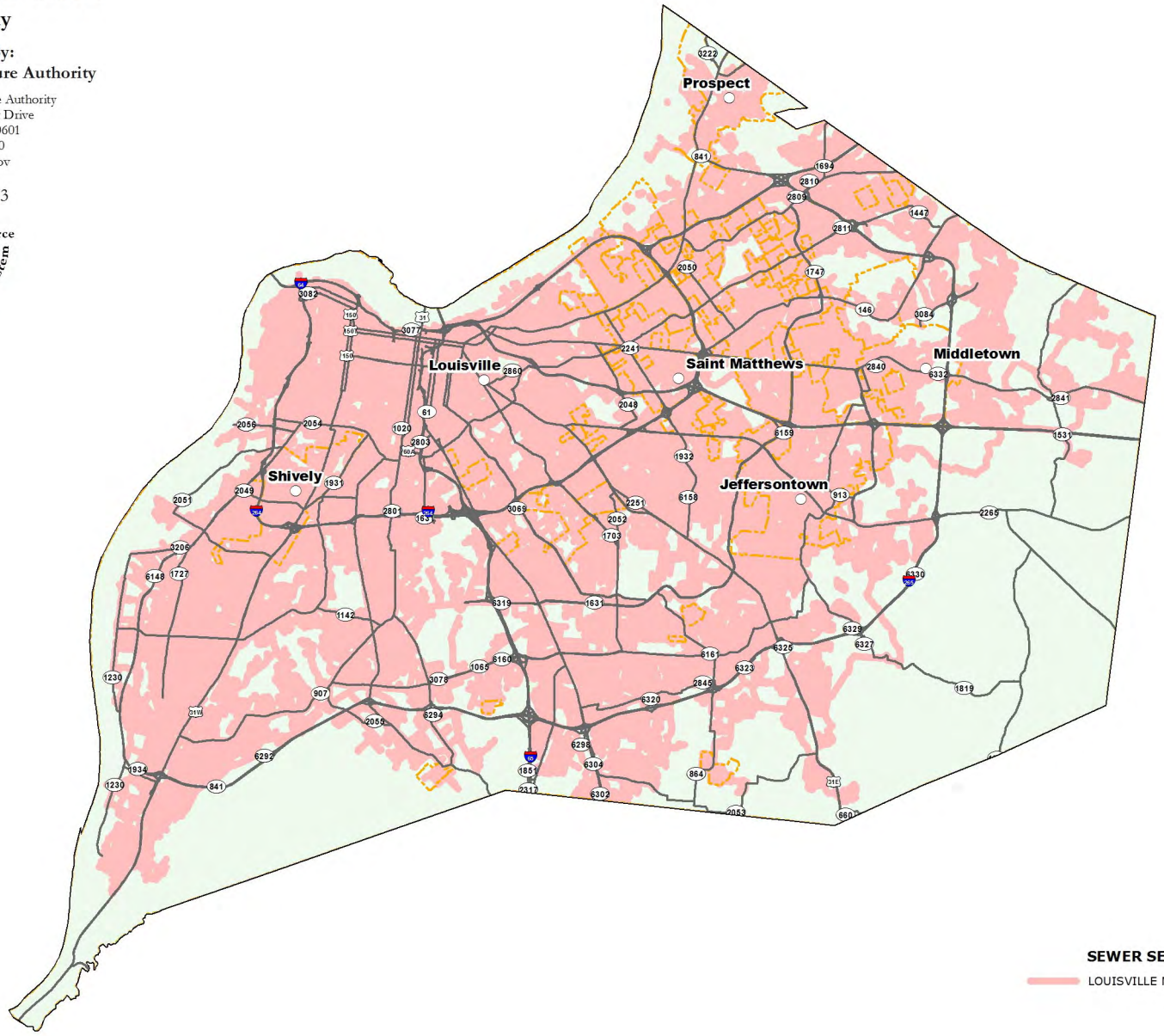
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March, 2013

Water Resource Information System



System Summary for Louisville & Jefferson County MSD - Bancroft

Permit ID	KY0039021	Treats Wastewater	Yes, 0.08 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	203
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	203	Total Treated (MG)	12.350
Commercial Customers	-	Number of Manholes	96
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 3.11 miles (Collection: 3.11 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Bancroft

System Summary for Louisville & Jefferson County MSD - Berrytown

Permit ID	KY0036501	Treats Wastewater	Yes, 0.075 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	252
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	231	Total Treated (MG)	41.910
Commercial Customers	21	Number of Manholes	147
Institutional Customers	-	Number of Lift Stations	5
Industrial Customers	-	Percent Lines 20 yrs or Older	70%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 7.35 miles (Collection: 7.35 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Louisville & Jefferson County MSD - Berrytown

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21111001	Middletown Recapture	3-5 Years	Not Funded	$1,900,000	Jefferson		

System Summary for Louisville & Jefferson County MSD - Cedar Creek

Permit ID	KY0098540	Treats Wastewater	Yes, 7.5 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	10,177
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	9,951	Total Treated (MG)	1,317.530
Commercial Customers	226	Number of Manholes	3883
Institutional Customers	-	Number of Lift Stations	26
Industrial Customers	-	Percent Lines 20 yrs or Older	25%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 163.25 miles (Collection: 163.25 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Cedar Creek

System Summary for Louisville & Jefferson County MSD - Chenoweth Hills

Permit ID	KY0029459	Treats Wastewater	Yes, 0.2 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	688
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	686	Total Treated (MG)	54.720
Commercial Customers	2	Number of Manholes	190
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	63%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 7.29 miles (Collection: 7.29 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Chenoweth Hills

System Summary for Louisville & Jefferson County MSD - Derek R Guthrie

Permit ID	KY0078956	Treats Wastewater	Yes, 30 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	63,120
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	59,408	Total Treated (MG)	9,468.400
Commercial Customers	3,688	Number of Manholes	20059
Institutional Customers	-	Number of Lift Stations	55
Industrial Customers	24	Percent Lines 20 yrs or Older	44%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed

Total Collection System Line Length = 917.11 miles (Collection: 917.11 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Louisville & Jefferson County MSD - Derek R Guthrie

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21111124	South Central East Green Infrastructure Focus Area	3-5 Years	Not Funded	$3,600,000	Jefferson		
SX21111119	Green Infrastructure Flood Control Basins Retrofit for Water Qua	3-5 Years	Not Funded	$2,400,000	Jefferson		
SX21111120	Maple Street Green Infrastructure Focus Area	3-5 Years	Not Funded	$2,200,000	Jefferson		

System Summary for Louisville & Jefferson County MSD - Floyds Fork

Permit ID	KY0102784	Treats Wastewater	Yes, 3.25 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	7,470
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	7,190	Total Treated (MG)	956.540
Commercial Customers	279	Number of Manholes	3937
Institutional Customers	-	Number of Lift Stations	22
Industrial Customers	1	Percent Lines 20 yrs or Older	32%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 160.26 miles (Collection: 160.26 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Floyds Fork

System Summary for Louisville & Jefferson County MSD - Glenview Bluff

Permit ID	KY0044261	Treats Wastewater	Yes, 0.01 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	20
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	20	Total Treated (MG)	0.640
Commercial Customers	-	Number of Manholes	14
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 0.32 miles (Collection: 0.32 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Glenview Bluff

System Summary for Louisville & Jefferson County MSD - Hite Creek

Permit ID	KY0022420	Treats Wastewater	Yes, 6 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	8,277
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	7,760	Total Treated (MG)	1,592.500
Commercial Customers	512	Number of Manholes	3590
Institutional Customers	-	Number of Lift Stations	35
Industrial Customers	5	Percent Lines 20 yrs or Older	20%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed

Total Collection System Line Length = 149.79 miles (Collection: 149.79 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Louisville & Jefferson County MSD - Hite Creek

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21111101	Hite Creek WTP Expansion	3-5 Years	Not Funded	$14,389,777	Jefferson	6	1
SX21185039	Meadow Stream Pump Station and Force Main Expansion	3-5 Years	Partially Funded	$3,691,500	Oldham		

System Summary for Louisville & Jefferson County MSD - Hunting Creek North

Permit ID	KY0029106	Treats Wastewater	Yes, 0.358 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,538
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	1,505	Total Treated (MG)	88.330
Commercial Customers	33	Number of Manholes	454
Institutional Customers	-	Number of Lift Stations	10
Industrial Customers	-	Percent Lines 20 yrs or Older	57%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 19.91 miles (Collection: 19.91 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Louisville & Jefferson County MSD - Hunting Creek North

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21111105	Transylvania Beach Sewer Installation	3-5 Years	Not Funded	$1,010,000	Jefferson		

System Summary for Louisville & Jefferson County MSD - Hunting Creek South

Permit ID	KY0029114	Treats Wastewater	Yes, 0.251 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,538
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	1,505	Total Treated (MG)	68.590
Commercial Customers	33	Number of Manholes	348
Institutional Customers	-	Number of Lift Stations	9
Industrial Customers	-	Percent Lines 20 yrs or Older	96%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed

Total Collection System Line Length = 14.73 miles (Collection: 14.73 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Hunting Creek South

System Summary for Louisville & Jefferson County MSD - Jeffersontown

Permit ID	KY0025194	Treats Wastewater	Yes, 4 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	7,464
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	6,564	Total Treated (MG)	1,356.220
Commercial Customers	886	Number of Manholes	2546
Institutional Customers	-	Number of Lift Stations	26
Industrial Customers	14	Percent Lines 20 yrs or Older	52%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 116.52 miles (Collection: 116.52 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Jeffersontown

System Summary for Louisville & Jefferson County MSD - Ken Carla

Permit ID	KY0022497	Treats Wastewater	Yes, 0.01 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	23
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	21	Total Treated (MG)	0.970
Commercial Customers	2	Number of Manholes	14
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed

Total Collection System Line Length = 0.50 miles (Collection: 0.50 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Ken Carla

System Summary for Louisville & Jefferson County MSD - McNeely Lake

Permit ID	KY0029416	Treats Wastewater	Yes, 0.205 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	385
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	385	Total Treated (MG)	36.440
Commercial Customers	-	Number of Manholes	101
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	40%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 4.64 miles (Collection: 4.64 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - McNeely Lake

System Summary for Louisville & Jefferson County MSD - Morris Forman

Permit ID	KY0022411	Treats Wastewater	Yes, 120 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	131,141
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	116,958	Total Treated (MG)	33,840.980
Commercial Customers	13,806	Number of Manholes	38586
Institutional Customers	-	Number of Lift Stations	113
Industrial Customers	377	Percent Lines 20 yrs or Older	86%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed

Total Collection System Line Length = 1,757.62 miles (Collection: 1,757.62 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Louisville & Jefferson County MSD - Morris Forman

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21111121	Northeast Green Infrastructure Focus Area	0-2 Years	Partially Funded	$4,400,000	Jefferson		
SX21111123	Park Hill Green Infrastructure Focus Area	3-5 Years	Not Funded	$4,400,000	Jefferson		
SX21111118	Central Business District Green Infra Focus Area – Phase II	3-5 Years	Not Funded	$3,800,000	Jefferson		
SX21111117	Southwest Greenway & Parkway Green Infrastructure Focus Area	3-5 Years	Not Funded	$3,600,000	Jefferson		
SX21111124	South Central East Green Infrastructure Focus Area	3-5 Years	Not Funded	$3,600,000	Jefferson		
SX21111125	South Central West Green Infrastructure Focus Area	3-5 Years	Not Funded	$3,000,000	Jefferson		
SX21111119	Green Infrastructure Flood Control Basins Retrofit for Water Qua	3-5 Years	Not Funded	$2,400,000	Jefferson		

System Summary for Louisville & Jefferson County MSD - Shadow Wood Subdivision

Permit ID	KY0031810	Treats Wastewater	Yes, 0.085 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	79
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	50	Total Treated (MG)	10.680
Commercial Customers	29	Number of Manholes	63
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	86%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 3.35 miles (Collection: 3.35 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Shadow Wood Subdivision

System Summary for Louisville & Jefferson County MSD - Silver Heights

Permit ID	KY0028801	Treats Wastewater	Yes, 0.5 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	571
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	571	Total Treated (MG)	105.550
Commercial Customers	-	Number of Manholes	159
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 6.98 miles (Collection: 6.98 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Silver Heights

System Summary for Louisville & Jefferson County MSD - Starview

Permit ID	KY0031712	Treats Wastewater	Yes, 0.1 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	162
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	144	Total Treated (MG)	34.580
Commercial Customers	18	Number of Manholes	71
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	82%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed

Total Collection System Line Length = 2.80 miles (Collection: 2.80 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Starview

System Summary for Louisville & Jefferson County MSD - Timberlake

Permit ID	KY0043087	Treats Wastewater	Yes, 0.2 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	332
Owner Type	Metropolitan Sewer District (KRS 76)	KISOP Sender	No
Employees	606	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.74	Total KISOP Treated (MG)	-
Residential Customers	317	Total Treated (MG)	36.170
Commercial Customers	15	Number of Manholes	181
Institutional Customers	-	Number of Lift Stations	11
Industrial Customers	-	Percent Lines 20 yrs or Older	73%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 8.77 miles (Collection: 8.77 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Louisville & Jefferson County MSD - Timberlake

Oldham County

- 2010 census population of 60,316 (20,688 households) with 53% serviceable.
- Projected 2020 population of 74,990 (change of 14,674).
- Oldham County has 246.24 miles of existing sewer lines.
- 9.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- 4.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $48,567,302.
- Estimated funding needs for projects from 6 to 10 years: $19,730,601.



Oldham County has a 2010 census population count of 60,316 (20,688 households) with a projected 2020 population count of 74,990 (26,354 households). Public sewer is currently available to approximately 53 percent of the county's households based on 2010 census counts. Over the next ten years approximately 908 serviceable households will be added through the construction of 9.00 miles of sewer line extensions and approximately 5,198 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances. 4.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Crestwood	1	$3,691,500	-	-	-	-	2.00
La Grange Utilities Commission	8	$8,437,300	488	5,080	9.00	-	2.00
Oldham County Environmental Authority	12	$52,258,441	358	-	-	-	-
Oldham County Fiscal Court	4	$3,910,662	62	118	-	1.00	-
Totals:	**25**	**$68,297,903**	**908**	**5,198**	**9.00**	**1.00**	**4.00**

Public Wastewater Systems in Oldham County

Note: Serviceability counts are for households within Oldham county only.

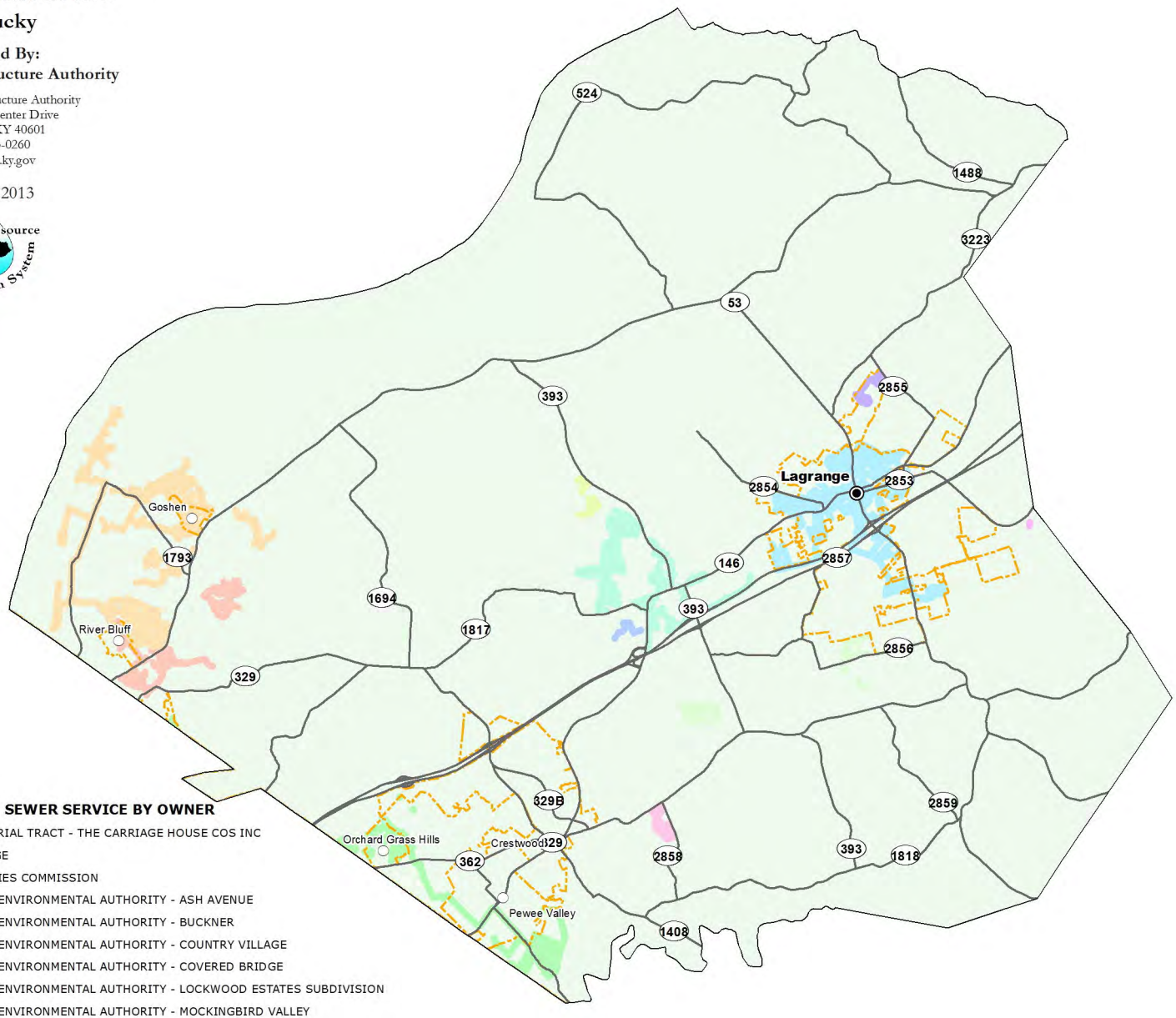
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020001	Lagrange Utilities Commission	Oldham	7,966	3,169
KY0103110	Oldham County Environmental Authority - Buckner	Oldham	3,150	668
KY0060577	Oldham County Environmental Authority - Country Village	Oldham	544	207
KY0039870	Oldham County Environmental Authority - Lakewood Valley STP	Oldham	785	278
KY0054674	Oldham County Environmental Authority - Lockwood Estates Subdivision	Oldham	299	112
KY0076813	Oldham County Environmental Authority - Mockingbird Valley	Oldham	140	43
KY0106143	Oldham County Environmental Authority - Ohio River	Oldham	7,868	2,663
KY0033821	Oldham County Environmental Authority - Orchard Grass	Oldham	2,894	977
KY0046264	Oldham County Environmental Authority - Willow Creek	Oldham	244	95
KY0078026	Oldham Woods Subdivision	Oldham	143	52
KY0022420	Louisville & Jefferson County MSD - Hite Creek	Jefferson	6,670	2,459
KY0029114	Louisville & Jefferson County MSD - Hunting Creek South	Jefferson	42	14
		Totals:	30,745	10,737

SEWER SERVICE AREAS
OLDHAM COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
(502) 573-0260
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March, 2013



SEWER SERVICE BY OWNER

- BUCKNER INDUSTRIAL TRACT - THE CARRIAGE HOUSE COS INC
- CEDAR LAKE LODGE
- LAGRANGE UTILITIES COMMISSION
- OLDHAM COUNTY ENVIRONMENTAL AUTHORITY - ASH AVENUE
- OLDHAM COUNTY ENVIRONMENTAL AUTHORITY - BUCKNER
- OLDHAM COUNTY ENVIRONMENTAL AUTHORITY - COUNTRY VILLAGE
- OLDHAM COUNTY ENVIRONMENTAL AUTHORITY - COVERED BRIDGE
- OLDHAM COUNTY ENVIRONMENTAL AUTHORITY - LOCKWOOD ESTATES SUBDIVISION
- OLDHAM COUNTY ENVIRONMENTAL AUTHORITY - MOCKINGBIRD VALLEY
- OLDHAM COUNTY ENVIRONMENTAL AUTHORITY - OHIO RIVER
- OLDHAM WOODS SUBDIVISION

System Summary for Lagrange Utilities Commission

Permit ID	KY0020001	Treats Wastewater	Yes, 0.77 MGD with 0.83 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,792
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	10	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$24.27	Total KISOP Treated (MG)	-
Residential Customers	2,437	Total Treated (MG)	302.560
Commercial Customers	287	Number of Manholes	723
Institutional Customers	-	Number of Lift Stations	16
Industrial Customers	-	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed

Total Collection System Line Length = 40.08 miles (Collection: 40.03 miles, Interceptors: 0.05 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lagrange Utilities Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21185010	I-71 Interceptor Sewer Replacement	3-5 Years	Not Funded	$694,000	Oldham	2	1
SX21185011	South Pump Station	3-5 Years	Not Funded	$688,000	Oldham	7	2
SX21185005	Madison Street Lift Station Upgrade	3-5 Years	Not Funded	$306,500	Oldham	13	3
SX21185002	Crystal Lake Gravity System	3-5 Years	Not Funded	$3,200,000	Oldham		
SX21103016	Lagrange - Pendleton Road, Exit 28 Sewer Expansion	3-5 Years	Not Funded	$2,685,000	Henry		
SX21185008	FT. Pickens/Quail Run Extension	3-5 Years	Not Funded	$475,200	Oldham		
SX21185009	Zale Smith Extensions	3-5 Years	Not Funded	$343,600	Oldham		
SX21185012	Dawkins Road Extension	3-5 Years	Not Funded	$45,000	Oldham		

System Summary for Oldham County Environmental Authority - Ash Avenue

Permit ID	KY0024724	Treats Wastewater	Yes, 0.3 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	19	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$42.00	Total KISOP Treated (MG)	-
Residential Customers	963	Total Treated (MG)	116.800
Commercial Customers	-	Number of Manholes	260
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	60%
KISOP Customers	-	Has Facility Plan	No

Total Collection System Line Length = 6.19 miles (Collection: 6.19 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Oldham County Environmental Authority - Ash Avenue

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21185048	KY 362 South	3-5 Years	Not Funded	$2,389,550	Oldham		
SX21185049	Ashbrooke Subdivision At Confederate Place Drive	3-5 Years	Not Funded	$633,334	Oldham		
SX21185046	KY 362 North	3-5 Years	Not Funded	$477,778	Oldham		
SX21185047	KY 362 Culvert	3-5 Years	Not Funded	$410,000	Oldham		

System Summary for Oldham County Environmental Authority - Buckner

Permit ID	KY0103110	Treats Wastewater	Yes, 0.13 MGD with 0.2 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	15	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$42.00	Total KISOP Treated (MG)	-
Residential Customers	579	Total Treated (MG)	59.130
Commercial Customers	-	Number of Manholes	373
Institutional Customers	-	Number of Lift Stations	13
Industrial Customers	-	Percent Lines 20 yrs or Older	35%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 28.10 miles (Collection: 25.96 miles, Interceptors: 2.14 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Oldham County Environmental Authority - Buckner

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21185051	OCEA Lift Station Rehab, Renovation, and Replacement	3-5 Years	Not Funded	$2,005,000	Oldham	19	6
SX21185038	I/I Program	6-10 Years	Not Funded	$2,000,000	Oldham		

System Summary for Oldham County Environmental Authority - Country Village

Permit ID	KY0060577	Treats Wastewater	Yes, 0.06 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	15	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$42.00	Total KISOP Treated (MG)	-
Residential Customers	236	Total Treated (MG)	24.090
Commercial Customers	-	Number of Manholes	64
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 2.42 miles (Collection: 2.42 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Oldham County Environmental Authority - Country Village

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21185040	Country Village WWTP Decommissioning	6-10 Years	Not Funded	$750,000	Oldham		

System Summary for Oldham County Environmental Authority - Lakewood Valley STP

Permit ID	KY0039870	Treats Wastewater	Yes, 0.1 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	15	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$42.00	Total KISOP Treated (MG)	-
Residential Customers	238	Total Treated (MG)	26.280
Commercial Customers	-	Number of Manholes	47
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 3.20 miles (Collection: 2.76 miles, Interceptors: 0.45 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Oldham County Environmental Authority - Lakewood Valley STP

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21185018	Lakewood Valley Decommissioning and Septic Tank Removal	6-10 Years	Not Funded	$10,680,601	Oldham		
SX21185038	I/I Program	6-10 Years	Not Funded	$2,000,000	Oldham		

System Summary for Oldham County Environmental Authority - Lockwood Estates Subdivision

Permit ID	KY0054674	Treats Wastewater	Yes, 0.045 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type		KISOP Sender	No
Employees	15	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$42.00	Total KISOP Treated (MG)	-
Residential Customers	64	Total Treated (MG)	26.280
Commercial Customers	-	Number of Manholes	40
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 2.21 miles (Collection: 2.21 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Oldham County Environmental Authority - Lockwood Estates Subdivision

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21185042	Lockwood Sewer Collection System Expansion	6-10 Years	Not Funded	$4,800,000	Oldham		
SX21185043	Lockwood WWTP Decommissioning	3-5 Years	Not Funded	$352,000	Oldham		

System Summary for Oldham County Environmental Authority - Mockingbird Valley

Permit ID	KY0076813	Treats Wastewater	Yes, 0.04 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type		KISOP Sender	No
Employees	15	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$42.00	Total KISOP Treated (MG)	-
Residential Customers	52	Total Treated (MG)	9.490
Commercial Customers	-	Number of Manholes	30
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 1.56 miles (Collection: 1.15 miles, Interceptors: 0.41 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Oldham County Environmental Authority - Mockingbird Valley

System Summary for Oldham County Environmental Authority - Ohio River

Permit ID	KY0106143	Treats Wastewater	Yes, 1.5 MGD with 0.43 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	15	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$42.00	Total KISOP Treated (MG)	-
Residential Customers	2,237	Total Treated (MG)	160.600
Commercial Customers	-	Number of Manholes	599
Institutional Customers	-	Number of Lift Stations	23
Industrial Customers	-	Percent Lines 20 yrs or Older	45%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 53.43 miles (Collection: 43.17 miles, Interceptors: 10.27 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Oldham County Environmental Authority - Ohio River

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21185051	OCEA Lift Station Rehab, Renovation, and Replacement	3-5 Years	Not Funded	$2,005,000	Oldham	19	6
SX21185057	Covered Bridge Road Liftstation Wetwell Improvement	3-5 Years	Not Funded	$150,000	Oldham		

System Summary for Oldham County Environmental Authority - Orchard Grass

Permit ID	KY0033821	Treats Wastewater	Yes, 0.3 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	15	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$42.00	Total KISOP Treated (MG)	-
Residential Customers	839	Total Treated (MG)	94.900
Commercial Customers	-	Number of Manholes	258
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 11.89 miles (Collection: 11.32 miles, Interceptors: 0.57 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Oldham County Environmental Authority - Orchard Grass

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21185053	Orchard Grass Regional WWTP Phase 3	3-5 Years	Not Funded	$6,300,000	Oldham	16	4
SX21185052	Orchard Grass Regional WWTP Phase 2	0-2 Years	Partially Funded	$13,366,800	Oldham		
SX21185024	Crestwood Area Wastewater Expansion	3-5 Years	Not Funded	$6,285,960	Oldham		
SX21185038	I/I Program	6-10 Years	Not Funded	$2,000,000	Oldham		

System Summary for Oldham County Environmental Authority - Willow Creek

Permit ID	KY0046264	Treats Wastewater	Yes, 0.14 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	15	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$42.00	Total KISOP Treated (MG)	-
Residential Customers	345	Total Treated (MG)	50.735
Commercial Customers	-	Number of Manholes	65
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No

Total Collection System Line Length = 2.85 miles (Collection: 2.85 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Oldham County Environmental Authority - Willow Creek

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21185024	Crestwood Area Wastewater Expansion	3-5 Years	Not Funded	$6,285,960	Oldham		
SX21185038	I/I Program	6-10 Years	Not Funded	$2,000,000	Oldham		

System Summary for Oldham Woods Subdivision

Permit ID	KY0078026	Treats Wastewater	Yes, 0.1 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 1.71 miles (Collection: 1.56 miles, Interceptors: 0.16 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Oldham Woods Subdivision

System Summary for River Bluffs Inc Subd

Permit ID	KY0043150	Treats Wastewater	Yes, 0.066 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$20.47	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for River Bluffs Inc Subd

Shelby County

- 2010 census population of 42,074 (16,606 households) with 52% serviceable.
- Projected 2020 population of 51,944 (change of 9,870).
- Shelby County has 111.82 miles of existing sewer lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- 6.00 miles of line rehabilitation proposed in the next 10 years.
- 3.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,168,063.
- There are no projects planned from 6 to 10 years.



Shelby County has a 2010 census population count of 42,074 (16,606 households) with a projected 2020 population count of 51,944 (19,663 households). Public sewer is currently available to approximately 52 percent of the county's households based on 2010 census counts. Over the next ten years approximately 6 serviceable households will be added through the construction of 1.00 miles of sewer line extensions and approximately 343 instances of improved service through the rehabilitation of 6.00 miles of existing sewer lines and other appurtenances. 3.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Simpsonville	2	$768,800	-	-	-	-	-
Shelby County Fiscal Court	1	$1,250,000	-	-	-	-	3.00
Shelbyville Municipal Water & Sewer Commission	4	$6,149,263	6	343	1.00	6.00	-
Totals:	**7**	**$8,168,063**	**6**	**343**	**1.00**	**6.00**	**3.00**

Public Wastewater Systems in Shelby County

Note: Serviceability counts are for households within Shelby county only.

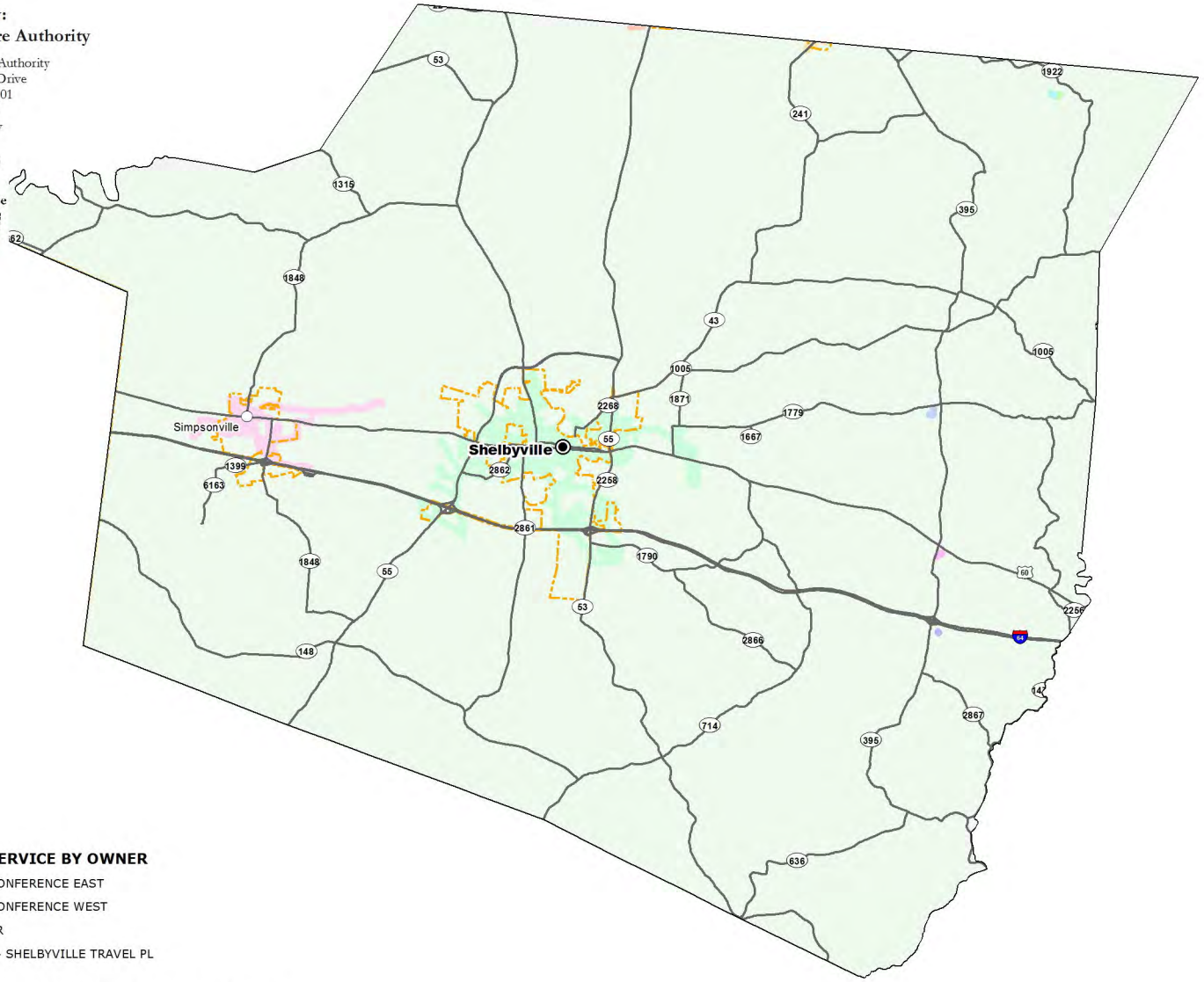
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020427	Shelbyville Municipal Water & Sewer Commission	Shelby	18,714	7,506
KY0065889	Simpsonville Wastewater	Shelby	2,644	1,057
KYP000036	Pleasureville	Henry	74	33
		Totals:	21,432	8,596

SEWER SERVICE AREAS
SHELBY COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



SEWER SERVICE BY OWNER

- CEDARMORE BAPTIST CONFERENCE EAST
- CEDARMORE BAPTIST CONFERENCE WEST
- EMINENCE WASTEWATER
- FLYING J TRUCK PLAZA - SHELBYVILLE TRAVEL PL
- PLEASUREVILLE
- SHELBY COUNTY SCHOOL DISTRICT - HERITAGE ELEMENTARY SCHOOL
- SHELBYVILLE MUNICIPAL WATER & SEWER COMMISSION
- SIMPSONVILLE WASTEWATER
- WADDY TRAVEL CENTERS LLC

System Summary for Persimmon Ridge Develop

Permit ID	KY0090956	Treats Wastewater	Yes, 0.142 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.30	Total KISOP Treated (MG)	-
Residential Customers	316	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	166
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	10%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Persimmon Ridge Develop

System Summary for Shelbyville Municipal Water & Sewer Commission

Permit ID	KY0020427	Treats Wastewater	Yes, 2.7 MGD with 2.19 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	6,988
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	23	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$17.83	Total KISOP Treated (MG)	-
Residential Customers	6,520	Total Treated (MG)	832.565
Commercial Customers	402	Number of Manholes	1730
Institutional Customers	28	Number of Lift Stations	25
Industrial Customers	38	Percent Lines 20 yrs or Older	70%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed

Total Collection System Line Length = 86.10 miles (Collection: 84.41 miles, Interceptors: 1.69 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Shelbyville Municipal Water & Sewer Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21211017	Shelby County Cooperative Extension Office	0-2 Years	Not Funded	$469,263	Shelby	1	1
SX21211008	Eminence Pike Gravity Sewers	3-5 Years	Not Funded	$2,380,000	Shelby	8	2
SX21211009	US 60 East Gravity Sewers	3-5 Years	Not Funded	$2,500,000	Shelby		
SX21211018	Project Cobra-Phase I	0-2 Years	Not Funded	$1,250,000	Shelby		
SX21211010	Benson Rd Gravity Sewers	3-5 Years	Partially Funded	$800,000	Shelby		

System Summary for Simpsonville Wastewater

Permit ID	KY0065889	Treats Wastewater	Yes, 0.2 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	836
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$20.00	Total KISOP Treated (MG)	-
Residential Customers	800	Total Treated (MG)	101.835
Commercial Customers	87	Number of Manholes	450
Institutional Customers	8	Number of Lift Stations	7
Industrial Customers	7	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 24.88 miles (Collection: 21.53 miles, Interceptors: 3.35 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Simpsonville Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21211014	Fast Action Response & Management (Farm) Project	3-5 Years	Not Funded	$336,000	Shelby	15	3
SX21211016	Simpsonville Outlet Shoppes Sewer Extension	0-2 Years	Not Funded	$432,800	Shelby		

Spencer County

- 2010 census population of 17,061 (6,704 households) with 10% serviceable.
- Projected 2020 population of 23,655 (change of 6,594).
- Spencer County has 14.43 miles of existing sewer lines.
- 5.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,650,000.
- There are no projects planned from 6 to 10 years.



Spencer County has a 2010 census population count of 17,061 (6,704 households) with a projected 2020 population count of 23,655 (9,025 households). Public sewer is currently available to approximately 10 percent of the county's households based on 2010 census counts. Over the next ten years approximately 220 serviceable households will be added through the construction of 5.00 miles of sewer line extensions.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Spencer County Fiscal Court	1	$1,650,000	220	-	5.00	-	-
Totals:	**1**	**$1,650,000**	**220**	**-**	**5.00**	**-**	**-**

Public Wastewater Systems in Spencer County

Note: Serviceability counts are for households within Spencer county only.

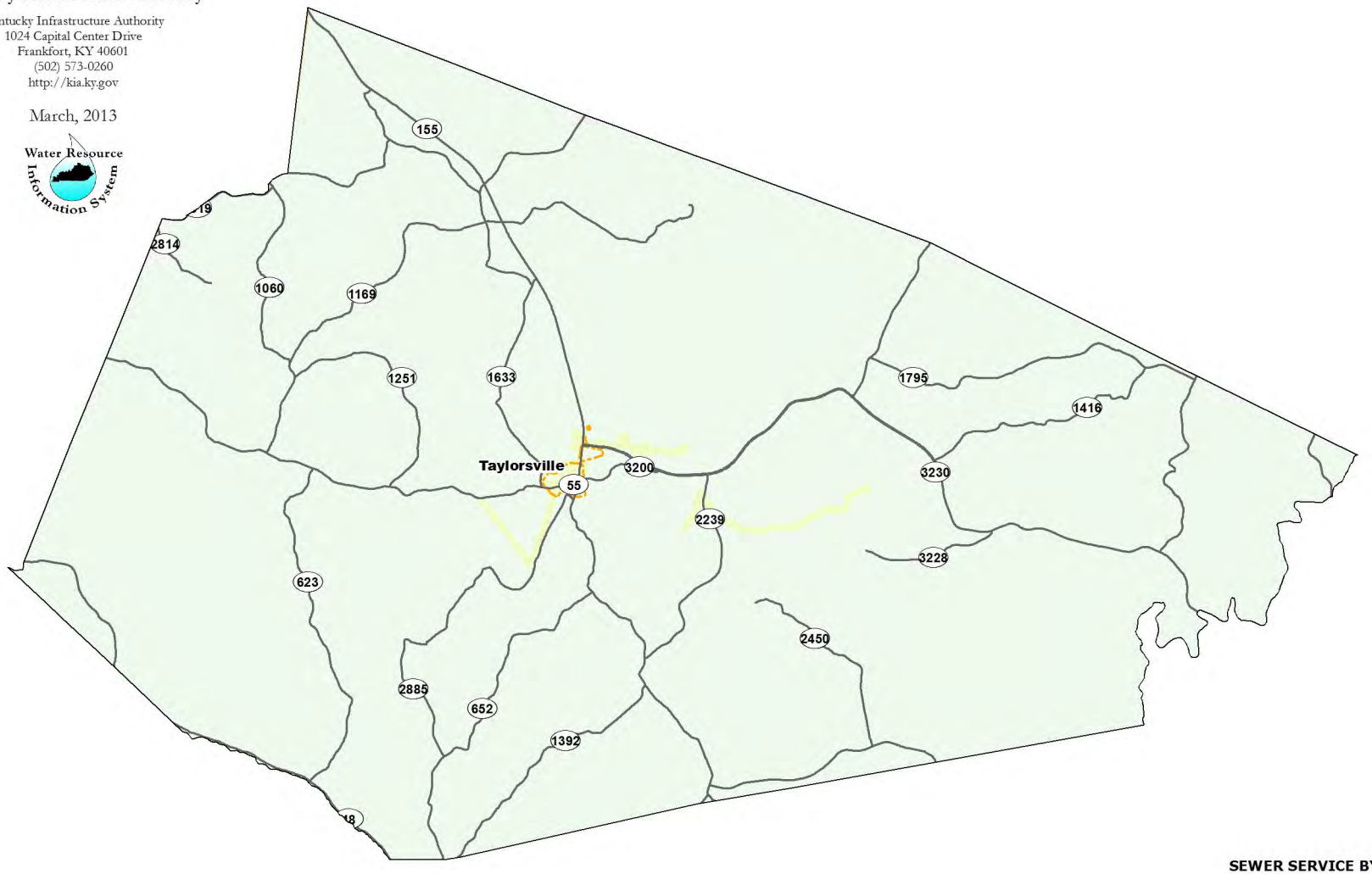
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0028142	Taylorsville Wastewater	Spencer	1,395	647
		Totals:	1,395	647

SEWER SERVICE AREAS
SPENCER COUNTY
Kentucky

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March, 2013



System Summary for Taylorsville Wastewater

Permit ID	KY0028142	Treats Wastewater	Yes, 0.2 MGD with 0.16 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	574
Owner Type	Incorporated City	KISOP Sender	No
Employees	15	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$29.57	Total KISOP Treated (MG)	-
Residential Customers	423	Total Treated (MG)	73.000
Commercial Customers	142	Number of Manholes	400
Institutional Customers	9	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 11.41 miles (Collection: 9.22 miles, Interceptors: 2.19 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Taylorsville Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21215004	KY Highway 155 Sanitary Sewer Force Main	3-5 Years	Not Funded	$1,650,000	Spencer		

System Summary for Top Flight Landing

Permit ID	KY0105074	Treats Wastewater	Yes, 0.12 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Top Flight Landing

Trimble County

- 2010 census population of 8,809 (3,930 households) with 24% serviceable.
- Projected 2020 population of 9,514 (change of 705).
- Trimble County has 26.21 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $685,000.
- Estimated funding needs for projects from 6 to 10 years: $995,000.



Trimble County has a 2010 census population count of 8,809 (3,930 households) with a projected 2020 population count of 9,514 (3,855 households). Public sewer is currently available to approximately 24 percent of the county's households based on 2010 census counts. Over the next ten years approximately 25 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Bedford	3	$705,000	-	-	-	-	-
City of Milton	2	$975,000	-	25	-	1.00	-
Totals:	**5**	**$1,680,000**	**-**	**25**	**-**	**1.00**	**-**

Public Wastewater Systems in Trimble County

Note: Serviceability counts are for households within Trimble county only.

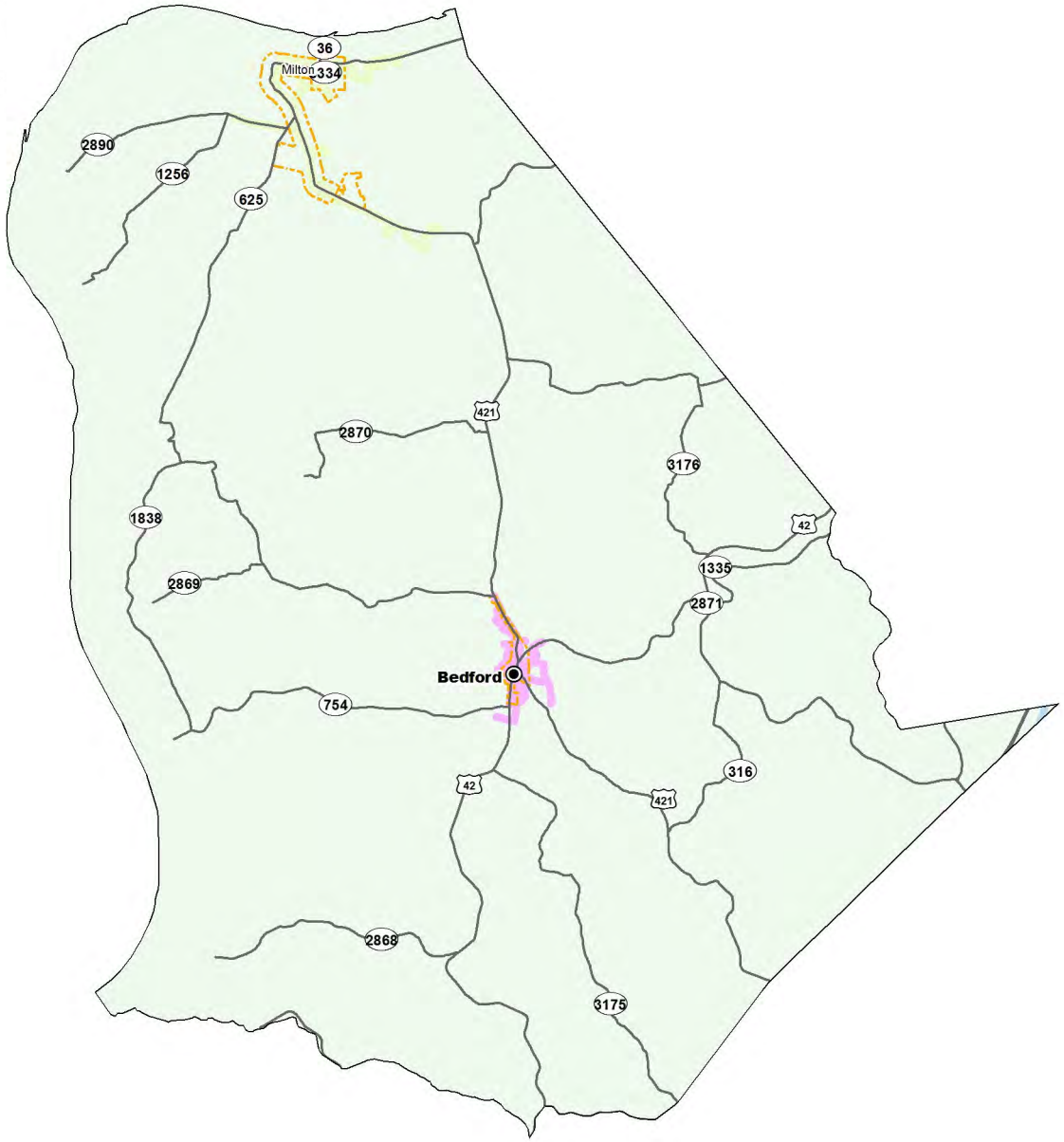
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0069825	Bedford Wastewater	Trimble	983	431
KY0088625	Milton Wastewater	Trimble	1,055	517
		Totals:	2,038	948

SEWER SERVICE AREAS
TRIMBLE COUNTY
Kentucky

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March, 2013



System Summary for Bedford Wastewater

Permit ID	KY0069825	Treats Wastewater	Yes, 0.13 MGD with 0.18 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	320
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.40	Total KISOP Treated (MG)	-
Residential Customers	274	Total Treated (MG)	12.530
Commercial Customers	13	Number of Manholes	0
Institutional Customers	33	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 70% Constructed
Total Collection System Line Length = 9.30 miles (Collection: 9.17 miles, Interceptors: 0.13 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bedford Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21223008	Pump Station Rehabilitation	3-5 Years	Not Funded	$125,000	Trimble	5	1
SX21223010	Collection System Improvements & I/I Mitigation	6-10 Years	Not Funded	$370,000	Trimble	14	3
SX21223001	Duplex Pump Station	3-5 Years	Not Funded	$210,000	Trimble		

System Summary for Milton Wastewater

Permit ID	KY0088625	Treats Wastewater	Yes, 0.16 MGD with 0.105 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	442
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$29.75	Total KISOP Treated (MG)	-
Residential Customers	427	Total Treated (MG)	29.565
Commercial Customers	14	Number of Manholes	100
Institutional Customers	1	Number of Lift Stations	16
Industrial Customers	-	Percent Lines 20 yrs or Older	5%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 16.69 miles (Collection: 16.44 miles, Interceptors: 0.25 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Milton Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21223011	City of Milton - I/I Mitigation	3-5 Years	Not Funded	$350,000	Trimble	9	2
SX21223012	City of Milton Main Trunk Sewers Cleaning, Televising and Repair	6-10 Years	Not Funded	$625,000	Trimble	17	4

Kentucky River Area Development District (KRADD)



- 2010 census population of 114,762 (52,786 households) with 22% serviceable.
- Projected 2020 population of 111,267 (change of -3,495).
- 270.00 miles of existing sewer lines.
- 117.00 miles of line extensions proposed in the next 10 years.
- 8.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $60,088,494.
- Estimated funding needs for projects from 6 to 10 years: $7,372,000.
- Average age of wastewater treatment plants is 24 years.
- Total number of interconnected systems is 1.
- 103 miles of sewer lines less than 15 years old.
- 53 miles of sewer lines between 15 and 30 years old.
- 101 miles of sewer lines between 31 and 50 years old.
- 1 miles of sewer lines between 51 and 70 years old.
- 0 miles of sewer lines greater than 70 years old.

Kentucky River Area Development District has a 2010 census population count of 114,762 (52,786 households) with a projected 2020 population count of 111,267 (45,823 households). Public sewer is currently available to approximately 22 percent of the district's households based on 2010 census counts. Over the next ten years approximately 2,296 serviceable households will be added through the construction of 117.00 miles of sewer line extensions and approximately 9,618 instances of improved service through the rehabilitation of 8.00 miles of existing sewer lines and other appurtenances.

County Summary for Kentucky River Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Breathitt	13,878	6,231	12,495	5,046	1,401	23%	$ 5,090,650
Knott	16,346	7,461	15,635	6,332	885	12%	$ 11,909,005
Lee	7,887	3,436	7,820	3,014	973	28%	$ 8,575,000
Leslie	11,310	5,278	10,603	4,377	664	13%	$ 6,535,633
Letcher	24,519	11,601	24,237	10,161	3,303	29%	$ 11,456,800
Owsley	4,755	2,328	4,704	1,971	411	18%	$ 5,271,364
Perry	28,712	12,791	28,137	11,637	3,780	30%	$ 17,395,042
Wolfe	7,355	3,660	7,636	3,285	365	10%	$ 1,227,000
Totals	**114,762**	**52,786**	**111,267**	**45,823**	**11,782**	**22%**	**$ 67,460,494**

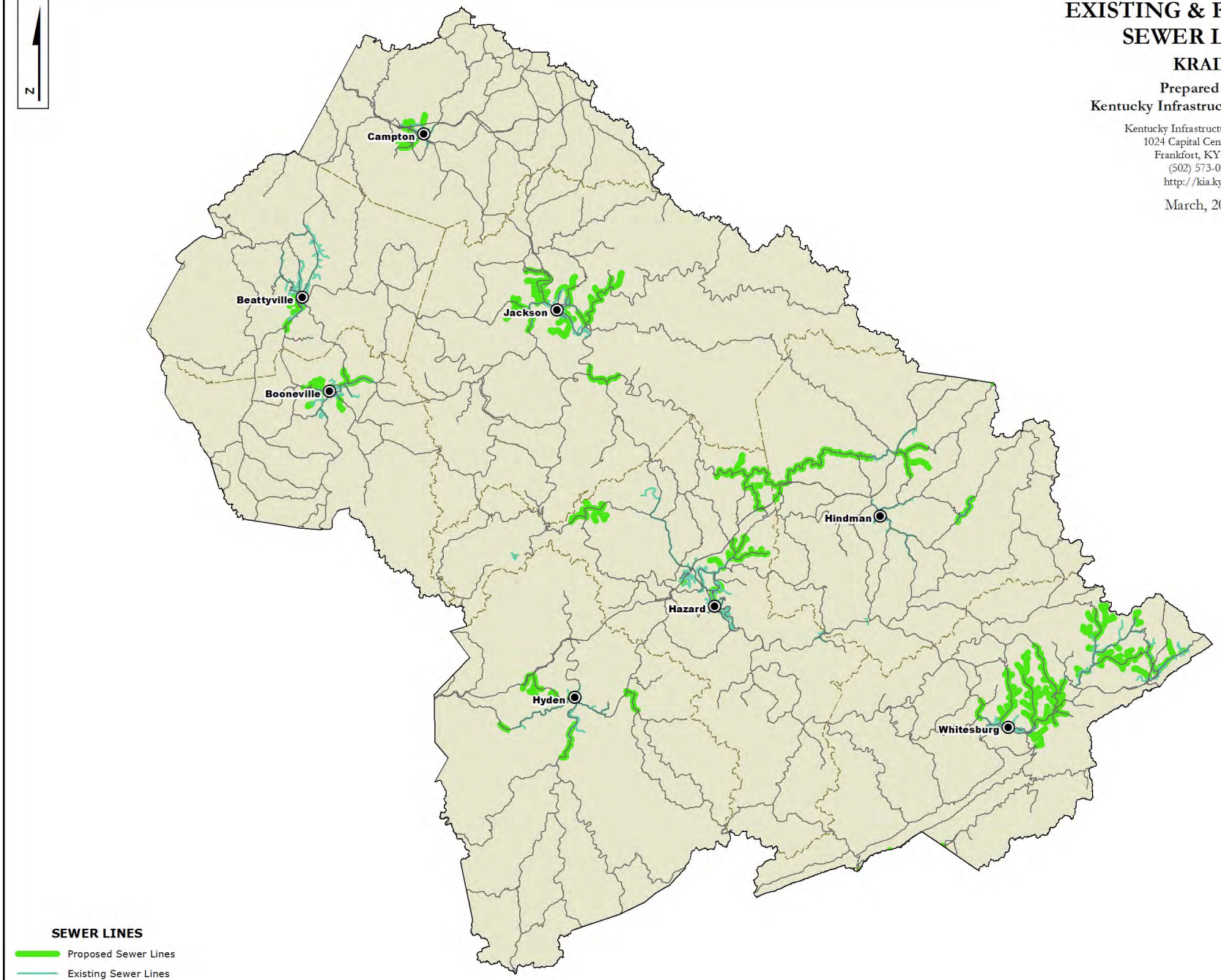
EXISTING & PROPOSED SEWER LINES

KRADD

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Kentucky Infrastructure Authority

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March, 2013



Public Sewer Systems in the Kentucky River Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021288	Jackson Wastewater	Breathitt	2,960	1,401
KY0027685	Hindman Wastewater	Knott	1,301	618
KY0042854	Knott County Water and Sewer District	Knott	548	107
KY0107956	Troublesome Creek Environmental Authority (Ball Creek)	Knott	264	121
KY0021121	Beattyville Wastewater	Lee	2,649	973
KY0021245	Hyden Wastewater Department	Leslie	1,430	664
KY0027405	Fleming-Neon Wastewater	Letcher	2,554	1,275
KY0038571	Jenkins Wastewater	Letcher	1,878	897
KY0103217	Letcher County Water & Sewer District - Millstone	Letcher	92	39
KY0106283	Whitesburg Wastewater	Letcher	2,355	1,092
KY0033774	Booneville Water and Sewer	Owsley	870	411
KY0020079	Hazard Wastewater	Perry	6,840	3,180
KYP000034	Perry County Sanitation District #1	Perry	961	440
KY0060259	Vicco Wastewater	Perry	427	191
KY0104728	Campton Wastewater Department	Wolfe	712	365
		Totals:	25,841	11,774

Kentucky River Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Extend Services to Unserved Areas**
Secondary Need: **Repair and Replace Existing Infrastructure**

Discussion of Area Development District Needs:

The majority of the area is now beginning to turn to wastewater service extensions as the past has mostly been focused on providing reliable and safe potable water to the residents. The majority of our counties are now reaching 80% served with potable water and some have even achieved 95-98% served. Our entities are now looking to improve the water quality and the environment by providing a reliable means of wastewater removal which will improve the streams that empty into the rivers most use for their water source. Many residents in the area rely on failing septic systems or straight pipes for their wastewater removal needs.

Those utilities who have provided wastewater removal services for the area, have done so for many years and are now facing aging infrastructure that is in constant need of repair and/or replacement. Many of the lines are constantly breaking and the lift stations are failing which creates the potential for contamination. Wastewater concerns are focused on replacement of degraded lines, rehabilitation of lift stations and plants and when rehabilitation of the plants is not feasible construction of new ones.

Description and Determination of Planning Units:

The Kentucky River Area Water Management Council reviewed the wastewater systems and their service areas located within the Kentucky River Area Development District. The Council designated the Kentucky River Area Development District boundary as the regional management area. Within the Kentucky River Region, the following wastewater systems and their respective wastewater management planning areas were designated by the Council:

Kentucky River Area Water Management Planning Areas

1. Breathitt County Wastewater Management Planning Area
a) Breathitt County Water District (Planning to provide wastewater service in near future)
b) Jackson Wastewater
c) Troublesome Creek Environmental Authority (stand alone plant)

2. Knott County Wastewater Management Planning Area
a) Hindman Wastewater
b) Knott Co. Water and Sewer District
c) Troublesome Creek Environmental Authority (stand alone plant)

3. Lee County Wastewater Management Planning Area
a) Beattyville Wastewater

4. Leslie County Wastewater Management Planning Area
a) Hyden Wastewater Department

5. Letcher County Wastewater Management Planning Area
a) Fleming-Neon Wastewater
b) Jenkins Wastewater
c) Letcher County Water and Sewer District
d) Whitesburg Wastewater

6. Owsley County Wastewater Management Planning Area
a) Booneville Water and Sewer

7. Perry County Wastewater Management Planning Area
a) Hazard Wastewater
b) Vicco Wastewater
c) Perry County Sanitation District #1
d) Troublesome Creek Environmental Authority

8. Wolfe County Wastewater Management Planning Area
a) Campton Wastewater

Kentucky River Area Development District
Project Ranking Methodology

The KRADD Water Management Council meets once a year to prioritize projects in our area. Our area's utility managers and chief executives begin the ranking by first reviewing the previous year's prioritization and then pair off by county to discuss their current projects. Each county is given a list of the profiles they have in the WRIS and then they rank their basic needs during this portion of the meeting.

Once the counties rank their projects the Council then begins the process of prioritizing the projects that are of the most concern for the region. The council first discusses everyone's top ranked county project. This discussion is based on service population, violations the entity has received, current funding, whether the project is for new or existing customers and the overall community need. Following this discussion the council then begins the process of selecting the top regional projects based on the information presented. The county with the most critical overall need is the first ranked and then the other counties follow suit.

The Kentucky River region's main concerns for water projects are those that address establishing new water service to areas that currently rely on failing or contaminated wells and areas that must haul water. The region is also faced with major rehab as most systems have lines that have been in place for 40+ years as well as rehabilitation of existing plants and in cases where rehab is to expensive then the construction of new plants.

Wastewater concerns are focused on rehabilitation of lift stations and plants and when rehabilitation of the plants is not feasible construction of new ones. The majority of the area is now beginning to turn to wastewater service extensions as the past has mostly been focused on providing reliable and safe potable water to the residents. The majority of our counties are now reaching 80% served and some have even achieved 95-98% served. Our entities are now looking to improve the water quality and the environment by providing a reliable means of wastewater removal which will improve the streams that empty into the rivers most utilize for their water source.

Project Rankings For Kentucky River Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21025007	Wal-Mart Area Sewer Project	3-5 Years	Not Funded	$510,000	Breathitt	1	1
SX21119811	TEA - Ball Creek Wastewater Lines Phase II	0-2 Years	Partially Funded	$2,684,850	Knott	2	1
SX21129003	West Beattyville Sewer Pump Station Project	0-2 Years	Not Funded	$575,000	Lee	3	1
SX21131211	Hyden - Wooton Sewer Plant Project	6-10 Years	Not Funded	$4,200,000	Leslie	4	1
SX21133009	Crafts Colley Sanitary Sewer Project - Phase 1	0-2 Years	Partially Funded	$1,099,800	Letcher	5	1
SX21189005	Booneville I/I Replacement Project	3-5 Years	Not Funded	$1,526,000	Owsley	6	1
SX21193008	PCSD#1 - Chavies Wastewater Collection System - Phase 1	0-2 Years	Not Funded	$678,000	Perry	7	1
SX21237004	Campton Sewer Rehab Project	3-5 Years	Not Funded	$1,227,000	Wolfe	8	1
SX21193009	PCSD#1 - Chavies Wastewater Collection System - Phase 2	0-2 Years	Not Funded	$559,030	Perry	9	2
SX21189002	Booneville Pump Station Rehab	3-5 Years	Not Funded	$273,500	Owsley	10	2
SX21133010	Whitesburg - Sandlick Area Sewer Extensions	6-10 Years	Not Funded	$2,053,000	Letcher	11	2
SX21131003	Hyden - Town Rehab Phase III	0-2 Years	Partially Funded	$565,633	Leslie	12	2
SX21129007	Beattyville - Wastewater Treatment Plant Expansion	3-5 Years	Not Funded	$6,000,000	Lee	13	2
SX21119007	Talcum Wastewater Line Extension	3-5 Years	Not Funded	$3,937,260	Knott	14	2
SX21025030	TEA - Breathitt County WWTP and Collection Lines Phase I	3-5 Years	Partially Funded	$4,580,650	Breathitt	15	2
			Total Cost:	**$30,469,723**			

Breathitt County

- 2010 census population of 13,878 (6,231 households) with 23% serviceable.
- Projected 2020 population of 12,495 (change of -1,383).
- Breathitt County has 26.71 miles of existing sewer lines.
- 3.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,090,650.
- There are no projects planned from 6 to 10 years.



Breathitt County has a 2010 census population count of 13,878 (6,231 households) with a projected 2020 population count of 12,495 (5,046 households). Public sewer is currently available to approximately 23 percent of the county's households based on 2010 census counts. Over the next ten years approximately 59 serviceable households will be added through the construction of 3.00 miles of sewer line extensions and approximately 13 instances of improved service through system wide upgrades.

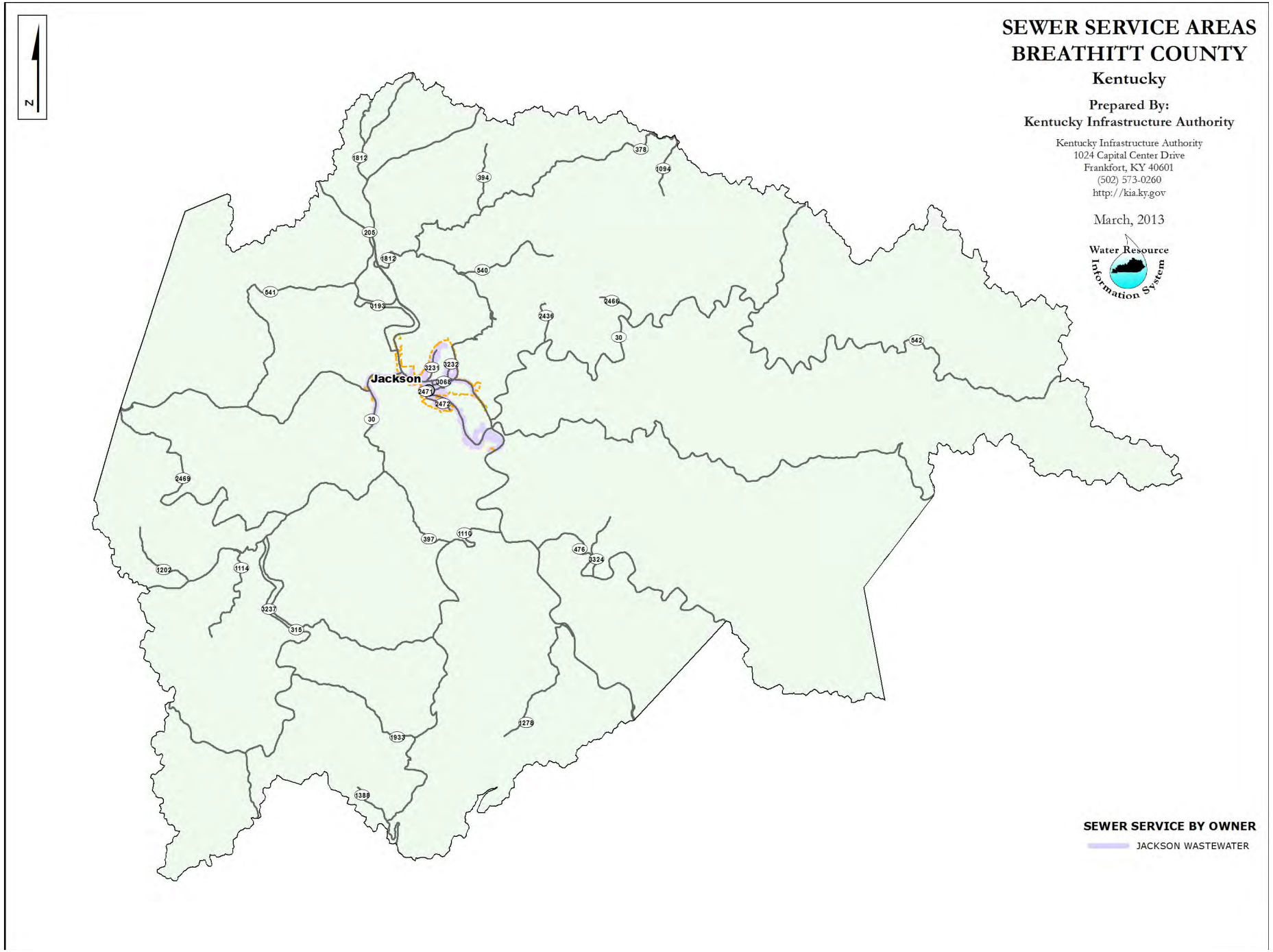
Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Jackson	1	$510,000	4	13	-	-	-
Troublesome Creek Environmental Authority	1	$4,580,650	55	-	3.00	-	-
Totals:	**2**	**$5,090,650**	**59**	**13**	**3.00**	**-**	**-**

Public Wastewater Systems in Breathitt County

Note: Serviceability counts are for households within Breathitt county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021288	Jackson Wastewater	Breathitt	2,960	1,401
		Totals:	2,960	1,401


SEWER SERVICE AREAS
BREATHITT COUNTY
Kentucky
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March, 2013
Water Resource Information System
N
Jackson
1812
394
378
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542
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2469
397
1110
476
3324
1202
1114
3237
315
1278
1933
1388
SEWER SERVICE BY OWNER
JACKSON WASTEWATER

System Summary for Jackson Wastewater

Permit ID	KY0021288	Treats Wastewater	Yes, 0.75 MGD with 0.28 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,281
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$38.52	Total KISOP Treated (MG)	-
Residential Customers	1,281	Total Treated (MG)	144.352
Commercial Customers	92	Number of Manholes	489
Institutional Customers	-	Number of Lift Stations	26
Industrial Customers	-	Percent Lines 20 yrs or Older	99%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 26.65 miles (Collection: 26.11 miles, Interceptors: 0.54 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jackson Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21025007	Wal-Mart Area Sewer Project	3-5 Years	Not Funded	$510,000	Breathitt	1	1

System Summary for Perry County Sanitation District #1

Permit ID	KY0107786	Treats Wastewater	Yes, 0.11 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$39.00	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 3% Constructed

Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Perry County Sanitation District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21193008	PCSD#1 - Chavies Wastewater Collection System - Phase 1	0-2 Years	Not Funded	$678,000	Perry	7	1
SX21193009	PCSD#1 - Chavies Wastewater Collection System - Phase 2	0-2 Years	Not Funded	$559,030	Perry	9	2
SX21193010	PCSD#1 - Chavies Wastewater Collection System - Phase 3	3-5 Years	Not Funded	$664,997	Perry		5
SX21193011	PCSD#1 - Chavies Wastewater Collection System - Phase 4	3-5 Years	Not Funded	$324,000	Perry		6
SX21193012	HWY 28 Force Main Project	3-5 Years	Not Funded	$1,941,000	Perry		

Knott County

- 2010 census population of 16,346 (7,461 households) with 12% serviceable.
- Projected 2020 population of 15,635 (change of -711).
- Knott County has 22.74 miles of existing sewer lines.
- 30.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $11,909,005.
- There are no projects planned from 6 to 10 years.



Knott County has a 2010 census population count of 16,346 (7,461 households) with a projected 2020 population count of 15,635 (6,332 households). Public sewer is currently available to approximately 12 percent of the county's households based on 2010 census counts. Over the next ten years approximately 600 serviceable households will be added through the construction of 30.00 miles of sewer line extensions and approximately 180 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Knott County Water & Sewer District	1	$27,023	-	130	-	-	-
Troublesome Creek Environmental Authority	5	$11,881,982	600	50	30.00	-	-
Totals:	**6**	**$11,909,005**	**600**	**180**	**30.00**	**-**	**-**

Public Wastewater Systems in Knott County

Note: Serviceability counts are for households within Knott county only.

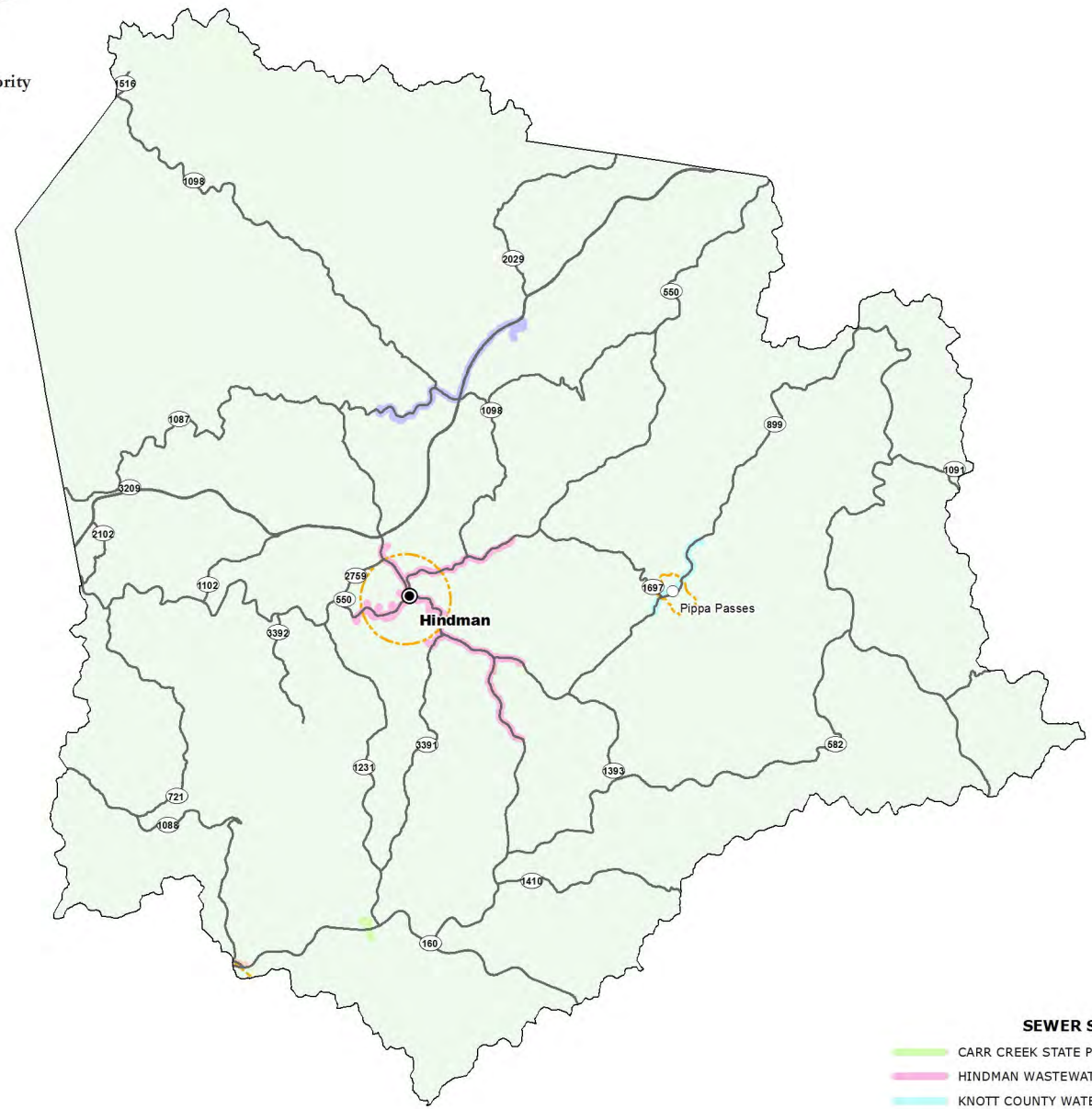
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0027685	Hindman Wastewater	Knott	1,301	618
KY0042854	Knott County Water and Sewer District	Knott	548	107
KY0107956	Troublesome Creek Environmental Authority (Ball Creek)	Knott	264	121
KY0060259	Vicco Wastewater	Perry	82	36
		Totals:	2,195	882

SEWER SERVICE AREAS
KNOTT COUNTY
Kentucky

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March, 2013



System Summary for Hindman Wastewater

Permit ID	KY0027685	Treats Wastewater	Yes, 0.12 MGD with 0.147 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	310
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$54.55	Total KISOP Treated (MG)	-
Residential Customers	310	Total Treated (MG)	53.487
Commercial Customers	-	Number of Manholes	80
Institutional Customers	-	Number of Lift Stations	13
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 35% Constructed
Total Collection System Line Length = 13.44 miles (Collection: 13.44 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Hindman Wastewater

System Summary for Knott County Water and Sewer District

Permit ID	KY0042854	Treats Wastewater	Yes, 0.1 MGD with 0.1 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	150
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	7	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.56	Total KISOP Treated (MG)	-
Residential Customers	149	Total Treated (MG)	36.500
Commercial Customers	1	Number of Manholes	35
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	99%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 2.30 miles (Collection: 2.30 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Knott County Water and Sewer District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21119811	TEA - Ball Creek Wastewater Lines Phase II	0-2 Years	Partially Funded	$2,684,850	Knott	2	1
SX21119011	Pippa Passes WWTP Improvements Project	0-2 Years	Not Funded	$27,023	Knott		
SX21119010	Ball Creek WWTP Improvements Project	0-2 Years	Partially Funded	$26,402	Knott		

System Summary for Troublesome Creek Environmental Authority (Ball Creek)

Permit ID	KY0107956	Treats Wastewater	Yes, 0.1 MGD with 0.002 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	51
Owner Type	Governmental Non-Profit Sewer Utility	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$40.00	Total KISOP Treated (MG)	-
Residential Customers	50	Total Treated (MG)	0.029
Commercial Customers	1	Number of Manholes	25
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No

Total Collection System Line Length = 6.03 miles (Collection: 6.03 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Troublesome Creek Environmental Authority (Ball Creek)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21119811	TEA - Ball Creek Wastewater Lines Phase II	0-2 Years	Partially Funded	$2,684,850	Knott	2	1
SX21119007	Talcum Wastewater Line Extension	3-5 Years	Not Funded	$3,937,260	Knott	14	2
SX21025030	TEA - Breathitt County WWTP and Collection Lines Phase I	3-5 Years	Partially Funded	$4,580,650	Breathitt	15	2
SX21119009	Possum Trot Wastewater Line Extension	3-5 Years	Not Funded	$2,640,010	Knott		3
SX21193007	Homeplace Clinic Wastewater Line Extension	3-5 Years	Not Funded	$2,593,460	Perry		7
SX21193051	TEA - Perry County Sewer Project Phase I	3-5 Years	Partially Funded	$4,689,780	Perry		8
SX21119010	Ball Creek WWTP Improvements Project	0-2 Years	Partially Funded	$26,402	Knott		

Lee County

- 2010 census population of 7,887 (3,436 households) with 28% serviceable.
- Projected 2020 population of 7,820 (change of -67).
- Lee County has 37.57 miles of existing sewer lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,575,000.
- There are no projects planned from 6 to 10 years.



Lee County has a 2010 census population count of 7,887 (3,436 households) with a projected 2020 population count of 7,820 (3,014 households). Public sewer is currently available to approximately 28 percent of the county's households based on 2010 census counts. Over the next ten years approximately 180 serviceable households will be added through the construction of 4.00 miles of sewer line extensions and approximately 1,590 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Beattyville	3	$8,575,000	180	1,590	4.00	-	-
Totals:	**3**	**$8,575,000**	**180**	**1,590**	**4.00**	**-**	**-**

Public Wastewater Systems in Lee County

Note: Serviceability counts are for households within Lee county only.

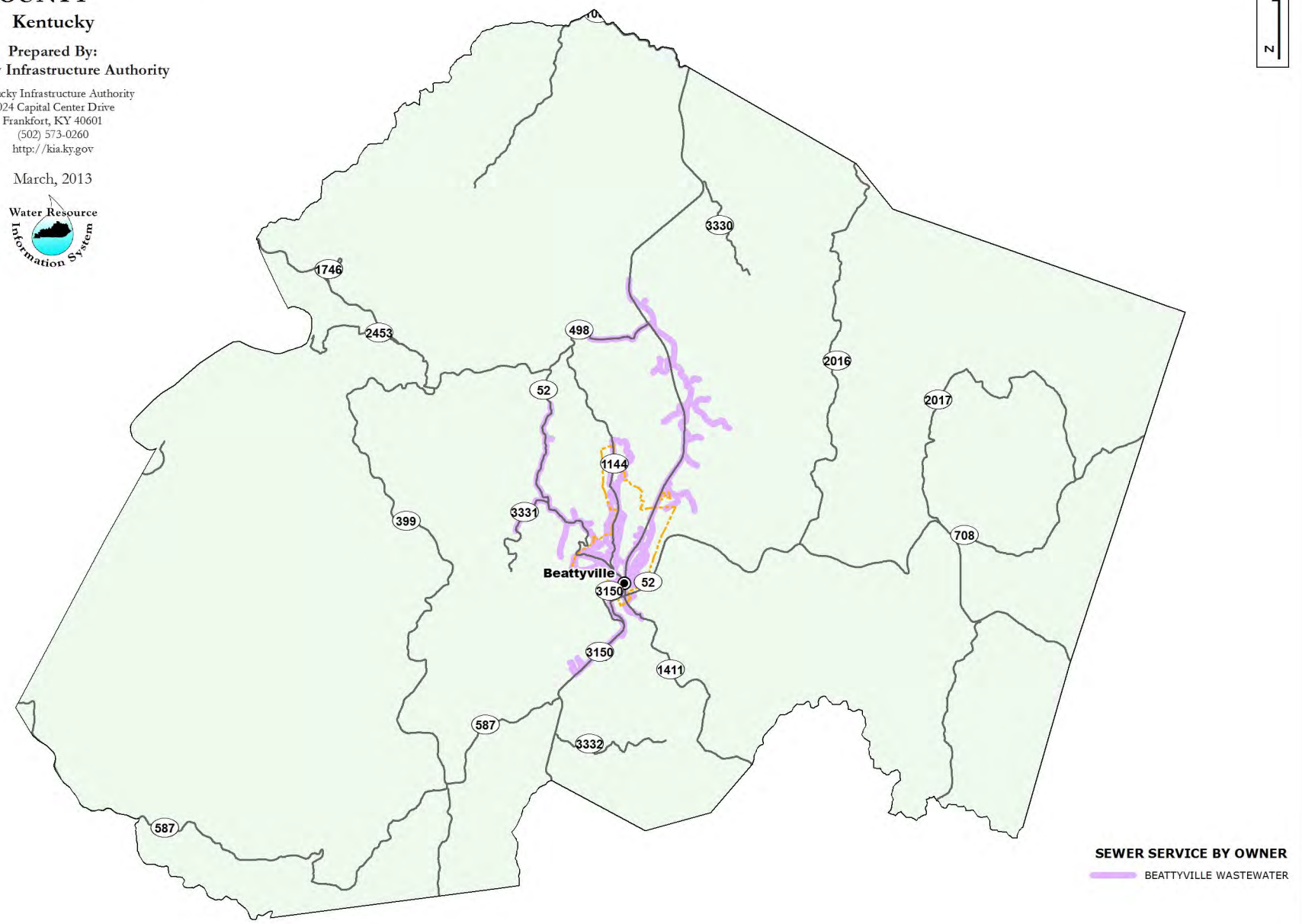
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021121	Beattyville Wastewater	Lee	2,649	973
		Totals:	2,649	973

SEWER SERVICE AREAS
LEE COUNTY
Kentucky

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March, 2013



System Summary for Beattyville Wastewater

Permit ID	KY0021121	Treats Wastewater	Yes, 0.3 MGD with 0.248 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	942
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$32.97	Total KISOP Treated (MG)	-
Residential Customers	790	Total Treated (MG)	90.440
Commercial Customers	110	Number of Manholes	376
Institutional Customers	-	Number of Lift Stations	14
Industrial Customers	1	Percent Lines 20 yrs or Older	60%
KISOP Customers	-	Has Facility Plan	Yes, 25% Constructed
Total Collection System Line Length = 37.52 miles (Collection: 34.34 miles, Interceptors: 3.18 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Beattyville Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21129003	West Beattyville Sewer Pump Station Project	0-2 Years	Not Funded	$575,000	Lee	3	1
SX21129007	Beattyville - Wastewater Treatment Plant Expansion	3-5 Years	Not Funded	$6,000,000	Lee	13	2
SX21129005	Beattyville Highway 11 South Sewer Line Extension	3-5 Years	Not Funded	$2,000,000	Lee		3
SX21083047	Mayfield Electric & Water-Combination Sewer Cleaning Truck	3-5 Years	Not Funded	$350,000	Graves		

Leslie County

- 2010 census population of 11,310 (5,278 households) with 13% serviceable.
- Projected 2020 population of 10,603 (change of -707).
- Leslie County has 21.52 miles of existing sewer lines.
- 10.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,335,633.
- Estimated funding needs for projects from 6 to 10 years: $4,200,000.



Leslie County has a 2010 census population count of 11,310 (5,278 households) with a projected 2020 population count of 10,603 (4,377 households). Public sewer is currently available to approximately 13 percent of the county's households based on 2010 census counts. Over the next ten years approximately 192 serviceable households will be added through the construction of 10.00 miles of sewer line extensions and approximately 2 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Hyden	4	$6,535,633	192	2	10.00	-	-
Totals:	**4**	**$6,535,633**	**192**	**2**	**10.00**	**-**	**-**

Public Wastewater Systems in Leslie County

Note: Serviceability counts are for households within Leslie county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021245	Hyden Wastewater Department	Leslie	1,430	664
		Totals:	1,430	664

SEWER SERVICE AREAS
LESLIE COUNTY
Kentucky

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March, 2013



N

SEWER SERVICE BY OWNER
HYDEN WASTEWATER DEPARTMENT

System Summary for Hyden Wastewater Department

Permit ID	KY0021245	Treats Wastewater	Yes, 0.2 MGD with 0.075 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	556
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.00	Total KISOP Treated (MG)	-
Residential Customers	430	Total Treated (MG)	10.200
Commercial Customers	126	Number of Manholes	33
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	20%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed
Total Collection System Line Length = 21.45 miles (Collection: 21.41 miles, Interceptors: 0.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hyden Wastewater Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21131211	Hyden - Wooton Sewer Plant Project	6-10 Years	Not Funded	$4,200,000	Leslie	4	1
SX21131003	Hyden - Town Rehab Phase III	0-2 Years	Partially Funded	$565,633	Leslie	12	2
SX21131002	Hyden - Wastewater Expansion Phase II	3-5 Years	Not Funded	$500,000	Leslie		3
SX21131004	Hyden - Sanitary Sewer Extensions Phase III	3-5 Years	Not Funded	$1,270,000	Leslie		4

Letcher County

- 2010 census population of 24,519 (11,601 households) with 29% serviceable.
- Projected 2020 population of 24,237 (change of -282).
- Letcher County has 57.52 miles of existing sewer lines.
- 39.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,284,800.
- Estimated funding needs for projects from 6 to 10 years: $3,172,000.



Letcher County has a 2010 census population count of 24,519 (11,601 households) with a projected 2020 population count of 24,237 (10,161 households). Public sewer is currently available to approximately 29 percent of the county's households based on 2010 census counts. Over the next ten years approximately 571 serviceable households will be added through the construction of 39.00 miles of sewer line extensions and approximately 885 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Jenkins	4	$4,185,000	88	885	3.00	-	-
City of Whitesburg	3	$6,172,000	425	-	31.00	-	-
Letcher County Fiscal Court	1	$1,099,800	58	-	5.00	-	-
Totals:	**8**	**$11,456,800**	**571**	**885**	**39.00**	**-**	**-**

Public Wastewater Systems in Letcher County

Note: Serviceability counts are for households within Letcher county only.

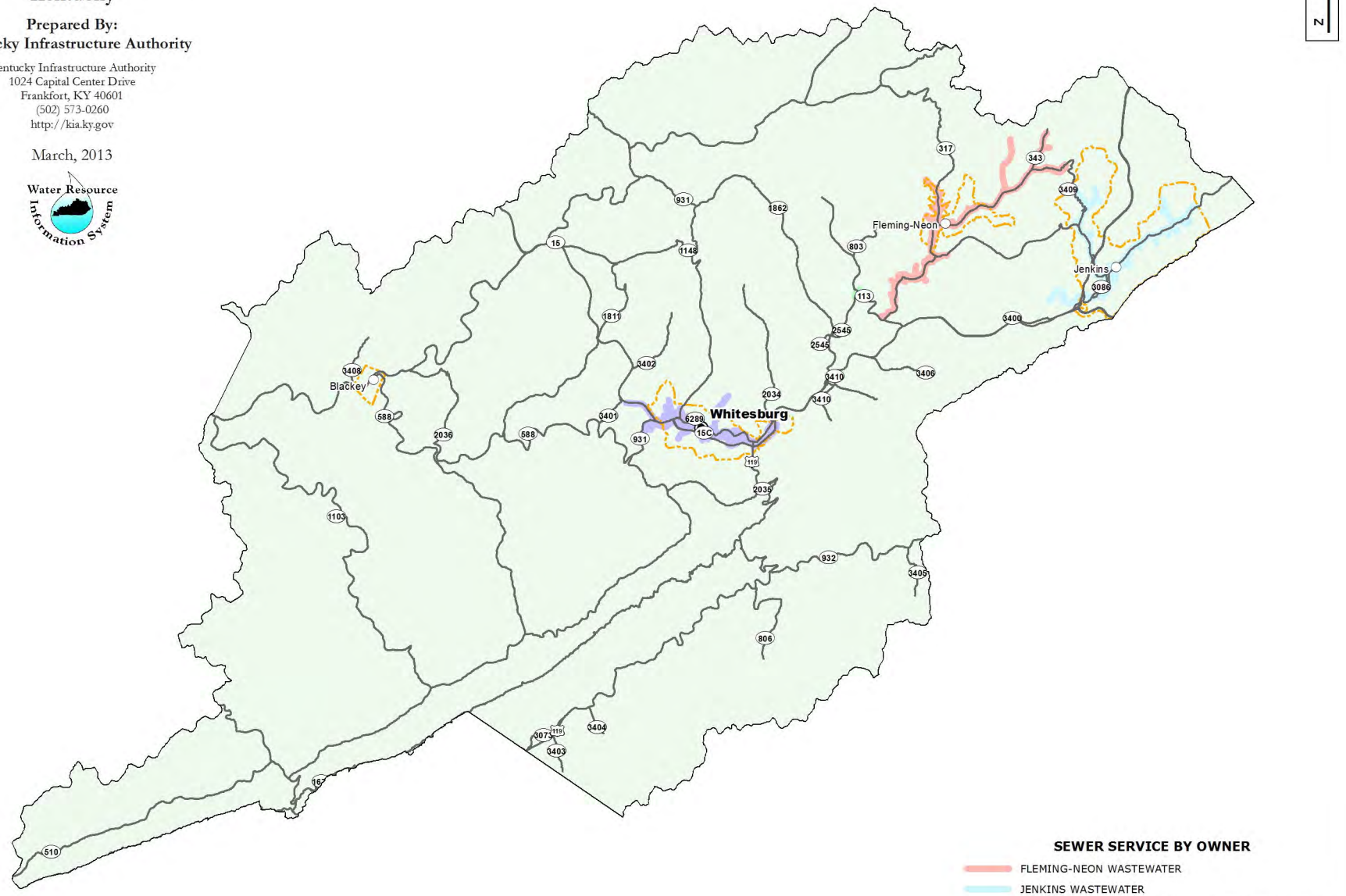
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0027405	Fleming-Neon Wastewater	Letcher	2,554	1,275
KY0038571	Jenkins Wastewater	Letcher	1,878	897
KY0103217	Letcher County Water & Sewer District - Millstone	Letcher	92	39
KY0106283	Whitesburg Wastewater	Letcher	2,355	1,092
		Totals:	6,879	3,303

SEWER SERVICE AREAS
LETCHER COUNTY
Kentucky

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March, 2013



System Summary for Fleming-Neon Wastewater

Permit ID	KY0027405	Treats Wastewater	Yes, 0.52 MGD with 0.162 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	857
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.75	Total KISOP Treated (MG)	-
Residential Customers	814	Total Treated (MG)	65.520
Commercial Customers	43	Number of Manholes	400
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 24.53 miles (Collection: 24.32 miles, Interceptors: 0.21 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Fleming-Neon Wastewater

System Summary for Jenkins Wastewater

Permit ID	KY0038571	Treats Wastewater	Yes, 0.6 MGD with 0.45 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	768
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$32.56	Total KISOP Treated (MG)	-
Residential Customers	701	Total Treated (MG)	164.250
Commercial Customers	52	Number of Manholes	200
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	60%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 15.72 miles (Collection: 15.54 miles, Interceptors: 0.18 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jenkins Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21133020	Jenkins - Wastewater Treatment Plant Improvements	3-5 Years	Not Funded	$1,200,000	Letcher		5
SX21133644	Jenkins Dairy Hollow Sewer Extension	3-5 Years	Not Funded	$250,000	Letcher		6
SX21133050	Jenkins - Joes Branch Sewer Line Extension	3-5 Years	Not Funded	$1,235,000	Letcher		7
SX21133885	Jenkins Various Sewer Extensions Project	3-5 Years	Not Funded	$1,500,000	Letcher		8

System Summary for Letcher County Water & Sewer District - Millstone

Permit ID	KY0103217	Treats Wastewater	Yes, 0.009 MGD with 0.002 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	22
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$20.00	Total KISOP Treated (MG)	-
Residential Customers	22	Total Treated (MG)	0.700
Commercial Customers	-	Number of Manholes	4
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.37 miles (Collection: 0.37 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Letcher County Water & Sewer District - Millstone

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21133009	Crafts Colley Sanitary Sewer Project - Phase 1	0-2 Years	Partially Funded	$1,099,800	Letcher	5	1

System Summary for Whitesburg Wastewater

Permit ID	KY0106283	Treats Wastewater	Yes, 0.6 MGD with 0.232 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	700
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$29.81	Total KISOP Treated (MG)	-
Residential Customers	553	Total Treated (MG)	84.501
Commercial Customers	147	Number of Manholes	100
Institutional Customers	-	Number of Lift Stations	18
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 20% Constructed
Total Collection System Line Length = 16.84 miles (Collection: 16.37 miles, Interceptors: 0.47 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Whitesburg Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21133009	Crafts Colley Sanitary Sewer Project - Phase 1	0-2 Years	Partially Funded	$1,099,800	Letcher	5	1
SX21133008	Whitesburg - Mayking Area Sewer Extensions Phase I	3-5 Years	Not Funded	$3,000,000	Letcher		3

Owsley County

- 2010 census population of 4,755 (2,328 households) with 18% serviceable.
- Projected 2020 population of 4,704 (change of -51).
- Owsley County has 22.80 miles of existing sewer lines.
- 7.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,271,364.
- There are no projects planned from 6 to 10 years.



Owsley County has a 2010 census population count of 4,755 (2,328 households) with a projected 2020 population count of 4,704 (1,971 households). Public sewer is currently available to approximately 18 percent of the county's households based on 2010 census counts. Over the next ten years approximately 178 serviceable households will be added through the construction of 7.00 miles of sewer line extensions and approximately 1,017 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Booneville	6	$5,271,364	178	1,017	7.00	1.00	-
Totals:	**6**	**$5,271,364**	**178**	**1,017**	**7.00**	**1.00**	**-**

Public Wastewater Systems in Owsley County

Note: Serviceability counts are for households within Owsley county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0033774	Booneville Water and Sewer	Owsley	870	411
		Totals:	870	411

SEWER SERVICE AREAS
OWSLEY COUNTY
Kentucky

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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER

BOONEVILLE WATER AND SEWER

System Summary for Booneville Water and Sewer

Permit ID	KY0033774	Treats Wastewater	Yes, 0.2 MGD with 0.25 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	380
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$29.25	Total KISOP Treated (MG)	-
Residential Customers	380	Total Treated (MG)	80.400
Commercial Customers	99	Number of Manholes	200
Institutional Customers	-	Number of Lift Stations	11
Industrial Customers	-	Percent Lines 20 yrs or Older	20%
KISOP Customers	-	Has Facility Plan	Yes, 40% Constructed
Total Collection System Line Length = 22.80 miles (Collection: 19.73 miles, Interceptors: 3.06 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Booneville Water and Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21189005	Booneville I/I Replacement Project	3-5 Years	Not Funded	$1,526,000	Owsley	6	1
SX21189002	Booneville Pump Station Rehab	3-5 Years	Not Funded	$273,500	Owsley	10	2
SX21189006	Booneville Sewage Pump Replacements & Repairs	0-2 Years	Not Funded	$18,364	Owsley		3
SX21189600	Booneville Hwy 1411 Sewer Extension	3-5 Years	Not Funded	$602,600	Owsley		4
SX21189430	Booneville - Chestnut Gap Sewer Extension	3-5 Years	Not Funded	$611,000	Owsley		5
SX21189003	Booneville - Highway 11 Sewer Extensions	3-5 Years	Not Funded	$2,239,900	Owsley		6

Perry County

- 2010 census population of 28,712 (12,791 households) with 30% serviceable.
- Projected 2020 population of 28,137 (change of -575).
- Perry County has 70.21 miles of existing sewer lines.
- 24.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $17,395,042.
- There are no projects planned from 6 to 10 years.



Perry County has a 2010 census population count of 28,712 (12,791 households) with a projected 2020 population count of 28,137 (11,637 households). Public sewer is currently available to approximately 30 percent of the county's households based on 2010 census counts. Over the next ten years approximately 516 serviceable households will be added through the construction of 24.00 miles of sewer line extensions and approximately 5,774 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Hazard	2	$3,261,510	-	5,637	-	2.00	-
City of Vicco	1	$2,683,265	-	137	-	-	-
Perry County Sanitation District	5	$4,167,027	201	-	11.00	-	-
Troublesome Creek Environmental Authority	2	$7,283,240	315	-	13.00	-	-
Totals:	**10**	**$17,395,042**	**516**	**5,774**	**24.00**	**2.00**	**-**

Public Wastewater Systems in Perry County

Note: Serviceability counts are for households within Perry county only.

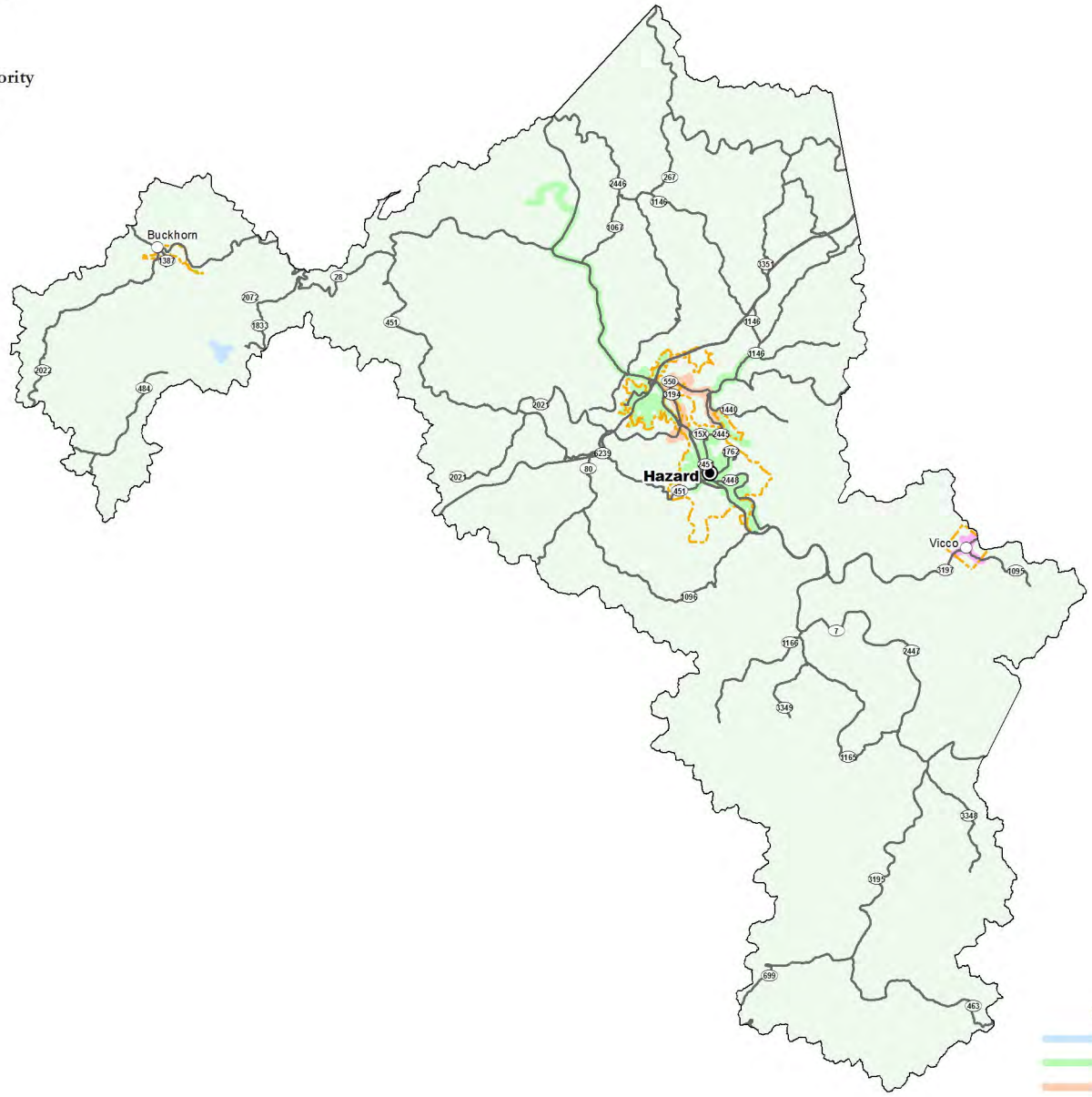
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020079	Hazard Wastewater	Perry	6,840	3,180
KYP000034	Perry County Sanitation District #1	Perry	961	440
KY0060259	Vicco Wastewater	Perry	345	155
		Totals:	8,146	3,775

SEWER SERVICE AREAS
PERRY COUNTY
Kentucky

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March, 2013



System Summary for Hazard Wastewater

Permit ID	KY0020079	Treats Wastewater	Yes, 3 MGD with 1.859 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,500
Owner Type	Incorporated City	KISOP Sender	No
Employees	21	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$14.24	Total KISOP Treated (MG)	25.520
Residential Customers	2,367	Total Treated (MG)	632.420
Commercial Customers	125	Number of Manholes	450
Institutional Customers	7	Number of Lift Stations	24
Industrial Customers	1	Percent Lines 20 yrs or Older	80%
KISOP Customers	1	Has Facility Plan	Yes, 90% Constructed
Total Collection System Line Length = 56.49 miles (Collection: 55.65 miles, Interceptors: 0.84 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hazard Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21193003	Hazard Sanitary Trunk Rehabilitation	3-5 Years	Not Funded	$3,211,510	Perry		4
SX21193004	Hazard WWTP Renovations	0-2 Years	Not Funded	$50,000	Perry		

System Summary for Perry County Sanitation District #1

Permit ID	KYP000034	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	563
Owner Type	Sewer and Sanitation District	KISOP Sender	Yes, to 1 receiver.
Employees	1	Total KISOP Sent (MG)	25.520
Cost Per 4000 Gallons	$39.00	Total KISOP Treated (MG)	-
Residential Customers	485	Total Treated (MG)	-
Commercial Customers	58	Number of Manholes	130
Institutional Customers	20	Number of Lift Stations	14
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 3% Constructed
Total Collection System Line Length = 9.11 miles (Collection: 8.40 miles, Interceptors: 0.71 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Perry County Sanitation District #1

System Summary for Vicco Wastewater

Permit ID	KY0060259	Treats Wastewater	Yes, 0.1 MGD with 0.076 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	132
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$27.44	Total KISOP Treated (MG)	-
Residential Customers	122	Total Treated (MG)	5.340
Commercial Customers	10	Number of Manholes	150
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	99%
KISOP Customers	-	Has Facility Plan	Yes, 20% Constructed
Total Collection System Line Length = 3.12 miles (Collection: 3.12 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Vicco Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21193006	Vicco Wastewater Treatment Plant & Sewer Collection Project - Phase III	3-5 Years	Not Funded	$2,683,265	Perry		3

Wolfe County

- 2010 census population of 7,355 (3,660 households) with 10% serviceable.
- Projected 2020 population of 7,636 (change of 281).
- Wolfe County has 10.93 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 5.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,227,000.
- There are no projects planned from 6 to 10 years.



Wolfe County has a 2010 census population count of 7,355 (3,660 households) with a projected 2020 population count of 7,636 (3,285 households). Public sewer is currently available to approximately 10 percent of the county's households based on 2010 census counts. Over the next ten years approximately 157 instances of improved service through the rehabilitation of 5.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Campton	1	$1,227,000	-	157	-	5.00	-
Totals:	**1**	**$1,227,000**	**-**	**157**	**-**	**5.00**	**-**

Public Wastewater Systems in Wolfe County

Note: Serviceability counts are for households within Wolfe county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0104728	Campton Wastewater Department	Wolfe	712	365
		Totals:	712	365

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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER

CAMPTON WASTEWATER DEPARTMENT

System Summary for Campton Wastewater Department

Permit ID	KY0104728	Treats Wastewater	Yes, 0.32 MGD with 0.213 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	255
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.00	Total KISOP Treated (MG)	-
Residential Customers	157	Total Treated (MG)	77.769
Commercial Customers	72	Number of Manholes	205
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 10.88 miles (Collection: 10.08 miles, Interceptors: 0.80 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Campton Wastewater Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21237004	Campton Sewer Rehab Project	3-5 Years	Not Funded	$1,227,000	Wolfe	8	1

Lake Cumberland Area Development District (LCADD)



- 2010 census population of 207,256 (101,129 households) with 26% serviceable.
- Projected 2020 population of 221,481 (change of 14,225).
- 539.36 miles of existing sewer lines.
- 148.00 miles of line extensions proposed in the next 10 years.
- 24.00 miles of line rehabilitation proposed in the next 10 years.
- 27.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $81,410,471.
- Estimated funding needs for projects from 6 to 10 years: $7,691,680.
- Average age of wastewater treatment plants is 23 years.
- Total number of interconnected systems is 3.
- 135 miles of sewer lines less than 15 years old.
- 117 miles of sewer lines between 15 and 30 years old.
- 170 miles of sewer lines between 31 and 50 years old.
- 37 miles of sewer lines between 51 and 70 years old.
- 80 miles of sewer lines greater than 70 years old.

Lake Cumberland Area Development District has a 2010 census population count of 207,256 (101,129 households) with a projected 2020 population count of 221,481 (92,378 households). Public sewer is currently available to approximately 26 percent of the district's households based on 2010 census counts. Over the next ten years approximately 3,919 serviceable households will be added through the construction of 148.00 miles of sewer line extensions and approximately 2,048 instances of improved service through the rehabilitation of 24.00 miles of existing sewer lines and other appurtenances. 27.00 miles of interceptor lines are also proposed within this district.

County Summary for Lake Cumberland Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Adair	18,656	8,568	20,052	8,151	1,970	23%	$ 8,966,500
Casey	15,955	7,487	16,433	6,791	1,055	14%	$ 4,709,000
Clinton	10,272	5,311	10,896	4,755	1,297	24%	$ 10,096,000
Cumberland	6,856	3,690	6,649	2,840	820	22%	$ 2,000,000
Green	11,258	5,324	11,112	4,660	1,459	27%	$ 1,290,000
McCreary	18,306	7,507	18,314	6,819	1,730	23%	$ 9,193,985
Pulaski	63,063	31,443	71,036	29,901	7,076	23%	$ 15,411,000
Russell	17,565	9,993	18,782	8,112	2,996	30%	$ 7,146,566
Taylor	24,512	10,864	26,079	10,663	5,189	48%	$ 10,278,100
Wayne	20,813	10,942	22,128	9,686	2,924	27%	$ 20,011,000
Totals	**207,256**	**101,129**	**221,481**	**92,378**	**26,516**	**26%**	**$ 89,102,151**

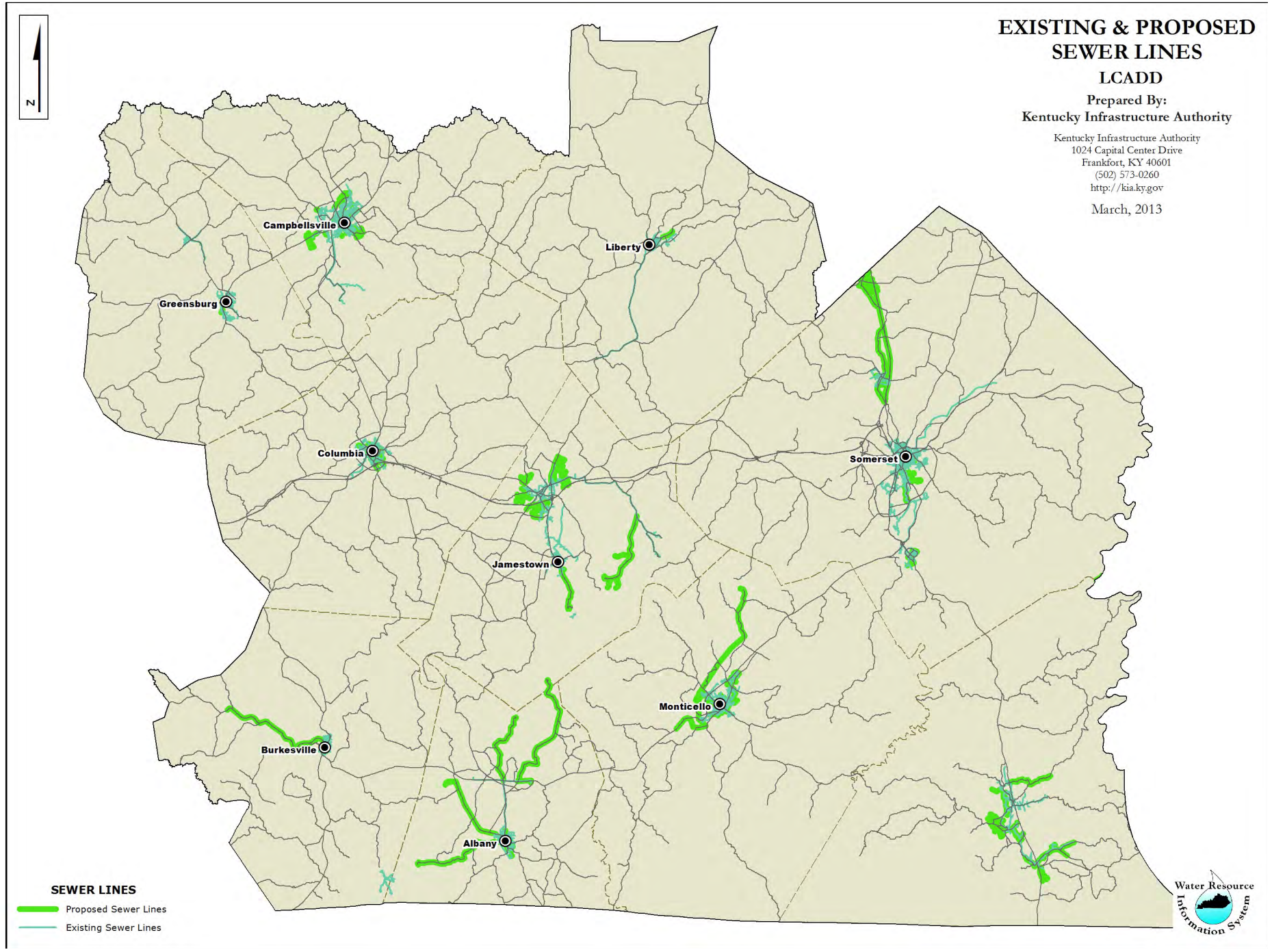
EXISTING & PROPOSED SEWER LINES

LCADD

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March, 2013



Public Sewer Systems in the Lake Cumberland Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0024317	Columbia/Adair Utilities District	Adair	4,647	1,970
KY0026352	Liberty Water & Gas	Casey	2,050	1,055
KY0024295	Albany Municipal Water & Sewer	Clinton	2,499	1,297
KY0036854	Burkesville Wastewater	Cumberland	1,490	775
KY0023841	Greensburg Sewer Department	Green	2,359	1,179
KY0096881	Sanitation District #1 of Green County	Green	620	280
KY0097837	McCreary County Water District	McCreary	3,884	1,730
KYP000069	Burnside Municipal Water Works	Pulaski	614	343
KY0094447	Science Hill Sewer	Pulaski	1,140	496
KY0026611	Somerset Utilities	Pulaski	12,914	6,236
KY0062995	Jamestown Utilities	Russell	1,877	908
KYP000057	Russell Springs Sewer & Water Works	Russell	3,753	2,086
KY0054437	Campbellsville Municipal Water & Sewer System	Taylor	11,561	5,189
KY0033847	Monticello Utility Commission	Wayne	6,252	2,924
		Totals:	55,660	26,468

Lake Cumberland Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Extend Services to Unserved Areas**

Discussion of Area Development District Needs:

The Lake Cumberland Area Development District planning units are in need of repairing and replacing existing infrastructure. The systems in the Lake Cumberland Area need to repair and/or replace lift stations, sewer lines and manholes due to aging infrastructure. The some systems also need to upgrade the existing treatment plants with safer, more efficient methods of treatment.

The Lake Cumberland Area Development District planning units would like to provide service to more customers by extending service to unserved areas. Providing service to unserved areas will eliminate failing septic systems and straight pipe discharges allowing growth without the potential for health problems resulting from human exposure to untreated sewage.

The needs of the Lake Cumberland Regional Water Management Council are a very diverse collection. Other needs of the area include meeting regulatory requirements and sanitary sewer overflow correction.

Description and Determination of Planning Units:

The Lake Cumberland Area Development District is made up of thirteen planning units. The planning units were determined by the Lake Cumberland Regional Water Management Council based on local issues in the area such as location, size of area, number of customers, number of systems, and need and ability of systems to plan together. The planning units are Adair (Columbia/Adair Utilities District), Bronston/Burnside (Bronston Water Association and Burnside Municipal Water Works), Campbellsville (Campbellsville Municipal Water & Sewer System), Casey (Liberty Water & Gas), Clinton (Albany Municipal Water & Sewer), Cumberland (Burkesville Wastewater and Cumberland County Water District), Eubank/Science Hill (City of Eubank Water System and Science Hill Sewer), Greensburg (Greensburg Sewer Department), McCreary (McCreary County Water District), Russell (Jamestown Utilities and Russell Springs Sewer & Water Works), Somerset (Somerset Utilities), Summersville (Sanitation District #1 of Green County), and Wayne (Monticello Utility Commission).

Lake Cumberland Area Development District
Project Ranking Methodology

The current needs in the Lake Cumberland ADD region are quite sizeable. While water service has been provided to most residents some are still in need of service, expanded treatment capacity and replacement of aging or undersized lines are becoming more and more necessary. For wastewater, the needs include system expansion, unserved areas, aging infrastructure, and expanded treatment capacity.

The Lake Cumberland Regional Water Management Council uses a point based rankling system to rank the needs of the area. Each local system was asked to submit their most needed projects to the Council for ranking. Projects were scored on a series of criteria including Type of Project, Regionalism, Shovel Readiness, Funding Status, and Local Need. Additional bonus points were assigned at the discretion of the Council for projects deemed most deserving. In the event of a tie, the project's Cost per Connection was used as the deciding factor.

The following point criterion was approved by the Lake Cumberland Regional Water Management Council on September 4, 2014 and will be used to rank projects on December 4, 2014:

Type of Project (up to 20 points assigned)

Unserved – Points based on number of households served per mile
AVERAGE 9 OR GREATER HOUSEHOLDS PER MILE - 20
AVERAGE 5-6 HOUSEHOLDS PER MILE - 18
AVERAGE 3-4 HOUSEHOLDS PER MILE - 15
AVERAGE 1-2 HOUSEHOLDS PER MILE - 10
AVERAGE OF LESS THAN 1 HOUSEHOLDS PER MILE – 5

Underserved – Points based on percentage of total customer base impacted
80-100% OF TOTAL CUSTOMER BASE IMPACTED - 20
60-79% OF TOTAL CUSTOMER BASE IMPACTED - 19
40-59% OF TOTAL CUSTOMER BASE IMPACTED - 18
20-39% OF TOTAL CUSTOMER BASE IMPACTED- 15
10-19% OF TOTAL CUSTOMER BASE IMPACTED - 10
LESS THAN 10% OF TOTAL CUSTOMER BASE IMPACTED - 5

Industrial/Commercial – Points based on number of jobs created/retained
100 OR MORE NEW JOBS CREATED OR JOBS RETAINED - 20
75-99 NEW JOBS CREATED OR JOBS RETAINED - 19
50-74 NEW JOBS CREATED OR JOBS RETAINED - 18
20-49 NEW JOBS CREATED OR JOBS RETAINED - 15
10-19 NEW JOBS CREATED OR JOBS RETAINED - 10
LESS THAN 10 NEW JOBS CREATED OR JOBS RETAINED – 5

Other – 3 points assigned for projects not meeting the above types

Combination – Most favorable listed category plus an additional 3 points

Project Delivery (up to 20 points assigned)
Regional - 20 points
Non-Regional – 5 points

Project Status (up to 20 points assigned)
Engineering Plans and specs submitted to DOW - 20 points
Preliminary Engineering Report completed - 15 points
Engineering procurement completed – 10 points
Preliminary planning by system - 5 points

Funding Status (up to 20 points assigned)

Projects with estimated costs greater than $100,000
Funding committed for 50% or more - 20 points
Funding committed for 25-49% or more - 15 points
Funding committed for 1-24% - 10 points
Pending applications - 3 points
Projects with estimated costs of $100,000 or less - 10 points

Local Need (up to 20 points assigned)

Points assigned based on the planning unit ranking

1ST – 20 POINTS
2ND – 16 POINTS
3RD – 13 POINTS
4TH – 11 POINTS
5TH – 9 POINTS
6TH – 7 POINTS
7TH – 6 POINTS
8TH – 5 POINTS
9TH – 4 POINTS
10TH – 3 POINTS
11TH – 2 POINTS
12TH – 1 POINTS
13TH OR HIGHER – 0 POINTS

Council Input (up to 10 points assigned)

Council assigns 10 bonus points to 15% of projects
Special consideration is given to any project that addresses an agreed order, tap-on-ban, NOV, or other specific violation from the Kentucky Division of Water.

Tie Breaker (no points assigned)

Cost per connection - only used to break point based ties
Lowest cost per connection is ranked highest

Project Rankings For Lake Cumberland Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21147020	Sewer System Extensions – Revelo to Stearns Phase 1	0-2 Years	Fully Funded	$666,667	McCreary	1	1
SX21217004	Taylor County School Water & Sewer System Extension	3-5 Years	Not Funded	$191,100	Taylor	2	1
SX21217008	Campbellsville Sewer System Renovation	3-5 Years	Not Funded	$788,000	Taylor	3	2
			Total Cost:	**$1,645,767**			

Adair County

- 2010 census population of 18,656 (8,568 households) with 23% serviceable.
- Projected 2020 population of 20,052 (change of 1,396).
- Adair County has 43.01 miles of existing sewer lines.
- 2.00 miles of line extensions proposed in the next 10 years.
- 13.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,966,500.
- There are no projects planned from 6 to 10 years.



Adair County has a 2010 census population count of 18,656 (8,568 households) with a projected 2020 population count of 20,052 (8,151 households). Public sewer is currently available to approximately 23 percent of the county's households based on 2010 census counts. Over the next ten years approximately 32 serviceable households will be added through the construction of 2.00 miles of sewer line extensions and approximately 825 instances of improved service through the rehabilitation of 13.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Adair County Water District	8	$8,966,500	32	825	2.00	13.00	-
Totals:	**8**	**$8,966,500**	**32**	**825**	**2.00**	**13.00**	**-**

Public Wastewater Systems in Adair County

Note: Serviceability counts are for households within Adair county only.

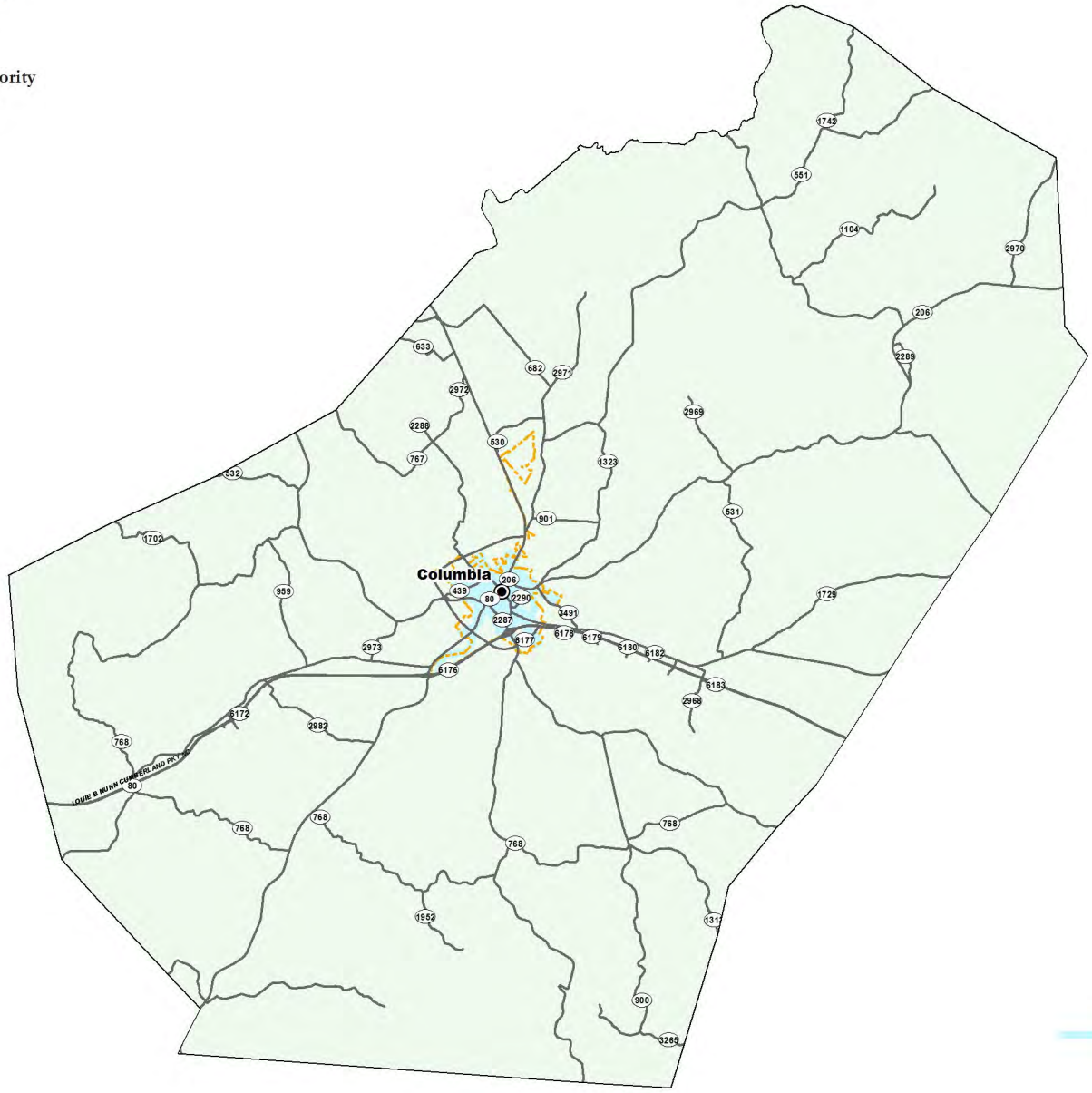
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0024317	Columbia/Adair Utilities District	Adair	4,647	1,970
		Totals:	4,647	1,970

SEWER SERVICE AREAS
ADAIR COUNTY
Kentucky

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March, 2013



SEWER SERVICE BY OWNER

COLUMBIA/ADAIR UTILITIES DISTRICT

System Summary for Columbia/Adair Utilities District

Permit ID	KY0024317	Treats Wastewater	Yes, 1.9 MGD with 1.18 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,686
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$20.40	Total KISOP Treated (MG)	-
Residential Customers	1,301	Total Treated (MG)	113.709
Commercial Customers	385	Number of Manholes	547
Institutional Customers	-	Number of Lift Stations	14
Industrial Customers	-	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 20% Constructed
Total Collection System Line Length = 43.01 miles (Collection: 43.01 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Columbia/Adair Utilities District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21001005	Downtown Sewer System Improvements - Phase 2	3-5 Years	Not Funded	$2,027,500	Adair		
SX21001004	Downtown Sewer System Improvements - Phase 1	3-5 Years	Not Funded	$1,930,000	Adair		
SX21001014	Downtown Sewer System Improvements - Phase 3	3-5 Years	Not Funded	$1,545,000	Adair		
SX21001001	Columbia Adair WWTP Sludge Conditioning System	3-5 Years	Partially Funded	$1,432,000	Adair		
SX21001015	Downtown Sewer System Improvements - Phase 4	3-5 Years	Not Funded	$841,000	Adair		
SX21001002	Columbia Lift Station Development and Renovation	3-5 Years	Partially Funded	$553,000	Adair		
SX21001016	HWY 55/Cane Valley Area Sewer System Extension	3-5 Years	Not Funded	$343,000	Adair		
SX21001017	North Bypass Highway 55 Sanitary Sewer System Extension	3-5 Years	Not Funded	$295,000	Adair		

Casey County

- 2010 census population of 15,955 (7,487 households) with 14% serviceable.
- Projected 2020 population of 16,433 (change of 478).
- Casey County has 29.50 miles of existing sewer lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,156,000.
- Estimated funding needs for projects from 6 to 10 years: $553,000.



Casey County has a 2010 census population count of 15,955 (7,487 households) with a projected 2020 population count of 16,433 (6,791 households). Public sewer is currently available to approximately 14 percent of the county's households based on 2010 census counts. Over the next ten years approximately 23 serviceable households will be added through the construction of 1.00 miles of sewer line extensions and approximately 669 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Liberty	2	$4,709,000	23	669	1.00	-	-
Totals:	**2**	**$4,709,000**	**23**	**669**	**1.00**	**-**	**-**

Public Wastewater Systems in Casey County

Note: Serviceability counts are for households within Casey county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0026352	Liberty Water & Gas	Casey	2,050	1,055
		Totals:	2,050	1,055

SEWER SERVICE AREAS
CASEY COUNTY
Kentucky

Prepared By:
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March, 2013



System Summary for Liberty Water & Gas

Permit ID	KY0026352	Treats Wastewater	Yes, 0.64 MGD with 0.58 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	810
Owner Type	Incorporated City	KISOP Sender	No
Employees	7	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.90	Total KISOP Treated (MG)	-
Residential Customers	616	Total Treated (MG)	212.430
Commercial Customers	193	Number of Manholes	100
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	1	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 29.50 miles (Collection: 29.50 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Liberty Water & Gas

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21045002	Liberty Wastewater Treatment Plant Upgrade and Improvements	0-2 Years	Not Funded	$4,156,000	Casey		
SX21045005	Liberty – North US 127 Collector Sewer Project	6-10 Years	Partially Funded	$553,000	Casey		

Clinton County

- 2010 census population of 10,272 (5,311 households) with 24% serviceable.
- Projected 2020 population of 10,896 (change of 624).
- Clinton County has 32.50 miles of existing sewer lines.
- 31.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,939,000.
- Estimated funding needs for projects from 6 to 10 years: $3,157,000.



Clinton County has a 2010 census population count of 10,272 (5,311 households) with a projected 2020 population count of 10,896 (4,755 households). Public sewer is currently available to approximately 24 percent of the county's households based on 2010 census counts. Over the next ten years approximately 655 serviceable households will be added through the construction of 31.00 miles of sewer line extensions and approximately 52 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances. 1.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Albany	9	$10,096,000	655	52	31.00	1.00	1.00
Totals:	**9**	**$10,096,000**	**655**	**52**	**31.00**	**1.00**	**1.00**

Public Wastewater Systems in Clinton County

Note: Serviceability counts are for households within Clinton county only.

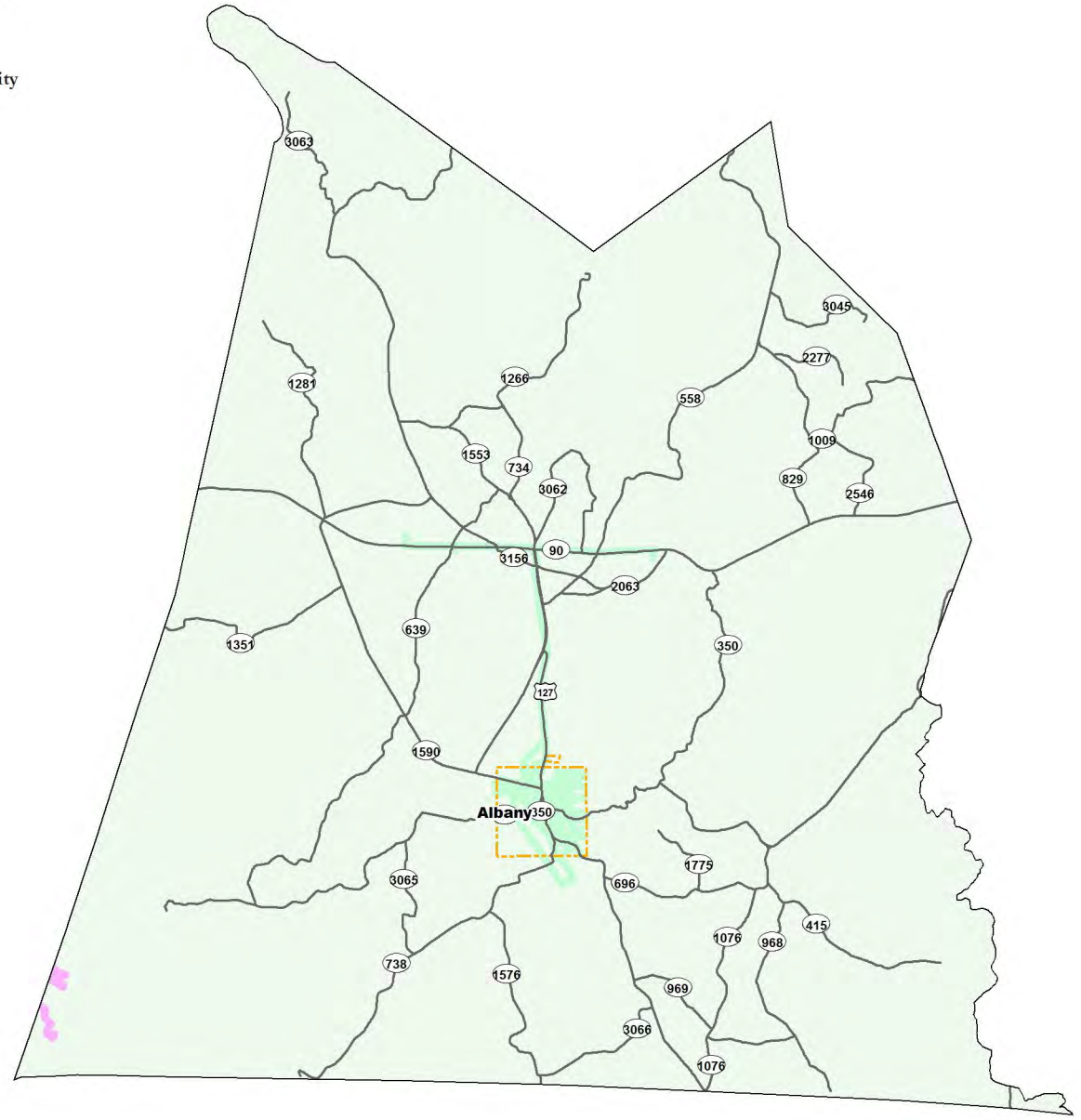
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0024295	Albany Municipal Water & Sewer	Clinton	2,499	1,297
		Totals:	2,499	1,297

SEWER SERVICE AREAS
CLINTON COUNTY
Kentucky

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System Summary for Albany Municipal Water & Sewer

Permit ID	KY0024295	Treats Wastewater	Yes, 0.9 MGD with 0.175 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,281
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$16.95	Total KISOP Treated (MG)	-
Residential Customers	1,080	Total Treated (MG)	84.000
Commercial Customers	173	Number of Manholes	500
Institutional Customers	20	Number of Lift Stations	13
Industrial Customers	3	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 70% Constructed
Total Collection System Line Length = 30.82 miles (Collection: 30.82 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Albany Municipal Water & Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21053007	Albany Phase 2 Wastewater Treatment Plant Expansion & Improvements	3-5 Years	Not Funded	$4,032,000	Clinton		
SX21053004	Rowena - Lake Cumberland Sewer System Extension	3-5 Years	Not Funded	$1,697,000	Clinton		
SX21053011	Albany – Dale Hollow Lake Sewage Transport System	6-10 Years	Not Funded	$1,050,000	Clinton		
SX21053009	Albany/Clear Fork Sewer System Renovation	6-10 Years	Not Funded	$782,000	Clinton		
SX21053010	Albany/Grider Hill Facility/Lake Cumberland Sewage Transport System	6-10 Years	Not Funded	$736,000	Clinton		
SX21053006	Albany Lift Station Renovation	3-5 Years	Not Funded	$665,000	Clinton		
SX21053012	Albany – Foothills Academy Sewer Force Main Extension	6-10 Years	Not Funded	$589,000	Clinton		
SX21053014	Albany Bypass Sewer Extension	3-5 Years	Not Funded	$395,000	Clinton		
SX21053013	Highway 1590 Sewer Extension	3-5 Years	Not Funded	$150,000	Clinton		

Cumberland County

- 2010 census population of 6,856 (3,690 households) with 22% serviceable.
- Projected 2020 population of 6,649 (change of -207).
- Cumberland County has 19.24 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,000,000.
- There are no projects planned from 6 to 10 years.



Cumberland County has a 2010 census population count of 6,856 (3,690 households) with a projected 2020 population count of 6,649 (2,840 households). Public sewer is currently available to approximately 22 percent of the county's households based on 2010 census counts. Over the next ten years.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Burkesville	1	$2,000,000	-	-	-	-	-
Totals:	**1**	**$2,000,000**	**-**	**-**	**-**	**-**	**-**

Public Wastewater Systems in Cumberland County

Note: Serviceability counts are for households within Cumberland county only.

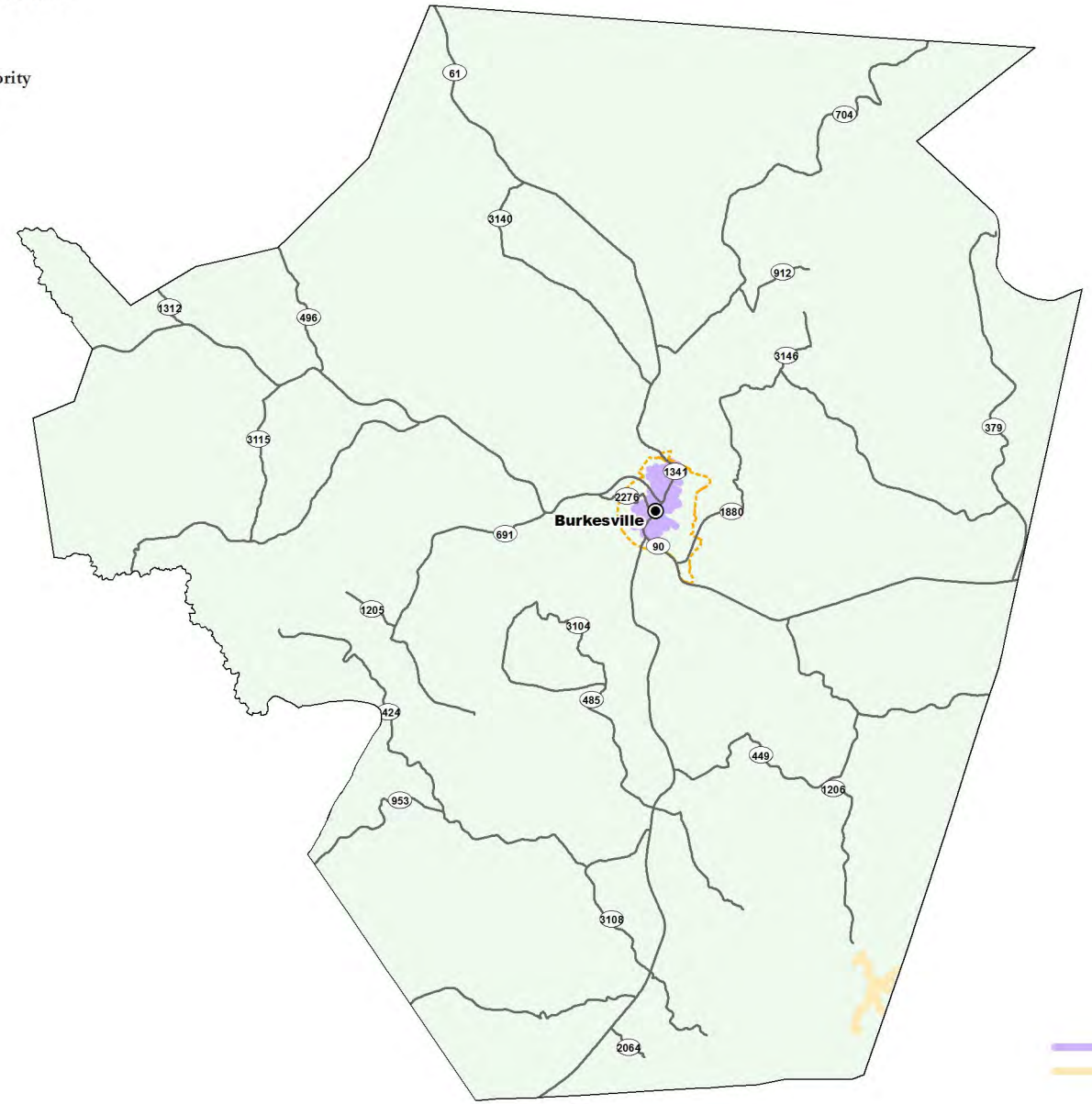
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0036854	Burkesville Wastewater	Cumberland	1,490	775
		Totals:	1,490	775

SEWER SERVICE AREAS
CUMBERLAND COUNTY
Kentucky

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System Summary for Burkesville Wastewater

Permit ID	KY0036854	Treats Wastewater	Yes, 0.5 MGD with 0.273 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	770
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$30.84	Total KISOP Treated (MG)	-
Residential Customers	681	Total Treated (MG)	99.535
Commercial Customers	84	Number of Manholes	138
Institutional Customers	-	Number of Lift Stations	5
Industrial Customers	5	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 95% Constructed
Total Collection System Line Length = 13.87 miles (Collection: 13.87 miles, Interceptors: 0.00 miles).			

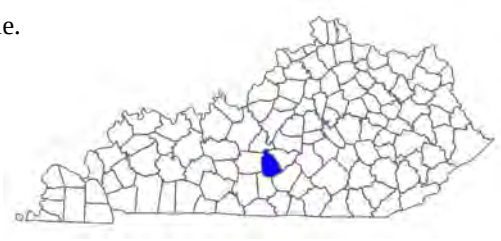
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Burkesville Wastewater

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21057002	Burkesville - WWTP Improvements	3-5 Years	Not Funded	$2,000,000	Cumberland		

Green County

- 2010 census population of 11,258 (5,324 households) with 27% serviceable.
- Projected 2020 population of 11,112 (change of -146).
- Green County has 32.59 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,290,000.
- There are no projects planned from 6 to 10 years.



Green County has a 2010 census population count of 11,258 (5,324 households) with a projected 2020 population count of 11,112 (4,660 households). Public sewer is currently available to approximately 27 percent of the county's households based on 2010 census counts. Over the next ten years.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Greensburg	1	$350,000	-	-	-	-	-
Green County / Summersville Sanitation Dist	2	$940,000	-	-	-	-	-
Totals:	**3**	**$1,290,000**	-	-	-	-	-

Public Wastewater Systems in Green County

Note: Serviceability counts are for households within Green county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0023841	Greensburg Sewer Department	Green	2,359	1,179
KY0096881	Sanitation District #1 of Green County	Green	620	280
		Totals:	2,979	1,459

SEWER SERVICE AREAS
GREEN COUNTY
Kentucky

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System Summary for Greensburg Sewer Department

Permit ID	KY0023841	Treats Wastewater	Yes, 0.75 MGD with 0.75 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	974
Owner Type	Incorporated City	KISOP Sender	No
Employees	11	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$24.55	Total KISOP Treated (MG)	-
Residential Customers	863	Total Treated (MG)	180.757
Commercial Customers	103	Number of Manholes	259
Institutional Customers	6	Number of Lift Stations	9
Industrial Customers	2	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 23.50 miles (Collection: 23.50 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Greensburg Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21087016	Greensburg-Clover Lick Creek Interceptor Sewer Project	3-5 Years	Not Funded	$350,000	Green		

System Summary for Sanitation District #1 of Green County

Permit ID	KY0096881	Treats Wastewater	Yes, 0.1 MGD with 0.052 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	272
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$45.00	Total KISOP Treated (MG)	-
Residential Customers	263	Total Treated (MG)	18.905
Commercial Customers	7	Number of Manholes	28
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 10% Constructed
Total Collection System Line Length = 9.09 miles (Collection: 9.09 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Sanitation District #1 of Green County

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21087014	Green Co. SD#1 – Wastewater System Upgrades	3-5 Years	Not Funded	$740,000	Green		
SX21087010	GCSD#1 – Pump Station Rehabilitation Project	3-5 Years	Not Funded	$200,000	Green		

McCreary County

- 2010 census population of 18,306 (7,507 households) with 23% serviceable.
- Projected 2020 population of 18,314 (change of 8).
- McCreary County has 38.45 miles of existing sewer lines.
- 26.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,049,405.
- Estimated funding needs for projects from 6 to 10 years: $1,144,580.



McCreary County has a 2010 census population count of 18,306 (7,507 households) with a projected 2020 population count of 18,314 (6,819 households). Public sewer is currently available to approximately 23 percent of the county's households based on 2010 census counts. Over the next ten years approximately 943 serviceable households will be added through the construction of 26.00 miles of sewer line extensions.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
McCreary County Water District	12	$9,193,985	943	-	26.00	-	-
Totals:	**12**	**$9,193,985**	**943**	**-**	**26.00**	**-**	**-**

Public Wastewater Systems in McCreary County

Note: Serviceability counts are for households within McCreary county only.

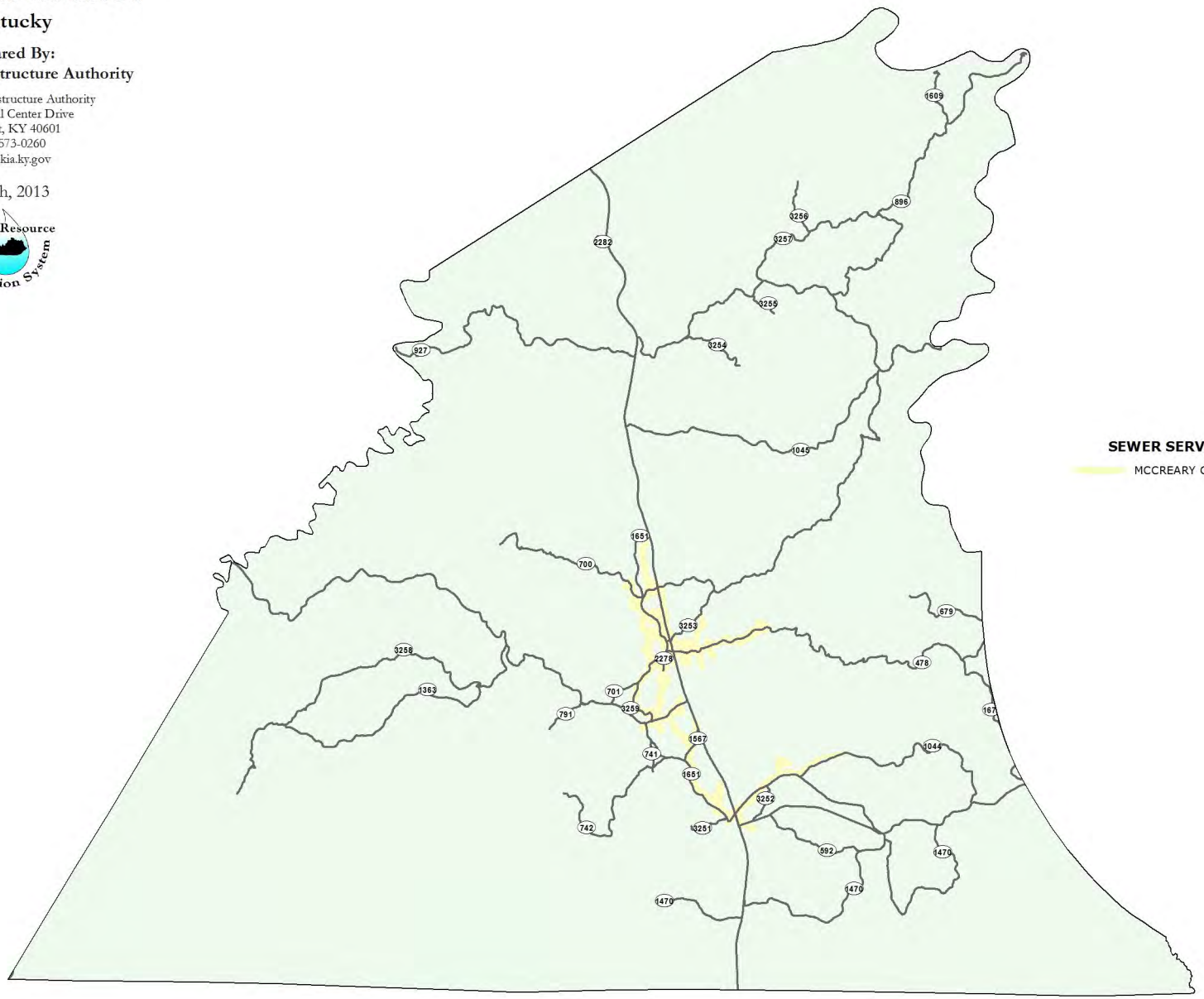
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0097837	McCreary County Water District	McCreary	3,884	1,730
		Totals:	3,884	1,730

SEWER SERVICE AREAS
MCCREARY COUNTY
Kentucky

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System Summary for McCreary County Water District

Permit ID	KY0097837	Treats Wastewater	Yes, 0.9 MGD with 0.36 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,178
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$27.50	Total KISOP Treated (MG)	-
Residential Customers	803	Total Treated (MG)	132.836
Commercial Customers	152	Number of Manholes	39
Institutional Customers	1	Number of Lift Stations	15
Industrial Customers	4	Percent Lines 20 yrs or Older	1%
KISOP Customers	-	Has Facility Plan	Yes, 68% Constructed
Total Collection System Line Length = 38.45 miles (Collection: 38.45 miles, Interceptors: 0.00 miles).			

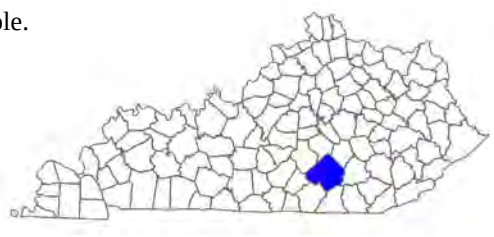
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for McCreary County Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21147019	MCWD-Stearns to Smithtown Sewer System	3-5 Years	Not Funded	$2,043,000	McCreary		
SX21147010	McCreary Co/Big Creek Sewer System Extension-Phase II	3-5 Years	Partially Funded	$1,416,000	McCreary		
SX21147012	McCreary Co WD-Pine Knot (KY 1651 & US 92) Area Sanitary Sewer Project	3-5 Years	Not Funded	$888,500	McCreary		
SX21147017	MCCWD – Sandhill Road Sanitary Sewer Expansion Project, Phase I	3-5 Years	Not Funded	$791,950	McCreary		
SX21147018	MCCWD – Sandhill Road Sanitary Sewer Expansion Project, Phase II	6-10 Years	Not Funded	$714,580	McCreary		
SX21147006	McCreary Co./KY 1651/East Appletree Rd. Area Sewer System Extensions	3-5 Years	Not Funded	$713,000	McCreary		
SX21147003	McCreary Co./Pine Knot-KY 92 Area Sewer System Extensions	3-5 Years	Not Funded	$696,000	McCreary		
SX21147005	McCreary Co./Bethel Rd.-KY 1044/Meadow Grove Area Sewer System Extensions	3-5 Years	Not Funded	$512,000	McCreary		
SX21147013	McCreary County - Pride Project	3-5 Years	Not Funded	$499,955	McCreary		
SX21147016	MCWD – Toe Wad Sanitary Sewer Project	6-10 Years	Not Funded	$430,000	McCreary		
SX21147001	MCWD - Sewer System Improvements	3-5 Years	Not Funded	$300,000	McCreary		
SX21147002	McCreary Co./Cabin Creek Rd.-Green Valley Rd. Area Sewer System Extensions	3-5 Years	Partially Funded	$189,000	McCreary		

Pulaski County

- 2010 census population of 63,063 (31,443 households) with 23% serviceable.
- Projected 2020 population of 71,036 (change of 7,973).
- Pulaski County has 132.02 miles of existing sewer lines.
- 29.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- 13.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $15,411,000.
- There are no projects planned from 6 to 10 years.



Pulaski County has a 2010 census population count of 63,063 (31,443 households) with a projected 2020 population count of 71,036 (29,901 households). Public sewer is currently available to approximately 23 percent of the county's households based on 2010 census counts. Over the next ten years approximately 970 serviceable households will be added through the construction of 29.00 miles of sewer line extensions and approximately 92 instances of improved service through the rehabilitation of 3.00 miles of existing sewer lines and other appurtenances. 13.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Burnside	1	$916,000	-	56	-	1.00	-
City of Eubank	2	$6,450,000	637	-	17.00	-	10.00
City of Science Hill	3	$5,105,000	180	36	8.00	2.00	3.00
City of Somerset	1	$2,940,000	153	-	4.00	-	-
Totals:	**7**	**$15,411,000**	**970**	**92**	**29.00**	**3.00**	**13.00**

Public Wastewater Systems in Pulaski County

Note: Serviceability counts are for households within Pulaski county only.

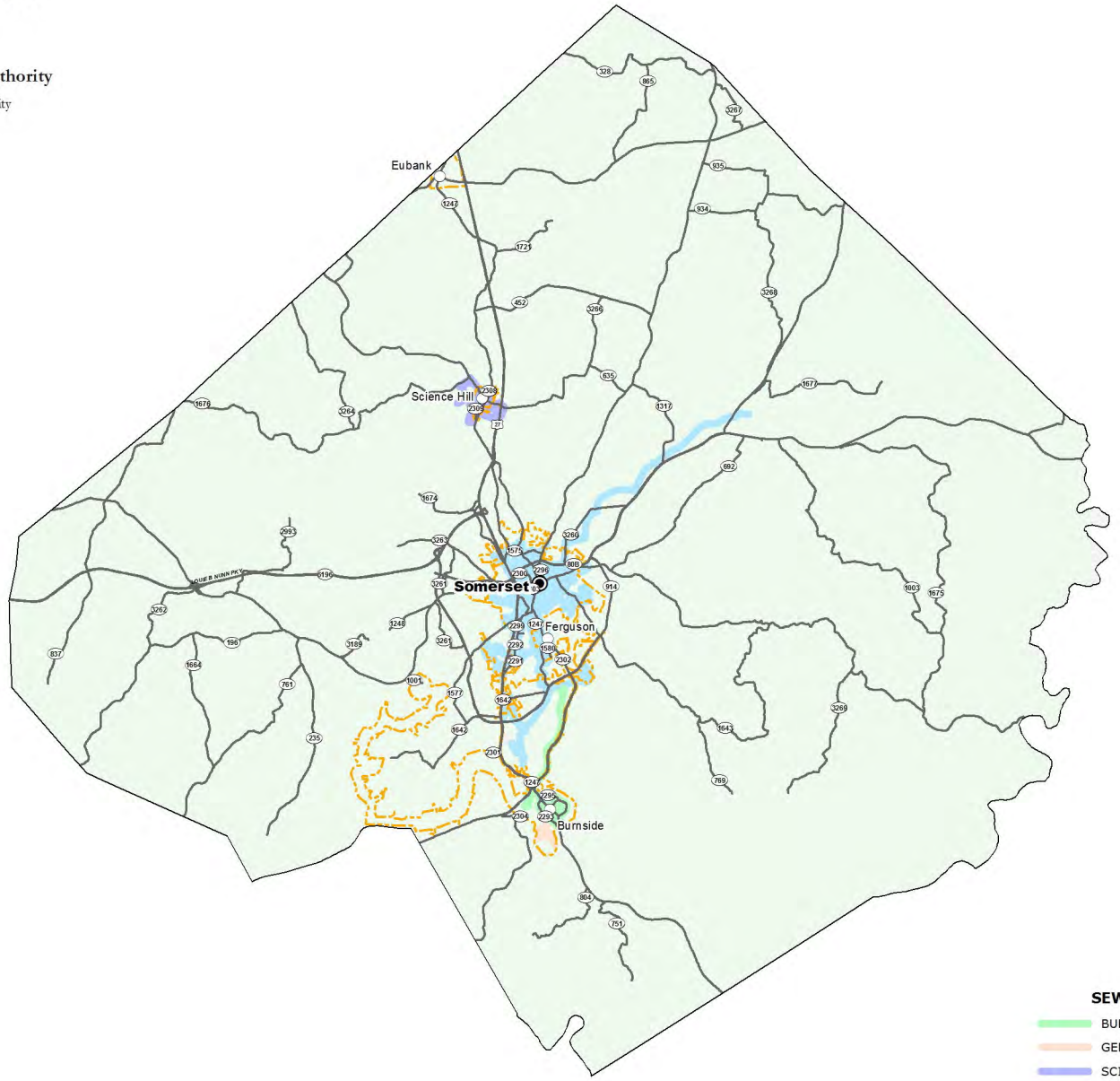
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000069	Burnside Municipal Water Works	Pulaski	614	343
KY0094447	Science Hill Sewer	Pulaski	1,140	496
KY0026611	Somerset Utilities	Pulaski	12,914	6,236
		Totals:	14,668	7,075

SEWER SERVICE AREAS
PULASKI COUNTY
Kentucky

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SEWER SERVICE BY OWNER

- BURNSIDE MUNICIPAL WATER WORKS
- GEN BURNSIDE WASTEWATER COLLECTION
- SCIENCE HILL SEWER
- SOMERSET UTILITIES

System Summary for Burnside Municipal Water Works

Permit ID	KYP000069	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	336
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	2	Total KISOP Sent (MG)	10.245
Cost Per 4000 Gallons	$39.06	Total KISOP Treated (MG)	-
Residential Customers	301	Total Treated (MG)	-
Commercial Customers	27	Number of Manholes	70
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed
Total Collection System Line Length = 13.99 miles (Collection: 9.79 miles, Interceptors: 4.20 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Burnside Municipal Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21199004	City of Burnside - Sewer System Improvements	3-5 Years	Not Funded	$916,000	Pulaski		

System Summary for Gen Burnside Wastewater Collection

Permit ID	KYP000082	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	7
Owner Type		KISOP Sender	Yes, to 1 receiver.
Employees	1	Total KISOP Sent (MG)	0.415
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	7	Number of Manholes	2
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 1.66 miles (Collection: 1.66 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Gen Burnside Wastewater Collection

System Summary for Science Hill Sewer

Permit ID	KY0094447	Treats Wastewater	Yes, 0.15 MGD with 0.076 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	425
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$31.68	Total KISOP Treated (MG)	-
Residential Customers	402	Total Treated (MG)	27.900
Commercial Customers	22	Number of Manholes	290
Institutional Customers	1	Number of Lift Stations	5
Industrial Customers	-	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 25% Constructed
Total Collection System Line Length = 12.46 miles (Collection: 12.46 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Science Hill Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21199007	City Sewer Improvements - PH 2/Norwood Rd-US 27 Sewer Extension/WWTP	3-5 Years	Not Funded	$1,952,000	Pulaski		
SX21199003	City of Science Hill Sewer Phase 2 Improvements & KY HWY 1247 Se	3-5 Years	Not Funded	$1,733,000	Pulaski		
SX21199022	Science Hill Sewer 0-2 Yr. Improvements & Additions	3-5 Years	Not Funded	$1,420,000	Pulaski		

System Summary for Somerset Utilities

Permit ID	KY0026611	Treats Wastewater	Yes, 4.4 MGD with 2.541 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	6,182
Owner Type	Incorporated City	KISOP Sender	No
Employees	20	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$10.31	Total KISOP Treated (MG)	10.660
Residential Customers	4,287	Total Treated (MG)	904.612
Commercial Customers	1,828	Number of Manholes	5003
Institutional Customers	-	Number of Lift Stations	27
Industrial Customers	7	Percent Lines 20 yrs or Older	75%
KISOP Customers	2	Has Facility Plan	Yes, 5% Constructed
Total Collection System Line Length = 103.91 miles (Collection: 103.91 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Somerset Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21199033	Ferguson – Sanitary Sewer Extensions	3-5 Years	Not Funded	$2,940,000	Pulaski		

System Summary for Villas At Woodson Bend

Permit ID	02006100	Treats Wastewater	No
System Type	DOW Non-Discharge (KNDOP)	Total Connections	-
Owner Type		KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	488	Total Treated (MG)	-
Commercial Customers	3	Number of Manholes	60
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Villas At Woodson Bend

Russell County

- 2010 census population of 17,565 (9,993 households) with 30% serviceable.
- Projected 2020 population of 18,782 (change of 1,217).
- Russell County has 79.15 miles of existing sewer lines.
- 35.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,352,466.
- Estimated funding needs for projects from 6 to 10 years: $1,794,100.



Russell County has a 2010 census population count of 17,565 (9,993 households) with a projected 2020 population count of 18,782 (8,112 households). Public sewer is currently available to approximately 30 percent of the county's households based on 2010 census counts. Over the next ten years approximately 809 serviceable households will be added through the construction of 35.00 miles of sewer line extensions.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Albany	1	$1,697,000	-	-	1.00	-	-
City of Jamestown	2	$2,122,100	142	-	4.00	-	-
City of Russell Springs	4	$3,327,466	667	-	30.00	-	-
Totals:	**7**	**$7,146,566**	**809**	**-**	**35.00**	**-**	**-**

Public Wastewater Systems in Russell County

Note: Serviceability counts are for households within Russell county only.

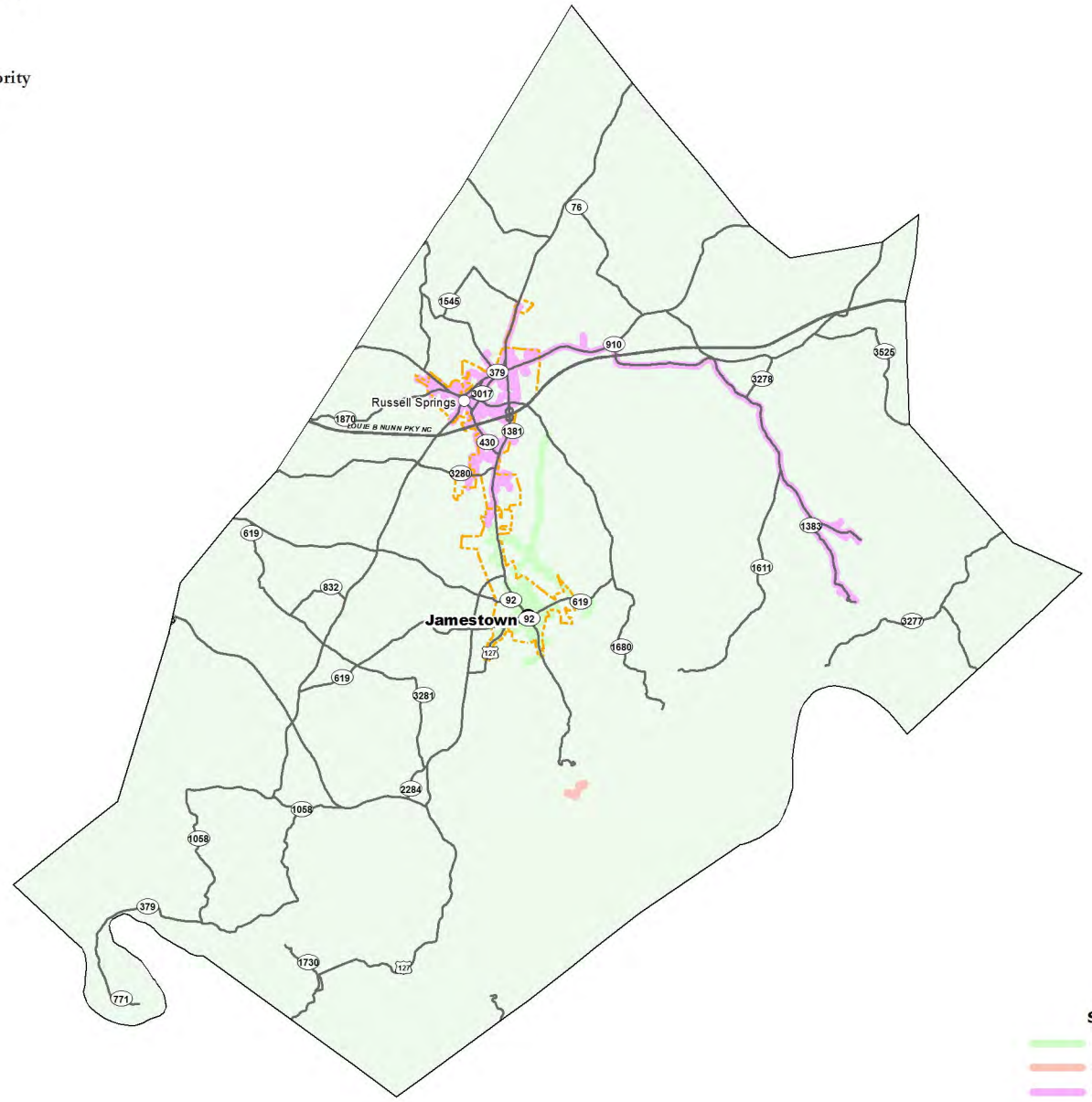
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0062995	Jamestown Utilities	Russell	1,877	908
KYP000057	Russell Springs Sewer & Water Works	Russell	3,753	2,086
		Totals:	5,630	2,994

SEWER SERVICE AREAS
RUSSELL COUNTY
Kentucky

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March, 2013



System Summary for Jamestown Utilities

Permit ID	KY0062995	Treats Wastewater	Yes, 3.6 MGD with 4.55 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	510
Owner Type	Incorporated City	KISOP Sender	No
Employees	9	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.45	Total KISOP Treated (MG)	146.133
Residential Customers	438	Total Treated (MG)	813.593
Commercial Customers	51	Number of Manholes	215
Institutional Customers	17	Number of Lift Stations	12
Industrial Customers	2	Percent Lines 20 yrs or Older	70%
KISOP Customers	1	Has Facility Plan	Yes, 2% Constructed
Total Collection System Line Length = 23.90 miles (Collection: 22.45 miles, Interceptors: 1.45 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Jamestown Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21207013	Jamestown Utilities-Jamestown Dock Sewer Extension	6-10 Years	Not Funded	$1,569,100	Russell		
SX21207016	Lift Stations and Conveyance System Improvements	3-5 Years	Not Funded	$553,000	Russell		

System Summary for Russell Springs Sewer & Water Works

Permit ID	KYP000057	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	1,343
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	2	Total KISOP Sent (MG)	146.133
Cost Per 4000 Gallons	$16.00	Total KISOP Treated (MG)	-
Residential Customers	1,095	Total Treated (MG)	-
Commercial Customers	248	Number of Manholes	413
Institutional Customers	-	Number of Lift Stations	34
Industrial Customers	-	Percent Lines 20 yrs or Older	40%
KISOP Customers	-	Has Facility Plan	Yes, 35% Constructed
Total Collection System Line Length = 53.64 miles (Collection: 53.64 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Russell Springs Sewer & Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21207012	Russell Springs-KY 1611 Pressure Sewer Extension	3-5 Years	Not Funded	$1,475,000	Russell		
SX21207011	Russell Springs-Outer City Limits Pressure Sewer Extensions	3-5 Years	Not Funded	$830,000	Russell		
SX21207002	Russell Springs Sewer Extension - No. 2	3-5 Years	Not Funded	$797,466	Russell		
SX21207014	Russell Springs/RC IDA – French Valley Business Park Sanitary SE	6-10 Years	Not Funded	$225,000	Russell		

Taylor County

- 2010 census population of 24,512 (10,864 households) with 48% serviceable.
- Projected 2020 population of 26,079 (change of 1,567).
- Taylor County has 88.28 miles of existing sewer lines.
- 8.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $10,278,100.
- There are no projects planned from 6 to 10 years.



Taylor County has a 2010 census population count of 24,512 (10,864 households) with a projected 2020 population count of 26,079 (10,663 households). Public sewer is currently available to approximately 48 percent of the county's households based on 2010 census counts. Over the next ten years approximately 288 serviceable households will be added through the construction of 8.00 miles of sewer line extensions and approximately 243 instances of improved service through the rehabilitation of 4.00 miles of existing sewer lines and other appurtenances. 1.00 miles of interceptor lines are also proposed within this county.

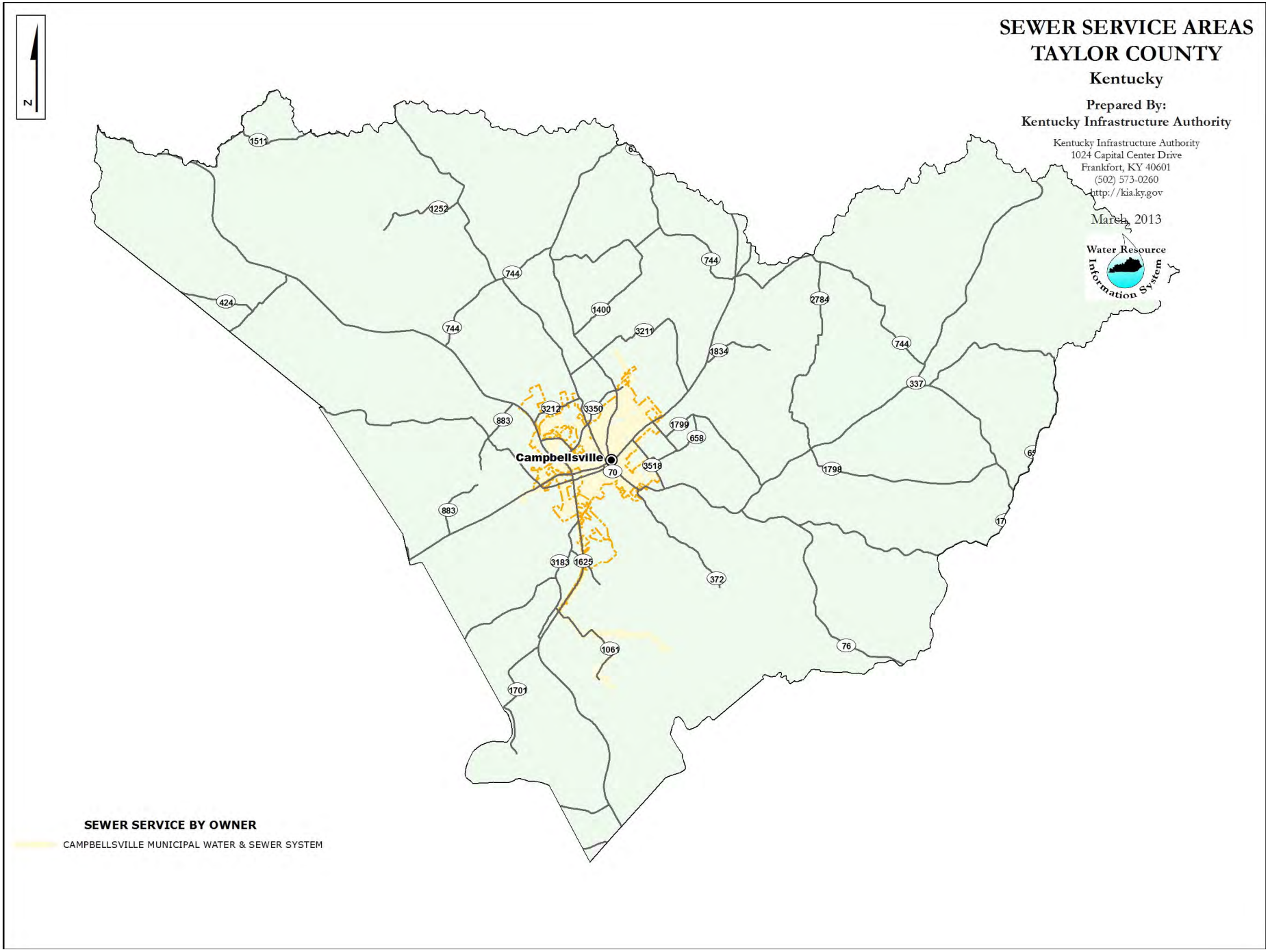
Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Campbellsville	9	$10,278,100	288	243	8.00	4.00	1.00
Totals:	**9**	**$10,278,100**	**288**	**243**	**8.00**	**4.00**	**1.00**

Public Wastewater Systems in Taylor County

Note: Serviceability counts are for households within Taylor county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0054437	Campbellsville Municipal Water & Sewer System	Taylor	11,561	5,189
		Totals:	11,561	5,189


SEWER SERVICE AREAS
TAYLOR COUNTY
Kentucky
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http://kia.ky.gov
March, 2013
Water Resource Information System
N
Campbellsville
1511
1252
424
744
1400
3211
1834
2784
337
3212
3350
883
1799
658
70
3519
1798
3183
1625
372
1061
1701
76
SEWER SERVICE BY OWNER
CAMPBELLSVILLE MUNICIPAL WATER & SEWER SYSTEM

System Summary for Campbellsville Municipal Water & Sewer System

Permit ID	KY0054437	Treats Wastewater	Yes, 4.2 MGD with 1.5 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	4,654
Owner Type	Incorporated City	KISOP Sender	No
Employees	9	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$17.46	Total KISOP Treated (MG)	-
Residential Customers	3,597	Total Treated (MG)	845.300
Commercial Customers	1,034	Number of Manholes	1515
Institutional Customers	-	Number of Lift Stations	13
Industrial Customers	17	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 60% Constructed
Total Collection System Line Length = 88.28 miles (Collection: 88.28 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Campbellsville Municipal Water & Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21217004	Taylor County School Water & Sewer System Extension	3-5 Years	Not Funded	$191,100	Taylor	2	1
SX21217008	Campbellsville Sewer System Renovation	3-5 Years	Not Funded	$788,000	Taylor	3	2
SX21217002	Wastewater Treatment Plant Flood Mitigation Project	3-5 Years	Not Funded	$2,855,000	Taylor		
SX21217003	South Campbellsville/KY 70 Area Sewer Extension Project	3-5 Years	Not Funded	$1,820,000	Taylor		
SX21217011	Campbellsville Bypass Sewer Extension	3-5 Years	Partially Funded	$1,820,000	Taylor		
SX21217001	Wastewater Treatment Plant Improvements	3-5 Years	Partially Funded	$982,000	Taylor		
SX21217009	CMWS – Snow Lane and Steeple Chase Sewer System Extension	3-5 Years	Not Funded	$941,000	Taylor		
SX21217007	Campbellsville Lift Station Renovation	3-5 Years	Not Funded	$573,000	Taylor		
SX21217013	Campbellsville - Green Hill Drive Sewer Line Extension	3-5 Years	Not Funded	$308,000	Taylor		

Wayne County

- 2010 census population of 20,813 (10,942 households) with 27% serviceable.
- Projected 2020 population of 22,128 (change of 1,315).
- Wayne County has 44.62 miles of existing sewer lines.
- 16.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- 12.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $18,968,000.
- Estimated funding needs for projects from 6 to 10 years: $1,043,000.



Wayne County has a 2010 census population count of 20,813 (10,942 households) with a projected 2020 population count of 22,128 (9,686 households). Public sewer is currently available to approximately 27 percent of the county's households based on 2010 census counts. Over the next ten years approximately 199 serviceable households will be added through the construction of 16.00 miles of sewer line extensions and approximately 167 instances of improved service through the rehabilitation of 3.00 miles of existing sewer lines and other appurtenances. 12.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Monticello	12	$20,011,000	199	167	16.00	3.00	12.00
Totals:	**12**	**$20,011,000**	**199**	**167**	**16.00**	**3.00**	**12.00**

Public Wastewater Systems in Wayne County

Note: Serviceability counts are for households within Wayne county only.

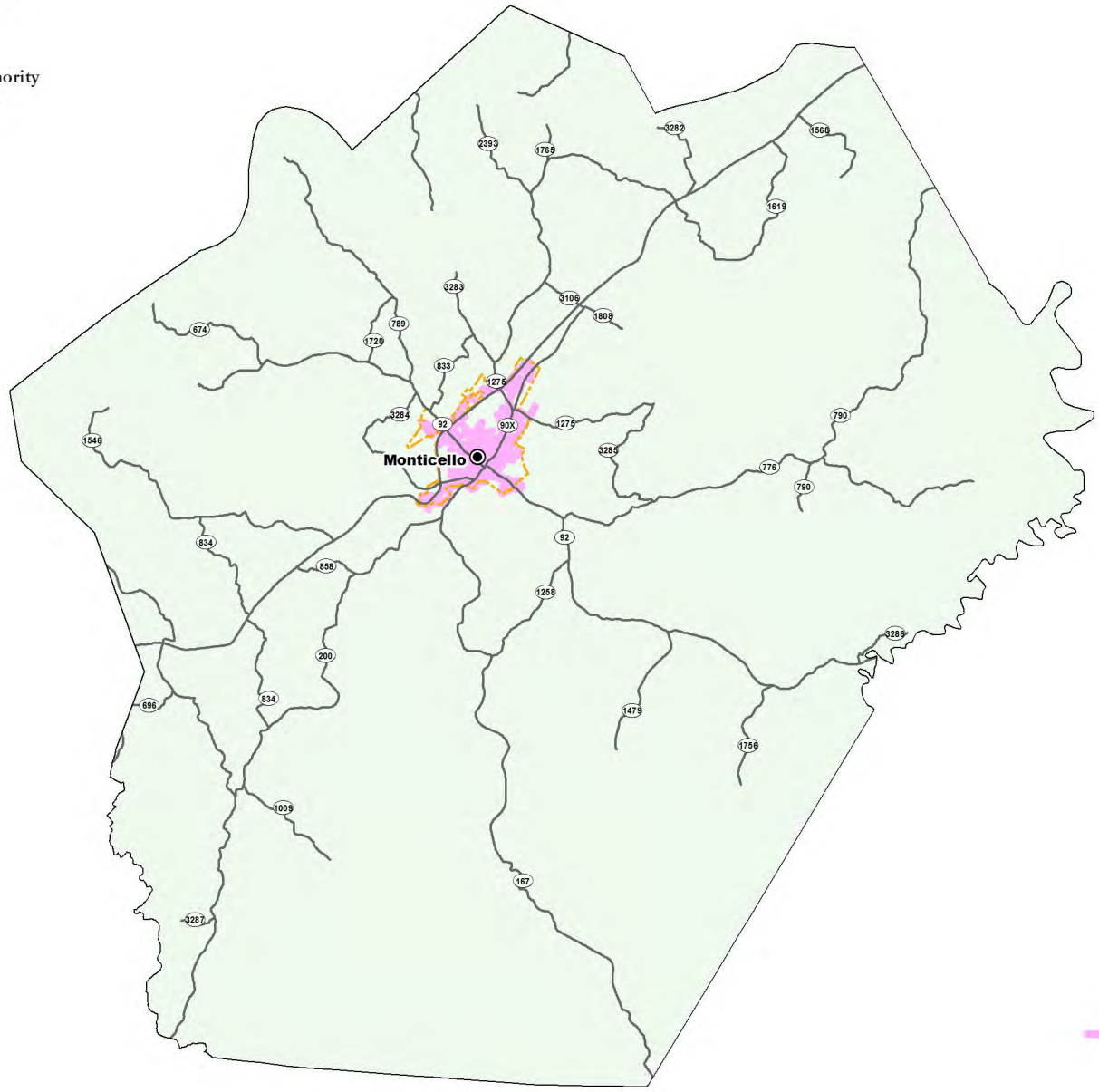
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0033847	Monticello Utility Commission	Wayne	6,252	2,924
		Totals:	6,252	2,924

SEWER SERVICE AREAS
WAYNE COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



System Summary for Monticello Utility Commission

Permit ID	KY0033847	Treats Wastewater	Yes, 2.1 MGD with 0.7 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,403
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.02	Total KISOP Treated (MG)	-
Residential Customers	2,076	Total Treated (MG)	182.690
Commercial Customers	327	Number of Manholes	405
Institutional Customers	-	Number of Lift Stations	5
Industrial Customers	-	Percent Lines 20 yrs or Older	70%
KISOP Customers	-	Has Facility Plan	Yes, 1% Constructed
Total Collection System Line Length = 44.62 miles (Collection: 44.62 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Monticello Utility Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21231016	MUC – Wastewater Treatment Plant Upgrades	3-5 Years	Not Funded	$8,620,000	Wayne		
SX21231006	Monticello/Elk Creek Interceptor Sewer Line	3-5 Years	Not Funded	$2,070,000	Wayne		
SX21231011	Monticello Downtown Sewer Renovation	3-5 Years	Partially Funded	$1,860,000	Wayne		
SX21231007	Monticello/Conley Bottom Sewer Transport System	3-5 Years	Not Funded	$1,494,000	Wayne		
SX21231013	Monticello – Western Monticello Sanitary Sewer Improvements	3-5 Years	Not Funded	$1,320,000	Wayne		
SX21231017	Monticello – North Main Street Sanitary Sewer Improvements	3-5 Years	Not Funded	$1,115,000	Wayne		
SX21231012	Monticello – Hiland View Sanitary Sewer Extensions	3-5 Years	Not Funded	$880,000	Wayne		
SX21231015	MUC-West KY 90 Industrial Park Sewer Extension	3-5 Years	Not Funded	$794,000	Wayne		
SX21231001	Monticello-Lincoln/Highland Street Sewer Extension Project	6-10 Years	Not Funded	$581,000	Wayne		
SX21231004	Monticello/Colonial Estates Sewer Line Extension	3-5 Years	Not Funded	$543,000	Wayne		
SX21231005	Monticello/Ramsey St. Sewer Line Renovation	6-10 Years	Not Funded	$462,000	Wayne		
SX21231003	Monticello/Hill Rise/Beech Valley/Bean St. Lift Station Renovation	3-5 Years	Not Funded	$272,000	Wayne		

Lincoln Trail Area Development District (LTADD)

- 2010 census population of 269,117 (116,687 households) with 29% serviceable.
- Projected 2020 population of 295,040 (change of 25,923).
- 934.15 miles of existing sewer lines.
- 66.00 miles of line extensions proposed in the next 10 years.
- 9.00 miles of line rehabilitation proposed in the next 10 years.
- 36.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $88,615,208.
- Estimated funding needs for projects from 6 to 10 years: $258,970.
- Average age of wastewater treatment plants is 31 years.
- Total number of interconnected systems is 3.
- 138 miles of sewer lines less than 15 years old.
- 148 miles of sewer lines between 15 and 30 years old.
- 103 miles of sewer lines between 31 and 50 years old.
- 332 miles of sewer lines between 51 and 70 years old.
- 6 miles of sewer lines greater than 70 years old.



Lincoln Trail Area Development District has a 2010 census population count of 269,117 (116,687 households) with a projected 2020 population count of 295,040 (117,392 households). Public sewer is currently available to approximately 29 percent of the district's households based on 2010 census counts. Over the next ten years approximately 1,999 serviceable households will be added through the construction of 66.00 miles of sewer line extensions and approximately 8,772 instances of improved service through the rehabilitation of 9.00 miles of existing sewer lines and other appurtenances. 36.00 miles of interceptor lines are also proposed within this district.

County Summary for Lincoln Trail Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Breckinridge	20,059	10,630	21,489	8,788	1,500	14%	$ 10,534,720
Grayson	25,746	13,561	27,048	11,007	3,323	25%	$ 2,415,750
Hardin	105,543	43,261	116,612	46,055	12,333	29%	$ 48,990,943
Larue	14,193	6,172	14,961	6,069	1,535	25%	$ 2,856,465
Marion	19,820	8,182	21,424	8,332	3,238	40%	$ 5,024,300
Meade	28,602	11,762	30,901	11,964	2,562	22%	$ 608,000
Nelson	43,437	18,075	50,119	20,219	8,263	46%	$ 12,126,000
Washington	11,717	5,044	12,486	4,958	1,305	26%	$ 6,318,000
Totals	**269,117**	**116,687**	**295,040**	**117,392**	**34,059**	**29%**	**$ 88,874,178**

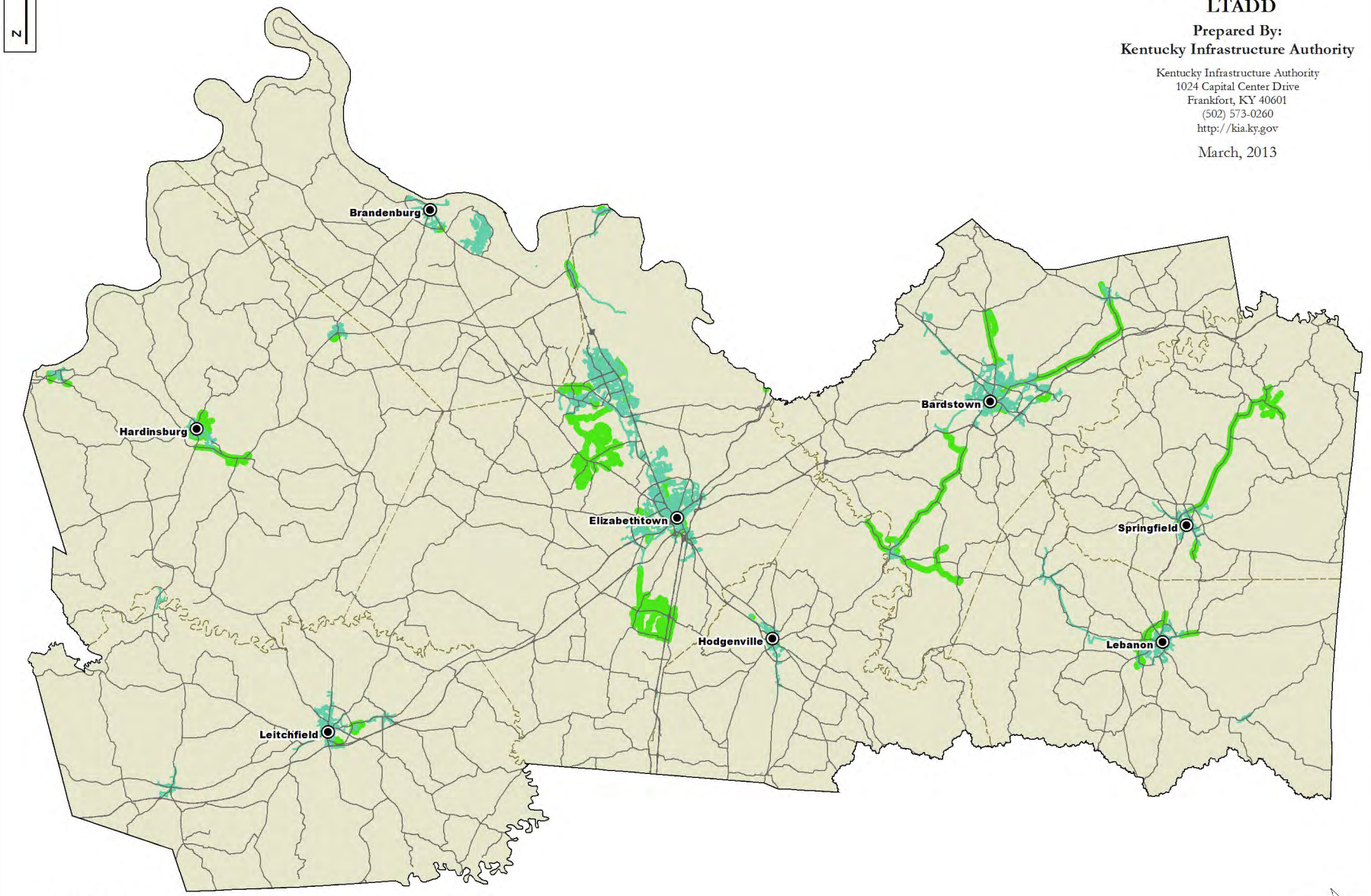
EXISTING & PROPOSED SEWER LINES

LTADD

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March, 2013



Public Sewer Systems in the Lincoln Trail Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0026701	Cloverport Sewer System	Breckinridge	964	470
KY0028363	Hardinsburg Sewer System	Breckinridge	2,169	1,025
KY0072044	Caneyville Sewer System	Grayson	609	301
KY0090590	Clarkson Sewer System	Grayson	868	433
KY0022934	Leitchfield Utilities Commission	Grayson	5,665	2,583
KY0022390	Hardin Co. Water District No. 1 Radcliff Sewer System	Hardin	23,296	10,095
KY0024988	Vine Grove Sewer System	Hardin	4,226	1,780
KY0022152	West Point Sewer System	Hardin	864	458
KY0026379	Hodgenville Sewer System	Larue	3,558	1,534
KY0090719	Bradfordsville Sewer System	Marion	305	148
KY0026549	Lebanon Sewer System	Marion	6,011	2,768
KYP000073	Loretto Wastewater System	Marion	803	322
KY0021474	Brandenburg Sewer System	Meade	2,782	1,210
KY0043478	Doe Valley Association Inc	Meade	1,878	820
KYP000051	Muldraugh Sewer System	Meade	936	532
KY0021237	Bardstown Sewer System	Nelson	17,207	7,447
KYP000086	Bloomfield WWTP	Nelson	907	412
KY0034126	New Haven Sewer System	Nelson	935	405
KY0020907	Springfield Water & Sewer Commission	Washington	2,699	1,305
		Totals:	76,682	34,048

Lincoln Trail Area Development District
Regional Wastewater Needs Assessment



Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Sanitary Sewer Overflow Correction**

Discussion of Area Development District Needs:

The Lincoln Trail Area has primary service within municipal boundaries. There are a few pockets of unserved areas within each city (primarily from new annexation or where force-main may be required). Many of the systems are approaching an age where lines and primary mechanical facilities will need replacement and upgrade. Most of the sewer facilities were constructed in the late 1950's, 60's and 70's. Clay tile pipe is still predominate in many communities. Deterioration of these lines, as well as old cast iron lines contribute to high rates of infiltration and inflow.

New development on the fringes of the high density urban areas (Hardin County areas outside of Elizabethtown and Radcliff) have the need for sanitary sewer service extensions. Many of these areas have poor soil quality and higher densities than practical, for on-site systems. The Hardin County Water Districts (primarily HCWD No. 2) have begun developing plans to provide sanitary service to the most densely populated areas of Glendale and Rineyville. In particular, Glendale has a need for service due to potential commercial /industrial development along I-65.

The presence of infiltration and inflow (I & I) in most systems has led to periodic SSO's and less than ideal or inefficient treatment conditions at wastewater treatment plants. Many communities have begun studies to prioritize areas for repair and replacement to reduce I & I conditions where possible. The greatest current need will continue to be repair and upgrade of existing lines / manholes to improve flow conditions and reduce I & I.

Description and Determination of Planning Units:

Planning units in the Lincoln Trail Region are primarily set by county boundaries. They generally compose a large enough geographic area and small enough grouping of utilities to provide reasonable interaction, feedback, and information to be a useful planning unit. The municipal entities within each county are the primary responsible utilities for provision of sewer service due to the density requirements for efficient collection.

With the widespread availability of potable water, there is a need to constantly review the development appropriateness of sanitary service. Most households in unincorporated areas utilize on-site septic systems, which work with varying degrees of success. Poor soil suitability in some areas means less than adequate treatment and potential source water degradation. Unincorporated County areas have the potential to be included in new sanitary districts if formed and examined for improved treatment methodologies.

Lincoln Trail Area Development District
Project Ranking Methodology

The Lincoln Trail Area Water Management Planning Council will be meeting on December 3rd to do our yearly water and wastewater project prioritization. Our prioritization process is adapted from an outline previously developed by KIA and Senate Bill 409. The process is hopefully inclusive and allows for discussion at the local level to improve understanding of a project's intent and impact.

In the past month we've held a County Advisory Committee meeting in each County. Those meetings are hosted by each County Judge/Executive (as the Advisory chairperson) with each local utility, Mayor, and local Health Department invited to participate. All proposed projects are reviewed by the committee and given an initial score based upon how the project meets five criteria (project type, regional connections, design status, funding status, and local need). Most of the discussion by each County committee is centered on how projects address the greatest local needs. Since there can be diverse interests represented, committee members must work together to determine what needs are most important in their community and what projects will meet them. Discussions, while lively in some cases, also serve as a forum to hear about important things affecting local utilities and share information that impacts all of our communities.

After all the County Advisory meetings have taken place, the Area Water Management Council meets to finalize the priorities and adopt the regional list. ADD Staff provides a summary tabulation of profile points based upon the Advisory Committee recommendations. The Council then reviews the list and discusses any changes. In the past two years, the Council has only included the top five projects from each County Advisory group to be ranked in the prioritization list.

Project prioritization is provided to the KY Infrastructure Authority and to LRC. In the past, the prioritization list has been utilized by the General Assembly for KIA line item funding; but given the current budget situation, we are not optimistic for that happening. Although no federal funding pools use our prioritization list, nearly all the funding programs are using portions of the WRIS project profile to feed information for their applications and funding decisions so it is important that we continue the process to help our region produce good infrastructure projects that meet locally expressed needs.

If you would like more information on the process or if you have further questions, please feel free to contact Aaron Hawkins or me at the ADD.

Profile Scoring Criteria for ranked projects:

Project type [20 points max to 5 points min.]: matched to the primary project activities

> Unserved (customers / mile): 7>/mile=20 pts, 5-6/mile=15 pts, 3-4/mile=10 pts, 2</mile=5 pts;
>
> Underserved/Improved Service (% of system improved): 75-100%=20 pts, 50-75%=15 pts, 25-49%=10 pts, <25% / maintenance = 5 pts;
>
> Economic Development (# of jobs assisted) 25+ committed= 20pts, 15-24 committed= 15pts, less than 15 committed= 10pts, no quantified jobs= 5 pts;
>
> Other (technical improvements, feasibility studies, etc.) = 10 points

Regional Connection
Regional [20 points] project that connects or merges 2 or more systems for the sale or production of water or wastewater treatment;
Increased connectivity [10 points]: improved existing connection or emergency connection;
Non-regional [5 points]

Design Status: Division of Water approved plans (20 pts.); Preliminary Engineering Report completed (15 pts.); Engineer procured for final design (10 pts.); Engineer developed profile (5 pts.)

Funding Status: The percentage of cost committed from local sources
50% or more from local sources= 20pts,
25-49% from local sources= 15pts,
less than 25% from local or submitted applications (CDBG, RD, KIA, etc)= 10pts,
other= 5pts.

Local Need:
Most important project within the planning unit (20 pts);
2nd most important project (16 pts);
3rd most important project (13 pts);
4th most important project (11 pts);
5th most important project (9 pts).
Only the top five in each planning unit are generally scored for local need.

Project Rankings For Lincoln Trail Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21093019	HCWD#2 Northern Hardin Co. Wastewater Project	3-5 Years	Not Funded	$24,000,000	Hardin	1	1
SX21179020	New Haven Phase I Sewer Extension to Gethsemani Monastery	3-5 Years	Not Funded	$791,000	Nelson	2	3
SX21179014	Bardstown Cox	3-5 Years	Not Funded	$1,960,000	Nelson	3	2
SX21093024	West Point Sewer Rehabilitation and Drainage Improvements III	3-5 Years	Not Funded	$507,500	Hardin	4	3
SX21179013	New Haven - WWTP Improvements Projects	3-5 Years	Not Funded	$1,136,000	Nelson	5	1
SX21229008	Springfield Hwy 150/KY55 Business Park Sewer	3-5 Years	Not Funded	$578,000	Washington	6	2
SX21179017	City of New Haven I and I Sewer Rehab. Phase II	0-2 Years	Not Funded	$603,000	Nelson	7	4
SX21085009	Clarkson Sewer / Lift Station Rehabilitation	3-5 Years	Not Funded	$192,500	Grayson	8	1
SX21123006	Hodgenville Walters and W. Forest I & I Rehab	3-5 Years	Not Funded	$150,000	Larue	9	1
SX21229003	Springfield Wastewater Treatment Plant Upgrade	3-5 Years	Not Funded	$1,190,000	Washington	10	1
SX21085011	Clarkson Wastewater Extension	0-2 Years	Not Funded	$328,250	Grayson	11	2
SX21093022	HCWD#1 Boone Trace Sewer Improvements	0-2 Years	Not Funded	$2,000,000	Hardin	12	2
SX21123005	Hodgenville Sanitary and Storm Water Improvements Phase II	3-5 Years	Not Funded	$970,000	Larue	13	2
SX21027020	Irvington Manhole Rehabilitation Project	0-2 Years	Not Funded	$91,390	Breckinridge	14	1
SX21155009	Lebanon Wastewater System Rehabilitation and Improvements	0-2 Years	Not Funded	$995,000	Marion	15	1
SX21163007	Brandenburg Wastewater Treatment Plant Upgrade & Expansion	3-5 Years	Not Funded	$745,000	Meade	16	1
SX21027015	Cloverport Trailer Park Sewer Rehab	0-2 Years	Not Funded	$146,040	Breckinridge	17	3
SX21085008	Leitchfield Fountain View Sewer Extensions Phase II	3-5 Years	Not Funded	$535,000	Grayson	18	3
SX21027018	Cloverport Sewer System Lift Station Rehabilitation	0-2 Years	Not Funded	$122,100	Breckinridge	19	2
SX21155005	Crossroads Industrial Park Sewer Extension	3-5 Years	Not Funded	$390,000	Marion	20	2
SX21163005	Muldraugh Sewer Improvements Phase 3	3-5 Years	Not Funded	$240,000	Meade	21	2
SX21229005	Willisburg Wastewater Project	3-5 Years	Not Funded	$3,400,000	Washington	22	3
SX21229004	Springfield, Jim Town Project	3-5 Years	Not Funded	$1,000,000	Washington	23	4
SX21179022	New Haven Lyons Community Sewer Extension	3-5 Years	Not Funded	$1,221,000	Nelson	24	
SX21027010	Irvington Sanitary Sewer Improvements	3-5 Years	Not Funded	$3,000,000	Breckinridge	25	5
SX21027013	Hardinsburg Sewer System Rehabilitation Phase 2	0-2 Years	Not Funded	$827,240	Breckinridge	26	4
SX21093013	Vine Grove Wastewater Treatment Upgrade & Expansion	3-5 Years	Not Funded	$3,080,000	Hardin	27	4
SX21155007	Lebanon / Marion Industrial Pre-Treatment Facility	3-5 Years	Not Funded	$2,700,000	Marion	28	4
SX21093021	West Point Lift Station Upgrad	3-5 Years	Not Funded	$343,350	Hardin	29	5
SX21179012	Bardstown Plum Run Road Extension	3-5 Years	Not Funded	$600,000	Nelson	30	5
SX21155001	Lebanon Wastewater System Improvements	3-5 Years	Not Funded	$293,000	Marion	31	3
SX21229006	Springfield - Washington County Regional Sewer Study	3-5 Years	Not Funded	$150,000	Washington	32	5
SX21179021	New Haven Phase II Sewer Extension to New Hope	3-5 Years	Not Funded	$925,000	Nelson	33	
SX21179023	New Haven Lyons / Rolling Fork Church Sewer Extension	3-5 Years	Not Funded	$583,000	Nelson	34	
SX21179024	Bardstown SSES	0-2 Years	Not Funded	$150,000	Nelson	35	

Project Rankings For Lincoln Trail Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21179025	New Haven Outfall to Rolling Fork	3-5 Years	Not Funded	$240,000	Nelson	36	
SX21027005	Cloverport Wastewater Improvements	3-5 Years	Not Funded	$936,000	Breckinridge	37	
SX21027006	City of Hardinsburg: Blancett Lake-Airport Road Wastewater System Extension	3-5 Years	Not Funded	$707,670	Breckinridge	38	
SX21093025	West Point WWTP Expansion & Upgrade	3-5 Years	Not Funded	$3,257,000	Hardin	39	
SX21027007	City of Hardinsburg: Breckwood Wastewater System Extension	3-5 Years	Not Funded	$476,300	Breckinridge	40	
			Total Cost:	**$61,560,340**			

Breckinridge County

- 2010 census population of 20,059 (10,630 households) with 14% serviceable.
- Projected 2020 population of 21,489 (change of 1,430).
- Breckinridge County has 39.94 miles of existing sewer lines.
- 12.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $10,275,750.
- Estimated funding needs for projects from 6 to 10 years: $258,970.



Breckinridge County has a 2010 census population count of 20,059 (10,630 households) with a projected 2020 population count of 21,489 (8,788 households). Public sewer is currently available to approximately 14 percent of the county's households based on 2010 census counts. Over the next ten years approximately 255 serviceable households will be added through the construction of 12.00 miles of sewer line extensions and approximately 792 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances. 1.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Cloverport	4	$1,592,795	21	285	1.00	-	-
City of Hardinsburg	8	$5,595,925	212	307	10.00	2.00	1.00
City of Irvington	3	$3,346,000	22	200	1.00	-	-
Totals:	**15**	**$10,534,720**	**255**	**792**	**12.00**	**2.00**	**1.00**

Public Wastewater Systems in Breckinridge County

Note: Serviceability counts are for households within Breckinridge county only.

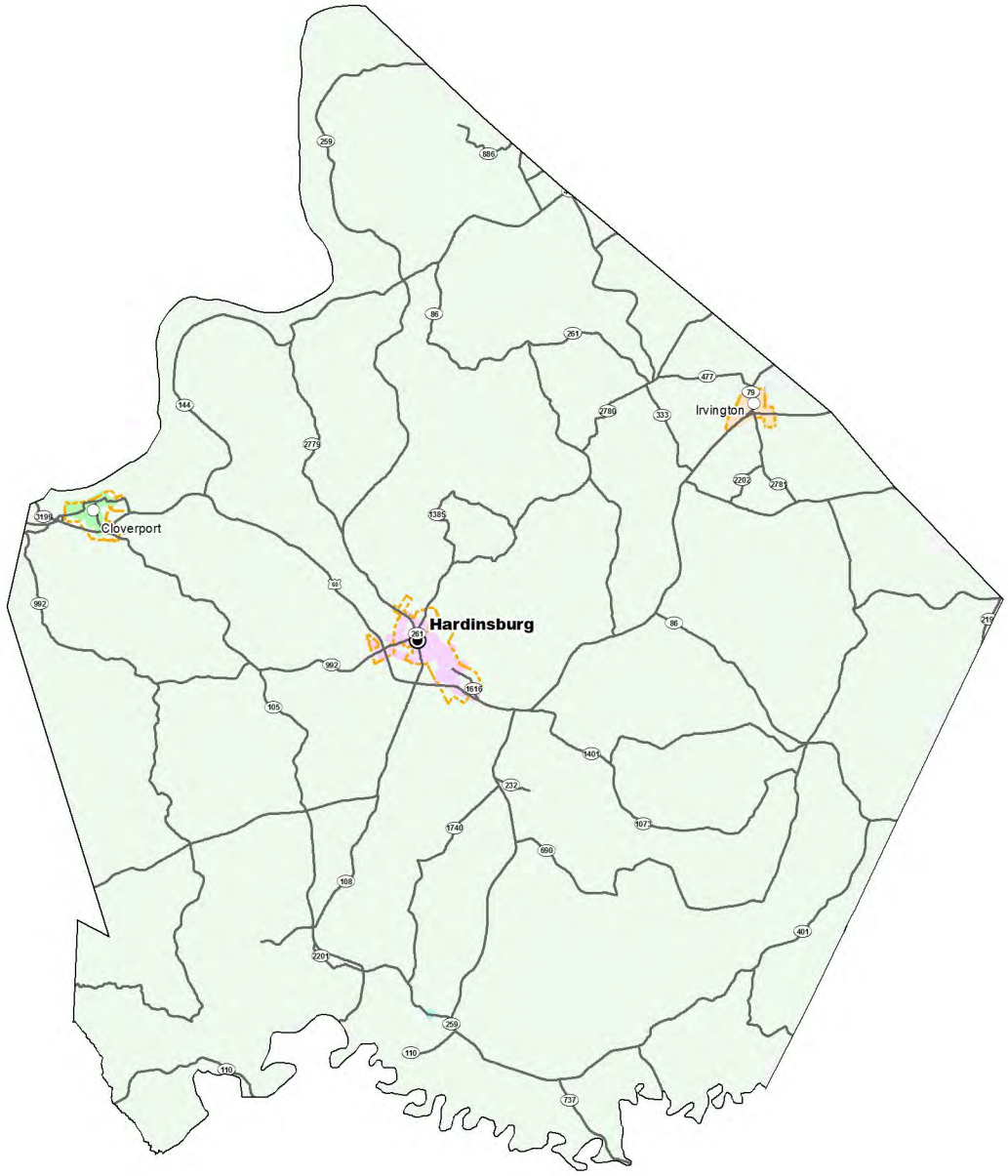
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0026701	Cloverport Sewer System	Breckinridge	964	470
KY0028363	Hardinsburg Sewer System	Breckinridge	2,169	1,025
		Totals:	3,133	1,495

SEWER SERVICE AREAS
BRECKINRIDGE COUNTY
Kentucky

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March, 2013



System Summary for Cloverport Sewer System

Permit ID	KY0026701	Treats Wastewater	Yes, 0.2 MGD with 0.1 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	555
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$19.20	Total KISOP Treated (MG)	-
Residential Customers	533	Total Treated (MG)	55.230
Commercial Customers	22	Number of Manholes	185
Institutional Customers	-	Number of Lift Stations	8
Industrial Customers	-	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 7.70 miles (Collection: 6.84 miles, Interceptors: 0.86 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Cloverport Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21027015	Cloverport Trailer Park Sewer Rehab	0-2 Years	Not Funded	$146,040	Breckinridge	17	3
SX21027018	Cloverport Sewer System Lift Station Rehabilitation	0-2 Years	Not Funded	$122,100	Breckinridge	19	2
SX21027005	Cloverport Wastewater Improvements	3-5 Years	Not Funded	$936,000	Breckinridge	37	
SX21027011	Cloverport Hwy 105 Sewer Extension	3-5 Years	Partially Funded	$388,655	Breckinridge		

System Summary for Hardinsburg Sewer System

Permit ID	KY0028363	Treats Wastewater	Yes, 0.73 MGD with 0.56 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,247
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.55	Total KISOP Treated (MG)	-
Residential Customers	1,095	Total Treated (MG)	204.470
Commercial Customers	141	Number of Manholes	250
Institutional Customers	6	Number of Lift Stations	5
Industrial Customers	3	Percent Lines 20 yrs or Older	70%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 20.29 miles (Collection: 19.21 miles, Interceptors: 1.08 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hardinsburg Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21027013	Hardinsburg Sewer System Rehabilitation Phase 2	0-2 Years	Not Funded	$827,240	Breckinridge	26	4
SX21027006	City of Hardinsburg: Blancett Lake-Airport Road Wastewater System Extension	3-5 Years	Not Funded	$707,670	Breckinridge	38	
SX21027007	City of Hardinsburg: Breckwood Wastewater System Extension	3-5 Years	Not Funded	$476,300	Breckinridge	40	
SX21027017	Hardinsburg Hwy 60 East Sewer Extensions	3-5 Years	Not Funded	$2,411,175	Breckinridge		
SX21027016	Hardinsburg Sewer Rehabilitation Phase III	3-5 Years	Not Funded	$500,000	Breckinridge		
SX21027008	City of Hardinsburg: Gilbert Heights Wastewater System Extension	3-5 Years	Not Funded	$314,570	Breckinridge		
SX21027014	Forest View Subdivision Sewer Extension	6-10 Years	Not Funded	$258,970	Breckinridge		
SX21027004	Breckinridge County/George Bennett Sewer Line Upgrade	3-5 Years	Not Funded	$100,000	Breckinridge		

System Summary for Irvington Sewer System

Permit ID	KY0092436	Treats Wastewater	Yes, 0.14 MGD with 0.05 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$34.02	Total KISOP Treated (MG)	-
Residential Customers	452	Total Treated (MG)	28.410
Commercial Customers	30	Number of Manholes	46
Institutional Customers	1	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 11.93 miles (Collection: 0.21 miles, Interceptors: 11.72 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Irvington Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21027020	Irvington Manhole Rehabilitation Project	0-2 Years	Not Funded	$91,390	Breckinridge	14	1
SX21027010	Irvington Sanitary Sewer Improvements	3-5 Years	Not Funded	$3,000,000	Breckinridge	25	5
SX21027019	Irvington Ater Heights Sewer Extension	0-2 Years	Not Funded	$254,610	Breckinridge		

Grayson County

- 2010 census population of 25,746 (13,561 households) with 25% serviceable.
- Projected 2020 population of 27,048 (change of 1,302).
- Grayson County has 79.29 miles of existing sewer lines.
- 3.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 1.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,415,750.
- There are no projects planned from 6 to 10 years.



Grayson County has a 2010 census population count of 25,746 (13,561 households) with a projected 2020 population count of 27,048 (11,007 households). Public sewer is currently available to approximately 25 percent of the county's households based on 2010 census counts. Over the next ten years approximately 28 serviceable households will be added through the construction of 3.00 miles of sewer line extensions. 1.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Clarkson	2	$520,750	-	-	-	-	1.00
City of Leitchfield	2	$885,000	28	-	3.00	-	-
Leitchfield Utility Commission	1	$1,010,000	-	-	-	-	-
Totals:	**5**	**$2,415,750**	**28**	**-**	**3.00**	**-**	**1.00**

Public Wastewater Systems in Grayson County

Note: Serviceability counts are for households within Grayson county only.

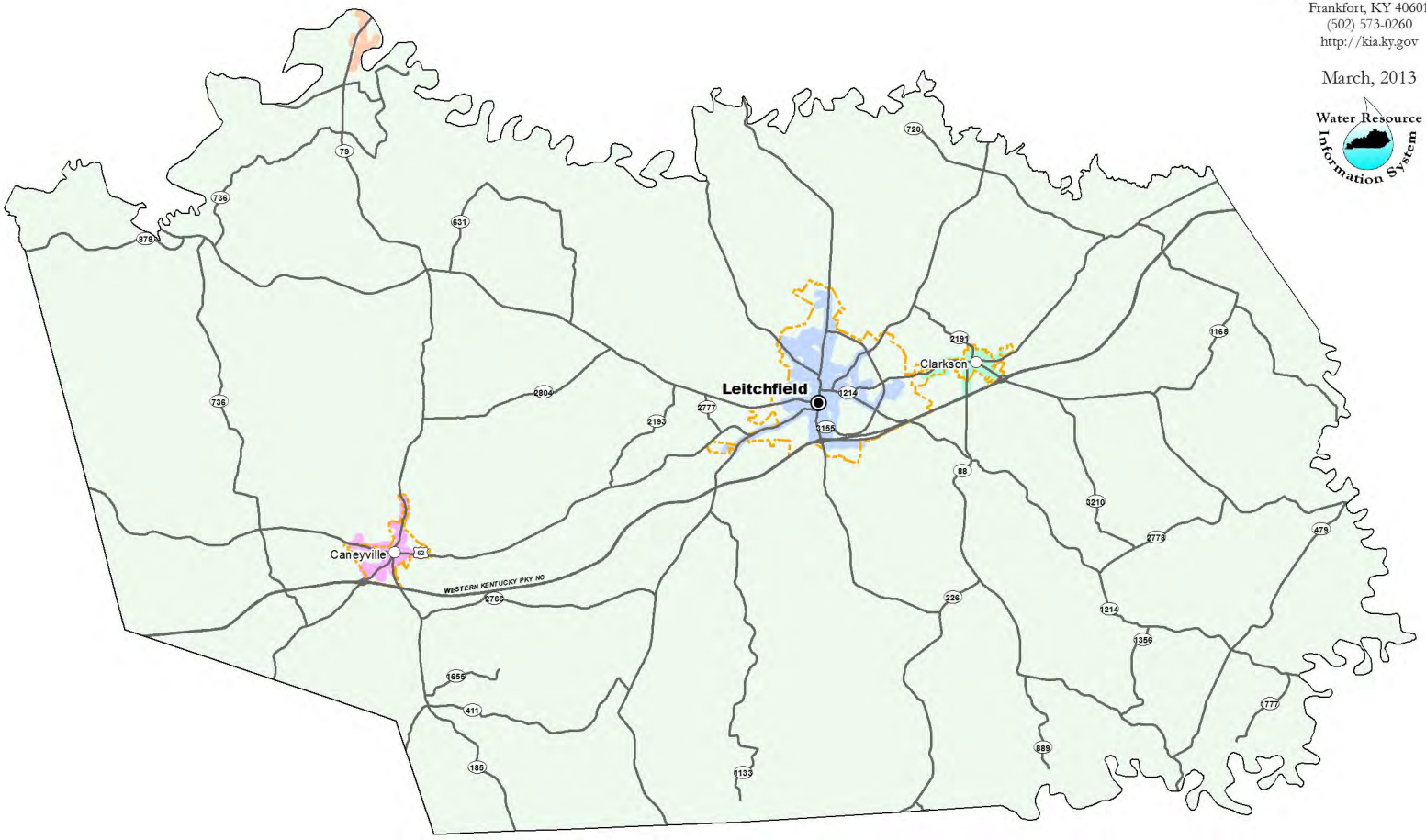
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0072044	Caneyville Sewer System	Grayson	609	301
KY0090590	Clarkson Sewer System	Grayson	868	433
KY0022934	Leitchfield Utilities Commission	Grayson	5,665	2,583
		Totals:	7,142	3,317

SEWER SERVICE AREAS
GRAYSON COUNTY
Kentucky

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March, 2013



SEWER SERVICE BY OWNER

- CANEYVILLE SEWER SYSTEM
- CLARKSON SEWER SYSTEM
- LEITCHFIELD UTILITIES COMMISSION
- ROUGH RIVER DAM STATE RESORT PARK

System Summary for Caneyville Sewer System

Permit ID	KY0072044	Treats Wastewater	Yes, 0.1 MGD with 0.05 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	255
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$20.67	Total KISOP Treated (MG)	-
Residential Customers	209	Total Treated (MG)	31.680
Commercial Customers	42	Number of Manholes	210
Institutional Customers	4	Number of Lift Stations	5
Industrial Customers	-	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 45% Constructed
Total Collection System Line Length = 10.99 miles (Collection: 9.96 miles, Interceptors: 1.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Caneyville Sewer System

System Summary for Clarkson Sewer System

Permit ID	KY0090590	Treats Wastewater	Yes, 0.04 MGD with 0.03 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	475
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.42	Total KISOP Treated (MG)	-
Residential Customers	400	Total Treated (MG)	14.550
Commercial Customers	75	Number of Manholes	120
Institutional Customers	-	Number of Lift Stations	9
Industrial Customers	-	Percent Lines 20 yrs or Older	70%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 10.88 miles (Collection: 7.92 miles, Interceptors: 2.97 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Clarkson Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21085009	Clarkson Sewer / Lift Station Rehabilitation	3-5 Years	Not Funded	$192,500	Grayson	8	1
SX21085011	Clarkson Wastewater Extension	0-2 Years	Not Funded	$328,250	Grayson	11	2

System Summary for Leitchfield Utilities Commission

Permit ID	KY0022934	Treats Wastewater	Yes, 2 MGD with 1.22 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,286
Owner Type	Incorporated City	KISOP Sender	No
Employees	8	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$29.75	Total KISOP Treated (MG)	-
Residential Customers	1,930	Total Treated (MG)	473.760
Commercial Customers	337	Number of Manholes	886
Institutional Customers	-	Number of Lift Stations	19
Industrial Customers	18	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 25% Constructed
Total Collection System Line Length = 54.52 miles (Collection: 42.27 miles, Interceptors: 12.25 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Leitchfield Utilities Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21085008	Leitchfield Fountain View Sewer Extensions Phase II	3-5 Years	Not Funded	$535,000	Grayson	18	3
SX21085010	Leitchfield Utility Energy Savings Project	0-2 Years	Not Funded	$1,010,000	Grayson		
SX21085003	Leitchfield Health Center Sewer Extension	0-2 Years	Not Funded	$350,000	Grayson		

Hardin County

- 2010 census population of 105,543 (43,261 households) with 29% serviceable.
- Projected 2020 population of 116,612 (change of 11,069).
- Hardin County has 428.18 miles of existing sewer lines.
- 32.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- 4.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $48,990,943.
- There are no projects planned from 6 to 10 years.



Hardin County has a 2010 census population count of 105,543 (43,261 households) with a projected 2020 population count of 116,612 (46,055 households). Public sewer is currently available to approximately 29 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,321 serviceable households will be added through the construction of 32.00 miles of sewer line extensions and approximately 2,814 instances of improved service through the rehabilitation of 4.00 miles of existing sewer lines and other appurtenances. 4.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Elizabethtown	4	$10,985,073	79	2,664	1.00	4.00	3.00
City of Lebanon Junction	1	$265,820	1	-	-	-	-
City of Vine Grove	1	$3,080,000	-	-	-	-	-
City of West Point	3	$4,107,850	-	150	-	-	-
Hardin County Water District #1	4	$6,552,200	-	-	5.00	-	1.00
Hardin County Water District #2	1	$24,000,000	1,241	-	26.00	-	-
Totals:	**14**	**$48,990,943**	**1,321**	**2,814**	**32.00**	**4.00**	**4.00**

Public Wastewater Systems in Hardin County

Note: Serviceability counts are for households within Hardin county only.

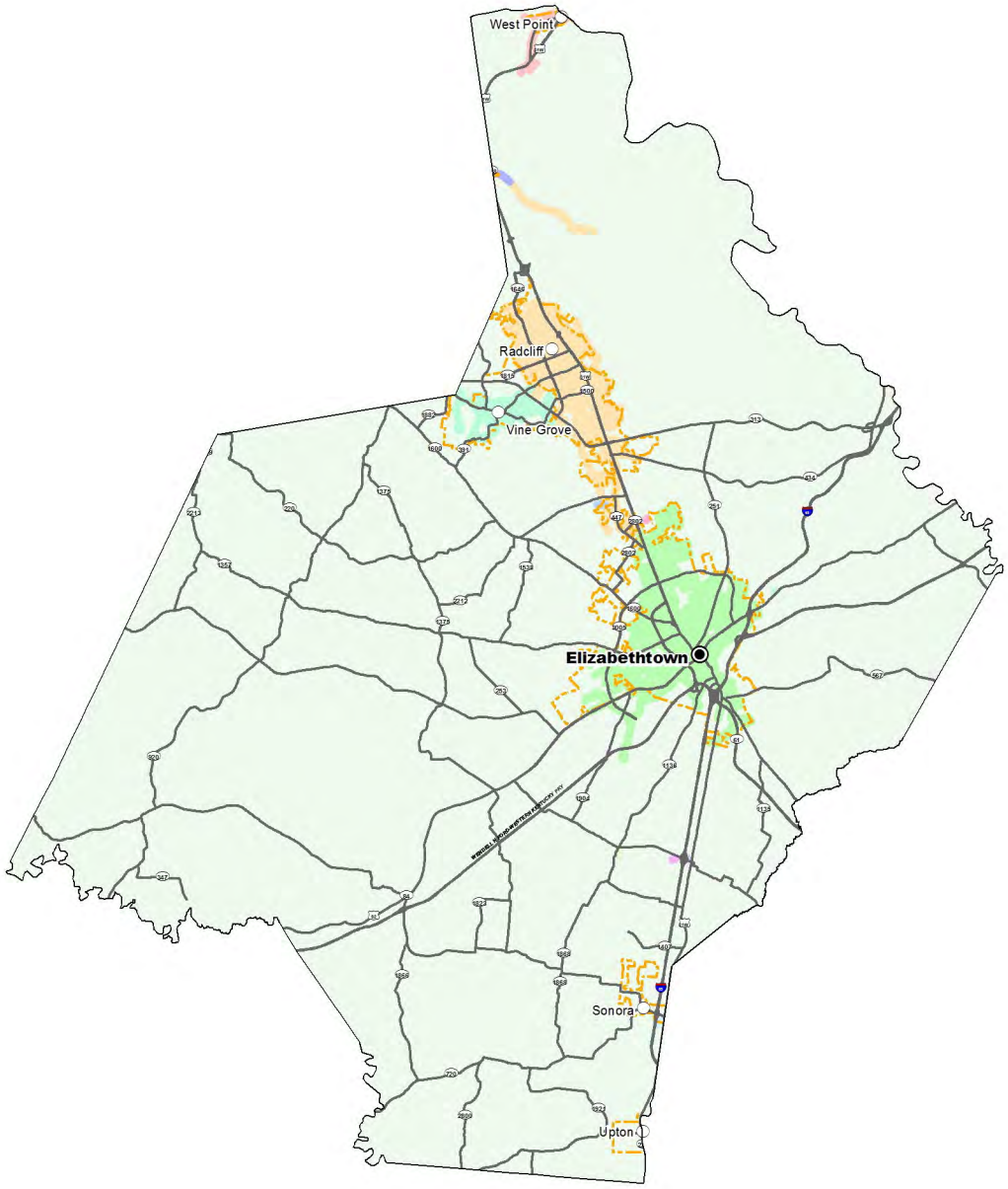
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0022390	Hardin Co. Water District No. 1 Radcliff Sewer System	Hardin	23,296	10,095
KY0024988	Vine Grove Sewer System	Hardin	4,226	1,780
KY0022152	West Point Sewer System	Hardin	864	458
		Totals:	28,386	12,333

SEWER SERVICE AREAS
HARDIN COUNTY
Kentucky

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March, 2013



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SEWER SERVICE BY OWNER

- AIRVIEW ESTATES SUBDIVISION
- EAST HARDIN MIDDLE SCHOOL
- ELIZABETHTOWN WASTEWATER SYSTEM
- GLENDALE AUTO TRUCK PLAZA
- HCWD #1 RADCLIFF SEWER SYSTEM
- HEARTLAND MOBILE HOME COMMUNITY
- LINCOLN TRAIL ELEM SCHOOL
- MULDRAUGH SEWER SYSTEM
- PETRO STOPPING CENTERS
- SONORA AUTO TRUCK PLAZA
- VINE GROVE SEWER SYSTEM
- WEST POINT SEWER SYSTEM

System Summary for Airview Estates Subdivision

Permit ID	KY0045390	Treats Wastewater	Yes, 0.055 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.02 miles (Collection: 0.02 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Airview Estates Subdivision

System Summary for Elizabethtown Wastewater System

Permit ID	KY0022039	Treats Wastewater	Yes, 13 MGD with 6.09 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Incorporated City	KISOP Sender	No
Employees	27	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$16.80	Total KISOP Treated (MG)	-
Residential Customers	10,100	Total Treated (MG)	2,222.500
Commercial Customers	2,149	Number of Manholes	5180
Institutional Customers	-	Number of Lift Stations	34
Industrial Customers	31	Percent Lines 20 yrs or Older	60%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 0.54 miles (Collection: 0.12 miles, Interceptors: 0.42 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Elizabethtown Wastewater System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21093026	Hawkins Drive Sewer Improvements	0-2 Years	Partially Funded	$4,062,423	Hardin		
SX21093029	Village Drive Sewer Improvements	0-2 Years	Partially Funded	$3,727,800	Hardin		
SX21093028	Poplar Drive Sewer Improvements	0-2 Years	Partially Funded	$2,885,000	Hardin		
SX21093027	Harvard Drive Sewer Improvements	0-2 Years	Partially Funded	$309,850	Hardin		

System Summary for Hardin Co. Water District No. 1 Radcliff Sewer System

Permit ID	KY0022390	Treats Wastewater	Yes, 6 MGD with 3.3 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	9,042
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	18	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$58.24	Total KISOP Treated (MG)	-
Residential Customers	8,258	Total Treated (MG)	886.285
Commercial Customers	783	Number of Manholes	2881
Institutional Customers	-	Number of Lift Stations	54
Industrial Customers	1	Percent Lines 20 yrs or Older	64%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 150.51 miles (Collection: 128.49 miles, Interceptors: 22.02 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hardin Co. Water District No. 1 Radcliff Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21093019	HCWD#2 Northern Hardin Co. Wastewater Project	3-5 Years	Not Funded	$24,000,000	Hardin	1	1
SX21093022	HCWD#1 Boone Trace Sewer Improvements	0-2 Years	Not Funded	$2,000,000	Hardin	12	2
SX21093021	West Point Lift Station Upgrad	3-5 Years	Not Funded	$343,350	Hardin	29	5
SX21093025	West Point WWTP Expansion & Upgrade	3-5 Years	Not Funded	$3,257,000	Hardin	39	
SX21093023	HCWD#1 Radcliff Lift Station & Sewer Line Upgrades	0-2 Years	Not Funded	$2,570,000	Hardin		
SX21093011	HCWD #1 Racliff Standby Generator Project	0-2 Years	Not Funded	$1,597,200	Hardin		
SX21093020	HCWD#1 Radcliff WWTP Improvements	0-2 Years	Not Funded	$385,000	Hardin		

System Summary for Vine Grove Sewer System

Permit ID	KY0024988	Treats Wastewater	Yes, 0.71 MGD with 0.35 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,506
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.76	Total KISOP Treated (MG)	-
Residential Customers	1,440	Total Treated (MG)	134.640
Commercial Customers	47	Number of Manholes	470
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	60%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 29.04 miles (Collection: 27.62 miles, Interceptors: 1.42 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Vine Grove Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21093013	Vine Grove Wastewater Treatment Upgrade & Expansion	3-5 Years	Not Funded	$3,080,000	Hardin	27	4

System Summary for West Point Sewer System

Permit ID	KY0022152	Treats Wastewater	Yes, 0.2 MGD with 0.78 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	422
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$28.00	Total KISOP Treated (MG)	-
Residential Customers	382	Total Treated (MG)	39.600
Commercial Customers	18	Number of Manholes	54
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	98%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 8.85 miles (Collection: 6.60 miles, Interceptors: 2.25 miles).			

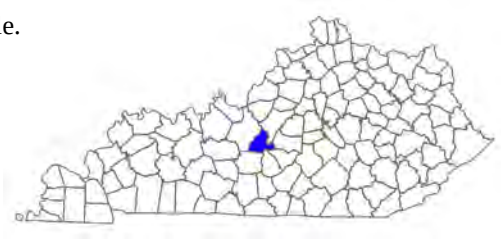
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for West Point Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21093024	West Point Sewer Rehabilitation and Drainage Improvements III	3-5 Years	Not Funded	$507,500	Hardin	4	3

Larue County

- 2010 census population of 14,193 (6,172 households) with 25% serviceable.
- Projected 2020 population of 14,961 (change of 768).
- Larue County has 26.82 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 3.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,856,465.
- There are no projects planned from 6 to 10 years.



Larue County has a 2010 census population count of 14,193 (6,172 households) with a projected 2020 population count of 14,961 (6,069 households). Public sewer is currently available to approximately 25 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1 serviceable households will be added through the construction of 0.00 miles of sewer line extensions and approximately 190 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances. 3.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Hodgenville	1	$970,000	-	190	-	2.00	-
City of New Haven	2	$1,804,000	-	-	-	-	3.00
Larue County Fiscal Court	1	$82,465	1	-	-	-	-
Totals:	**4**	**$2,856,465**	**1**	**190**	**-**	**2.00**	**3.00**

Public Wastewater Systems in Larue County

Note: Serviceability counts are for households within Larue county only.

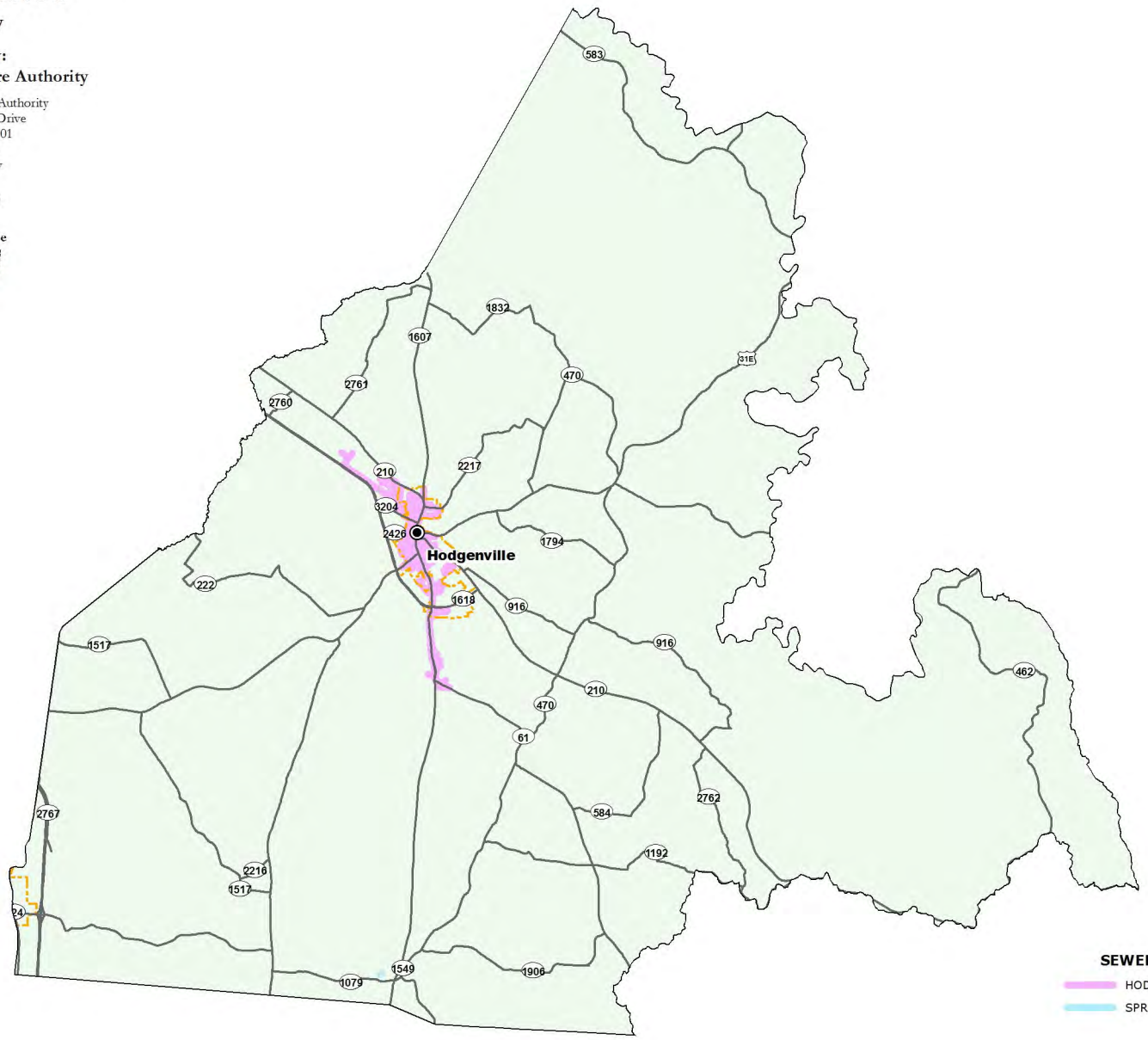
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0026379	Hodgenville Sewer System	Larue	3,558	1,534
		Totals:	3,558	1,534

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March, 2013



System Summary for Hodgenville Sewer System

Permit ID	KY0026379	Treats Wastewater	Yes, 0.78 MGD with 0.56 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,508
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.41	Total KISOP Treated (MG)	-
Residential Customers	1,344	Total Treated (MG)	223.920
Commercial Customers	150	Number of Manholes	454
Institutional Customers	5	Number of Lift Stations	10
Industrial Customers	9	Percent Lines 20 yrs or Older	30%
KISOP Customers	-	Has Facility Plan	Yes, 85% Constructed
Total Collection System Line Length = 26.82 miles (Collection: 20.96 miles, Interceptors: 5.86 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hodgenville Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21123005	Hodgenville Sanitary and Storm Water Improvements Phase II	3-5 Years	Not Funded	$970,000	Larue	13	2
SX21123004	Larue County Industrial Park Wastewater Improvements	0-2 Years	Not Funded	$82,465	Larue		

Marion County

- 2010 census population of 19,820 (8,182 households) with 40% serviceable.
- Projected 2020 population of 21,424 (change of 1,604).
- Marion County has 74.92 miles of existing sewer lines.
- 6.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 1.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,024,300.
- There are no projects planned from 6 to 10 years.



Marion County has a 2010 census population count of 19,820 (8,182 households) with a projected 2020 population count of 21,424 (8,332 households). Public sewer is currently available to approximately 40 percent of the county's households based on 2010 census counts. Over the next ten years approximately 95 serviceable households will be added through the construction of 6.00 miles of sewer line extensions. 1.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Lebanon	4	$4,634,300	94	-	5.00	-	1.00
Marion County Industrial Foundation	1	$390,000	1	-	1.00	-	-
Totals:	**5**	**$5,024,300**	**95**	-	**6.00**	-	**1.00**

Public Wastewater Systems in Marion County

Note: Serviceability counts are for households within Marion county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0090719	Bradfordsville Sewer System	Marion	305	148
KY0026549	Lebanon Sewer System	Marion	6,011	2,768
KYP000073	Loretto Wastewater System	Marion	803	322
		Totals:	7,119	3,238

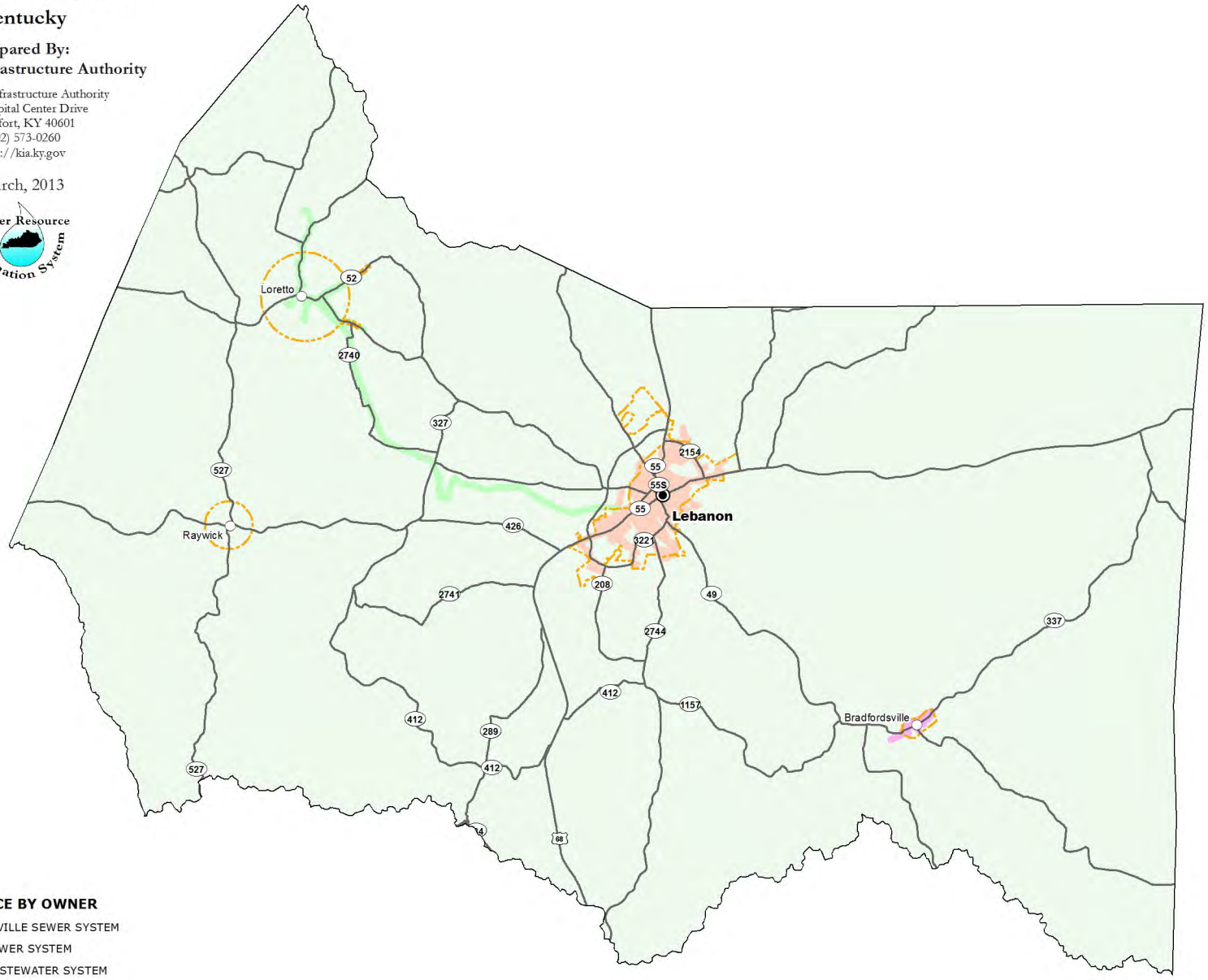
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MARION COUNTY
Kentucky

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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER

- BRADFORDSVILLE SEWER SYSTEM
- LEBANON SEWER SYSTEM
- LORETTO WASTEWATER SYSTEM

System Summary for Bradfordsville Sewer System

Permit ID	KY0090719	Treats Wastewater	Yes, 0.4 MGD with 0.01 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	149
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$46.49	Total KISOP Treated (MG)	-
Residential Customers	136	Total Treated (MG)	8.900
Commercial Customers	10	Number of Manholes	70
Institutional Customers	3	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 2.92 miles (Collection: 2.86 miles, Interceptors: 0.06 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Bradfordsville Sewer System

System Summary for Lebanon Sewer System

Permit ID	KY0026549	Treats Wastewater	Yes, 3 MGD with 1.2 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,621
Owner Type	Incorporated City	KISOP Sender	No
Employees	8	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.12	Total KISOP Treated (MG)	140.040
Residential Customers	2,541	Total Treated (MG)	647.300
Commercial Customers	13	Number of Manholes	940
Institutional Customers	30	Number of Lift Stations	5
Industrial Customers	37	Percent Lines 20 yrs or Older	75%
KISOP Customers	1	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 49.09 miles (Collection: 46.92 miles, Interceptors: 2.17 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Lebanon Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21155009	Lebanon Wastewater System Rehabilitation and Improvements	0-2 Years	Not Funded	$995,000	Marion	15	1
SX21155005	Crossroads Industrial Park Sewer Extension	3-5 Years	Not Funded	$390,000	Marion	20	2
SX21155007	Lebanon / Marion Industrial Pre-Treatment Facility	3-5 Years	Not Funded	$2,700,000	Marion	28	4
SX21155001	Lebanon Wastewater System Improvements	3-5 Years	Not Funded	$293,000	Marion	31	3
SX21155008	Lebanon Nally & Haydon Sanitary Sewer Project	3-5 Years	Not Funded	$646,300	Marion		

System Summary for Loretto Wastewater System

Permit ID	KYP000073	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	306
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	1	Total KISOP Sent (MG)	140.040
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	252	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	9
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 85% Constructed
Total Collection System Line Length = 22.92 miles (Collection: 8.43 miles, Interceptors: 14.48 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Loretto Wastewater System

Meade County

- 2010 census population of 28,602 (11,762 households) with 22% serviceable.
- Projected 2020 population of 30,901 (change of 2,299).
- Meade County has 79.61 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $608,000.
- There are no projects planned from 6 to 10 years.



Meade County has a 2010 census population count of 28,602 (11,762 households) with a projected 2020 population count of 30,901 (11,964 households). Public sewer is currently available to approximately 22 percent of the county's households based on 2010 census counts. Over the next ten years approximately 500 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Brandenburg	1	$368,000	-	500	-	-	-
City of Muldraugh	1	$240,000	-	-	-	-	-
Totals:	**2**	**$608,000**	-	**500**	-	-	-

Public Wastewater Systems in Meade County

Note: Serviceability counts are for households within Meade county only.

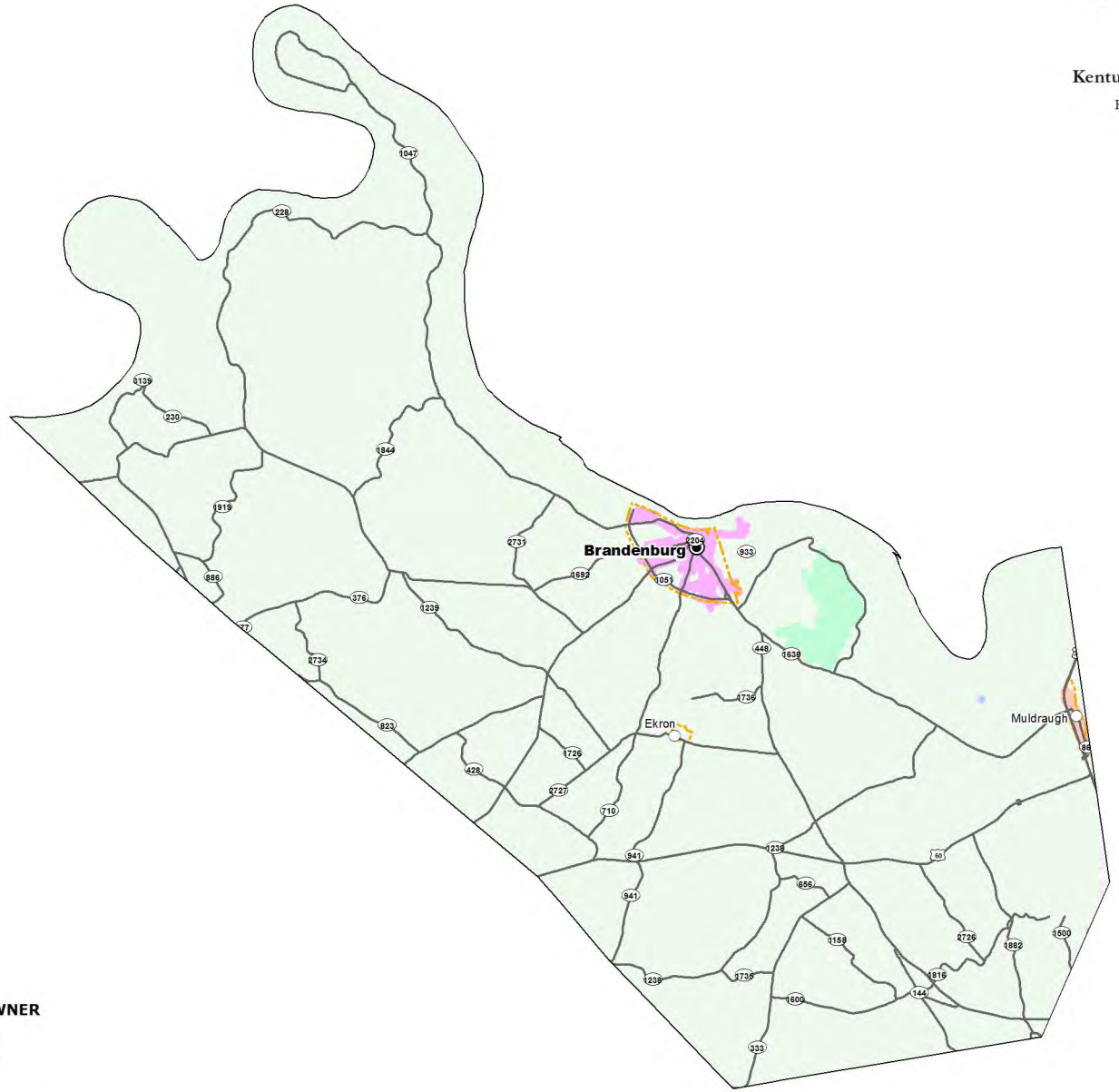
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021474	Brandenburg Sewer System	Meade	2,782	1,210
KY0043478	Doe Valley Association Inc	Meade	1,878	820
KYP000051	Muldraugh Sewer System	Meade	936	532
		Totals:	5,596	2,562

SEWER SERVICE AREAS
MEADE COUNTY
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SEWER SERVICE BY OWNER

- BRANDENBURG SEWER SYSTEM
- DOE VALLEY ASSOCIATION INC
- MULDRAUGH SEWER SYSTEM
- OTTER CREEK PARK OUTDOOR RECREATION AREA

System Summary for Brandenburg Sewer System

Permit ID	KY0021474	Treats Wastewater	Yes, 0.91 MGD with 0.25 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,243
Owner Type	Incorporated City	KISOP Sender	No
Employees	7	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.82	Total KISOP Treated (MG)	-
Residential Customers	986	Total Treated (MG)	102.800
Commercial Customers	250	Number of Manholes	400
Institutional Customers	5	Number of Lift Stations	20
Industrial Customers	2	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 29.31 miles (Collection: 24.45 miles, Interceptors: 4.87 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Brandenburg Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21163006	Brandenburg Main Lift Station Replacement / Upgrade	0-2 Years	Not Funded	$368,000	Meade		

System Summary for Doe Valley Association Inc

Permit ID	KY0043478	Treats Wastewater	Yes, 0.15 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	522
Owner Type	Private Non-Profit	KISOP Sender	No
Employees	7	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$7.62	Total KISOP Treated (MG)	-
Residential Customers	552	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	14
Industrial Customers	-	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 44.47 miles (Collection: 44.47 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Doe Valley Association Inc

System Summary for Muldraugh Sewer System

Permit ID	KYP000051	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	301
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.22	Total KISOP Treated (MG)	-
Residential Customers	248	Total Treated (MG)	-
Commercial Customers	52	Number of Manholes	96
Institutional Customers	1	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 6.43 miles (Collection: 4.72 miles, Interceptors: 1.71 miles).			

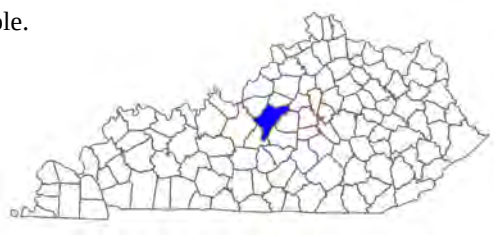
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Muldraugh Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21163005	Muldraugh Sewer Improvements Phase 3	3-5 Years	Not Funded	$240,000	Meade	21	2

Nelson County

- 2010 census population of 43,437 (18,075 households) with 46% serviceable.
- Projected 2020 population of 50,119 (change of 6,682).
- Nelson County has 173.01 miles of existing sewer lines.
- 5.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- 14.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $12,126,000.
- There are no projects planned from 6 to 10 years.



Nelson County has a 2010 census population count of 43,437 (18,075 households) with a projected 2020 population count of 50,119 (20,219 households). Public sewer is currently available to approximately 46 percent of the county's households based on 2010 census counts. Over the next ten years approximately 126 serviceable households will be added through the construction of 5.00 miles of sewer line extensions and approximately 4,476 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances. 14.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Bardstown	4	$6,910,000	125	4,000	4.00	-	6.00
City of New Haven	6	$4,916,000	-	476	-	1.00	8.00
Nelson County Fiscal Court	1	$300,000	1	-	1.00	-	-
Totals:	**11**	**$12,126,000**	**126**	**4,476**	**5.00**	**1.00**	**14.00**

Public Wastewater Systems in Nelson County

Note: Serviceability counts are for households within Nelson county only.

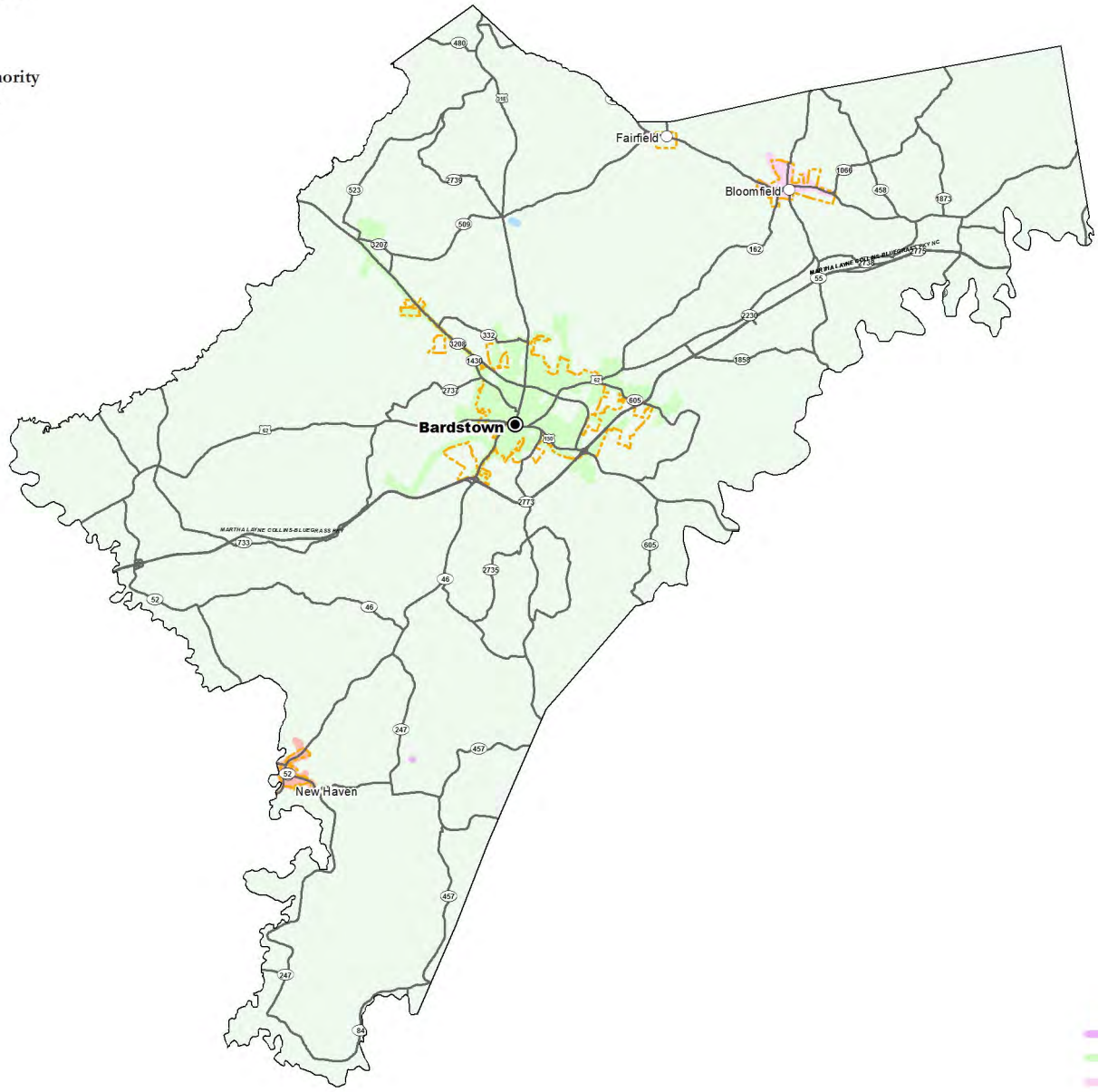
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021237	Bardstown Sewer System	Nelson	17,207	7,447
KYP000086	Bloomfield WWTP	Nelson	907	412
KY0034126	New Haven Sewer System	Nelson	932	404
		Totals:	19,046	8,263

SEWER SERVICE AREAS
NELSON COUNTY
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March, 2013



System Summary for Bardstown Sewer System

Permit ID	KY0021237	Treats Wastewater	Yes, 3 MGD with 2.5 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	6,923
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$25.93	Total KISOP Treated (MG)	-
Residential Customers	6,701	Total Treated (MG)	436.800
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	21
Industrial Customers	22	Percent Lines 20 yrs or Older	60%
KISOP Customers	1	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 143.97 miles (Collection: 124.78 miles, Interceptors: 19.19 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bardstown Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21179014	Bardstown Cox	3-5 Years	Not Funded	$1,960,000	Nelson	3	2
SX21179012	Bardstown Plum Run Road Extension	3-5 Years	Not Funded	$600,000	Nelson	30	5
SX21179024	Bardstown SSES	0-2 Years	Not Funded	$150,000	Nelson	35	
SX21179016	City of Bardstown-Town Creek Interceptor	3-5 Years	Partially Funded	$4,200,000	Nelson		
SX21179018	Nelson County Industrial Park Wastewater Project	3-5 Years	Not Funded	$300,000	Nelson		

System Summary for Bardstown Sewer System

Permit ID	KY0104027	Treats Wastewater	Yes, 4 MGD with 0.75 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Incorporated City	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.02	Total KISOP Treated (MG)	-
Residential Customers	6,678	Total Treated (MG)	595.600
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	22	Percent Lines 20 yrs or Older	60%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed

Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bardstown Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21179012	Bardstown Plum Run Road Extension	3-5 Years	Not Funded	$600,000	Nelson	30	5

System Summary for Bloomfield WWTP

Permit ID	KYP000086	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	457
Owner Type		KISOP Sender	Yes, to 1 receiver.
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.66	Total KISOP Treated (MG)	-
Residential Customers	422	Total Treated (MG)	-
Commercial Customers	34	Number of Manholes	216
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	1	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 60% Constructed
Total Collection System Line Length = 19.50 miles (Collection: 8.31 miles, Interceptors: 11.19 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Bloomfield WWTP

System Summary for New Haven Sewer System

Permit ID	KY0034126	Treats Wastewater	Yes, 0.16 MGD with 0.1 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	447
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$24.72	Total KISOP Treated (MG)	-
Residential Customers	400	Total Treated (MG)	39.700
Commercial Customers	40	Number of Manholes	110
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 9.48 miles (Collection: 7.39 miles, Interceptors: 2.10 miles).			

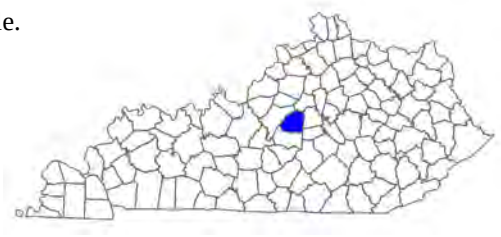
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for New Haven Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21179020	New Haven Phase I Sewer Extension to Gethsemani Monastery	3-5 Years	Not Funded	$791,000	Nelson	2	3
SX21179013	New Haven - WWTP Improvements Projects	3-5 Years	Not Funded	$1,136,000	Nelson	5	1
SX21179017	City of New Haven I and I Sewer Rehab. Phase II	0-2 Years	Not Funded	$603,000	Nelson	7	4
SX21179022	New Haven Lyons Community Sewer Extension	3-5 Years	Not Funded	$1,221,000	Nelson	24	
SX21179021	New Haven Phase II Sewer Extension to New Hope	3-5 Years	Not Funded	$925,000	Nelson	33	
SX21179023	New Haven Lyons / Rolling Fork Church Sewer Extension	3-5 Years	Not Funded	$583,000	Nelson	34	
SX21179025	New Haven Outfall to Rolling Fork	3-5 Years	Not Funded	$240,000	Nelson	36	
SX21179026	New Haven Dollar General Store Area Sewer Line Replacement	0-2 Years	Not Funded	$174,000	Nelson		
SX21179027	New Haven Railroad Museum Area Sewer Rehabilitation	3-5 Years	Not Funded	$161,000	Nelson		

Washington County

- 2010 census population of 11,717 (5,044 households) with 26% serviceable.
- Projected 2020 population of 12,486 (change of 769).
- Washington County has 32.38 miles of existing sewer lines.
- 8.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 12.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,318,000.
- There are no projects planned from 6 to 10 years.



Washington County has a 2010 census population count of 11,717 (5,044 households) with a projected 2020 population count of 12,486 (4,958 households). Public sewer is currently available to approximately 26 percent of the county's households based on 2010 census counts. Over the next ten years approximately 173 serviceable households will be added through the construction of 8.00 miles of sewer line extensions. 12.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Springfield	5	$6,318,000	173	-	8.00	-	12.00
Totals:	**5**	**$6,318,000**	**173**	**-**	**8.00**	**-**	**12.00**

Public Wastewater Systems in Washington County

Note: Serviceability counts are for households within Washington county only.

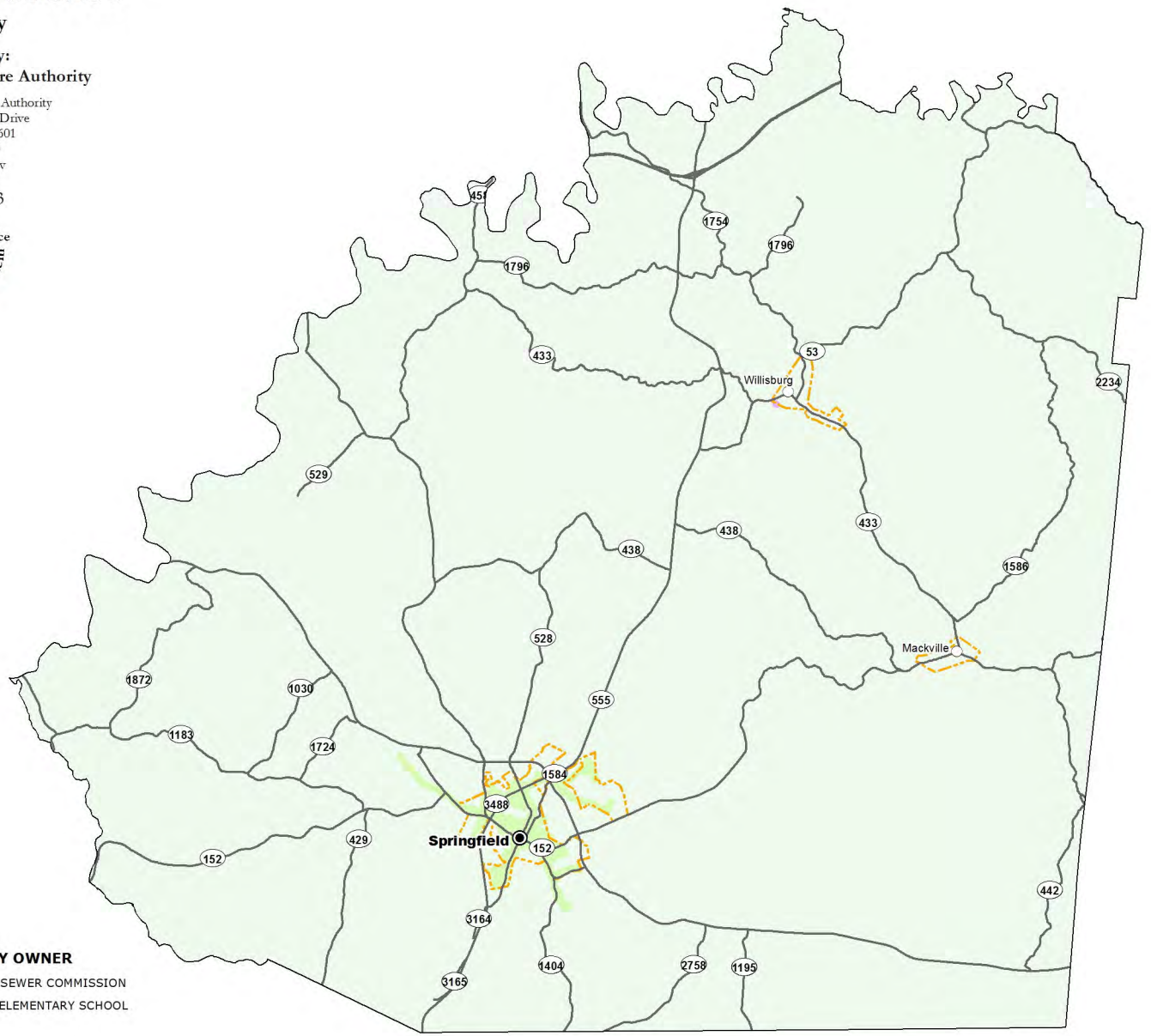
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020907	Springfield Water & Sewer Commission	Washington	2,699	1,305
		Totals:	2,699	1,305

SEWER SERVICE AREAS
WASHINGTON COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



SEWER SERVICE BY OWNER

- SPRINGFIELD WATER & SEWER COMMISSION
- WASHINGTON COUNTY ELEMENTARY SCHOOL

System Summary for Springfield Water & Sewer Commission

Permit ID	KY0020907	Treats Wastewater	Yes, 0.88 MGD with 0.47 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,273
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$24.52	Total KISOP Treated (MG)	-
Residential Customers	1,080	Total Treated (MG)	224.200
Commercial Customers	181	Number of Manholes	624
Institutional Customers	-	Number of Lift Stations	8
Industrial Customers	12	Percent Lines 20 yrs or Older	70%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed

Total Collection System Line Length = 32.36 miles (Collection: 26.47 miles, Interceptors: 5.89 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Springfield Water & Sewer Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21229008	Springfield Hwy 150/KY55 Business Park Sewer	3-5 Years	Not Funded	$578,000	Washington	6	2
SX21229003	Springfield Wastewater Treatment Plant Upgrade	3-5 Years	Not Funded	$1,190,000	Washington	10	1
SX21229005	Willisburg Wastewater Project	3-5 Years	Not Funded	$3,400,000	Washington	22	3
SX21229004	Springfield, Jim Town Project	3-5 Years	Not Funded	$1,000,000	Washington	23	4
SX21229006	Springfield - Washington County Regional Sewer Study	3-5 Years	Not Funded	$150,000	Washington	32	5

Northern Kentucky Area Development District (NKADD)



- 2010 census population of 438,647 (185,049 households) with 81% serviceable.
- Projected 2020 population of 488,377 (change of 49,730).
- 2,093.95 miles of existing sewer lines.
- 41.00 miles of line extensions proposed in the next 10 years.
- 12.00 miles of line rehabilitation proposed in the next 10 years.
- 10.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $46,972,001.
- There are no projects planned from 6 to 10 years.
- Average age of wastewater treatment plants is 21 years.
- Total number of interconnected systems is 3.
- 121 miles of sewer lines less than 15 years old.
- 692 miles of sewer lines between 15 and 30 years old.
- 682 miles of sewer lines between 31 and 50 years old.
- 393 miles of sewer lines between 51 and 70 years old.
- 210 miles of sewer lines greater than 70 years old.

Northern Kentucky Area Development District has a 2010 census population count of 438,647 (185,049 households) with a projected 2020 population count of 488,377 (194,345 households). Public sewer is currently available to approximately 81 percent of the district's households based on 2010 census counts. Over the next ten years approximately 1,482 serviceable households will be added through the construction of 41.00 miles of sewer line extensions and approximately 5,119 instances of improved service through the rehabilitation of 12.00 miles of existing sewer lines and other appurtenances. 10.00 miles of interceptor lines are also proposed within this district.

County Summary for Northern Kentucky Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Boone	118,811	46,154	153,933	59,951	39,806	86%	$ 7,229,050
Campbell	90,336	39,523	91,642	37,713	34,598	88%	-
Carroll	10,811	4,696	11,440	4,408	3,037	65%	$ 8,651,295
Gallatin	8,589	3,786	9,264	3,592	1,204	32%	$ 5,591,673
Grant	24,662	9,942	26,917	9,870	4,168	42%	$ 8,990,470
Kenton	159,720	68,975	168,458	68,111	64,499	94%	$ 5,035,246
Owen	10,841	5,634	11,336	4,713	934	17%	$ 2,817,005
Pendleton	14,877	6,339	15,387	5,987	1,575	25%	$ 8,657,262
Totals	**438,647**	**185,049**	**488,377**	**194,345**	**149,821**	**81%**	**$ 46,972,001**

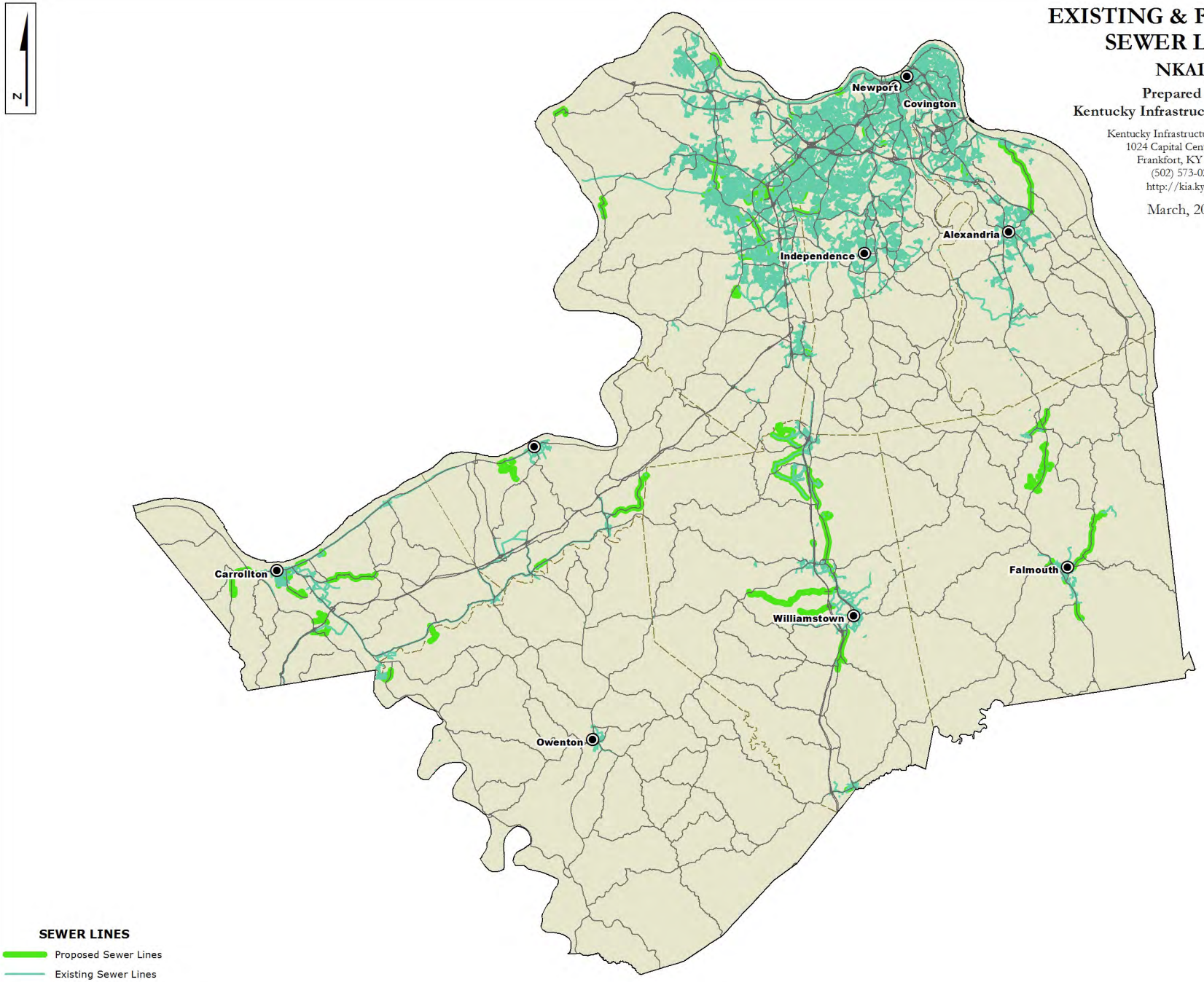
EXISTING & PROPOSED SEWER LINES

NKADD

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March, 2013



Public Sewer Systems in the Northern Kentucky Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000015	Florence Water & Sewer Commission	Boone	27,934	12,251
KY0094072	SD1 - Rivershore Farms Subdivision	Boone	660	222
KY0093025	SD1 - Verona Commons Subdivision	Boone	87	27
KY0107239	SD1 - Western Reg Water Reclam Fac	Boone	55,422	20,684
KY0039756	Walton Wastewater System	Boone	3,898	1,540
KY0105031	SD1 - Eastern Regional STP	Campbell	11,899	4,495
KY0092843	Yung Farm Estates Subdivision	Campbell	49	20
KY0104931	Carrollton Utilities	Carroll	8,578	3,843
KY0028118	Warsaw Wastewater System	Gallatin	2,082	987
KY0098027	Corinth Sewer Department	Grant	407	176
KYP000041	Dry Ridge Sewer Department	Grant	2,075	830
KY0091634	Grant County Sanitary Sewer District	Grant	5,266	1,988
KY0109991	Williamstown Regional WRF	Grant	3,233	1,207
KY0075833	Bel Aire Subdivision	Kenton	102	36
KY0021466	SD1 - Dry Creek	Kenton	228,583	99,565
KY0028312	Kentucky-American Water Company - Northern Division	Owen	1,401	700
KY0021041	Butler Water & Sewer Department	Pendleton	741	340
KY0106267	Falmouth STP (New)	Pendleton	2,682	1,227
		Totals:	355,099	150,138

Northern Kentucky Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Extend Services to Unserved Areas**
Secondary Need: **Combined Sewer Overflow Correction**

Discussion of Area Development District Needs:

The Northern Kentucky Area Development District is one of fifteen regional planning agencies created by the Kentucky General Assembly to provide a mechanism for cooperative planning and development between the various local governments within the region. The Northern Kentucky Area Development District region is comprised of Boone, Campbell, Carroll, Gallatin, Grant, Kenton, Owen and Pendleton Counties. Development patterns in the region range from highly developed urbanized areas to rural farmland with sparse development. The entire eight-county region had a population of 438,647 people according to the 2010 Census. The regional population is projected to increase to over 565,200 people (221,400 households) by 2030. Boone, Grant and Gallatin counties are expected to experience the greatest growth over the next 25 years.

Public wastewater systems serve approximately 74% of the regional population, with the remainder being served by private on-site systems. Campbell and Kenton counties have the highest percentage of residents on public sewers at 85% and 90%, respectively; while in Gallatin, Grant and Owen counties less than one-third to one-fifth of all people have access to public sewers.

The rate of population growth will increase the need for public sewer capacity and availability. Plans are currently underway to accommodate the demands of the projected growth both locally and regionally.

A majority of systems in the eight counties are looking to the future with plans to expand to serve the growing population through a regional approach. Sanitation District #1 (SD1) was formed in 1995 when most municipal jurisdictions in Campbell and Kenton counties merged into a regional system. The District has built two new wastewater treatment plants, one in Boone County, to expand service and protect public health in the fastest growing county in the region and one in Campbell County to replace several smaller treatment facilities that have exceeded capacity.

Carrollton Utilities operates a regional network that is responsible for the systems in the neighboring cities of Campbellsburg, Glencoe, Prestonville, Sanders, Sparta, Ghent and Worthville.

In Grant County, the Grant County Sanitary Sewer District serves the City of Crittenden and northern part of the county. The City of Corinth operates a system in the southern part of the county. There is an interconnect between the cities of Williamstown, which operates the plant, and Dry Ridge. Officials in Pendleton County are also considering a similar regional system.

Description and Determination of Planning Units:

The NKADD Water Management Council reviewed the wastewater systems and their service areas located within the Northern Kentucky Area Development District. The Council designated the Northern Kentucky Area Development District boundary as the regional management area. Within NKADD, the following water systems and their respective water management planning areas were designated by the Council:

<u>BOONE COUNTY</u>
Boone County is the fastest growing county in Northern Kentucky, and was the third fastest growing county in the state between 2000 and 2010, during which time its population increased by 38.2 percent. This growth is expected to continue. With such rapid growth, planning for future infrastructure is essential. There are three publicly-owned wastewater systems in Boone County and 16 PTPs. The cities of Florence and Walton operate municipal wastewater systems and the SD1 provides sewer service to a small portion of the County as well as Campbell and Kenton counties. SD1 has constructed the new 20MGD Western Regional Reclamation Facility. Currently 65% of the population relies on public sewers.

CAMPBELL COUNTY

Campbell County is served by one public utility and 31 PTPs. The SD1 is responsible for the management of wastewater and stormwater in Campbell and Kenton counties as well as portions of Boone County. Campbell County is served by the Eastern Regional STP. Overall the district serves over 325,000 people, approximately 80% of the total population of the three counties.

CARROLL COUNTY

Carroll County is located on the Ohio River, approximately halfway between Cincinnati and Louisville. The County is not expected to see considerable growth in the near future. The topography of the County is rugged and much of the terrain is unsuitable for development. The County is served by one public utility and 2 PTPs. Carrolton Utilities serves the cities of Carrollton, Campbellsburg, Ghent, Prestonville, Worthville, and Sanders.

GALLATIN COUNTY

Gallatin County is the smallest county in Kentucky by area but it was the 3rd fastest growing county in the state from 1990 to 2000 when its population increased by nearly 46 percent but only grew by 9.1 percent between 2000 and 2010. Gallatin County has good transportation access via Interstate 71, which connects Louisville and Cincinnati, Ohio; and KY-1039, which connects Kentucky and Indiana, utilizing the Markland Dam to cross the Ohio River southwest of Warsaw. There are 2 public systems and 2 PTPs in Gallatin County. The city of Warsaw operates a municipal wastewater systems and Carrollton Utilities serves Sparta and Glencoe.

GRANT COUNTY

Grant County was the 22nd fastest growing county in the state between 2000 and 2010. That growth rate is expected to continue. The Interstate 75 / US-25 corridor provides convenient transportation and access for future development. Grant County is served by 3 public systems and 10 PTPs. The Grant County Sanitary Sewer District serves the city of Crittenden. The city of Williamstown operates a municipal system and treats the city of Dry Ridge as well. The city of Corinth operates a municipal system.

KENTON COUNTY

Kenton County is the third most populous county in the state. Ninety percent of the population has access to public sanitary sewers. Public sewer service is provided to most of these residents by SD1. The City of Walton, which sits on the border of southern Boone and Kenton Counties, provides service within its city limits. The Grant County Sanitary Sewer District may extend service into a small portion of southern Kenton County in the future. Additionally, there are 10 PTPs in the county.

OWEN COUNTY

Owen County is more sparsely populated than many other surrounding counties. The total population of 10,841 as of the 2010 Census was dispersed throughout the 352 square mile area the County encompasses resulting in an average population density of 30 persons per square mile. Because of the wide population distribution, only 20% of residents have access to public sewers. In addition to service from the city of Owenton, Carrollton Utilities is planning to extend sewer service into northern Owen County to serve communities along Eagle Creek. Additionally, there are 4 PTPs in the county.

PENDLETON COUNTY

Pendleton County has seen moderate growth over the past decade. The terrain is made up of rolling hills and fertile river valleys. The County is bordered by the Ohio River, which flows for 3.5 miles along its northeast border. The Licking River meanders through the County. The South Fork and main branch meet in Falmouth and flow north past Butler, into Campbell County toward the Ohio River. The county is served by 2 public systems and 9 PTPs. The cities of Butler and Falmouth operate municipal systems.

Northern Kentucky Area Development District
Project Ranking Methodology

The Water Management Council created a subcommittee to develop a ranking methodology for NKADD. This was based on the methodology created by KIA along with modifications instituted by other ADDs. A point system was developed that looked at several aspects of the projects based on the following criteria:

- Consolidation or regionalization of systems
- Local rankings
- Number of unserved/underserved customers affected
- Cost per household
- Amount of planning and development work completed
- Capacity to provide wastewater service (for waterline extensions)
- Local funding

A meeting is held with each Planning Unit to rank their projects. The projects are scored using a matrix developed from the established criteria. At the Water Management Council meeting, these scores are used the rank the projects for the whole ADD. NKADD uses a tiered system so that each Planning Units number one project is in the top 8: the highest number one project is first, the second highest number one project is second, the third highest number one project is third … until all of the projects ranked by the Planning Units are ranked for the whole ADD.

Project Rankings For Northern Kentucky Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21041003	CU - The 3444 Sanitary Sewer Project	0-2 Years	Not Funded	$2,120,926	Carroll	1	1
SX21081001	City of Dry Ridge - US-25 Sewer System Expansion	0-2 Years	Not Funded	$1,640,000	Grant	2	1
SX21015005	Sand Run Rehab Project	0-2 Years	Unknown	$0	Boone	3	1
SX21187101	Carrollton Utilities - Obie Cook Road Sanitary Sewer Project	0-2 Years	Not Funded	$337,804	Owen	4	1
SX21117001	SD1 - Highland Pike Sewer Replacement	0-2 Years	Partially Funded	$3,517,790	Kenton	5	1
SX21077001	Willow Pointe Lift Station and Force Main	0-2 Years	Not Funded	$1,300,000	Gallatin	6	1
SX21191007	City of Butler Sewer System Rehabilitation Project	0-2 Years	Not Funded	$560,000	Pendleton	7	1
SX21015006	Greenview Lift Station Replacement	0-2 Years	Not Funded	$825,000	Boone	8	2
SX21041002	Carrollton Utilities - 2011 Carroll County Sewer Project	0-2 Years	Not Funded	$2,622,435	Carroll	9	2
SX21081503	City of Dry Ridge - 2008 Sewer Line Extension	3-5 Years	Not Funded	$874,000	Grant	10	2
SX21191102	Oak Haven Pump Station and Force Main	0-2 Years	Partially Funded	$701,385	Pendleton	11	2
SX21015301	Boone County - Twin Lakes Sanitary Sewer Project	0-2 Years	Not Funded	$2,093,280	Boone	12	3
			Total Cost:	**$16,592,620**			

Boone County

- 2010 census population of 118,811 (46,154 households) with 86% serviceable.
- Projected 2020 population of 153,933 (change of 35,122).
- Boone County has 590.61 miles of existing sewer lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- 3.00 miles of line rehabilitation proposed in the next 10 years.
- 2.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $7,229,050.
- There are no projects planned from 6 to 10 years.



Boone County has a 2010 census population count of 118,811 (46,154 households) with a projected 2020 population count of 153,933 (59,951 households). Public sewer is currently available to approximately 86 percent of the county's households based on 2010 census counts. Over the next ten years approximately 247 serviceable households will be added through the construction of 1.00 miles of sewer line extensions and approximately 2,485 instances of improved service through the rehabilitation of 3.00 miles of existing sewer lines and other appurtenances. 2.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Boone County Fiscal Court	2	$4,182,280	145	76	-	1.00	2.00
City of Union	3	$1,909,750	102	109	1.00	1.00	-
Sanitation District #1 of Northern Kentucky	1	$1,137,020	-	2,300	-	1.00	-
Totals:	**6**	**$7,229,050**	**247**	**2,485**	**1.00**	**3.00**	**2.00**

Public Wastewater Systems in Boone County

Note: Serviceability counts are for households within Boone county only.

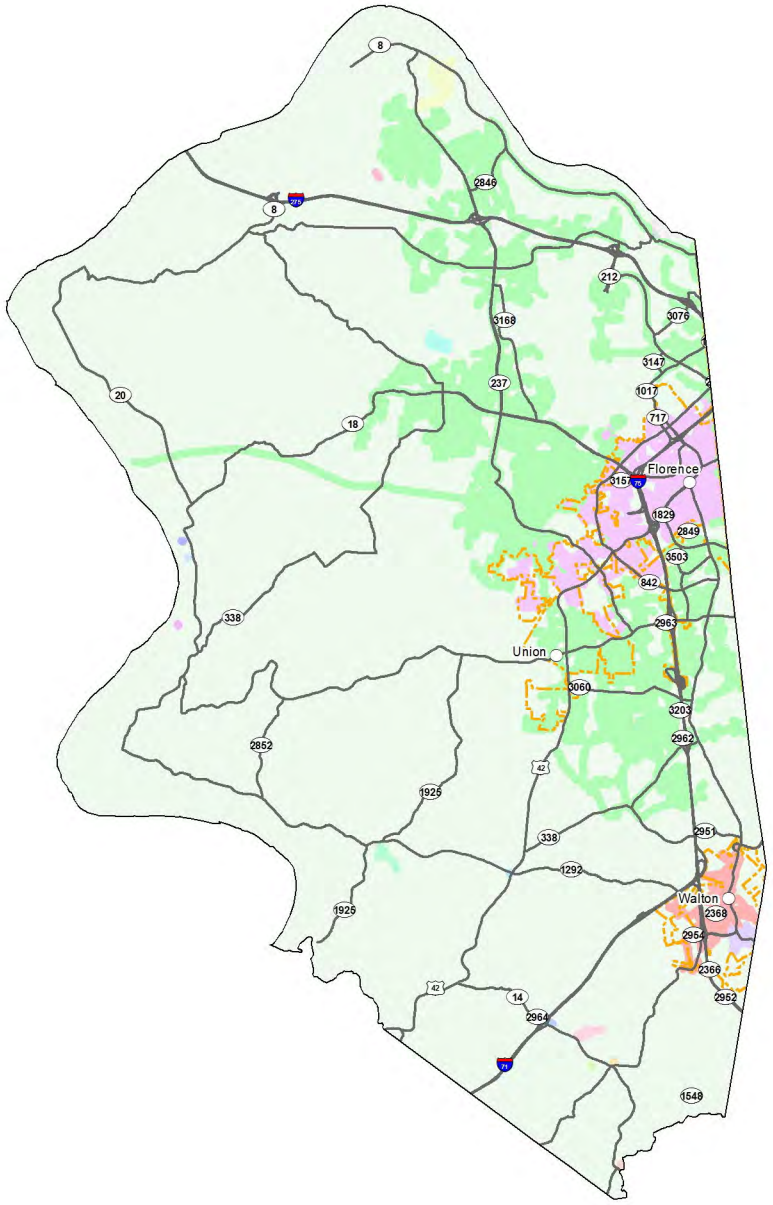
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000015	Florence Water & Sewer Commission	Boone	26,984	11,850
KY0094072	SD1 - Rivershore Farms Subdivision	Boone	660	222
KY0093025	SD1 - Verona Commons Subdivision	Boone	87	27
KY0107239	SD1 - Western Reg Water Reclam Fac	Boone	55,422	20,684
KY0039756	Walton Wastewater System	Boone	3,774	1,489
KY0021466	SD1 - Dry Creek	Kenton	15,887	5,519
		Totals:	102,814	39,791

SEWER SERVICE AREAS
BOONE COUNTY
Kentucky

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March, 2013



SEWER SERVICE BY OWNER

- ARLINGHAUS PROPERTIES
- BIG BONE LICK STATE PARK
- CHARLES H KELLY ELEMENTARY SCHOOL
- FLORENCE WATER & SEWER COMMISSION
- GRAHAM PACKAGING PLASTIC PRODS
- GRANDMAS RESTAURANT
- NEW BETHEL BAPTIST CHURCH
- RIVER RIDGE PARK INC
- SD1 - DRY CREEK
- SD1 - ETHANS GLEN SUBDIVISION
- SD1 - RIVERSHORE FARMS SUBDIVISION
- SD1 - VERONA COMMONS SUBDIVISION
- SEVEN HILLS ROD & GUN CLUB
- TRADITIONS GOLF CLUB
- US BANK
- VERONA CHEVRON FOODMART
- WALTON INDUSTRIAL PARK STP
- WALTON VERONA ELEMENTARY SCHOOL
- WALTON WASTEWATER SYSTEM

System Summary for Florence Water & Sewer Commission

Permit ID	KYP000015	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	10,230
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	12	Total KISOP Sent (MG)	950.000
Cost Per 4000 Gallons	$3.63	Total KISOP Treated (MG)	-
Residential Customers	8,976	Total Treated (MG)	-
Commercial Customers	724	Number of Manholes	3534
Institutional Customers	27	Number of Lift Stations	5
Industrial Customers	3	Percent Lines 20 yrs or Older	70%
KISOP Customers	-	Has Facility Plan	Yes, 95% Constructed
Total Collection System Line Length = 110.86 miles (Collection: 103.79 miles, Interceptors: 7.07 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Florence Water & Sewer Commission

System Summary for SD1 - Ethans Glen Subdivision

Permit ID	KY0050466	Treats Wastewater	Yes, 0.01 MGD with 0.01 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 1.95 miles (Collection: 1.95 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for SD1 - Ethans Glen Subdivision

System Summary for SD1 - Rivershore Farms Subdivision

Permit ID	KY0094072	Treats Wastewater	Yes, 0.06 MGD with 0.01 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	5.100
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 4.18 miles (Collection: 4.18 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for SD1 - Rivershore Farms Subdivision

System Summary for SD1 - Verona Commons Subdivision

Permit ID	KY0093025	Treats Wastewater	Yes, 0.03 MGD with 0.01 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	350
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	350	Total Treated (MG)	7.700
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 1.06 miles (Collection: 1.06 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for SD1 - Verona Commons Subdivision

System Summary for SD1 - Western Reg Water Reclam Fac

Permit ID	KY0107239	Treats Wastewater	Yes, 20 MGD with 8 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	37
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 308.48 miles (Collection: 290.36 miles, Interceptors: 18.12 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for SD1 - Western Reg Water Reclam Fac

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21117004	New Buffington Sewer Improvements	0-2 Years	Not Funded	$845,291	Kenton		

System Summary for Walton Wastewater System

Permit ID	KY0039756	Treats Wastewater	Yes, 0.85 MGD with 0.22 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,176
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$16.54	Total KISOP Treated (MG)	-
Residential Customers	1,080	Total Treated (MG)	76.700
Commercial Customers	180	Number of Manholes	708
Institutional Customers	3	Number of Lift Stations	12
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed
Total Collection System Line Length = 33.59 miles (Collection: 33.59 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Walton Wastewater System

Campbell County

- 2010 census population of 90,336 (39,523 households) with 88% serviceable.
- Projected 2020 population of 91,642 (change of 1,306).
- Campbell County has 430.50 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- There are no projects planned from 0 to 5 years.
- There are no projects planned from 6 to 10 years.



Campbell County has a 2010 census population count of 90,336 (39,523 households) with a projected 2020 population count of 91,642 (37,713 households). Public sewer is currently available to approximately 88 percent of the county's households based on 2010 census counts. There are no projects proposed for this county over the next 10 years.

Public Wastewater Systems in Campbell County

Note: Serviceability counts are for households within Campbell county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0105031	SD1 - Eastern Regional STP	Campbell	11,899	4,495
KY0092843	Yung Farm Estates Subdivision	Campbell	49	20
KY0021466	SD1 - Dry Creek	Kenton	65,662	30,061
		Totals:	77,610	34,576

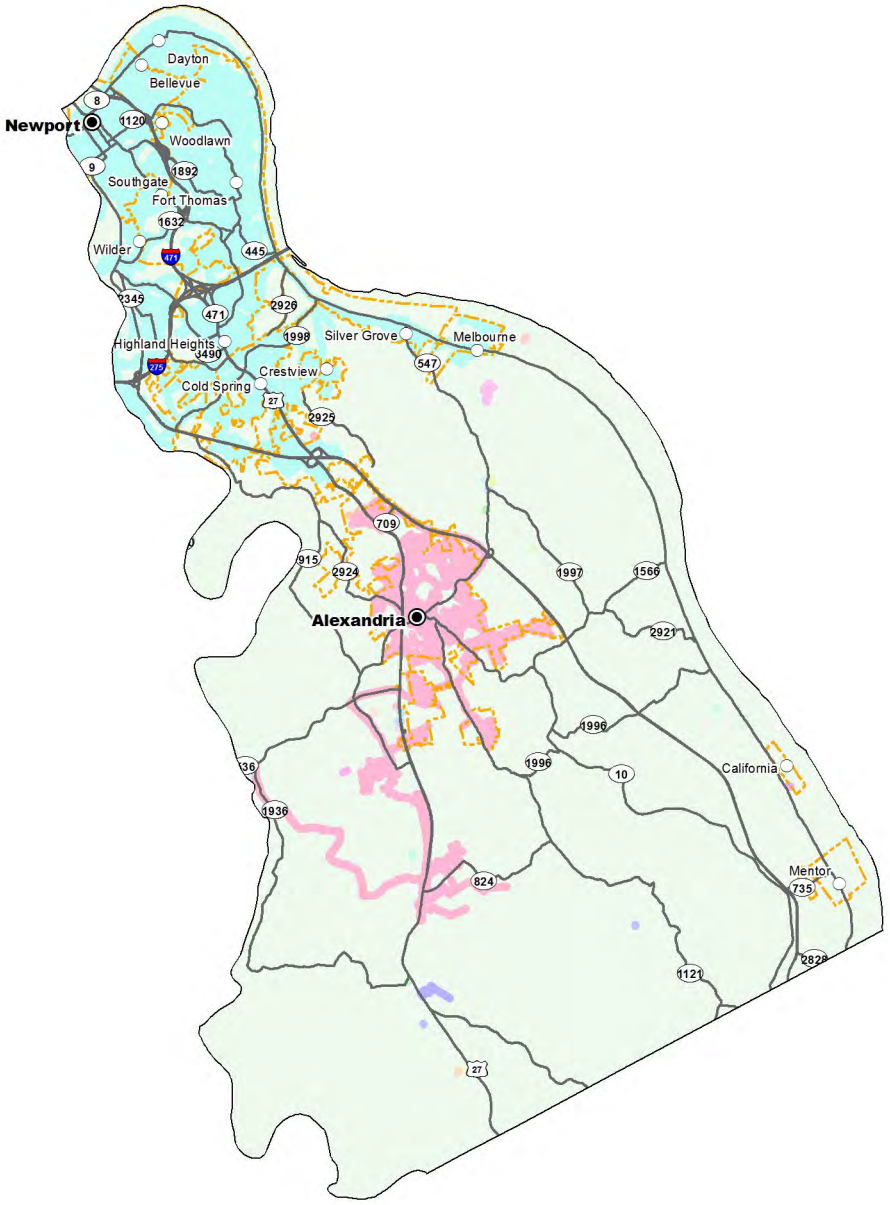
SEWER SERVICE AREAS
CAMPBELL COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
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March, 2013

Water Resource Information System



N

SEWER SERVICE BY OWNER

- AJ JOLLY SCHOOL
- CAMP SPRINGS TAVERN
- CAMPBELL COUNTY MHP
- CAMPBELL RIDGE APARTMENTS
- CEDAR LANE APARTMENTS
- DARLINGTON CREEK HOA SUBD
- DIETZ FISHING LAKE
- FLAGG SPRINGS GOLF COURSE
- GRANTS LICK MARKET
- GREYSTONE ACRES SUBDIVISION
- HICKORYSTICKS GOLF CLUB
- HIGDONS MOBILE HOME VILLAGE
- HOLLY HILL CHILDRENS HOME
- KNIGHTS OF COLUMBUS COUNCIL
- MELISSA ANN APARTMENTS
- NORTHERN KENTUCKY SADDLE CLUB
- PRESTRESS SERVICE OF MELBOURNE
- REITMAN AUTO PARTS INC
- ROYAL OAK SUBDIVISION
- SAINT JOSEPH CHURCH & SCHOOL
- SAINT PETER & PAUL ELEMENTARY SCHOOL
- SAND TRAP BAR & LOUNGE
- SD1 - DRY CREEK
- SD1 - EASTERN REGIONAL STP
- SOUTH HILLS SUBDIVISION
- SPANGLER APARTMENTS
- SUMMIT CHURCH OF CHRIST
- THOMER EXCAVATING INC
- WILLIAMS CABINET COMPANY
- YUNG FARM ESTATES SUBDIVISION

System Summary for Beacon Hill Estates

Permit ID	KY0104655	Treats Wastewater	Yes, 0.0096 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Beacon Hill Estates

System Summary for Darlington Creek Hoa Subd

Permit ID	KY0105325	Treats Wastewater	Yes, 0.05 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type		KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.01 miles (Collection: 0.01 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Darlington Creek Hoa Subd

System Summary for Greystone Acres Subdivision

Permit ID	KY0102130	Treats Wastewater	Yes, 0.01 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type		KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.01 miles (Collection: 0.01 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Greystone Acres Subdivision

System Summary for Ochsner WWTP

Permit ID	08080039	Treats Wastewater	No
System Type	DOW Non-Discharge (KNDOP)	Total Connections	-
Owner Type		KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Ochsner WWTP

System Summary for Royal Oak Subdivision

Permit ID	KY0094439	Treats Wastewater	Yes, 0.0096 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type		KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.03 miles (Collection: 0.03 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Royal Oak Subdivision

System Summary for Sakowicz Macht WWTP

Permit ID	05008029	Treats Wastewater	No
System Type	DOW Non-Discharge (KNDOP)	Total Connections	-
Owner Type		KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Sakowicz Macht WWTP

System Summary for SD1 - Eastern Regional STP

Permit ID	KY0105031	Treats Wastewater	Yes, 4 MGD with 3 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	12,000
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$3.95	Total KISOP Treated (MG)	-
Residential Customers	11,000	Total Treated (MG)	365.000
Commercial Customers	150	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	19
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 98.07 miles (Collection: 87.96 miles, Interceptors: 10.11 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for SD1 - Eastern Regional STP

System Summary for Yung Farm Estates Subdivision

Permit ID	KY0092843	Treats Wastewater	Yes, 0.02 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type		KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.68 miles (Collection: 0.68 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Yung Farm Estates Subdivision

Carroll County

- 2010 census population of 10,811 (4,696 households) with 65% serviceable.
- Projected 2020 population of 11,440 (change of 629).
- Carroll County has 91.86 miles of existing sewer lines.
- 9.00 miles of line extensions proposed in the next 10 years.
- 6.00 miles of line rehabilitation proposed in the next 10 years.
- 2.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,651,295.
- There are no projects planned from 6 to 10 years.



Carroll County has a 2010 census population count of 10,811 (4,696 households) with a projected 2020 population count of 11,440 (4,408 households). Public sewer is currently available to approximately 65 percent of the county's households based on 2010 census counts. Over the next ten years approximately 333 serviceable households will be added through the construction of 9.00 miles of sewer line extensions and approximately 124 instances of improved service through the rehabilitation of 6.00 miles of existing sewer lines and other appurtenances. 2.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Carroll County Fiscal Court	3	$5,905,947	329	116	8.00	6.00	2.00
Carrollton Utilities	1	$2,120,926	-	8	-	-	-
City of Carrollton	1	$286,618	3	-	1.00	-	-
Owen County Fiscal Court	1	$337,804	1	-	-	-	-
Totals:	**6**	**$8,651,295**	**333**	**124**	**9.00**	**6.00**	**2.00**

Public Wastewater Systems in Carroll County

Note: Serviceability counts are for households within Carroll county only.

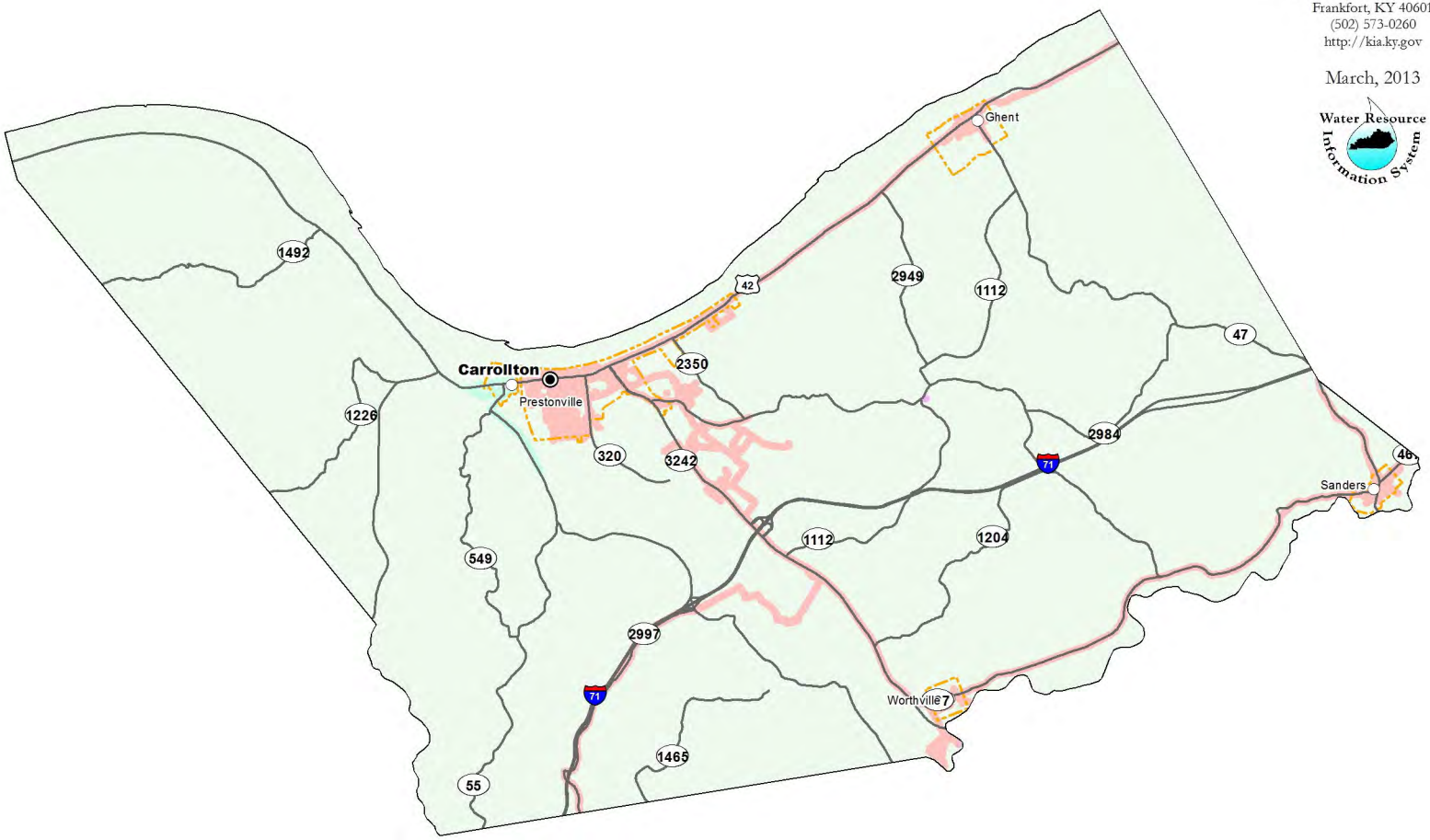
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0104931	Carrollton Utilities	Carroll	6,926	3,037
		Totals:	6,926	3,037

SEWER SERVICE AREAS
CARROLL COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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http://kia.ky.gov

March, 2013



SEWER SERVICE BY OWNER

- CARROLLTON UTILITIES
- CARROLLTON UTILITIES - PRESTONVILLE
- GREEN ACRES MHP

System Summary for Carrollton Utilities

Permit ID	KY0104931	Treats Wastewater	Yes, 3.4 MGD with 0.75 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,556
Owner Type	Incorporated City	KISOP Sender	No
Employees	30	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.93	Total KISOP Treated (MG)	-
Residential Customers	2,417	Total Treated (MG)	350.400
Commercial Customers	450	Number of Manholes	1613
Institutional Customers	49	Number of Lift Stations	52
Industrial Customers	4	Percent Lines 20 yrs or Older	0%
KISOP Customers	1	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 139.83 miles (Collection: 66.67 miles, Interceptors: 73.15 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Carrollton Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21041003	CU - The 3444 Sanitary Sewer Project	0-2 Years	Not Funded	$2,120,926	Carroll	1	1
SX21077001	Willow Pointe Lift Station and Force Main	0-2 Years	Not Funded	$1,300,000	Gallatin	6	1
SX21041002	Carrollton Utilities - 2011 Carroll County Sewer Project	0-2 Years	Not Funded	$2,622,435	Carroll	9	2
SX21103014	I-71 Exit 34 Sewer Extension	0-2 Years	Not Funded	$303,479	Henry	10	2
SX21187001	KY 355 and Eagle Creek Resort Phase 2	0-2 Years	Not Funded	$358,275	Owen		

System Summary for Carrollton Utilities - Prestonville

Permit ID	KYP000056	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	-
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$40.17	Total KISOP Treated (MG)	-
Residential Customers	66	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	40
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Carrollton Utilities - Prestonville

Gallatin County

- 2010 census population of 8,589 (3,786 households) with 32% serviceable.
- Projected 2020 population of 9,264 (change of 675).
- Gallatin County has 42.66 miles of existing sewer lines.
- 2.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 6.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,591,673.
- There are no projects planned from 6 to 10 years.



Gallatin County has a 2010 census population count of 8,589 (3,786 households) with a projected 2020 population count of 9,264 (3,592 households). Public sewer is currently available to approximately 32 percent of the county's households based on 2010 census counts. Over the next ten years approximately 92 serviceable households will be added through the construction of 2.00 miles of sewer line extensions and approximately 40 instances of improved service through system wide upgrades. 6.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Carrollton Utilities	1	$2,120,926	-	-	-	-	-
Gallatin County Fiscal Court	3	$3,470,747	92	40	2.00	-	6.00
Totals:	**4**	**$5,591,673**	**92**	**40**	**2.00**	**-**	**6.00**

Public Wastewater Systems in Gallatin County

Note: Serviceability counts are for households within Gallatin county only.

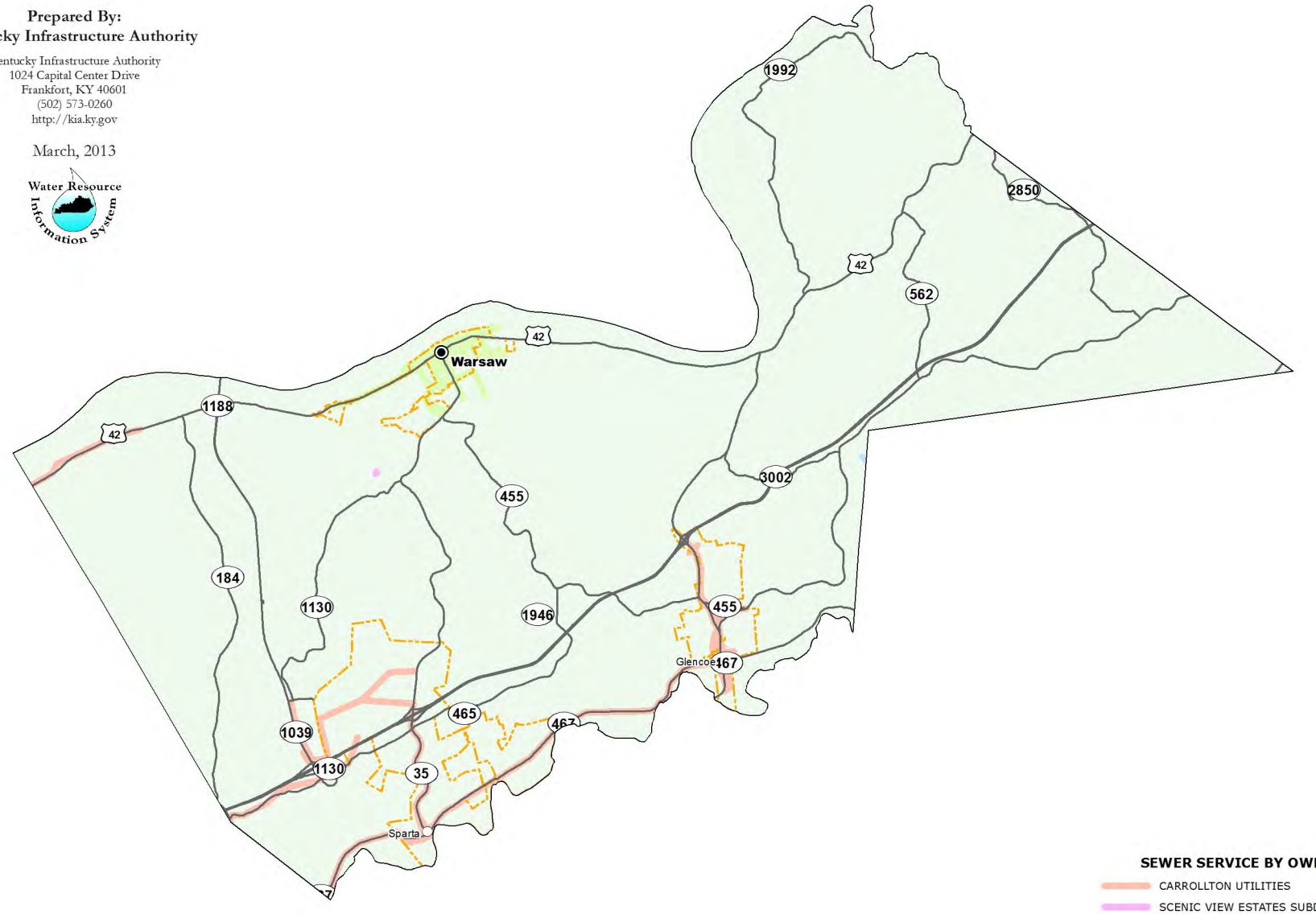
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0028118	Warsaw Wastewater System	Gallatin	2,082	987
KY0104931	Carrollton Utilities	Carroll	483	217
		Totals:	2,565	1,204

SEWER SERVICE AREAS
GALLATIN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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http://kia.ky.gov

March, 2013



SEWER SERVICE BY OWNER

- CARROLLTON UTILITIES
- SCENIC VIEW ESTATES SUBDIVISION
- WARSAW WASTEWATER SYSTEM
- WILLOW POINTE SANITATION COMPANY

System Summary for Warsaw Wastewater System

Permit ID	KY0028118	Treats Wastewater	Yes, 0.21 MGD with 0.12 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	650
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.00	Total KISOP Treated (MG)	-
Residential Customers	600	Total Treated (MG)	47.500
Commercial Customers	94	Number of Manholes	100
Institutional Customers	4	Number of Lift Stations	7
Industrial Customers	3	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 17.53 miles (Collection: 17.53 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Warsaw Wastewater System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21077110	Gallatin County - Craigs Creek Sanitary Sewer Improvements	0-2 Years	Partially Funded	$2,100,000	Gallatin		

Grant County

- 2010 census population of 24,662 (9,942 households) with 42% serviceable.
- Projected 2020 population of 26,917 (change of 2,255).
- Grant County has 102.26 miles of existing sewer lines.
- 11.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,990,470.
- There are no projects planned from 6 to 10 years.



Grant County has a 2010 census population count of 24,662 (9,942 households) with a projected 2020 population count of 26,917 (9,870 households). Public sewer is currently available to approximately 42 percent of the county's households based on 2010 census counts. Over the next ten years approximately 158 serviceable households will be added through the construction of 11.00 miles of sewer line extensions.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Corinth	1	$98,670	-	-	-	-	-
City of Dry Ridge	3	$1,447,000	1	-	-	-	-
City of Williamstown	1	$6,144,800	157	-	11.00	-	-
Gallatin County Fiscal Court	1	$1,300,000	-	-	-	-	-
Totals:	**6**	**$8,990,470**	**158**	**-**	**11.00**	**-**	**-**

Public Wastewater Systems in Grant County

Note: Serviceability counts are for households within Grant county only.

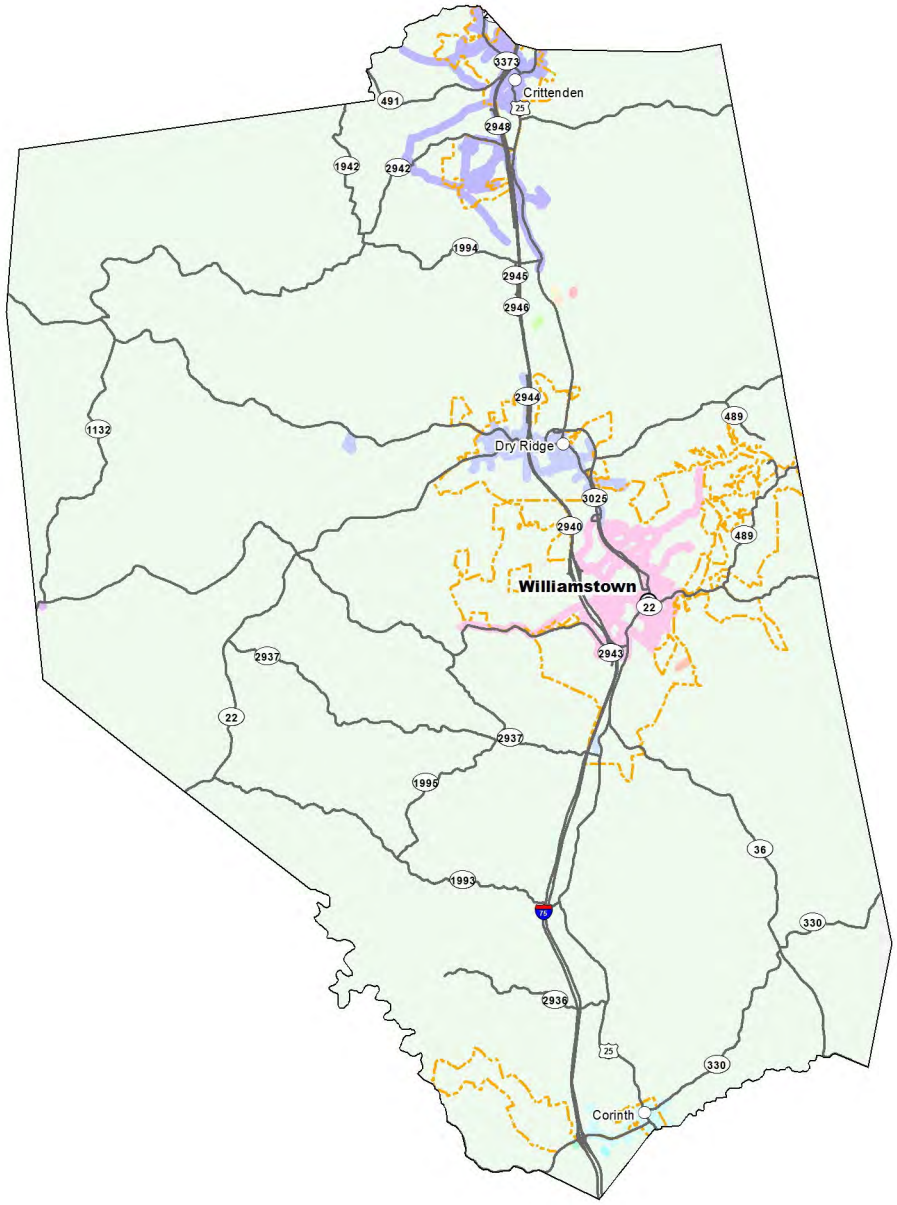
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0098027	Corinth Sewer Department	Grant	394	171
KYP000041	Dry Ridge Sewer Department	Grant	2,075	830
KY0091634	Grant County Sanitary Sewer District	Grant	5,182	1,960
KY0109991	Williamstown Regional WRF	Grant	3,233	1,207
		Totals:	10,884	4,168

SEWER SERVICE AREAS
GRANT COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



SEWER SERVICE BY OWNER

- BLACKWELL ESTATES MHP
- CORINTH MOTEL/RESTAURANT
- CORINTH SEWER DEPARTMENT
- COUNTRYSIDE ESTATES MHP
- DRY RIDGE SEWER DEPARTMENT
- GRANT COUNTY SANITARY SEWER DISTRICT
- GRANTLAND ESTATES SUBDIVISION
- JONESVILLE REST HOME
- MASON/CORINTH ELEMENTARY SCHOOL
- SAYLORS MHP
- SHERMAN ESTATES MHP
- SHERMAN MHP LLC
- VALLEY VIEW MHP
- WILLIAMSTOWN REGIONAL WRF

System Summary for Corinth Sewer Department

Permit ID	KY0098027	Treats Wastewater	Yes, 0.03 MGD with 0.01 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	118
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$39.96	Total KISOP Treated (MG)	-
Residential Customers	95	Total Treated (MG)	3.300
Commercial Customers	22	Number of Manholes	4
Institutional Customers	-	Number of Lift Stations	64
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 6.80 miles (Collection: 6.80 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Corinth Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21081902	Corinth Sewer System Improvements	3-5 Years	Not Funded	$98,670	Grant		

System Summary for Dry Ridge Sewer Department

Permit ID	KYP000041	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	900
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	4	Total KISOP Sent (MG)	60.000
Cost Per 4000 Gallons	$31.96	Total KISOP Treated (MG)	-
Residential Customers	2,145	Total Treated (MG)	-
Commercial Customers	74	Number of Manholes	222
Institutional Customers	-	Number of Lift Stations	16
Industrial Customers	1	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 19.73 miles (Collection: 18.90 miles, Interceptors: 0.82 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Dry Ridge Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21081503	City of Dry Ridge - 2008 Sewer Line Extension	3-5 Years	Not Funded	$874,000	Grant	10	2
SX21081502	City of Dry Ridge - 2008 Sewer System Improvements	3-5 Years	Not Funded	$423,000	Grant		
SX21081302	Dry Ridge Sewer Pump Stations C & D Upgrades	3-5 Years	Not Funded	$150,000	Grant		

System Summary for Grant County Sanitary Sewer District

Permit ID	KY0091634	Treats Wastewater	Yes, 0.3 MGD with 0.16 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,525
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$37.56	Total KISOP Treated (MG)	-
Residential Customers	1,128	Total Treated (MG)	69.500
Commercial Customers	114	Number of Manholes	615
Institutional Customers	-	Number of Lift Stations	24
Industrial Customers	3	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 42.30 miles (Collection: 42.30 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Grant County Sanitary Sewer District

System Summary for Grantland Estates Subdivision

Permit ID	KY0074284	Treats Wastewater	Yes, 0.044 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type		KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.02 miles (Collection: 0.02 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Grantland Estates Subdivision

System Summary for Williamstown Regional WRF

Permit ID	KY0109991	Treats Wastewater	Yes, 1.5 MGD with 0.45 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	940
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	60.000
Residential Customers	885	Total Treated (MG)	219.000
Commercial Customers	41	Number of Manholes	800
Institutional Customers	6	Number of Lift Stations	14
Industrial Customers	5	Percent Lines 20 yrs or Older	75%
KISOP Customers	1	Has Facility Plan	Yes, 40% Constructed
Total Collection System Line Length = 35.33 miles (Collection: 32.47 miles, Interceptors: 2.86 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Williamstown Regional WRF

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21081301	Williamstown Collection System Expansion	3-5 Years	Not Funded	$6,144,800	Grant		

Kenton County

- 2010 census population of 159,720 (68,975 households) with 94% serviceable.
- Projected 2020 population of 168,458 (change of 8,738).
- Kenton County has 788.09 miles of existing sewer lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $5,035,246.
- There are no projects planned from 6 to 10 years.



Kenton County has a 2010 census population count of 159,720 (68,975 households) with a projected 2020 population count of 168,458 (68,111 households). Public sewer is currently available to approximately 94 percent of the county's households based on 2010 census counts. Over the next ten years approximately 35 serviceable households will be added through the construction of 1.00 miles of sewer line extensions and approximately 1,201 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Bromley	1	$672,165	35	-	1.00	-	-
Kenton County Fiscal Court	1	$845,291	-	1	-	1.00	-
Sanitation District #1 of Northern Kentucky	1	$3,517,790	-	1,200	-	-	-
Totals:	**3**	**$5,035,246**	**35**	**1,201**	**1.00**	**1.00**	**-**

Public Wastewater Systems in Kenton County

Note: Serviceability counts are for households within Kenton county only.

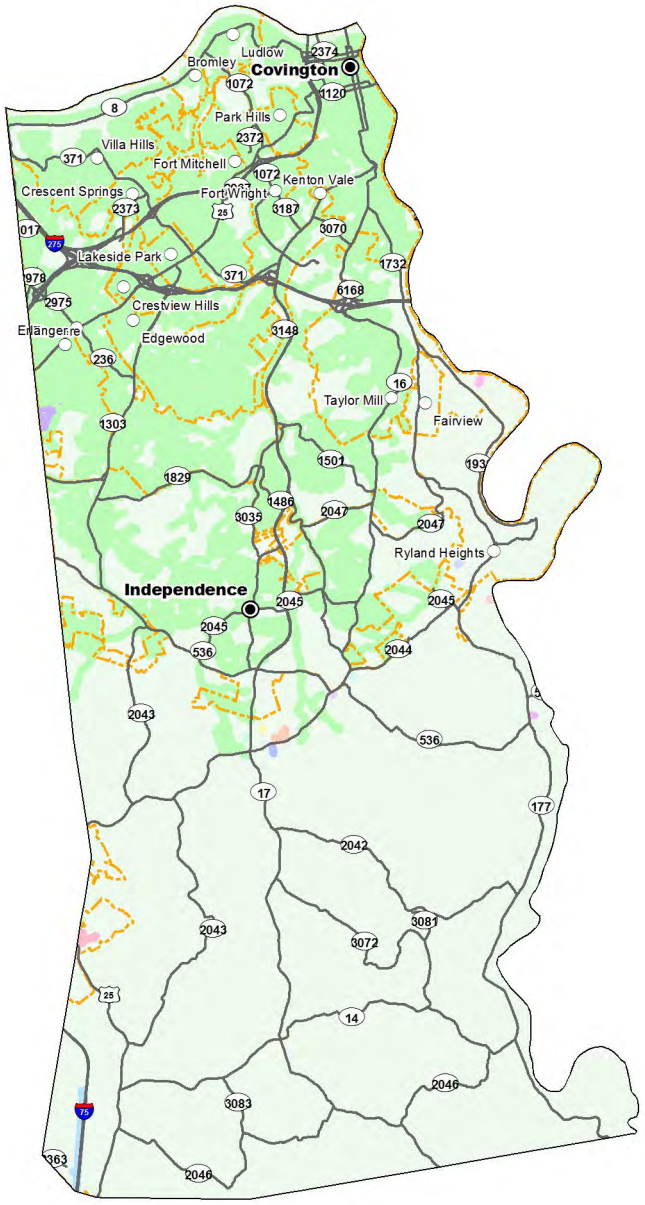
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0075833	Bel Aire Subdivision	Kenton	102	36
KY0021466	SD1 - Dry Creek	Kenton	147,034	63,985
KYP000015	Florence Water & Sewer Commission	Boone	950	401
KY0039756	Walton Wastewater System	Boone	124	51
KY0091634	Grant County Sanitary Sewer District	Grant	78	26
		Totals:	148,288	64,499

SEWER SERVICE AREAS
KENTON COUNTY
Kentucky

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Kentucky Infrastructure Authority

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March, 2013



N

SEWER SERVICE BY OWNER

- ALL CREATURES VETERINARY CLINIC
- BEL AIRE SUBDIVISION
- COLONY HOUSE APARTMENTS
- FLORENCE WATER & SEWER COMMISSION
- GRANT COUNTY SANITARY SEWER DISTRICT
- HICKORY GROVE BAPTIST CHURCH
- KENTON COUNTY BRANCH YMCA
- PINER ELEM SCHOOL
- PROGRESS RAIL SERVICES
- REGENCY MANOR INC
- RYLAND HEIGHTS ELEM SCHOOL
- RYLAND LAKES COUNTRY CLUB
- SD1 - DRY CREEK
- VISALIA ELEM SCHOOL
- WALTON INDUSTRIAL PARK STP
- WALTON WASTEWATER SYSTEM

System Summary for Bel Aire Subdivision

Permit ID	KY0075833	Treats Wastewater	Yes, 0.01 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.61 miles (Collection: 0.61 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Bel Aire Subdivision

System Summary for SD1 - Dry Creek

Permit ID	KY0021466	Treats Wastewater	Yes, 46.5 MGD with 34.91 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	231,743
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	50	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$35.78	Total KISOP Treated (MG)	950.000
Residential Customers	86,169	Total Treated (MG)	12,629.000
Commercial Customers	9,370	Number of Manholes	25000
Institutional Customers	100	Number of Lift Stations	131
Industrial Customers	210	Percent Lines 20 yrs or Older	75%
KISOP Customers	1	Has Facility Plan	Yes, 100% Constructed

Total Collection System Line Length = 1,245.19 miles (Collection: 1,184.46 miles, Interceptors: 60.74 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for SD1 - Dry Creek

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21117001	SD1 - Highland Pike Sewer Replacement	0-2 Years	Partially Funded	$3,517,790	Kenton	5	1
SX21015301	Boone County - Twin Lakes Sanitary Sewer Project	0-2 Years	Not Funded	$2,093,280	Boone	12	3
SX21015300	Boone County - Petersburg, Belleview, and McVille Drainage Improvements	0-2 Years	Not Funded	$2,089,000	Boone		
SX21015003	SD1 - Sand Run PS Influent Sewer Improvements	0-2 Years	Partially Funded	$1,137,020	Boone		
SX21015004	City of Union - Haven Manor Whispering Trails Storm Drainage Pro	3-5 Years	Not Funded	$809,750	Boone		
SX21117003	Bromley Low Pressure Force Main	0-2 Years	Not Funded	$672,165	Kenton		
SX21015518	City of Union - Whispering Trails Storm Sewer Rehab	0-2 Years	Not Funded	$600,000	Boone		
SX21015105	City of Union - Gunpowder Greens Sanitary Sewer Extension	0-2 Years	Not Funded	$500,000	Boone		

System Summary for Walton Industrial Park STP

Permit ID	KY0102164	Treats Wastewater	Yes, 0.05 MGD with 0.01 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Incorporated City	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$16.54	Total KISOP Treated (MG)	-
Residential Customers	347	Total Treated (MG)	3.700
Commercial Customers	25	Number of Manholes	0
Institutional Customers	5	Number of Lift Stations	0
Industrial Customers	6	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Walton Industrial Park STP

Owen County

- 2010 census population of 10,841 (5,634 households) with 17% serviceable.
- Projected 2020 population of 11,336 (change of 495).
- Owen County has 19.76 miles of existing sewer lines.
- 3.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,817,005.
- There are no projects planned from 6 to 10 years.



Owen County has a 2010 census population count of 10,841 (5,634 households) with a projected 2020 population count of 11,336 (4,713 households). Public sewer is currently available to approximately 17 percent of the county's households based on 2010 census counts. Over the next ten years approximately 38 serviceable households will be added through the construction of 3.00 miles of sewer line extensions.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Carrollton Utilities	1	$2,120,926	-	-	-	-	-
Owen County Fiscal Court	2	$696,079	38	-	3.00	-	-
Totals:	**3**	**$2,817,005**	**38**	**-**	**3.00**	**-**	**-**

Public Wastewater Systems in Owen County

Note: Serviceability counts are for households within Owen county only.

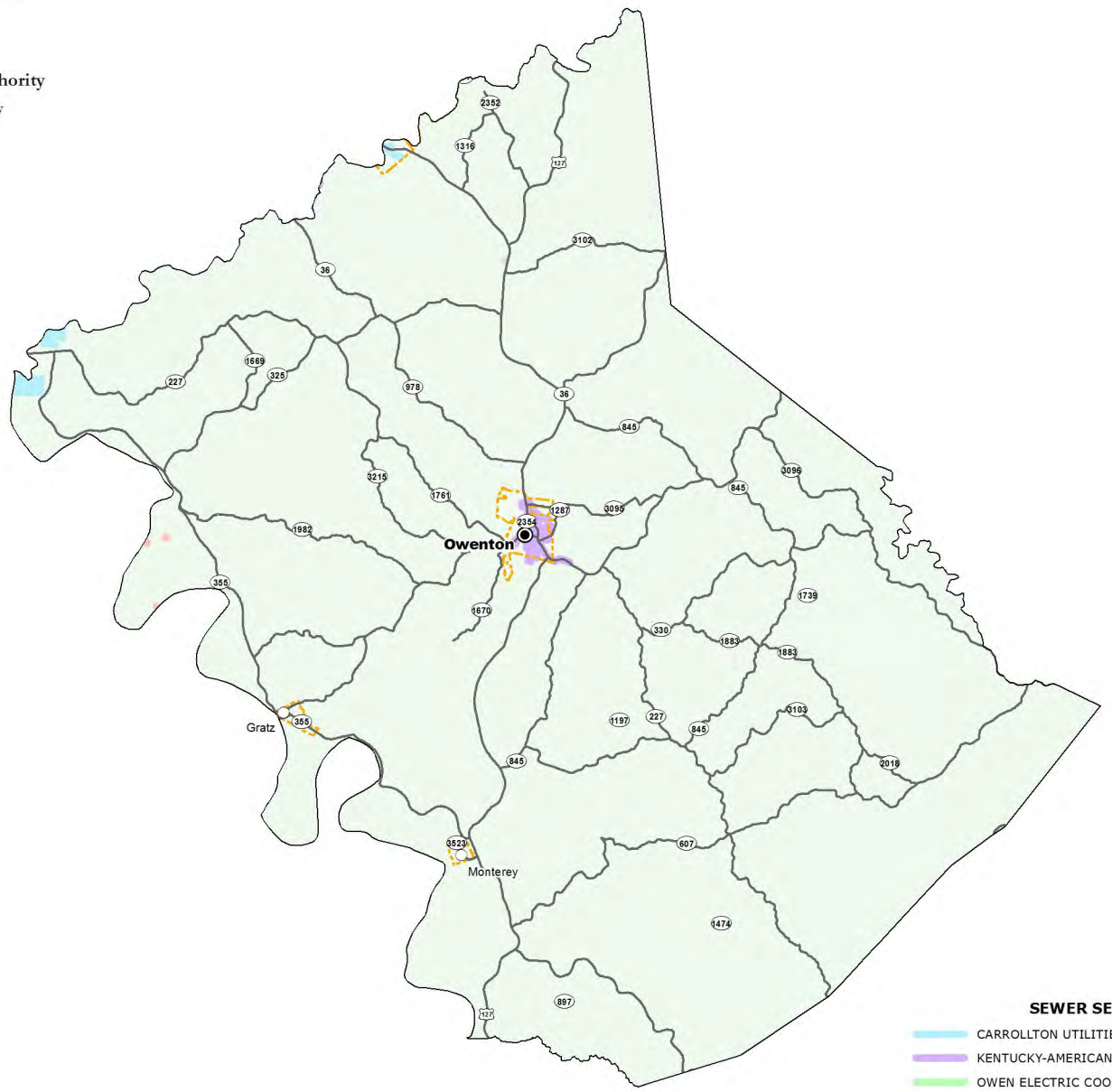
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0028312	Kentucky-American Water Company - Northern Division	Owen	1,401	700
KY0104931	Carrollton Utilities	Carroll	374	234
		Totals:	1,775	934

SEWER SERVICE AREAS
OWEN COUNTY
Kentucky

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March, 2013



System Summary for Kentucky-American Water Company - Northern Division

Permit ID	KY0028312	Treats Wastewater	Yes, 0.34 MGD with 0.27 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	594
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	1,600	Total Treated (MG)	80.300
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	13
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 12.32 miles (Collection: 8.59 miles, Interceptors: 3.73 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Kentucky-American Water Company - Northern Division

Pendleton County

- 2010 census population of 14,877 (6,339 households) with 25% serviceable.
- Projected 2020 population of 15,387 (change of 510).
- Pendleton County has 28.21 miles of existing sewer lines.
- 14.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $8,657,262.
- There are no projects planned from 6 to 10 years.



Pendleton County has a 2010 census population count of 14,877 (6,339 households) with a projected 2020 population count of 15,387 (5,987 households). Public sewer is currently available to approximately 25 percent of the county's households based on 2010 census counts. Over the next ten years approximately 579 serviceable households will be added through the construction of 14.00 miles of sewer line extensions and approximately 1,269 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Butler	2	$1,108,709	260	35	-	1.00	-
City of Falmouth	4	$2,747,529	48	1,205	1.00	-	-
Pendleton County Fiscal Court	2	$4,801,024	271	29	13.00	1.00	-
Totals:	**8**	**$8,657,262**	**579**	**1,269**	**14.00**	**2.00**	**-**

Public Wastewater Systems in Pendleton County

Note: Serviceability counts are for households within Pendleton county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021041	Butler Water & Sewer Department	Pendleton	741	340
KY0106267	Falmouth STP (New)	Pendleton	2,682	1,227
		Totals:	3,423	1,567

SEWER SERVICE AREAS
PENDLETON COUNTY
Kentucky

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March, 2013



SEWER SERVICE BY OWNER

- BOSTON HEIGHTS MHP
- BUTLER WATER & SEWER DEPARTMENT
- EAST PENDLETON COUNTY WATER & SEWER
- FALMOUTH STP (NEW)
- GRAND OAK ESTATES
- KINCAID LAKE STATE PARK
- MOUNT AUBURN APARTMENTS
- PENDLETON COUNTY COUNTRY CLUB
- PURE LIFE MINISTRIES
- UNITED KENTUCKY BANK

System Summary for Butler Water & Sewer Department

Permit ID	KY0021041	Treats Wastewater	Yes, 0.14 MGD with 0.04 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	336
Owner Type	Incorporated City	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.08	Total KISOP Treated (MG)	-
Residential Customers	317	Total Treated (MG)	14.600
Commercial Customers	12	Number of Manholes	63
Institutional Customers	2	Number of Lift Stations	6
Industrial Customers	2	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 4.65 miles (Collection: 4.57 miles, Interceptors: 0.08 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Butler Water & Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21191007	City of Butler Sewer System Rehabilitation Project	0-2 Years	Not Funded	$560,000	Pendleton	7	1
SX21191002	Sewer U.S. 27 to Sharp Middle School	0-2 Years	Not Funded	$3,241,024	Pendleton		
SX21191003	Butler WWTP Upgrade	0-2 Years	Not Funded	$548,709	Pendleton		

System Summary for East Pendleton County Water & Sewer

Permit ID	KY0075311	Treats Wastewater	Yes, 0.025 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$41.63	Total KISOP Treated (MG)	-
Residential Customers	55	Total Treated (MG)	1.460
Commercial Customers	-	Number of Manholes	47
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for East Pendleton County Water & Sewer

System Summary for Falmouth STP (New)

Permit ID	KY0106267	Treats Wastewater	Yes, 0.5 MGD with 0.3 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,150
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.00	Total KISOP Treated (MG)	-
Residential Customers	1,110	Total Treated (MG)	132.000
Commercial Customers	47	Number of Manholes	297
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	2	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 21.63 miles (Collection: 20.36 miles, Interceptors: 1.27 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Falmouth STP (New)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21191312	Kincaid State Park Lodge Sewer Main Construction Project	3-5 Years	Not Funded	$1,560,000	Pendleton		
SX21191005	Sanitary Sewer and Stormwater Improvements	0-2 Years	Not Funded	$1,151,449	Pendleton		
SX21191004	WWTP Lagoon Aerator Augmentation	0-2 Years	Not Funded	$504,715	Pendleton		
SX21191105	City of Falmouth - Sanitary Sewer Service Extensions	0-2 Years	Not Funded	$389,980	Pendleton		
SX21191006	Klee Property Sewer Line Extension	0-2 Years	Not Funded	$122,168	Pendleton		

Pennyrile Area Development District (PEADD)

- 2010 census population of 219,305 (97,910 households) with 51% serviceable.
- Projected 2020 population of 226,580 (change of 7,275).
- 1,022.90 miles of existing sewer lines.
- 32.00 miles of line extensions proposed in the next 10 years.
- 9.00 miles of line rehabilitation proposed in the next 10 years.
- 38.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $120,877,730.
- Estimated funding needs for projects from 6 to 10 years: $6,043,700.
- Average age of wastewater treatment plants is 37 years.
- Total number of interconnected systems is 7.
- 135 miles of sewer lines less than 15 years old.
- 129 miles of sewer lines between 15 and 30 years old.
- 159 miles of sewer lines between 31 and 50 years old.
- 198 miles of sewer lines between 51 and 70 years old.
- 402 miles of sewer lines greater than 70 years old.



Pennyrile Area Development District has a 2010 census population count of 219,305 (97,910 households) with a projected 2020 population count of 226,580 (89,133 households). Public sewer is currently available to approximately 51 percent of the district's households based on 2010 census counts. Over the next ten years approximately 2,155 serviceable households will be added through the construction of 32.00 miles of sewer line extensions and approximately 30,144 instances of improved service through the rehabilitation of 9.00 miles of existing sewer lines and other appurtenances. 38.00 miles of interceptor lines are also proposed within this district.

County Summary for Pennyrile Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Caldwell	12,984	6,292	12,948	5,518	3,236	51%	$ 2,470,000
Christian	73,955	29,459	77,840	28,340	19,450	66%	$ 66,122,250
Crittenden	9,315	4,569	9,156	3,775	1,565	34%	$ 808,000
Hopkins	46,920	21,180	48,007	19,684	13,785	65%	$ 13,054,380
Livingston	9,519	4,824	9,438	4,074	2,019	42%	$ 7,518,000
Lyon	8,314	4,791	8,523	3,430	1,602	33%	$ 1,984,500
Muhlenberg	31,499	13,699	31,466	12,337	5,278	39%	$ 24,100,000
Todd	12,460	5,286	12,958	4,989	1,700	32%	$ 10,864,300
Trigg	14,339	7,810	16,244	6,986	1,444	19%	-
Totals	**219,305**	**97,910**	**226,580**	**89,133**	**50,079**	**51%**	**$ 126,921,430**

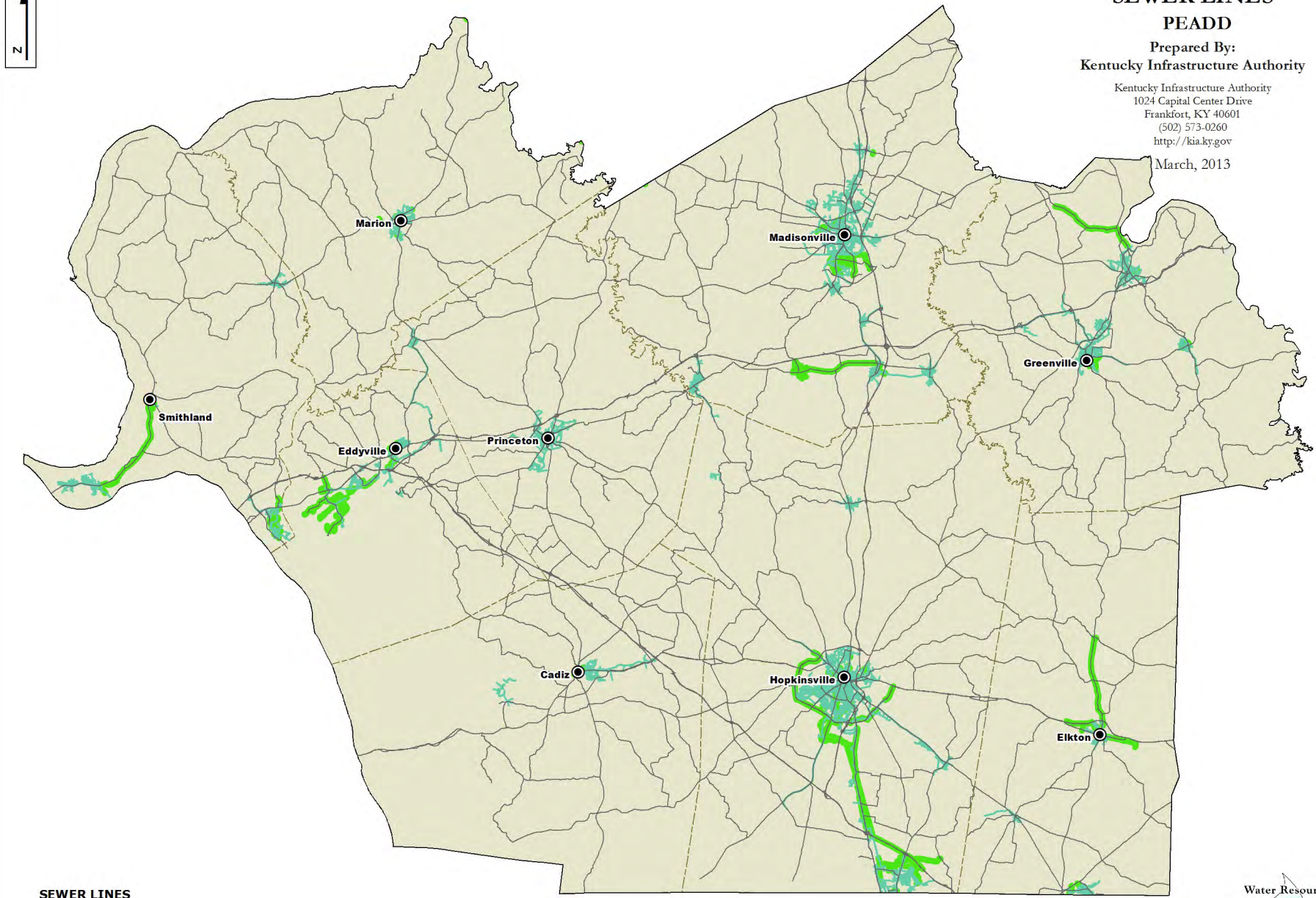
EXISTING & PROPOSED SEWER LINES

PEADD

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March, 2013



Public Sewer Systems in the Pennyrile Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000048	Fredonia Water Department	Caldwell	417	204
KY0028401	Princeton Water & Wastewater Commission	Caldwell	6,147	3,032
KY0066591	Hopkinsville Water Environment Authority - Crofton	Christian	974	476
KY0066532	Hopkinsville Water Environment Authority - Hammond Wood	Christian	34,626	15,695
KY0094056	Hopkinsville Water Environment Authority - Oak Grove	Christian	7,317	3,273
KY0020061	Marion Water Department	Crittenden	3,175	1,565
KY0023868	Dawson Springs Water & Sewer System	Hopkins	2,692	1,282
KYP000043	Earlington Water & Sewer Department	Hopkins	1,387	705
KYP000047	Hanson Water System	Hopkins	877	359
KY0098043	Madisonville Municipal Utilities	Hopkins	21,419	9,943
KYP000050	Mortons Gap Water Department	Hopkins	915	422
KY0066583	Nortonville Sewer Department	Hopkins	1,628	731
KYP000062	White Plains Sewer Department	Hopkins	796	347
KY0027227	Grand Rivers Water System	Livingston	867	602
KY0100251	Ledbetter Water District	Livingston	1,876	846
KY0066541	Salem Municipal Water System	Livingston	785	382
KY0025836	Smithland Water & Sewer System	Livingston	335	189
KY0027979	Eddyville Water Department	Lyon	2,193	897
KY0020419	Kuttawa Water Department	Lyon	897	591
KYP000079	Lyon County Water District	Lyon	123	114
KY0023540	Central City Municipal Water & Sewer System	Muhlenberg	5,786	2,248
KY0066575	Drakesboro Water & Sewer	Muhlenberg	885	406
KY0020010	Greenville Utilities Commission	Muhlenberg	5,494	2,280
KYP000064	Powderly Sewer System	Muhlenberg	716	344
KY0023442	Elkton Utilities	Todd	2,060	910
KY0063649	Guthrie Water Works	Todd	1,334	603
KY0020982	Trenton Water Works	Todd	386	187
KY0026891	Cadiz Water & Sewer Commission	Trigg	2,979	1,423
		Totals:	109,086	50,056

Pennyrile Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Repair and Replace Existing Infrastructure**
Secondary Need: **Extend Services to Unserved Areas**

Discussion of Area Development District Needs:

The Pennyrile region has lot varied needs but at this time the majority of our needs fall under the heading of repairing and replacing aging infrastructure. This category covers the replacement of individual lines, system wide rehabilitation, to replacing aging or undersized lift stations and finally the replacement of aging or undersized wastewater treatment plants. At this time the majority of the systems in the Pennyrile area are approaching or have passed the designed lifespan of their collection systems and treatment plants. Each system is unique and has different needs but overall problem is the same. Each system has some portion of its collection system that needs to be slip lined, pipe burst, or replaced in its entirety. As the cost of treatment increases it becomes more of a priority for the systems to address the portions of their systems that are allowing I & I (inflow and infiltration). The I & I that is treated by the system is unwanted water that has made it into the collection system. It cost just as much for a system to treat rain or ground water as it does to treat household waste. The addition of I & I drives up the treatment costs for the system which in turn drives up the customer rates.

The secondary need in the Pennyrile region is the extension of services to unserved areas. These projects have a twofold effect. First they provide sewer service to an unserved area which removes septic tanks and straight pipes and improved ground water quality. The second effect is that it increases the systems customer base which in turn increases system revenues. These increased revenues can be used to address system upgrades and maintenance.

Description and Determination of Planning Units:

The planning units in the Pennyrile region are based on the existing county boundaries. By keeping the planning units based on the county boundaries the systems are familiar with the political structure and the current relationship between them and their neighbors. Currently the Pennyrile region has nine planning units (Caldwell County, Christian County, Crittenden County, Hopkins County, Livingston County, Lyon County, Muhlenberg County, Todd County, and Trigg County). These planning units vary in number of systems from as little as one to as many as 8. In each of these instances the county based planning units seem to work well for the Pennyrile region. Many of the counties systems have grown interconnected and interdependent over the last several years. These relationships help foster cooperation and county/regional planning.

Pennyrile Area Development District
Project Ranking Methodology

Each year, the Water Management Council of the Pennyrile Area Development District (PADD) completes a ranking process of water and wastewater projects in the region. This is a "grassroots" process as it begins at the local (system) level and ends with all projects being ranked on a regional basis.

We begin the process with county-wide ranking meetings during which all water/wastewater systems meet with the PADD Water Management Coordinator and their respective County Judge Executive. We discuss the individual projects from each system and rank them according to the priorities within the county. These rankings are then used in the overall regional ranking process.

The PADD Water Management Council has elected to use a point system to determine the overall regional ranking of each project. Projects are ranked based on five categories; Project Type (Unserved Customers, Underserved Customers, and Aging Infrastructure), Regionalization, Level of Engineering/Project Status, Funding Status, and Local Importance. Projects may receive up 20 points in each category except for regionalization. The Water Management Council recognizes the increasing importance of regionalization and has weighted this category heavier. Overall, a project can achieve 110 points. In the instances where two project score the same numerical value the Water Council has elected to use a simple cost analysis to break the tie. The system that is serving the most people with the least amount of money receives the higher ranking (cost of the project/number of customers served).

Project Rankings For Pennyrile Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21177010	Central City - WWTP Expansion	0-2 Years	Not Funded	$7,500,000	Muhlenberg	1	1
SX21107021	Madisonville - WWTP Expansion and Improvements	3-5 Years	Partially Funded	$5,955,366	Hopkins	2	3
SX21221002	Cadiz Sewer Main Replacement	3-5 Years	Partially Funded	$900,000	Trigg	3	1
SX21139003	Smithland WWTP Improvements	3-5 Years	Partially Funded	$300,000	Livingston	4	1
SX21139006	Salem - Lift Station Upgrade	3-5 Years	Partially Funded	$618,000	Livingston	5	2
SX21219007	Trenton - Sewer System Improvements	0-2 Years	Partially Funded	$535,000	Todd	6	2
SX21143008	City of Kuttawa - Wastewater System Rehabilitation	3-5 Years	Partially Funded	$200,000	Lyon	7	1
SX21055005	Marion - WWTP Wet Weather Improvements Project	0-2 Years	Not Funded	$808,000	Crittenden	8	1
SX21107022	Madisonville - Hanson Relief Interceptor	3-5 Years	Not Funded	$5,433,001	Hopkins	9	1
SX21047009	HWEA - Oak Grove Spring Meadows Sewer	3-5 Years	Not Funded	$2,875,000	Christian	10	1
SX21033007	Princeton Sewer Rehabilitation Phase II Basins 7 & 8	3-5 Years	Partially Funded	$1,450,000	Caldwell	11	3
SX21047011	HWEA - Oak Grove Wastewater Treatment Plant Expansion - Construction	3-5 Years	Not Funded	$3,500,000	Christian	12	2
SX21139012	City of Smithland - Ledbetter Interceptor	6-10 Years	Not Funded	$3,551,000	Livingston	13	6
SX21033006	Fredonia - Lift Station Improvements	3-5 Years	Not Funded	$150,000	Caldwell	14	1
SX21107014	St. Charles Sanitary Sewer System - Construction	3-5 Years	Not Funded	$3,400,000	Hopkins	15	5
SX21033009	Princeton-Wastewater Treatment Plant Phosphorus Upgrade	3-5 Years	Not Funded	$870,000	Caldwell	16	2
SX21219021	Elkton - Sewer Plant Improvement Project	3-5 Years	Not Funded	$1,620,000	Todd	17	1
SX21047028	HWEA SRF Phase VIII - Expand Hammond-Wood WWTP & Interceptor	0-2 Years	Not Funded	$39,324,000	Christian	18	5
SX21047023	HWEA Oak Grove Village Sewer Project	0-2 Years	Not Funded	$7,500,000	Christian	19	3
SX21143009	City of Kuttawa - Old Kuttawa Pump Station and System Rehab.	3-5 Years	Not Funded	$300,000	Lyon	20	2
SX21219013	Todd County Fiscal Court - Lake Malone Sewer Study	3-5 Years	Not Funded	$100,000	Todd	21	9
SX21219014	Elkton - Sewer Collection System Rehabilitation	3-5 Years	Not Funded	$500,000	Todd	22	3
SX21139010	Smithland Sewer Rehabilitation	3-5 Years	Not Funded	$1,517,000	Livingston	23	3
SX21107009	Madisonville South Main Sewer Interceptor Phase 2	3-5 Years	Not Funded	$1,443,200	Hopkins	24	4
SX21139011	Grand Rivers - Wastewater System Rehabilitation	0-2 Years	Not Funded	$1,000,000	Livingston	25	4
SX21219012	Elkton - Hwy 181 North Sewer Main Extension	6-10 Years	Not Funded	$750,000	Todd	26	7
SX21177021	Greenville - Foxborro Sewer Extension	3-5 Years	Unknown	$0	Muhlenberg	27	2
SX21219018	Elkton - Winding Oaks Sewer Project	3-5 Years	Not Funded	$360,000	Todd	28	4
SX21047030	HWEA - Crofton Division Gordon Park Sewer Main Extension	0-2 Years	Not Funded	$104,700	Christian	29	7
SX21219011	Trenton - Wastewater Treatment Plant Expansion	3-5 Years	Not Funded	$1,500,000	Todd	30	5
SX21219009	Guthrie - WWTP Expansion	3-5 Years	Not Funded	$7,000,000	Todd	31	6
SX21047029	HWEA SRF Phase VIII - Rockbridge Interceptor	0-2 Years	Not Funded	$12,328,550	Christian	32	6
SX21139009	Grand Rivers - Sewer Line Extension	3-5 Years	Not Funded	$1,450,000	Livingston	33	5
SX21107019	Mortons Gap - Sewer Pump Replacement Project	3-5 Years	Not Funded	$220,000	Hopkins	34	2

Project Rankings For Pennyrile Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21107010	Madisonville South Main Sewer Interceptor Phase 3	6-10 Years	Not Funded	$1,742,700	Hopkins	35	7
SX21047006	HWEA Oak Grove Industrial Park Sewer Line Extension	3-5 Years	Not Funded	$490,000	Christian	36	4
SX21219019	Elkton - WWTP energy efficiency upgrade	0-2 Years	Not Funded	$82,800	Todd	37	8
			Total Cost:	**$117,378,317**			

Caldwell County

- 2010 census population of 12,984 (6,292 households) with 51% serviceable.
- Projected 2020 population of 12,948 (change of -36).
- Caldwell County has 66.49 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $2,470,000.
- There are no projects planned from 6 to 10 years.



Caldwell County has a 2010 census population count of 12,984 (6,292 households) with a projected 2020 population count of 12,948 (5,518 households). Public sewer is currently available to approximately 51 percent of the county's households based on 2010 census counts. Over the next ten years approximately 3,540 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Fredonia	1	$150,000	-	190	-	-	-
Princeton Water & Wastewater Commission	2	$2,320,000	-	3,350	-	-	-
Totals:	**3**	**$2,470,000**	-	**3,540**	-	-	-

Public Wastewater Systems in Caldwell County

Note: Serviceability counts are for households within Caldwell county only.

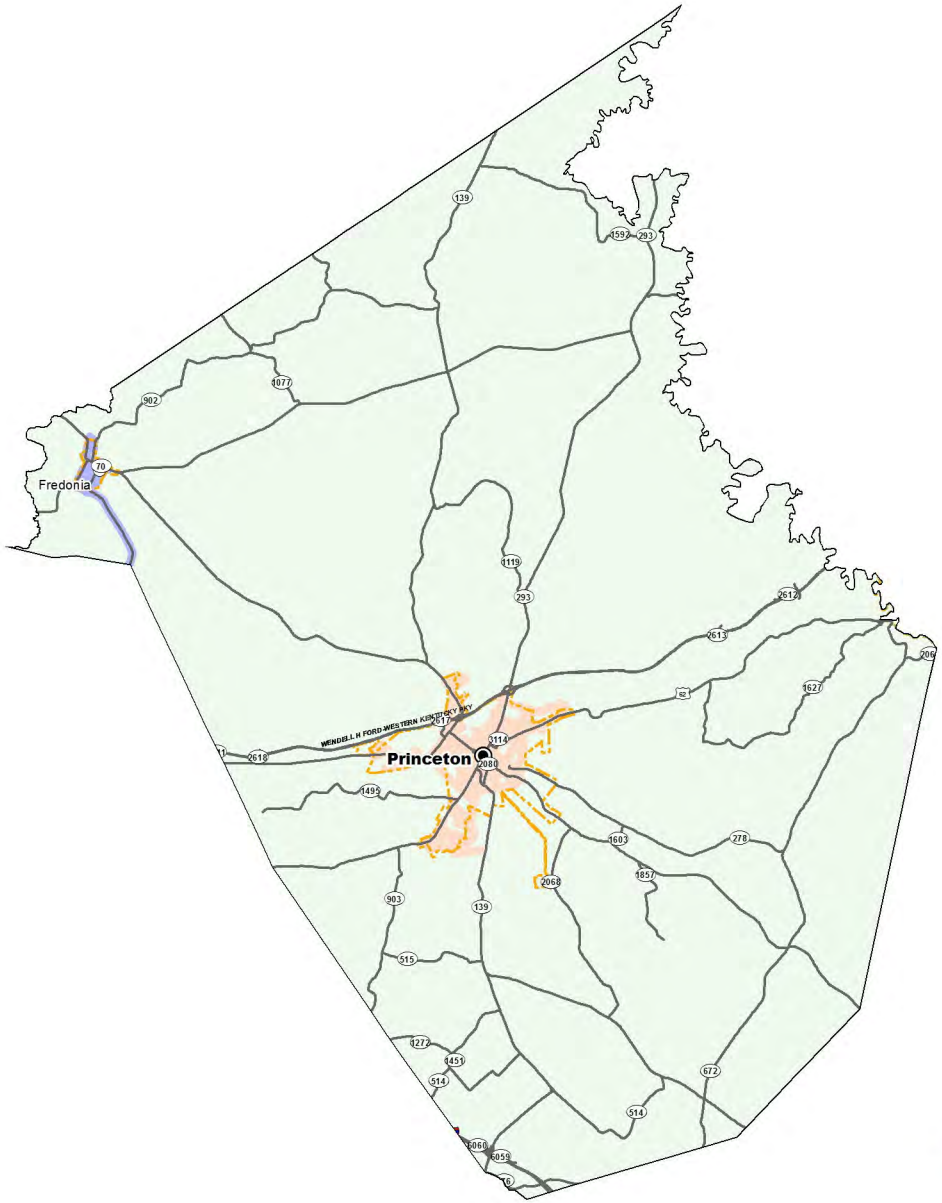
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000048	Fredonia Water Department	Caldwell	417	204
KY0028401	Princeton Water & Wastewater Commission	Caldwell	6,147	3,032
		Totals:	6,564	3,236

SEWER SERVICE AREAS
CALDWELL COUNTY
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March, 2013



System Summary for Fredonia Water Department

Permit ID	KYP000048	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	195
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	1	Total KISOP Sent (MG)	4.620
Cost Per 4000 Gallons	$42.28	Total KISOP Treated (MG)	-
Residential Customers	181	Total Treated (MG)	-
Commercial Customers	14	Number of Manholes	167
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 13.24 miles (Collection: 6.84 miles, Interceptors: 6.41 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Fredonia Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21033006	Fredonia - Lift Station Improvements	3-5 Years	Not Funded	$150,000	Caldwell	14	1

System Summary for Princeton Water & Wastewater Commission

Permit ID	KY0028401	Treats Wastewater	Yes, 1.57 MGD with 0.8 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	3,121
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$30.63	Total KISOP Treated (MG)	-
Residential Customers	2,770	Total Treated (MG)	365.298
Commercial Customers	231	Number of Manholes	853
Institutional Customers	113	Number of Lift Stations	6
Industrial Customers	6	Percent Lines 20 yrs or Older	60%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed

Total Collection System Line Length = 57.16 miles (Collection: 57.08 miles, Interceptors: 0.08 miles).

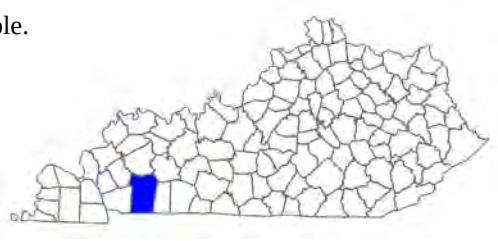
MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Princeton Water & Wastewater Commission

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21033007	Princeton Sewer Rehabilitation Phase II Basins 7 & 8	3-5 Years	Partially Funded	$1,450,000	Caldwell	11	3
SX21033009	Princeton-Wastewater Treatment Plant Phosphorus Upgrade	3-5 Years	Not Funded	$870,000	Caldwell	16	2

Christian County

- 2010 census population of 73,955 (29,459 households) with 66% serviceable.
- Projected 2020 population of 77,840 (change of 3,885).
- Christian County has 316.58 miles of existing sewer lines.
- 4.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 22.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $66,122,250.
- There are no projects planned from 6 to 10 years.



Christian County has a 2010 census population count of 73,955 (29,459 households) with a projected 2020 population count of 77,840 (28,340 households). Public sewer is currently available to approximately 66 percent of the county's households based on 2010 census counts. Over the next ten years approximately 402 serviceable households will be added through the construction of 4.00 miles of sewer line extensions and approximately 13,577 instances of improved service through system wide upgrades. 22.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Hopkinsville Water Environment Authority	7	$66,122,250	402	13,577	4.00	-	22.00
Totals:	**7**	**$66,122,250**	**402**	**13,577**	**4.00**	**-**	**22.00**

Public Wastewater Systems in Christian County

Note: Serviceability counts are for households within Christian county only.

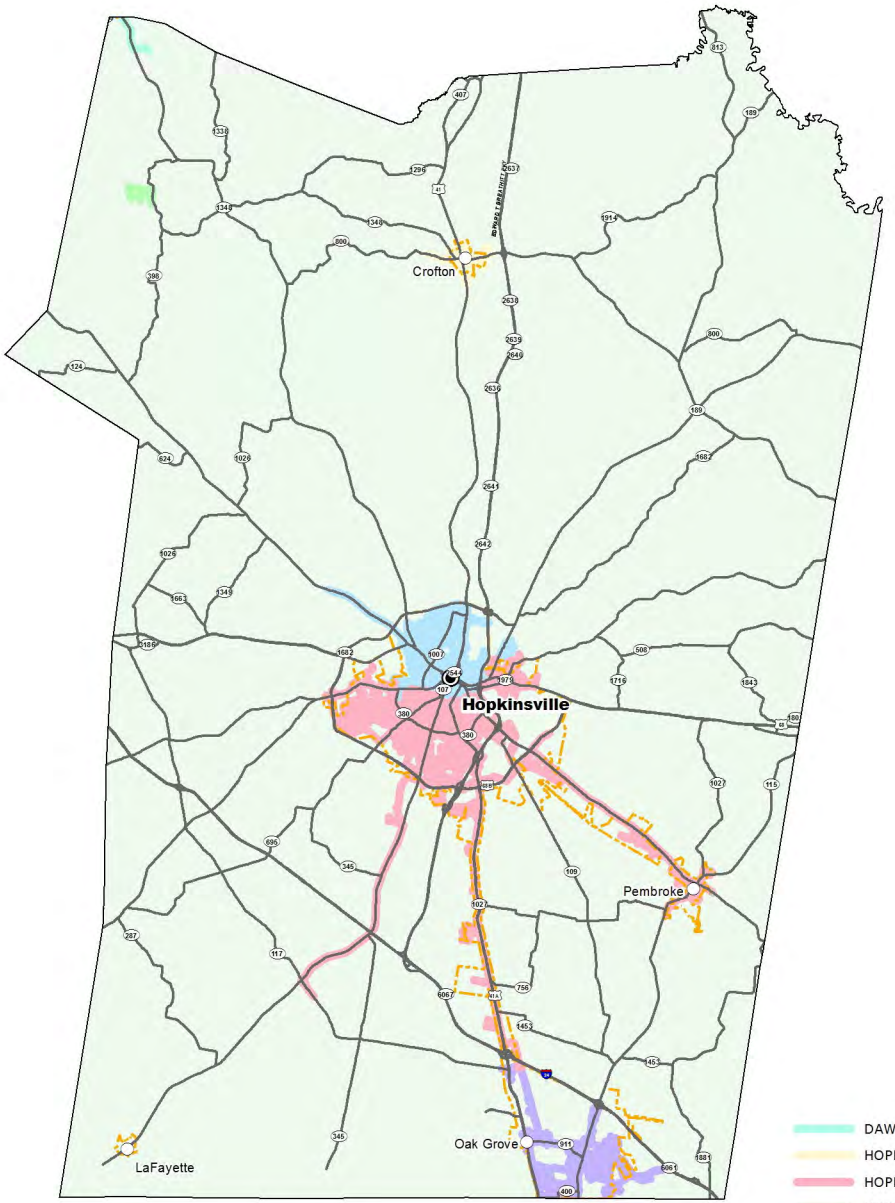
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0066591	Hopkinsville Water Environment Authority - Crofton	Christian	974	476
KY0066532	Hopkinsville Water Environment Authority - Hammond Wood	Christian	34,626	15,695
KY0094056	Hopkinsville Water Environment Authority - Oak Grove	Christian	7,317	3,273
		Totals:	42,917	19,444

SEWER SERVICE AREAS
CHRISTIAN COUNTY
Kentucky

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March, 2013



SEWER SERVICE BY OWNER

- DAWSON SPRINGS WATER & SEWER SYSTEM
- HOPKINSVILLE WATER ENVIRONMENT AUTHORITY - CROFTON
- HOPKINSVILLE WATER ENVIRONMENT AUTHORITY - HAMMOND WOOD
- HOPKINSVILLE WATER ENVIRONMENT AUTHORITY - NORTHSIDE
- HOPKINSVILLE WATER ENVIRONMENT AUTHORITY - OAK GROVE
- PENNYRILE FOREST STATE RESORT PARK

System Summary for Hopkinsville Water Environment Authority - Crofton

Permit ID	KY0066591	Treats Wastewater	Yes, 0.2 MGD with 0.04 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	361
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	65	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.35	Total KISOP Treated (MG)	-
Residential Customers	316	Total Treated (MG)	29.100
Commercial Customers	43	Number of Manholes	203
Institutional Customers	1	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 85% Constructed
Total Collection System Line Length = 10.94 miles (Collection: 10.78 miles, Interceptors: 0.17 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hopkinsville Water Environment Authority - Crofton

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21047030	HWEA - Crofton Division Gordon Park Sewer Main Extension	0-2 Years	Not Funded	$104,700	Christian	29	7

System Summary for Hopkinsville Water Environment Authority - Hammond Wood

Permit ID	KY0066532	Treats Wastewater	Yes, 6 MGD with 3.63 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	7,795
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	65	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$20.43	Total KISOP Treated (MG)	-
Residential Customers	10,816	Total Treated (MG)	1,351.440
Commercial Customers	1,631	Number of Manholes	4712
Institutional Customers	105	Number of Lift Stations	58
Industrial Customers	64	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 90% Constructed
Total Collection System Line Length = 251.74 miles (Collection: 250.68 miles, Interceptors: 1.06 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hopkinsville Water Environment Authority - Hammond Wood

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21047028	HWEA SRF Phase VIII - Expand Hammond-Wood WWTP & Interceptor	0-2 Years	Not Funded	$39,324,000	Christian	18	5
SX21047029	HWEA SRF Phase VIII - Rockbridge Interceptor	0-2 Years	Not Funded	$12,328,550	Christian	32	6

System Summary for Hopkinsville Water Environment Authority - Oak Grove

Permit ID	KY0094056	Treats Wastewater	Yes, 0.72 MGD with 0.37 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,603
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$35.02	Total KISOP Treated (MG)	-
Residential Customers	2,451	Total Treated (MG)	134.100
Commercial Customers	140	Number of Manholes	617
Institutional Customers	-	Number of Lift Stations	16
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 20% Constructed

Total Collection System Line Length = 49.86 miles (Collection: 49.01 miles, Interceptors: 0.85 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hopkinsville Water Environment Authority - Oak Grove

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21047009	HWEA - Oak Grove Spring Meadows Sewer	3-5 Years	Not Funded	$2,875,000	Christian	10	1
SX21047011	HWEA - Oak Grove Wastewater Treatment Plant Expansion - Construction	3-5 Years	Not Funded	$3,500,000	Christian	12	2
SX21047023	HWEA Oak Grove Village Sewer Project	0-2 Years	Not Funded	$7,500,000	Christian	19	3
SX21047006	HWEA Oak Grove Industrial Park Sewer Line Extension	3-5 Years	Not Funded	$490,000	Christian	36	4

Crittenden County

- 2010 census population of 9,315 (4,569 households) with 34% serviceable.
- Projected 2020 population of 9,156 (change of -159).
- Crittenden County has 32.53 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $808,000.
- There are no projects planned from 6 to 10 years.



Crittenden County has a 2010 census population count of 9,315 (4,569 households) with a projected 2020 population count of 9,156 (3,775 households). Public sewer is currently available to approximately 34 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,500 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Marion	1	$808,000	-	1,500	-	-	-
Totals:	**1**	**$808,000**	**-**	**1,500**	**-**	**-**	**-**

Public Wastewater Systems in Crittenden County

Note: Serviceability counts are for households within Crittenden county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0020061	Marion Water Department	Crittenden	3,175	1,565
		Totals:	3,175	1,565

SEWER SERVICE AREAS
CRITTENDEN COUNTY
Kentucky

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March, 2013



System Summary for Marion Water Department

Permit ID	KY0020061	Treats Wastewater	Yes, 0.66 MGD with 0.53 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,437
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$25.84	Total KISOP Treated (MG)	-
Residential Customers	1,263	Total Treated (MG)	195.550
Commercial Customers	171	Number of Manholes	200
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	3	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 95% Constructed
Total Collection System Line Length = 32.53 miles (Collection: 32.46 miles, Interceptors: 0.07 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Marion Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21055005	Marion - WWTP Wet Weather Improvements Project	0-2 Years	Not Funded	$808,000	Crittenden	8	1

Hopkins County

- 2010 census population of 46,920 (21,180 households) with 65% serviceable.
- Projected 2020 population of 48,007 (change of 1,087).
- Hopkins County has 270.96 miles of existing sewer lines.
- 12.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- 9.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $11,311,680.
- Estimated funding needs for projects from 6 to 10 years: $1,742,700.



Hopkins County has a 2010 census population count of 46,920 (21,180 households) with a projected 2020 population count of 48,007 (19,684 households). Public sewer is currently available to approximately 65 percent of the county's households based on 2010 census counts. Over the next ten years approximately 785 serviceable households will be added through the construction of 12.00 miles of sewer line extensions and approximately 973 instances of improved service through system wide upgrades. 9.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Hanson	2	$348,356	-	301	-	-	-
City of Madisonville	4	$9,086,024	635	279	7.00	-	2.00
City of Mortons Gap	1	$220,000	-	393	-	-	-
City of St Charles	1	$3,400,000	150	-	5.00	-	7.00
Totals:	**8**	**$13,054,380**	**785**	**973**	**12.00**	**-**	**9.00**

Public Wastewater Systems in Hopkins County

Note: Serviceability counts are for households within Hopkins county only.

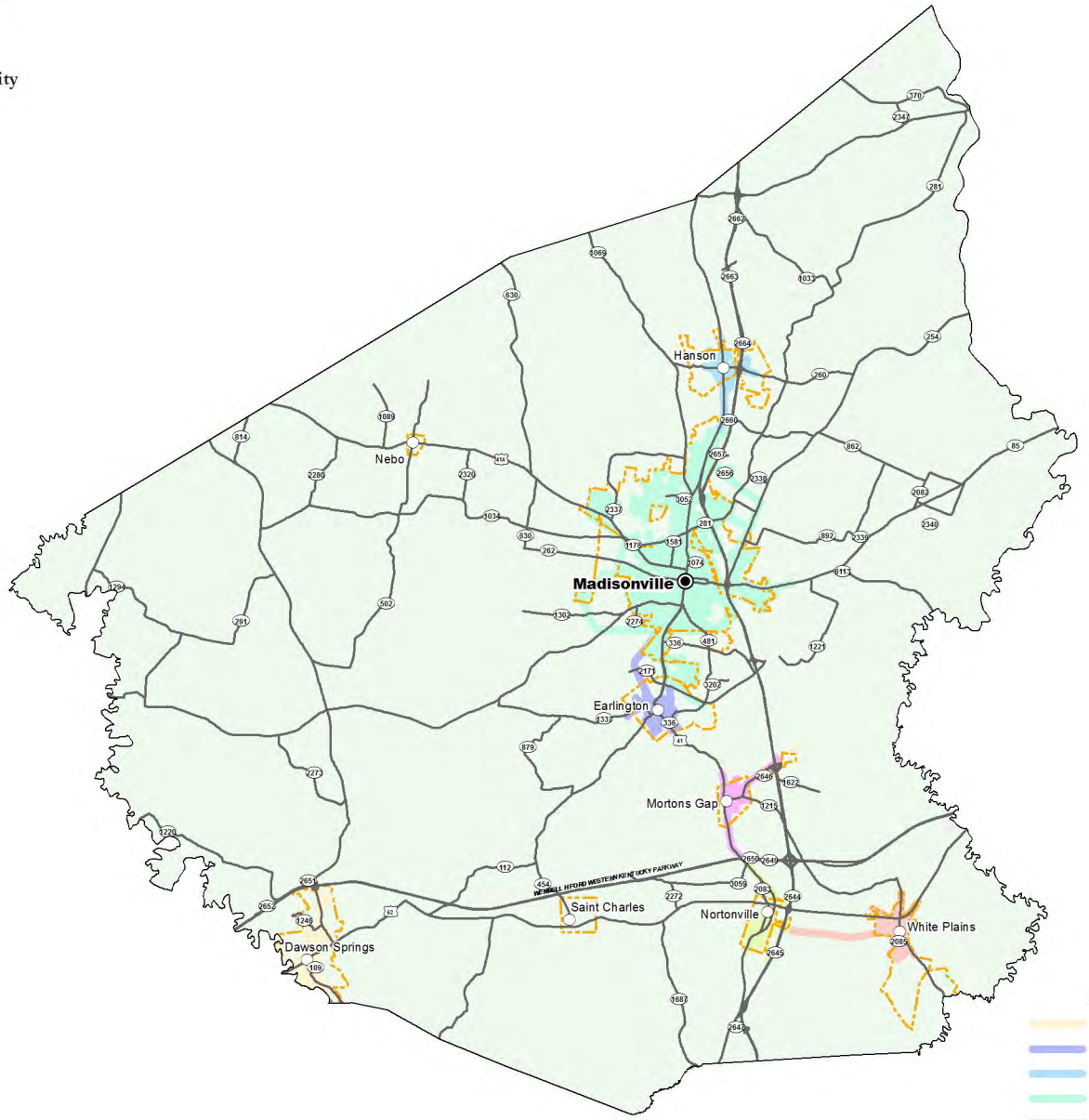
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0023868	Dawson Springs Water & Sewer System	Hopkins	2,688	1,278
KYP000043	Earlington Water & Sewer Department	Hopkins	1,387	705
KYP000047	Hanson Water System	Hopkins	877	359
KY0098043	Madisonville Municipal Utilities	Hopkins	21,419	9,943
KYP000050	Mortons Gap Water Department	Hopkins	915	422
KY0066583	Nortonville Sewer Department	Hopkins	1,628	731
KYP000062	White Plains Sewer Department	Hopkins	796	347
		Totals:	29,710	13,785

SEWER SERVICE AREAS
HOPKINS COUNTY
Kentucky

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March, 2013



System Summary for Dawson Springs Water & Sewer System

Permit ID	KY0023868	Treats Wastewater	Yes, 0.36 MGD with 0.3 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	868
Owner Type	Incorporated City	KISOP Sender	No
Employees	9	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$27.47	Total KISOP Treated (MG)	-
Residential Customers	732	Total Treated (MG)	112.900
Commercial Customers	136	Number of Manholes	250
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 10% Constructed
Total Collection System Line Length = 20.90 miles (Collection: 20.90 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Dawson Springs Water & Sewer System

System Summary for Earlington Water & Sewer Department

Permit ID	KYP000043	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	530
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	3	Total KISOP Sent (MG)	71.436
Cost Per 4000 Gallons	$43.92	Total KISOP Treated (MG)	-
Residential Customers	505	Total Treated (MG)	-
Commercial Customers	25	Number of Manholes	236
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 15.04 miles (Collection: 12.62 miles, Interceptors: 2.42 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Earlington Water & Sewer Department

System Summary for Hanson Water System

Permit ID	KYP000047	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	273
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	1	Total KISOP Sent (MG)	17.376
Cost Per 4000 Gallons	$55.08	Total KISOP Treated (MG)	-
Residential Customers	266	Total Treated (MG)	-
Commercial Customers	7	Number of Manholes	100
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 11.06 miles (Collection: 9.83 miles, Interceptors: 1.23 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hanson Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21107020	Hanson - Emergency Standby Generators	3-5 Years	Not Funded	$49,500	Hopkins		6
SX21107013	Hanson - Hopkins County Industrial Park Sewer Main	3-5 Years	Not Funded	$298,856	Hopkins		

System Summary for Madisonville Municipal Utilities

Permit ID	KY0098043	Treats Wastewater	Yes, 6 MGD with 4.8 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	9,004
Owner Type	Incorporated City	KISOP Sender	No
Employees	30	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$31.00	Total KISOP Treated (MG)	88.812
Residential Customers	7,966	Total Treated (MG)	1,600.000
Commercial Customers	1,021	Number of Manholes	2600
Institutional Customers	-	Number of Lift Stations	49
Industrial Customers	13	Percent Lines 20 yrs or Older	80%
KISOP Customers	2	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 183.22 miles (Collection: 182.80 miles, Interceptors: 0.42 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Madisonville Municipal Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21107022	Madisonville - Hanson Relief Interceptor	3-5 Years	Not Funded	$5,433,001	Hopkins	9	1
SX21107009	Madisonville South Main Sewer Interceptor Phase 2	3-5 Years	Not Funded	$1,443,200	Hopkins	24	4
SX21107010	Madisonville South Main Sewer Interceptor Phase 3	6-10 Years	Not Funded	$1,742,700	Hopkins	35	7
SX21107023	Madisonville - Sewer Extension to Hopkins County Sports Complex	3-5 Years	Partially Funded	$467,123	Hopkins		

System Summary for Mortons Gap Water Department

Permit ID	KYP000050	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	356
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	2	Total KISOP Sent (MG)	32.218
Cost Per 4000 Gallons	$40.02	Total KISOP Treated (MG)	-
Residential Customers	338	Total Treated (MG)	-
Commercial Customers	18	Number of Manholes	200
Institutional Customers	-	Number of Lift Stations	8
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 12.50 miles (Collection: 10.97 miles, Interceptors: 1.53 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mortons Gap Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21107019	Mortons Gap - Sewer Pump Replacement Project	3-5 Years	Not Funded	$220,000	Hopkins	34	2

System Summary for Nortonville Sewer Department

Permit ID	KY0066583	Treats Wastewater	Yes, 0.75 MGD with 0.29 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	570
Owner Type	Incorporated City	KISOP Sender	No
Employees	8	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$45.00	Total KISOP Treated (MG)	48.572
Residential Customers	529	Total Treated (MG)	57.099
Commercial Customers	28	Number of Manholes	235
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	2	Has Facility Plan	Yes, 10% Constructed
Total Collection System Line Length = 14.91 miles (Collection: 14.91 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Nortonville Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21107014	St. Charles Sanitary Sewer System - Construction	3-5 Years	Not Funded	$3,400,000	Hopkins	15	5

System Summary for White Plains Sewer Department

Permit ID	KYP000062	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	312
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	2	Total KISOP Sent (MG)	16.354
Cost Per 4000 Gallons	$46.95	Total KISOP Treated (MG)	-
Residential Customers	307	Total Treated (MG)	-
Commercial Customers	5	Number of Manholes	224
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 14.86 miles (Collection: 11.87 miles, Interceptors: 2.99 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for White Plains Sewer Department

Livingston County

- 2010 census population of 9,519 (4,824 households) with 42% serviceable.
- Projected 2020 population of 9,438 (change of -81).
- Livingston County has 65.63 miles of existing sewer lines.
- 7.00 miles of line extensions proposed in the next 10 years.
- 1.00 miles of line rehabilitation proposed in the next 10 years.
- 6.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $3,967,000.
- Estimated funding needs for projects from 6 to 10 years: $3,551,000.



Livingston County has a 2010 census population count of 9,519 (4,824 households) with a projected 2020 population count of 9,438 (4,074 households). Public sewer is currently available to approximately 42 percent of the county's households based on 2010 census counts. Over the next ten years approximately 231 serviceable households will be added through the construction of 7.00 miles of sewer line extensions and approximately 550 instances of improved service through the rehabilitation of 1.00 miles of existing sewer lines and other appurtenances. 6.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Grand Rivers	2	$2,450,000	61	200	4.00	1.00	-
City of Smithland	2	$5,068,000	170	350	3.00	-	6.00
Totals:	**4**	**$7,518,000**	**231**	**550**	**7.00**	**1.00**	**6.00**

Public Wastewater Systems in Livingston County

Note: Serviceability counts are for households within Livingston county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0027227	Grand Rivers Water System	Livingston	867	602
KY0100251	Ledbetter Water District	Livingston	1,876	846
KY0066541	Salem Municipal Water System	Livingston	785	382
KY0025836	Smithland Water & Sewer System	Livingston	335	189
		Totals:	3,863	2,019

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March, 2013



System Summary for Grand Rivers Water System

Permit ID	KY0027227	Treats Wastewater	Yes, 0.3 MGD with 0.28 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	737
Owner Type	Incorporated City	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$54.00	Total KISOP Treated (MG)	-
Residential Customers	644	Total Treated (MG)	63.275
Commercial Customers	93	Number of Manholes	140
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 20.25 miles (Collection: 20.23 miles, Interceptors: 0.02 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Grand Rivers Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21139011	Grand Rivers - Wastewater System Rehabilitation	0-2 Years	Not Funded	$1,000,000	Livingston	25	4
SX21139009	Grand Rivers - Sewer Line Extension	3-5 Years	Not Funded	$1,450,000	Livingston	33	5

System Summary for Ledbetter Water District

Permit ID	KY0100251	Treats Wastewater	Yes, 0.3 MGD with 0.12 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	810
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	6	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$50.95	Total KISOP Treated (MG)	-
Residential Customers	775	Total Treated (MG)	37.595
Commercial Customers	34	Number of Manholes	398
Institutional Customers	-	Number of Lift Stations	16
Industrial Customers	1	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 27.91 miles (Collection: 27.35 miles, Interceptors: 0.55 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Ledbetter Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21139012	City of Smithland - Ledbetter Interceptor	6-10 Years	Not Funded	$3,551,000	Livingston	13	6

System Summary for Salem Municipal Water System

Permit ID	KY0066541	Treats Wastewater	Yes, 0.16 MGD with 0.07 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	394
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$37.89	Total KISOP Treated (MG)	-
Residential Customers	343	Total Treated (MG)	23.219
Commercial Customers	42	Number of Manholes	55
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 11.22 miles (Collection: 10.84 miles, Interceptors: 0.37 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Salem Municipal Water System

System Summary for Smithland Water & Sewer System

Permit ID	KY0025836	Treats Wastewater	Yes, 0.07 MGD with 0.1 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	181
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$30.00	Total KISOP Treated (MG)	-
Residential Customers	132	Total Treated (MG)	16.500
Commercial Customers	49	Number of Manholes	90
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 20% Constructed
Total Collection System Line Length = 6.31 miles (Collection: 5.49 miles, Interceptors: 0.82 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Smithland Water & Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21139012	City of Smithland - Ledbetter Interceptor	6-10 Years	Not Funded	$3,551,000	Livingston	13	6
SX21139010	Smithland Sewer Rehabilitation	3-5 Years	Not Funded	$1,517,000	Livingston	23	3

Lyon County

- 2010 census population of 8,314 (4,791 households) with 33% serviceable.
- Projected 2020 population of 8,523 (change of 209).
- Lyon County has 60.53 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 6.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $1,984,500.
- There are no projects planned from 6 to 10 years.



Lyon County has a 2010 census population count of 8,314 (4,791 households) with a projected 2020 population count of 8,523 (3,430 households). Public sewer is currently available to approximately 33 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,808 instances of improved service through the rehabilitation of 6.00 miles of existing sewer lines and other appurtenances. 1.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Eddyville	1	$1,484,500	-	1,000	-	5.00	-
City of Kuttawa	2	$500,000	-	808	-	1.00	1.00
Totals:	**3**	**$1,984,500**	**-**	**1,808**	**-**	**6.00**	**1.00**

Public Wastewater Systems in Lyon County

Note: Serviceability counts are for households within Lyon county only.

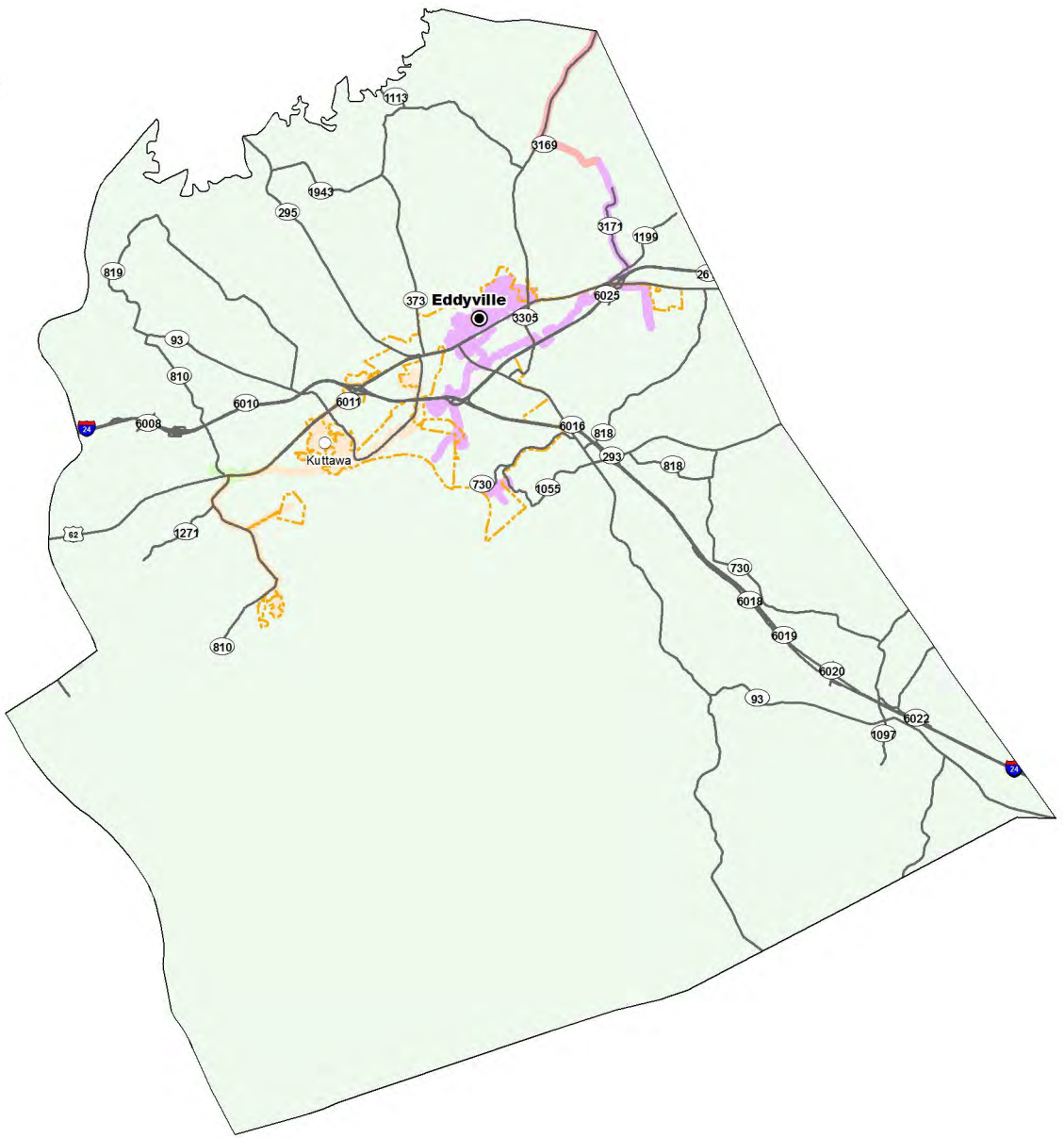
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0027979	Eddyville Water Department	Lyon	2,193	897
KY0020419	Kuttawa Water Department	Lyon	897	591
KYP000079	Lyon County Water District	Lyon	123	114
		Totals:	3,213	1,602

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March, 2013



System Summary for Eddyville Water Department

Permit ID	KY0027979	Treats Wastewater	Yes, 1 MGD with 0.29 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,016
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$32.16	Total KISOP Treated (MG)	4.620
Residential Customers	799	Total Treated (MG)	148.955
Commercial Customers	169	Number of Manholes	0
Institutional Customers	46	Number of Lift Stations	10
Industrial Customers	1	Percent Lines 20 yrs or Older	80%
KISOP Customers	1	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 31.80 miles (Collection: 27.52 miles, Interceptors: 4.28 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Eddyville Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21143007	City of Eddyville - Wastewater System Evaluation and Rehabilitation	0-2 Years	Partially Funded	$1,484,500	Lyon		

System Summary for Kuttawa Water Department

Permit ID	KY0020419	Treats Wastewater	Yes, 0.33 MGD with 0.11 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	450
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$20.21	Total KISOP Treated (MG)	1.710
Residential Customers	415	Total Treated (MG)	40.150
Commercial Customers	35	Number of Manholes	320
Institutional Customers	-	Number of Lift Stations	15
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	1	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 22.75 miles (Collection: 19.57 miles, Interceptors: 3.18 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Kuttawa Water Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21143008	City of Kuttawa - Wastewater System Rehabilitation	3-5 Years	Partially Funded	$200,000	Lyon	7	1
SX21143009	City of Kuttawa - Old Kuttawa Pump Station and System Rehab.	3-5 Years	Not Funded	$300,000	Lyon	20	2

System Summary for Lyon County Water District

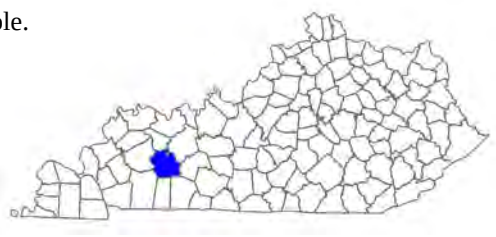
Permit ID	KYP000079	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	54
Owner Type	Water District (KRS 74)	KISOP Sender	Yes, to 1 receiver.
Employees	4	Total KISOP Sent (MG)	1.710
Cost Per 4000 Gallons	$25.60	Total KISOP Treated (MG)	-
Residential Customers	52	Total Treated (MG)	-
Commercial Customers	2	Number of Manholes	30
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 2.02 miles (Collection: 2.02 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Lyon County Water District

Muhlenberg County

- 2010 census population of 31,499 (13,699 households) with 39% serviceable.
- Projected 2020 population of 31,466 (change of -33).
- Muhlenberg County has 129.10 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $24,100,000.
- There are no projects planned from 6 to 10 years.



Muhlenberg County has a 2010 census population count of 31,499 (13,699 households) with a projected 2020 population count of 31,466 (12,337 households). Public sewer is currently available to approximately 39 percent of the county's households based on 2010 census counts. Over the next ten years approximately 5,587 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Central City Municipal Water & Sewer System	3	$24,100,000	-	5,587	-	2.00	-
Totals:	**3**	**$24,100,000**	**-**	**5,587**	**-**	**2.00**	**-**

Public Wastewater Systems in Muhlenberg County

Note: Serviceability counts are for households within Muhlenberg county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0023540	Central City Municipal Water & Sewer System	Muhlenberg	5,786	2,248
KY0066575	Drakesboro Water & Sewer	Muhlenberg	885	406
KY0020010	Greenville Utilities Commission	Muhlenberg	5,494	2,280
KYP000064	Powderly Sewer System	Muhlenberg	716	344
		Totals:	12,881	5,278

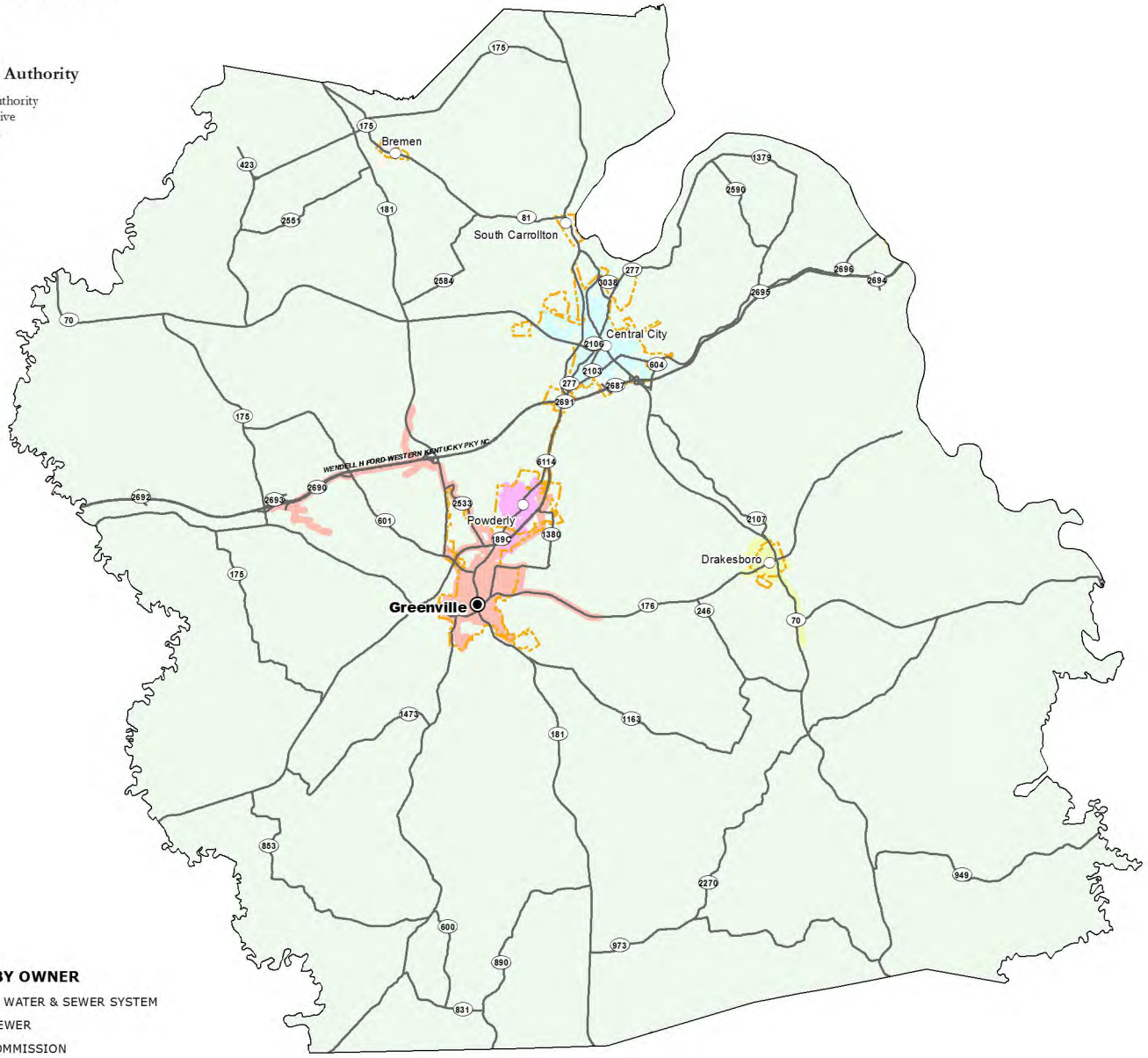
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MUHLENBERG COUNTY
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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER

- CENTRAL CITY MUNICIPAL WATER & SEWER SYSTEM
- DRAKESBORO WATER & SEWER
- GREENVILLE UTILITIES COMMISSION
- POWDERLY SEWER SYSTEM

System Summary for Central City Municipal Water & Sewer System

Permit ID	KY0023540	Treats Wastewater	Yes, 1.2 MGD with 1.02 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,887
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	18	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.44	Total KISOP Treated (MG)	-
Residential Customers	1,643	Total Treated (MG)	387.106
Commercial Customers	244	Number of Manholes	450
Institutional Customers	-	Number of Lift Stations	20
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 46.48 miles (Collection: 36.50 miles, Interceptors: 9.99 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Central City Municipal Water & Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21177010	Central City - WWTP Expansion	0-2 Years	Not Funded	$7,500,000	Muhlenberg	1	1
SX21177020	Central City - Combined Waste Water Improvements Project	0-2 Years	Not Funded	$14,000,000	Muhlenberg		
SX21177015	Central City-Wastewater Collection System Upgrade	3-5 Years	Not Funded	$2,600,000	Muhlenberg		

System Summary for Drakesboro Water & Sewer

Permit ID	KY0066575	Treats Wastewater	Yes, 0.16 MGD with 0.07 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	265
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$48.00	Total KISOP Treated (MG)	-
Residential Customers	262	Total Treated (MG)	16.800
Commercial Customers	3	Number of Manholes	175
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	20%
KISOP Customers	-	Has Facility Plan	Yes, 10% Constructed
Total Collection System Line Length = 11.50 miles (Collection: 11.37 miles, Interceptors: 0.13 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Drakesboro Water & Sewer

System Summary for Greenville Utilities Commission

Permit ID	KY0020010	Treats Wastewater	Yes, 1.31 MGD with 1.05 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,657
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$24.72	Total KISOP Treated (MG)	11.513
Residential Customers	1,342	Total Treated (MG)	327.040
Commercial Customers	256	Number of Manholes	1
Institutional Customers	2	Number of Lift Stations	18
Industrial Customers	57	Percent Lines 20 yrs or Older	60%
KISOP Customers	1	Has Facility Plan	Yes, 75% Constructed
Total Collection System Line Length = 58.97 miles (Collection: 51.40 miles, Interceptors: 7.56 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Greenville Utilities Commission

System Summary for Powderly Sewer System

Permit ID	KYP000064	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	369
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	2	Total KISOP Sent (MG)	11.513
Cost Per 4000 Gallons	$30.76	Total KISOP Treated (MG)	-
Residential Customers	322	Total Treated (MG)	-
Commercial Customers	42	Number of Manholes	260
Institutional Customers	-	Number of Lift Stations	5
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 11.89 miles (Collection: 10.74 miles, Interceptors: 1.15 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Powderly Sewer System

Todd County

- 2010 census population of 12,460 (5,286 households) with 32% serviceable.
- Projected 2020 population of 12,958 (change of 498).
- Todd County has 38.26 miles of existing sewer lines.
- 9.00 miles of line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $10,114,300.
- Estimated funding needs for projects from 6 to 10 years: $750,000.



Todd County has a 2010 census population count of 12,460 (5,286 households) with a projected 2020 population count of 12,958 (4,989 households). Public sewer is currently available to approximately 32 percent of the county's households based on 2010 census counts. Over the next ten years approximately 737 serviceable households will be added through the construction of 9.00 miles of sewer line extensions and approximately 2,609 instances of improved service through system wide upgrades.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Elkton	4	$1,692,800	136	1,795	9.00	-	-
City of Guthrie	2	$7,487,000	-	631	-	-	-
City of Trenton	2	$1,584,500	1	183	-	-	-
Todd County Fiscal Court	1	$100,000	600	-	-	-	-
Totals:	**9**	**$10,864,300**	**737**	**2,609**	**9.00**	**-**	**-**

Public Wastewater Systems in Todd County

Note: Serviceability counts are for households within Todd county only.

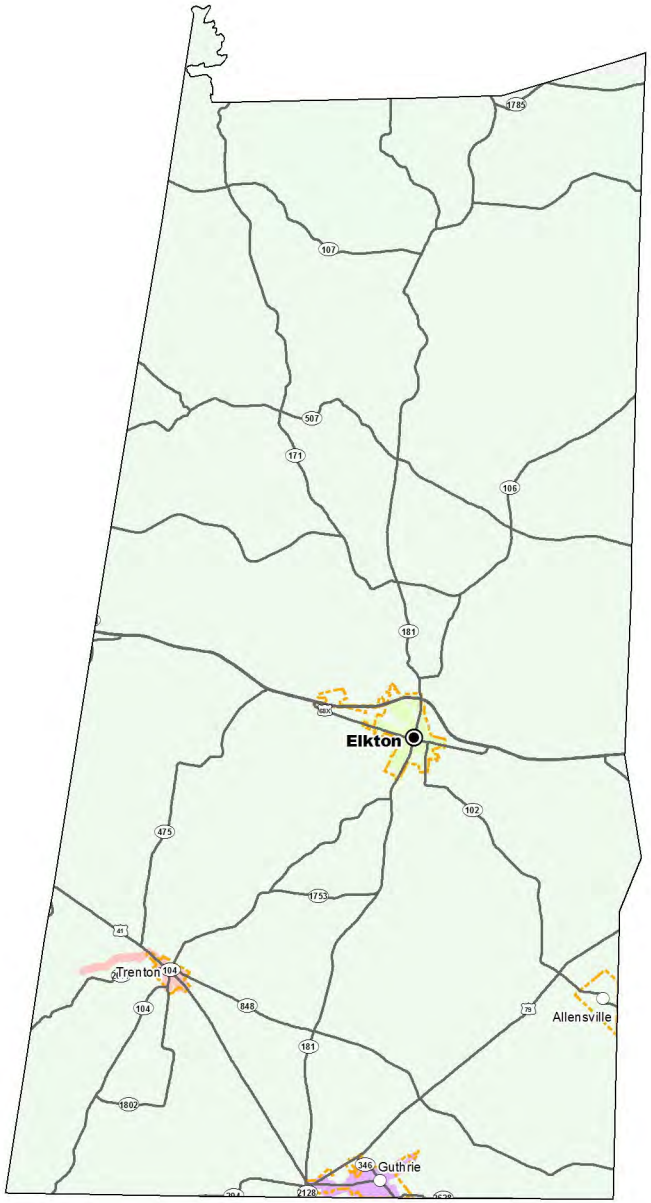
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0023442	Elkton Utilities	Todd	2,060	910
KY0063649	Guthrie Water Works	Todd	1,334	603
KY0020982	Trenton Water Works	Todd	386	187
		Totals:	3,780	1,700

SEWER SERVICE AREAS
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March, 2013



System Summary for Elkton Utilities

Permit ID	KY0023442	Treats Wastewater	Yes, 0.46 MGD with 0.198 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	878
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$37.61	Total KISOP Treated (MG)	-
Residential Customers	718	Total Treated (MG)	72.270
Commercial Customers	154	Number of Manholes	150
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	6	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 16.96 miles (Collection: 16.90 miles, Interceptors: 0.06 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Elkton Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21219014	Elkton - Sewer Collection System Rehabilitation	3-5 Years	Not Funded	$500,000	Todd	22	3
SX21219012	Elkton - Hwy 181 North Sewer Main Extension	6-10 Years	Not Funded	$750,000	Todd	26	7
SX21219018	Elkton - Winding Oaks Sewer Project	3-5 Years	Not Funded	$360,000	Todd	28	4
SX21219019	Elkton - WWTP energy efficiency upgrade	0-2 Years	Not Funded	$82,800	Todd	37	8

System Summary for Guthrie Water Works

Permit ID	KY0063649	Treats Wastewater	Yes, 0.31 MGD with 0.16 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	661
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.41	Total KISOP Treated (MG)	-
Residential Customers	617	Total Treated (MG)	58.400
Commercial Customers	44	Number of Manholes	860
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 14.31 miles (Collection: 14.24 miles, Interceptors: 0.07 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Guthrie Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21219009	Guthrie - WWTP Expansion	3-5 Years	Not Funded	$7,000,000	Todd	31	6
SX21219010	Guthrie - WWTP Debt Reduction	3-5 Years	Not Funded	$487,000	Todd		10

System Summary for Trenton Water Works

Permit ID	KY0020982	Treats Wastewater	Yes, 0.12 MGD with 0.02 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	185
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$37.92	Total KISOP Treated (MG)	-
Residential Customers	180	Total Treated (MG)	12.775
Commercial Customers	5	Number of Manholes	71
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 6.99 miles (Collection: 5.45 miles, Interceptors: 1.53 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Trenton Water Works

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21219011	Trenton - Wastewater Treatment Plant Expansion	3-5 Years	Not Funded	$1,500,000	Todd	30	5
SX21219020	Trenton - W.F. Ware Property Sewer Extensions	0-2 Years	Not Funded	$84,500	Todd		

Trigg County

- 2010 census population of 14,339 (7,810 households) with 19% serviceable.
- Projected 2020 population of 16,244 (change of 1,905).
- Trigg County has 42.82 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- There are no line upgrades proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- There are no projects planned from 0 to 5 years.
- There are no projects planned from 6 to 10 years.



Trigg County has a 2010 census population count of 14,339 (7,810 households) with a projected 2020 population count of 16,244 (6,986 households). Public sewer is currently available to approximately 19 percent of the county's households based on 2010 census counts. There are no projects proposed for this county over the next 10 years.

Public Wastewater Systems in Trigg County

Note: Serviceability counts are for households within Trigg county only.

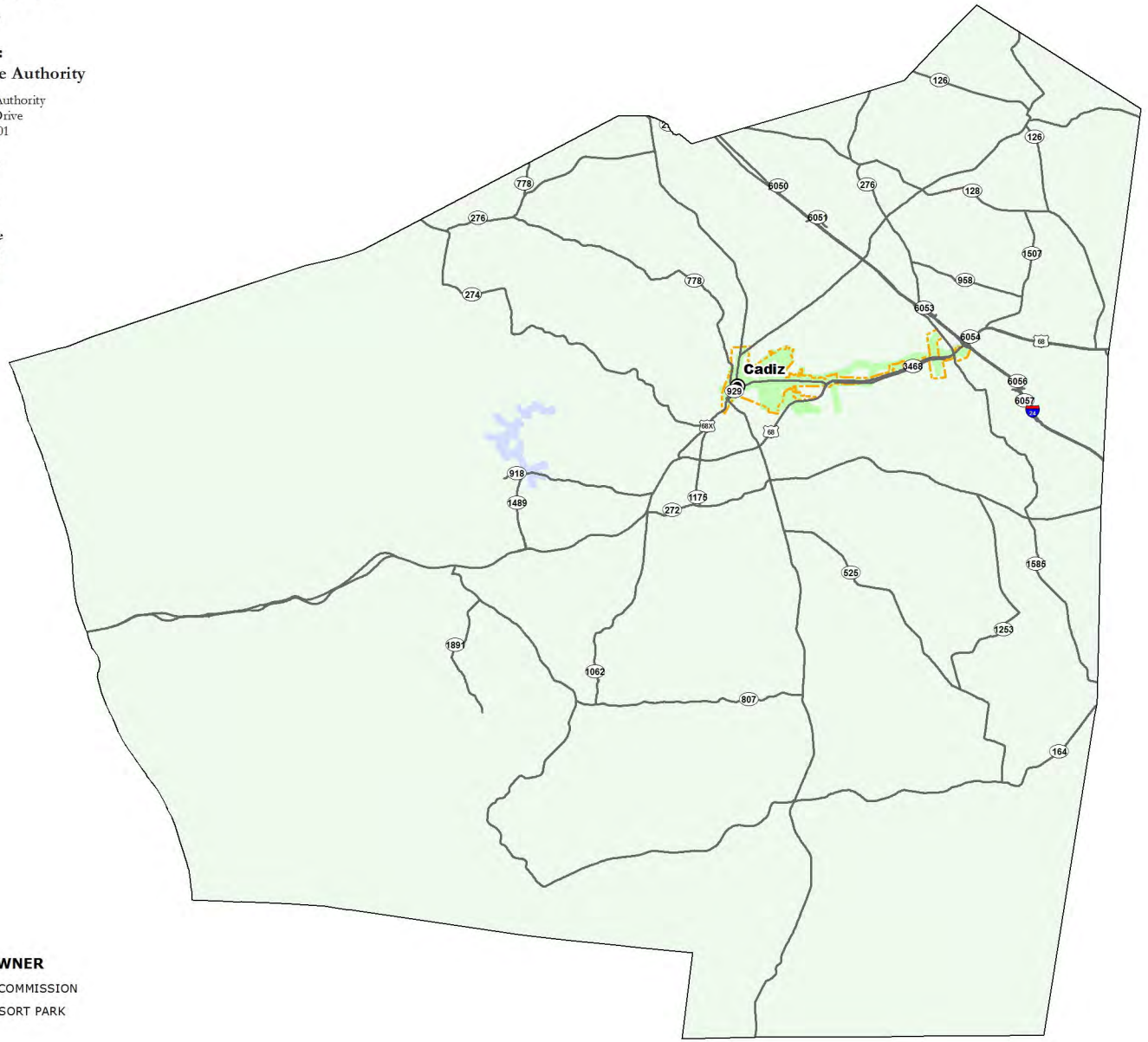
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0026891	Cadiz Water & Sewer Commission	Trigg	2,979	1,423
		Totals:	2,979	1,423

SEWER SERVICE AREAS
TRIGG COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

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March, 2013



SEWER SERVICE BY OWNER

- CADIZ WATER & SEWER COMMISSION
- LAKE BARKLEY STATE RESORT PARK

System Summary for Cadiz Water & Sewer Commission

Permit ID	KY0026891	Treats Wastewater	Yes, 0.59 MGD with 0.231 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,206
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$26.48	Total KISOP Treated (MG)	-
Residential Customers	988	Total Treated (MG)	81.486
Commercial Customers	179	Number of Manholes	664
Institutional Customers	-	Number of Lift Stations	18
Industrial Customers	2	Percent Lines 20 yrs or Older	85%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 35.33 miles (Collection: 35.19 miles, Interceptors: 0.14 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Cadiz Water & Sewer Commission

Purchase Area Development District (PUADD)



- 2010 census population of 196,393 (93,709 households) with 49% serviceable.
- Projected 2020 population of 201,697 (change of 5,304).
- 940.62 miles of existing sewer lines.
- 126.00 miles of line extensions proposed in the next 10 years.
- 121.00 miles of line rehabilitation proposed in the next 10 years.
- 28.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $91,215,740.
- Estimated funding needs for projects from 6 to 10 years: $26,093,690.
- Average age of wastewater treatment plants is 30 years.
- Total number of interconnected systems is 2.
- 102 miles of sewer lines less than 15 years old.
- 33 miles of sewer lines between 15 and 30 years old.
- 198 miles of sewer lines between 31 and 50 years old.
- 363 miles of sewer lines between 51 and 70 years old.
- 244 miles of sewer lines greater than 70 years old.

Purchase Area Development District has a 2010 census population count of 196,393 (93,709 households) with a projected 2020 population count of 201,697 (86,121 households). Public sewer is currently available to approximately 49 percent of the district's households based on 2010 census counts. Over the next ten years approximately 38,606 serviceable households will be added through the construction of 126.00 miles of sewer line extensions and approximately 17,079 instances of improved service through the rehabilitation of 121.00 miles of existing sewer lines and other appurtenances. 28.00 miles of interceptor lines are also proposed within this district.

County Summary for Purchase Area Development District

County Name	2010 Population	2010 Households	2020 Population	2020 Households	Serviceable Households	Percent Serviceable	Planned Cost 0 to 10 Years
Ballard	8,249	3,885	8,217	3,484	1,553	40%	$ 15,126,257
Calloway	37,191	18,065	40,411	17,019	9,208	51%	$ 4,605,000
Carlisle	5,104	2,441	4,947	2,093	604	25%	$ 9,787,095
Fulton	6,813	3,372	6,223	2,728	2,384	71%	$ 6,876,635
Graves	37,121	16,777	37,630	15,459	5,884	35%	$ 35,973,309
Hickman	4,902	2,342	4,625	1,938	627	27%	$ 850,000
McCracken	65,565	31,079	66,621	29,278	21,651	70%	$ 32,673,659
Marshall	31,448	15,748	33,023	14,122	3,881	25%	$ 11,417,475
Totals	**196,393**	**93,709**	**201,697**	**86,121**	**45,792**	**49%**	**$ 117,309,430**

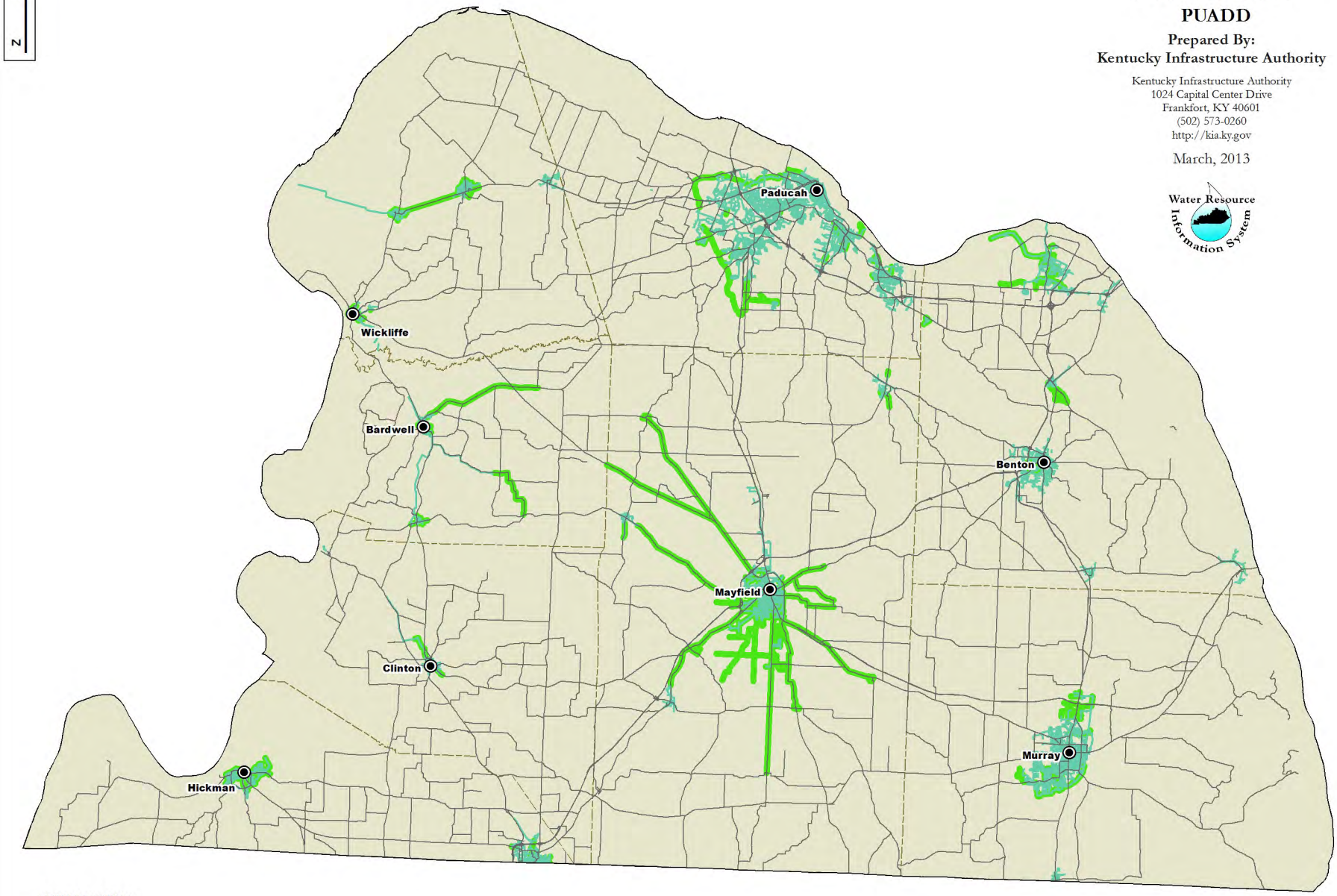
EXISTING & PROPOSED SEWER LINES

PUADD

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March, 2013



Public Sewer Systems in the Purchase Area Development District

Note: Serviceable counts include households outside the area development district.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0025747	Barlow Sewer System	Ballard	700	368
KY0033791	Kevil Water & Sewer System	Ballard	705	342
KY0020893	LaCenter Water System	Ballard	1,043	487
KY0025933	Wickliffe Sewer System	Ballard	772	364
KY0072761	Murray Water & Wastewater System	Calloway	19,390	8,983
KY0028371	South 641 Water District	Calloway	417	225
KYP000065	Arlington Water and Sewer Department	Carlisle	359	183
KYP000066	Bardwell City Utilities	Carlisle	795	421
KY0026913	Fulton Municipal Water System	Fulton	2,448	1,330
KY0028436	Hickman Municipal Sewer System	Fulton	2,404	1,054
KY0053562	Graves County Water District (Fancy Farm)	Graves	573	259
KY0021211	Mayfield Electric & Water System	Graves	10,472	4,909
KY0055221	Mayfield Electric & Water Systems (Highland Club)	Graves	27	12
KY0053520	Mayfield Electric & Water Systems (Thomas Country)	Graves	328	132
KY0055271	Symsonia Water District	Graves	583	307
KY0025852	Wingo Water & Sewer System	Graves	595	265
KY0025275	Clinton Sewer	Hickman	1,274	626
KY0021172	Benton Water & Sewer System	Marshall	4,765	2,211
KY0021130	Calvert City Municipal Water & Sewer	Marshall	2,424	1,100
KY0021016	Hardin Sewer System	Marshall	681	317
KY0044164	Marshall County Environmental Services (Golden Acres)	Marshall	69	34
KY0024546	Marshall County Sanitation District #1	Marshall	97	71
KY0044181	Marshall County Sanitation District #2	Marshall	284	130
KY0080845	Marshall County Environmental Services (Great Oaks)	McCracken	522	178
KY0022799	Paducah McCracken County Joint Sewer Agency (Paducah)	McCracken	34,452	17,326
KY0025810	Paducah McCracken County Joint Sewer Agency (Reidland)	McCracken	4,635	2,048
KY0025828	Paducah McCracken County Joint Sewer Agency (Woodlawn)	McCracken	4,467	2,091
		Totals:	95,281	45,773

Purchase Area Development District
Regional Wastewater Needs Assessment

Primary Need: **Develop Long-term Planning That Allows for Sustainability**
Secondary Need: **Repair and Replace Existing Infrastructure**

Discussion of Area Development District Needs:

The majority of systems within the Purchase Area are smaller and have different needs than the larger, more self-sustaining systems. Long-term planning needs to be a major focus within these systems, in order for them to be sustainable. The fallacy some systems fall into is being too focused on the short-term (day-to-day operations) and fail to acknowledge their Long-term needs and goals. The Purchase Area as a whole has a need to replace or repair existing infrastructure that are reaching and in a lot of cases exceeding past their useful life expectancy.

Based on the project profiles developed for the region the secondary priority for the region is to repair or replacement of existing infrastructure. The majority of the utilities in the Purchase Area are operating systems that are more than 30 years old and standards have evolved to become more stringent during this period. Many of the collection lines, manholes, and lift stations are beyond their useful life which results in wastewater systems that do not operate on a high efficiency level. Additionally, inflow and infiltration are a major issue in the region. This problem is caused by breaks in the collection system that allow surface or groundwater to penetrate the lines and forces the system to treat an increased volume resulting from major rain events.

Description and Determination of Planning Units:

The Purchase Area Development District is divided into eight separate planning units, which are based on the eight counties in the Purchase Area. The planning units are: Ballard County planning unit, Calloway County planning unit, Carlisle County planning unit, Fulton County planning unit, Graves County planning unit, Hickman County planning unit, Marshall County planning unit, and McCracken County planning unit.

In the Ballard County planning unit there are four wastewater utilities (City of Barlow, City of Kevil, City of Lacenter, and City of Wickliffe) that serve approximately 1,553 serviceable households in Ballard County.

The City of Murray and the South 641 Water District make up the two wastewater utilities in the Calloway County planning unit and serve approximately 9,208 serviceable households in.

The Carlisle County planning unit is comprised of two utilities (City of Arlington and City of Bardwell) that collect wastewater but send the wastewater to another utility to be treated. The Carlisle County Sanitation District is the utility that receives wastewater from these two municipalities and also the Carlisle County High School. The City of Arlington and the City of Bardwell serve approximately 604 serviceable households in.

The Fulton County planning unit has two wastewater utilities (City of Fulton and City of Hickman) that serve approximately 2,384 serviceable households in.

The Graves County planning unit also has four wastewater utilities (Graves County Water District, Mayfield Electric & Water System, Symsonia Water District, and the City of Wingo) that serve approximately 5,884 serviceable households in Graves County.

The City of Clinton is the lone wastewater utility in the Hickman County planning unit and serves approximately 627 serviceable households in.

The Marshall County planning unit has the largest amount of wastewater utilities, which has six wastewater utilities. With those utilities being the City of Benton, Calvert City, City of Hardin, Marshall County Sanitation District #1, Marshall County Sanitation District #2, and the Purchase Public Service Corporation plant at the Golden Acres Subdivision. Together these utilities serve approximately 3,881 serviceable households in.

Paducah-McCracken Joint Sewer Agency along with two Purchase Public Service Corporation plants at the Blandville-West Subdivision and Great Oaks Subdivision make up the McCracken County planning unit. These three utilities serve approximately 21,651 serviceable households in McCracken County.

Purchase Area Development District
Project Ranking Methodology

The Purchase Area Water Management Council uses a clean water ranking criteria to establish a regional priority list for water projects in the Purchase Area.

The clean water ranking criteria consists of five separate categories.

Project Type:

1. Regionalizing- projects receive 25 points if there is a merger of utilities and elimination of permitted discharges.
2. Elimination of sewage treatment plant through interconnection- projects receive 23 points if there is an utility that is eliminating a sewage treatment plant and sending the wastewater to another utility to be treated.
3. New treatment plant/expansion- projects receive 20 points if the utility is building a new sewage treatment plant or expanded the existing capacity of the existing sewage treatment plant.
4. Replacement or rehabilitation of aging infrastructure- project will receive 17 points if the utility is rehabbing out-dated collection lines or out-dated equipment.
5. Extension of sewer service to unserved households- project will receive 20 points if the proposed project will add an average of 9 or more new customers per mile, 19 points for an average of 7-8 new customers per mile, 18 points for an average of 5-6 new customers per mile, 15 points for an average of 3-4 new customers per mile, and 10 points for an average of 1-2 new customers per mile.

Compliance and Enforcement:

A project will receive 5 points if the utility is using this project to achieve full or partial compliance with a court or agreed order.

Funding Status

Projects that are 50%-99% funded and they receive 10 points, the second section is for projects that are 1%-49% funded and they receive 5 points. Any projects that are not funded receive zero points for this category.

Project Status

This category has three sections and a project can receive points in all sections if the utility has completed them. The first section is Engineering plans and specs submitted to DOW, a project will receive 15 points if this step has been completed. The second section is Preliminary engineering report complete, a project will receive 10 points if this step is completed. The third section is Estimated engineer's budget complete, a project will receive 5 points if this step is complete.

County Ranking

In this category, projects will receive points based on their county ranking. A number one ranked project in the county will receive 24 points, a number two ranked project in the county will receive 20 points, a number three ranked project in the county will receive 16 points, a number four ranked project in the county will receive 14 points, and a number five ranked project in the county will receive 12 points. Only the top 5 projects in each county will be ranked regionally. In the event of a tie-breaker between projects, the cost per household will be used to break the tie.

In the event of a tie-breaker between projects, the cost per household will be used to break the tie.

Project Rankings For Purchase Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21145015	Reidland Collection System Above Ground Storage Tank	3-5 Years	Not Funded	$2,385,000	McCracken	1	1
SX21157035	Marshall Co. Sanitation District #2 - Ext. to Marshall Co. High	3-5 Years	Not Funded	$3,312,000	Marshall	2	2
SX21035001	City of Murray-Bee Creek WWTP Improvements & Collection System	0-2 Years	Fully Funded	$46,000,000	Calloway	3	1
SX21157030	Marshall SD 1-Liftstation Repair/Replacement & WWTP Upgrades	0-2 Years	Partially Funded	$550,000	Marshall	4	1
SX21007016	LaCenter - Sanitary Sewer Improvements Phase III	3-5 Years	Not Funded	$4,000,000	Ballard	5	1
SX21145020	Sludge Press Building	3-5 Years	Not Funded	$2,361,000	McCracken	6	2
SX21075001	Fulton Mun Water System - Rehab Phase II	3-5 Years	Not Funded	$523,635	Fulton	7	1
SX21145171	Paducah-Mccracken JSA-Woodlawn Collection System Improvements	0-2 Years	Over Funded	$3,590,000	McCracken	8	3
SX21145176	Blandville West Estates Collection System Rehab	3-5 Years	Not Funded	$390,000	McCracken	9	4
SX21083031	Symsonia-KY 534 Extension	3-5 Years	Not Funded	$135,000	Graves	10	1
SX21039001	Carlisle SD #1-WWTP Surge Basin	0-2 Years	Partially Funded	$1,580,322	Carlisle	11	1
SX21007012	City of Wickliffe Sewer Rehabilitation Project Phase I	3-5 Years	Partially Funded	$1,589,920	Ballard	12	2
SX21105005	City of Clinton- Hwy 58 Line Replacement	3-5 Years	Not Funded	$250,000	Hickman	13	1
SX21083004	Mayfield Electric & Water-KY 303, Cuba	3-5 Years	Not Funded	$5,873,200	Graves	14	3
SX21083018	Mayfield-WWTP Upgrade	0-2 Years	Partially Funded	$2,050,000	Graves	15	4
SX21007014	LaCenter - WWTP Creek Flow Monitoring	3-5 Years	Not Funded	$546,800	Ballard	16	5
SX21035004	City of Murray- Sewer Extension to North Elementary	3-5 Years	Not Funded	$350,000	Calloway	17	4
SX21039002	Carlisle SD #1-Phase III- Milburn Force Main/Collector System	6-10 Years	Not Funded	$2,964,030	Carlisle	18	4
SX21075003	Fulton Municipal Sewer-Wetlands Addition to Lagoon	3-5 Years	Not Funded	$1,139,000	Fulton	19	4
SX21039018	City of Arlington- Collection System Rehab Phase III	3-5 Years	Not Funded	$582,660	Carlisle	20	3
SX21083027	Mayfield Electric & Water - Telemetry for WWTP & North Industrial	3-5 Years	Not Funded	$125,000	Graves	21	2
SX21105006	City of Clinton- Replace Force Main to Lagoon	3-5 Years	Not Funded	$600,000	Hickman	22	2
SX21035023	South 641 - System Rehab Phase II	3-5 Years	Not Funded	$500,000	Calloway	23	2
SX21075004	Hickman Mun Sewer System - Sewer Rehab	3-5 Years	Not Funded	$3,714,000	Fulton	24	2
SX21039004	Carlisle County Sanitation District #1 - Cunningham Force Main and WWTP Upgrades	3-5 Years	Not Funded	$5,500,000	Carlisle	25	5
SX21039017	Bardwell City Utilities- Phase III I&I Reduction	3-5 Years	Not Funded	$300,000	Carlisle	26	2
SX21157034	Hardin - Wastewater Rehabilitation Phase II	3-5 Years	Not Funded	$1,001,000	Marshall	27	4
SX21157001	City of Calvert City-Phase II Colorado Street Sewers	3-5 Years	Not Funded	$195,000	Marshall	28	3
SX21075005	City of Hickman- CSO Removal Project	3-5 Years	Not Funded	$1,000,000	Fulton	29	3
SX21007006	City of Barlow- Demolition of Old WWTP	3-5 Years	Not Funded	$250,000	Ballard	30	3
SX21157027	City of Calvert City-Phase I Ext. With Low Pressure Grinder Pump	3-5 Years	Not Funded	$100,000	Marshall	31	5
SX21007010	City of Wickliffe- Lagoon Levee Repair	3-5 Years	Not Funded	$200,000	Ballard	32	4
SX21035018	Murray - Industrial Park Lift Station Upgrade	3-5 Years	Not Funded	$500,000	Calloway	33	5
SX21075008	Fulton Municipal Sewer-Interceptor Project	3-5 Years	Not Funded	$500,000	Fulton	34	5

Project Rankings For Purchase Area Development District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21083016	Mayfield-10th Street Lift Station and Sewer Line Rehab	3-5 Years	Not Funded	$515,000	Graves	35	5
SX21035003	City of Murray- Melvin Henley Dr. Extension	3-5 Years	Not Funded	$160,000	Calloway	36	3
			Total Cost:	**$95,332,567**			

Ballard County

- 2010 census population of 8,249 (3,885 households) with 40% serviceable.
- Projected 2020 population of 8,217 (change of -32).
- Ballard County has 49.39 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 16.00 miles of line rehabilitation proposed in the next 10 years.
- 6.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $13,172,537.
- Estimated funding needs for projects from 6 to 10 years: $1,953,720.



Ballard County has a 2010 census population count of 8,249 (3,885 households) with a projected 2020 population count of 8,217 (3,484 households). Public sewer is currently available to approximately 40 percent of the county's households based on 2010 census counts. Over the next ten years approximately 1,801 instances of improved service through the rehabilitation of 16.00 miles of existing sewer lines and other appurtenances. 6.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Barlow	2	$1,375,000	-	610	-	5.00	-
City of Kevil	1	$525,000	-	-	-	-	-
City of La Center	3	$6,654,675	-	746	-	8.00	6.00
City of Wickliffe	5	$6,571,582	-	445	-	3.00	-
Totals:	**11**	**$15,126,257**	**-**	**1,801**	**-**	**16.00**	**6.00**

Public Wastewater Systems in Ballard County

Note: Serviceability counts are for households within Ballard county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0025747	Barlow Sewer System	Ballard	700	368
KY0033791	Kevil Water & Sewer System	Ballard	685	334
KY0020893	LaCenter Water System	Ballard	1,043	487
KY0025933	Wickliffe Sewer System	Ballard	772	364
		Totals:	3,200	1,553

SEWER SERVICE AREAS
BALLARD COUNTY
Kentucky

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March, 2013



System Summary for Barlow Sewer System

Permit ID	KY0025747	Treats Wastewater	Yes, 0.15 MGD with 0.04 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	343
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$33.38	Total KISOP Treated (MG)	-
Residential Customers	337	Total Treated (MG)	29.160
Commercial Customers	5	Number of Manholes	74
Institutional Customers	-	Number of Lift Stations	5
Industrial Customers	1	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 26% Constructed
Total Collection System Line Length = 15.06 miles (Collection: 7.65 miles, Interceptors: 7.41 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Barlow Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21007006	City of Barlow- Demolition of Old WWTP	3-5 Years	Not Funded	$250,000	Ballard	30	3
SX21007001	City of Barlow- Collection System Rehab	3-5 Years	Not Funded	$1,125,000	Ballard		

System Summary for Kevil Water & Sewer System

Permit ID	KY0033791	Treats Wastewater	Yes, 0.05 MGD with 0.04 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	315
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.35	Total KISOP Treated (MG)	-
Residential Customers	287	Total Treated (MG)	37.480
Commercial Customers	24	Number of Manholes	125
Institutional Customers	3	Number of Lift Stations	4
Industrial Customers	1	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 8.11 miles (Collection: 7.19 miles, Interceptors: 0.92 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Kevil Water & Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21007005	City of Kevil-WWTP Expansion	3-5 Years	Not Funded	$525,000	Ballard		

System Summary for LaCenter Water System

Permit ID	KY0020893	Treats Wastewater	Yes, 0.16 MGD with 0.08 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	443
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$25.55	Total KISOP Treated (MG)	-
Residential Customers	377	Total Treated (MG)	12.460
Commercial Customers	66	Number of Manholes	85
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 11.51 miles (Collection: 8.87 miles, Interceptors: 2.63 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for LaCenter Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21007016	LaCenter - Sanitary Sewer Improvements Phase III	3-5 Years	Not Funded	$4,000,000	Ballard	5	1
SX21007014	LaCenter - WWTP Creek Flow Monitoring	3-5 Years	Not Funded	$546,800	Ballard	16	5
SX21007007	City of LaCenter-I&I Reduction	3-5 Years	Not Funded	$2,107,875	Ballard		

System Summary for Wickliffe Sewer System

Permit ID	KY0025933	Treats Wastewater	Yes, 0.28 MGD with 0.07 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	377
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$19.00	Total KISOP Treated (MG)	-
Residential Customers	360	Total Treated (MG)	62.000
Commercial Customers	17	Number of Manholes	146
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 14.72 miles (Collection: 8.69 miles, Interceptors: 6.04 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Wickliffe Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21007012	City of Wickliffe Sewer Rehabilitation Project Phase I	3-5 Years	Partially Funded	$1,589,920	Ballard	12	2
SX21007010	City of Wickliffe- Lagoon Levee Repair	3-5 Years	Not Funded	$200,000	Ballard	32	4
SX21007008	City of Wickliffe- Sewer Rehabilitation Phase II	3-5 Years	Not Funded	$2,127,942	Ballard		
SX21007009	City of Wickliffe- Sewer Rehabilitation Phase III	6-10 Years	Not Funded	$1,953,720	Ballard		
SX21007018	Wickliffe Lift Station Upgrade	3-5 Years	Not Funded	$700,000	Ballard		

Calloway County

- 2010 census population of 37,191 (18,065 households) with 51% serviceable.
- Projected 2020 population of 40,411 (change of 3,220).
- Calloway County has 147.94 miles of existing sewer lines.
- 3.00 miles of line extensions proposed in the next 10 years.
- 8.00 miles of line rehabilitation proposed in the next 10 years.
- 4.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $4,605,000.
- There are no projects planned from 6 to 10 years.



Calloway County has a 2010 census population count of 37,191 (18,065 households) with a projected 2020 population count of 40,411 (17,019 households). Public sewer is currently available to approximately 51 percent of the county's households based on 2010 census counts. Over the next ten years approximately 23 serviceable households will be added through the construction of 3.00 miles of sewer line extensions and approximately 1,386 instances of improved service through the rehabilitation of 8.00 miles of existing sewer lines and other appurtenances. 4.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Murray	8	$4,105,000	23	1,136	3.00	8.00	4.00
South 641 Water District	1	$500,000	-	250	-	-	-
Totals:	**9**	**$4,605,000**	**23**	**1,386**	**3.00**	**8.00**	**4.00**

Public Wastewater Systems in Calloway County

Note: Serviceability counts are for households within Calloway county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0072761	Murray Water & Wastewater System	Calloway	19,390	8,983
KY0028371	South 641 Water District	Calloway	417	225
		Totals:	19,807	9,208

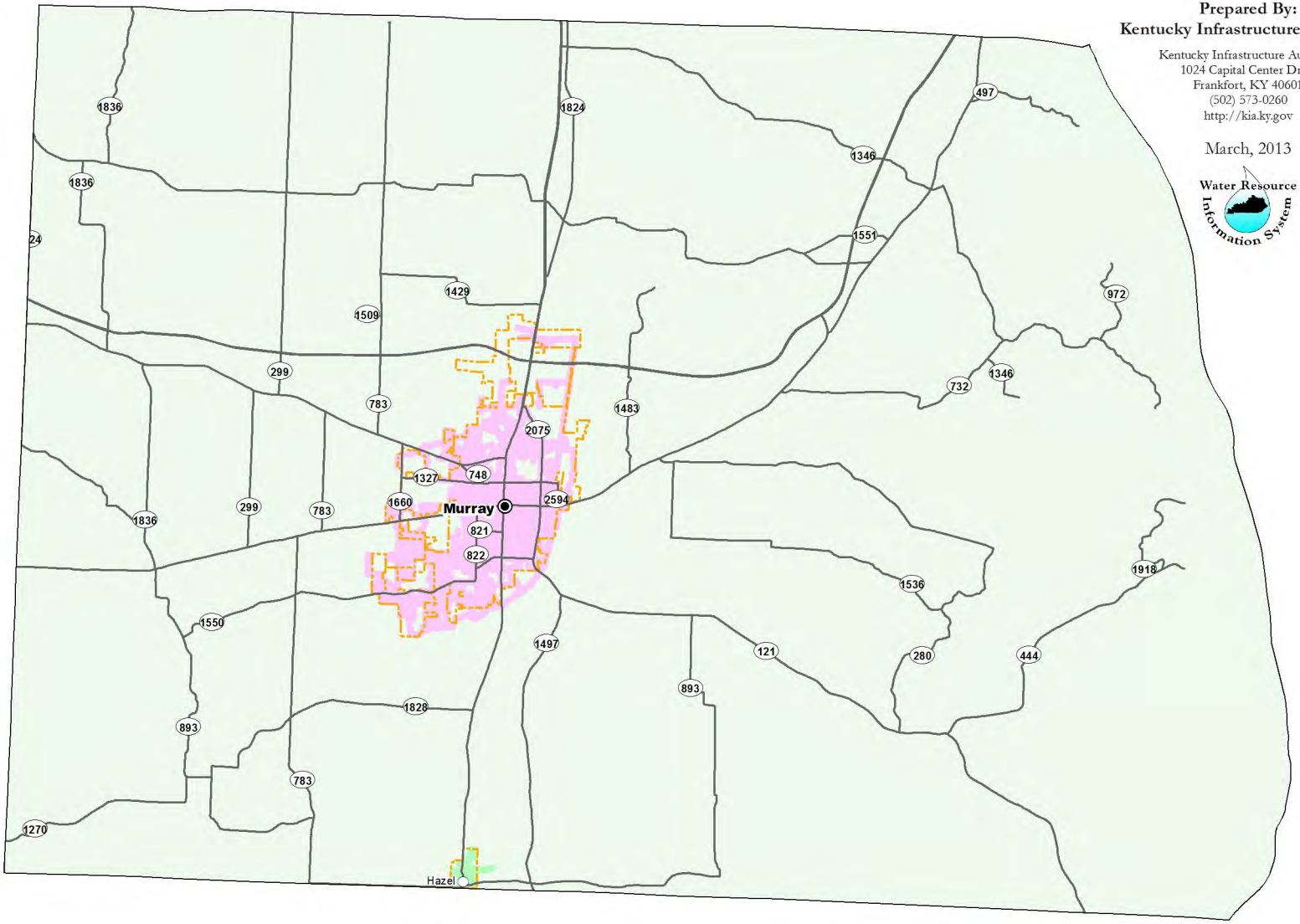
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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER

- MURRAY WATER & WASTEWATER SYSTEM
- SOUTH 641 WATER DISTRICT

System Summary for Murray Water & Wastewater System

Permit ID	KY0072761	Treats Wastewater	Yes, 5.25 MGD with 3.35 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	8,233
Owner Type	Incorporated City	KISOP Sender	No
Employees	9	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$16.94	Total KISOP Treated (MG)	-
Residential Customers	6,451	Total Treated (MG)	1,423.500
Commercial Customers	-	Number of Manholes	2652
Institutional Customers	1,773	Number of Lift Stations	7
Industrial Customers	9	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 142.91 miles (Collection: 138.21 miles, Interceptors: 4.70 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Murray Water & Wastewater System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21035004	City of Murray- Sewer Extension to North Elementary	3-5 Years	Not Funded	$350,000	Calloway	17	4
SX21035018	Murray - Industrial Park Lift Station Upgrade	3-5 Years	Not Funded	$500,000	Calloway	33	5
SX21035003	City of Murray- Melvin Henley Dr. Extension	3-5 Years	Not Funded	$160,000	Calloway	36	3
SX21035016	Murray - Gatesborough Interceptor Sewer	3-5 Years	Not Funded	$1,500,000	Calloway		
SX21035005	City of Murray- North Murray Sewer Main Extension	3-5 Years	Not Funded	$600,000	Calloway		
SX21035019	Murray - Phase VII Sewer Rehab	3-5 Years	Not Funded	$450,000	Calloway		
SX21035021	Murray - Clarks River Lift Station Upgrade	3-5 Years	Not Funded	$275,000	Calloway		
SX21035013	Murray-Phase VI Rehab Project South of Murray	3-5 Years	Partially Funded	$270,000	Calloway		

System Summary for South 641 Water District

Permit ID	KY0028371	Treats Wastewater	Yes, 0.03 MGD with 0.02 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	245
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$15.41	Total KISOP Treated (MG)	-
Residential Customers	184	Total Treated (MG)	6.806
Commercial Customers	61	Number of Manholes	65
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 5% Constructed
Total Collection System Line Length = 5.02 miles (Collection: 4.32 miles, Interceptors: 0.70 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for South 641 Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21035023	South 641 - System Rehab Phase II	3-5 Years	Not Funded	$500,000	Calloway	23	2

Carlisle County

- 2010 census population of 5,104 (2,441 households) with 25% serviceable.
- Projected 2020 population of 4,947 (change of -157).
- Carlisle County has 28.13 miles of existing sewer lines.
- 11.00 miles of line extensions proposed in the next 10 years.
- 4.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,823,065.
- Estimated funding needs for projects from 6 to 10 years: $2,964,030.



Carlisle County has a 2010 census population count of 5,104 (2,441 households) with a projected 2020 population count of 4,947 (2,093 households). Public sewer is currently available to approximately 25 percent of the county's households based on 2010 census counts. Over the next ten years approximately 440 serviceable households will be added through the construction of 11.00 miles of sewer line extensions and approximately 181 instances of improved service through the rehabilitation of 4.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Carlisle County Sanitation District #1	5	$8,904,435	440	-	11.00	-	-
City of Arlington	1	$582,660	-	146	-	3.00	-
City of Bardwell	1	$300,000	-	35	-	1.00	-
Totals:	**7**	**$9,787,095**	**440**	**181**	**11.00**	**4.00**	**-**

Public Wastewater Systems in Carlisle County

Note: Serviceability counts are for households within Carlisle county only.

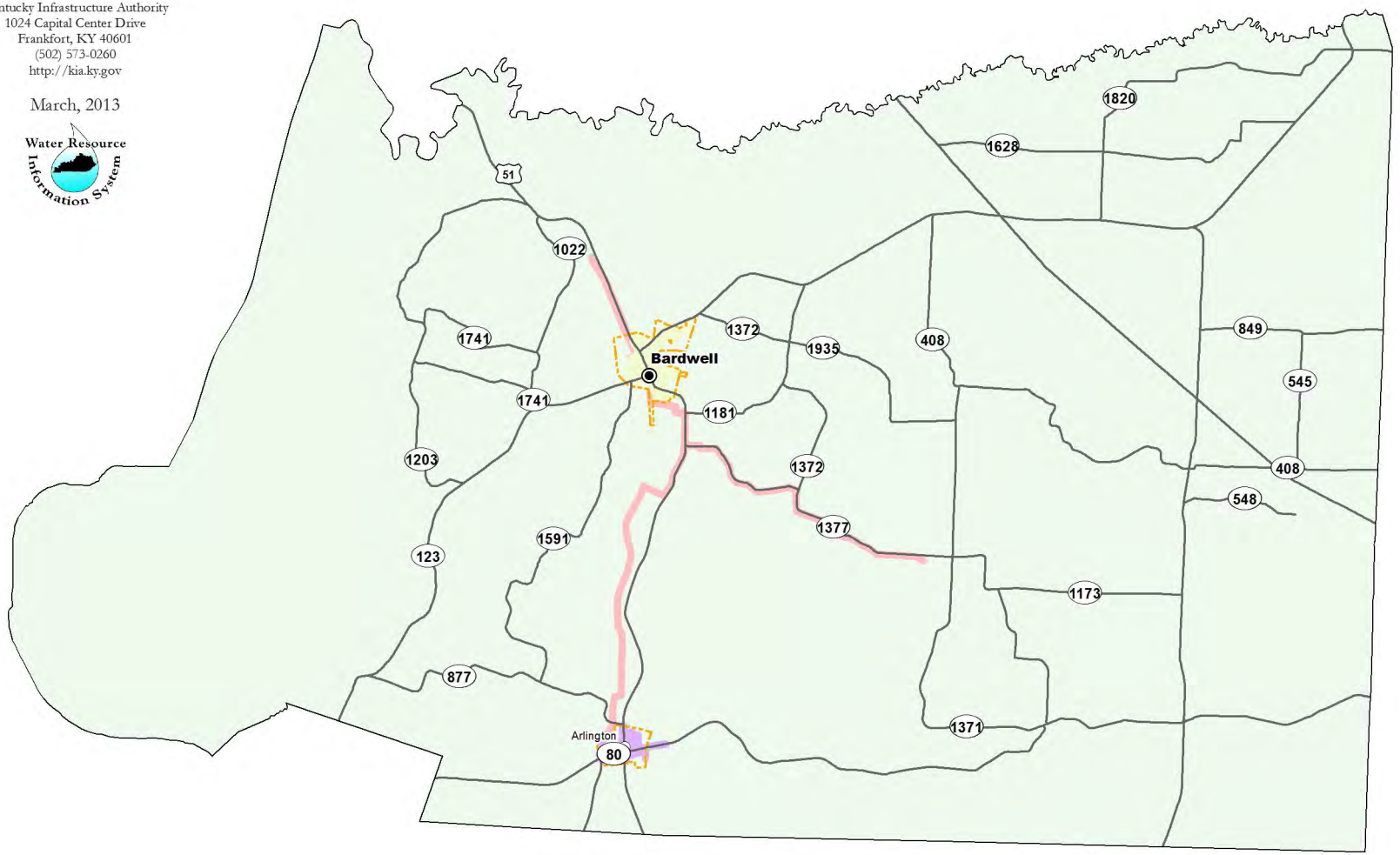
KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KYP000065	Arlington Water and Sewer Department	Carlisle	359	183
KYP000066	Bardwell City Utilities	Carlisle	795	421
		Totals:	1,154	604

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System Summary for Arlington Water and Sewer Department

Permit ID	KYP000065	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	192
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	3	Total KISOP Sent (MG)	17.915
Cost Per 4000 Gallons	$37.68	Total KISOP Treated (MG)	-
Residential Customers	160	Total Treated (MG)	-
Commercial Customers	19	Number of Manholes	63
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	70%
KISOP Customers	-	Has Facility Plan	Yes, 10% Constructed
Total Collection System Line Length = 3.79 miles (Collection: 3.79 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Arlington Water and Sewer Department

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21039018	City of Arlington- Collection System Rehab Phase III	3-5 Years	Not Funded	$582,660	Carlisle	20	3

System Summary for Bardwell City Utilities

Permit ID	KYP000066	Treats Wastewater	No
System Type	KPDES KISOP (Inter-System)	Total Connections	409
Owner Type	Incorporated City	KISOP Sender	Yes, to 1 receiver.
Employees	7	Total KISOP Sent (MG)	46.746
Cost Per 4000 Gallons	$22.20	Total KISOP Treated (MG)	-
Residential Customers	341	Total Treated (MG)	-
Commercial Customers	68	Number of Manholes	152
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 40% Constructed
Total Collection System Line Length = 9.43 miles (Collection: 8.89 miles, Interceptors: 0.53 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Bardwell City Utilities

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21039017	Bardwell City Utilities- Phase III I&I Reduction	3-5 Years	Not Funded	$300,000	Carlisle	26	2

System Summary for Carlisle County Sanitation District #1

Permit ID	KY0102156	Treats Wastewater	Yes, 0.25 MGD with 0.26 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.92	Total KISOP Treated (MG)	64.661
Residential Customers	-	Total Treated (MG)	79.660
Commercial Customers	-	Number of Manholes	220
Institutional Customers	1	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	2	Has Facility Plan	Yes, 40% Constructed
Total Collection System Line Length = 14.92 miles (Collection: 0.00 miles, Interceptors: 14.92 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Carlisle County Sanitation District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21039002	Carlisle SD #1-Phase III- Milburn Force Main/Collector System	6-10 Years	Not Funded	$2,964,030	Carlisle	18	4
SX21039004	Carlisle County Sanitation District #1 - Cunningham Force Main and WWTP Upgrades	3-5 Years	Not Funded	$5,500,000	Carlisle	25	5
SX21039008	Carlisle SD #1 - Arlington Wastewater Equalization Improvements	3-5 Years	Not Funded	$290,000	Carlisle		
SX21039006	Carlisle S.D. #1-Pump Station Upgrade	3-5 Years	Not Funded	$100,405	Carlisle		
SX21039013	Carlisle SD #1 - Development of 201 Regional Facilities Planning	3-5 Years	Not Funded	$50,000	Carlisle		

Fulton County

- 2010 census population of 6,813 (3,372 households) with 71% serviceable.
- Projected 2020 population of 6,223 (change of -590).
- Fulton County has 61.67 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 24.00 miles of line rehabilitation proposed in the next 10 years.
- 2.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $6,876,635.
- There are no projects planned from 6 to 10 years.



Fulton County has a 2010 census population count of 6,813 (3,372 households) with a projected 2020 population count of 6,223 (2,728 households). Public sewer is currently available to approximately 71 percent of the county's households based on 2010 census counts. Over the next ten years approximately 3,664 instances of improved service through the rehabilitation of 24.00 miles of existing sewer lines and other appurtenances. 2.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Fulton	3	$2,162,635	-	2,679	-	1.00	-
City of Hickman	2	$4,714,000	-	985	-	23.00	2.00
Totals:	**5**	**$6,876,635**	**-**	**3,664**	**-**	**24.00**	**2.00**

Public Wastewater Systems in Fulton County

Note: Serviceability counts are for households within Fulton county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0026913	Fulton Municipal Water System	Fulton	2,448	1,330
KY0028436	Hickman Municipal Sewer System	Fulton	2,404	1,054
		Totals:	4,852	2,384

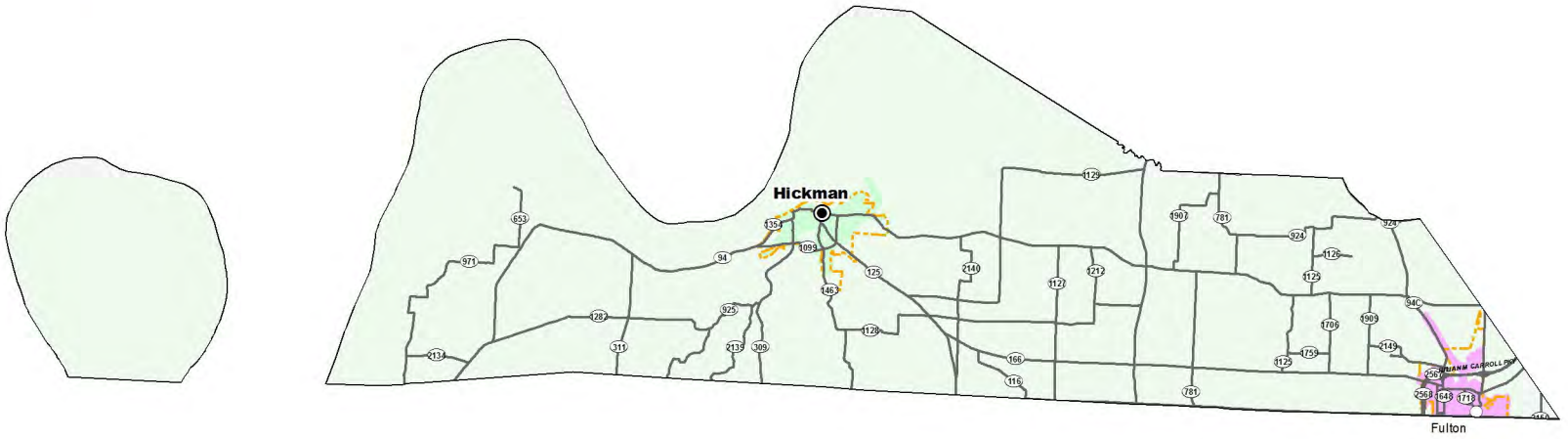
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March, 2013

Water Resource Information System



System Summary for Fulton Municipal Water System

Permit ID	KY0026913	Treats Wastewater	Yes, 2 MGD with 0.56 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,325
Owner Type	Incorporated City	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$29.17	Total KISOP Treated (MG)	-
Residential Customers	1,191	Total Treated (MG)	173.640
Commercial Customers	130	Number of Manholes	424
Institutional Customers	-	Number of Lift Stations	10
Industrial Customers	4	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 36.85 miles (Collection: 34.20 miles, Interceptors: 2.65 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Fulton Municipal Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21075001	Fulton Mun Water System - Rehab Phase II	3-5 Years	Not Funded	$523,635	Fulton	7	1
SX21075003	Fulton Municipal Sewer-Wetlands Addition to Lagoon	3-5 Years	Not Funded	$1,139,000	Fulton	19	4
SX21075008	Fulton Municipal Sewer-Interceptor Project	3-5 Years	Not Funded	$500,000	Fulton	34	5

System Summary for Hickman Municipal Sewer System

Permit ID	KY0028436	Treats Wastewater	Yes, 0.6 MGD with 0.55 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	951
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.40	Total KISOP Treated (MG)	-
Residential Customers	826	Total Treated (MG)	291.250
Commercial Customers	124	Number of Manholes	550
Institutional Customers	-	Number of Lift Stations	6
Industrial Customers	1	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 27.81 miles (Collection: 23.70 miles, Interceptors: 4.10 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hickman Municipal Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21075004	Hickman Mun Sewer System - Sewer Rehab	3-5 Years	Not Funded	$3,714,000	Fulton	24	2
SX21075005	City of Hickman- CSO Removal Project	3-5 Years	Not Funded	$1,000,000	Fulton	29	3

Graves County

- 2010 census population of 37,121 (16,777 households) with 35% serviceable.
- Projected 2020 population of 37,630 (change of 509).
- Graves County has 110.93 miles of existing sewer lines.
- 99.00 miles of line extensions proposed in the next 10 years.
- 54.00 miles of line rehabilitation proposed in the next 10 years.
- 11.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $21,635,369.
- Estimated funding needs for projects from 6 to 10 years: $14,337,940.



Graves County has a 2010 census population count of 37,121 (16,777 households) with a projected 2020 population count of 37,630 (15,459 households). Public sewer is currently available to approximately 35 percent of the county's households based on 2010 census counts. Over the next ten years approximately 3,296 serviceable households will be added through the construction of 99.00 miles of sewer line extensions and approximately 8,445 instances of improved service through the rehabilitation of 54.00 miles of existing sewer lines and other appurtenances. 11.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Graves County Water District	6	$10,149,109	1,132	-	51.00	-	6.00
Mayfield Electric & Water Systems	29	$25,489,200	2,147	8,443	47.00	54.00	5.00
Symsonia Water District	2	$335,000	17	2	1.00	-	-
Totals:	**37**	**$35,973,309**	**3,296**	**8,445**	**99.00**	**54.00**	**11.00**

Public Wastewater Systems in Graves County

Note: Serviceability counts are for households within Graves county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0053562	Graves County Water District (Fancy Farm)	Graves	573	259
KY0021211	Mayfield Electric & Water System	Graves	10,472	4,909
KY0055221	Mayfield Electric & Water Systems (Highland Club)	Graves	27	12
KY0053520	Mayfield Electric & Water Systems (Thomas Country)	Graves	328	132
KY0055271	Symsonia Water District	Graves	583	307
KY0025852	Wingo Water & Sewer System	Graves	595	265
		Totals:	12,578	5,884

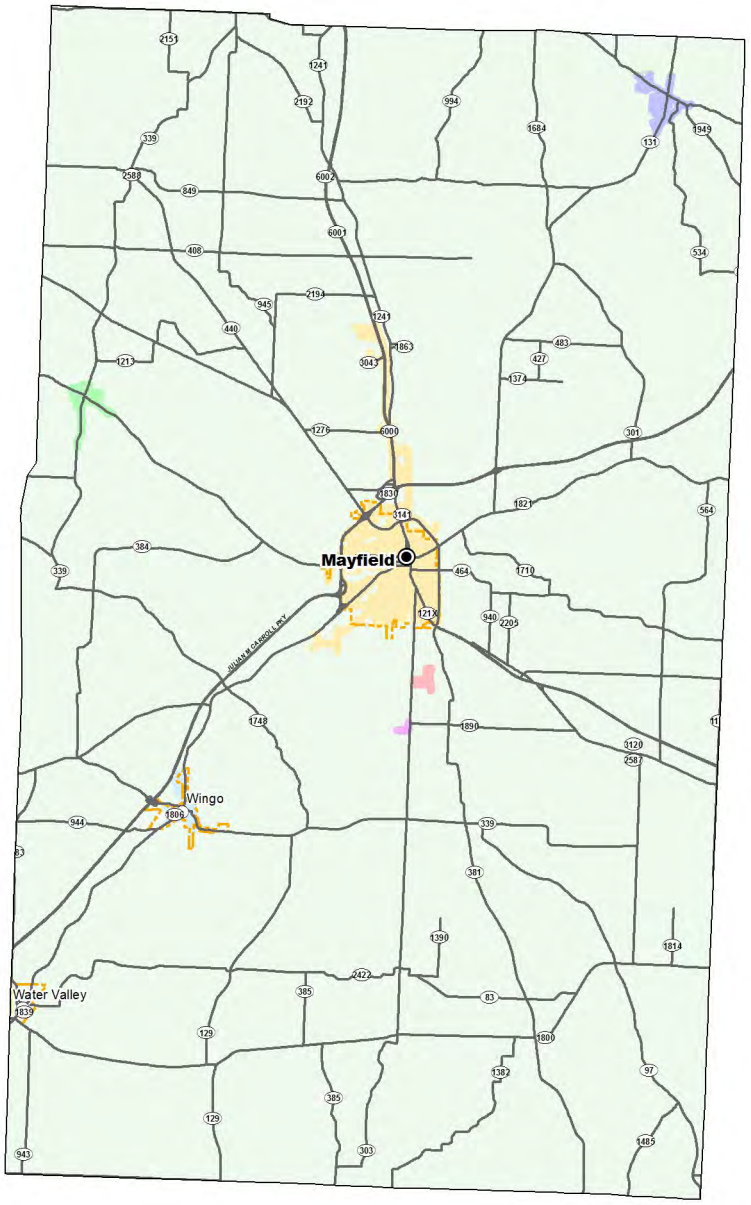
Kentucky Infrastructure Authority
February 06, 2015

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SEWER SERVICE BY OWNER

- GRAVES COUNTY WATER DISTRICT (FANCY FARM)
- MAYFIELD ELECTRIC & WATER SYSTEM
- MAYFIELD ELECTRIC & WATER SYSTEMS (HIGHLAND CLUB)
- MAYFIELD ELECTRIC & WATER SYSTEMS (THOMAS COUNTRY)
- SYMSONIA WATER DISTRICT
- WINGO WATER & SEWER SYSTEM

System Summary for Graves County Water District (Fancy Farm)

Permit ID	KY0053562	Treats Wastewater	Yes, 0.14 MGD with 0.04 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	196
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$15.36	Total KISOP Treated (MG)	-
Residential Customers	168	Total Treated (MG)	91.810
Commercial Customers	28	Number of Manholes	80
Institutional Customers	-	Number of Lift Stations	7
Industrial Customers	1	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 6.87 miles (Collection: 5.11 miles, Interceptors: 1.76 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Graves County Water District (Fancy Farm)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21083008	Graves County Water District-KY 121 N and KY 440, Lowes	6-10 Years	Not Funded	$3,354,640	Graves		
SX21083007	Graves County-KY 80 North, Fancy Farm	3-5 Years	Not Funded	$2,100,800	Graves		
SX21083002	Graves County Water District-Hardeman Community	6-10 Years	Not Funded	$1,620,000	Graves		
SX21083006	Mayfield/Graves County- Pryorsburg Sewer Project	6-10 Years	Not Funded	$1,388,100	Graves		
SX21083003	Graves County Water District-KY 121 Farmington	6-10 Years	Not Funded	$1,367,200	Graves		
SX21083013	Fancy Farm Water & Sewer-KY 339 South and Carrico Rd. Sanitary Sewer Extension	3-5 Years	Not Funded	$318,369	Graves		

System Summary for Mayfield Electric & Water System

Permit ID	KY0021211	Treats Wastewater	Yes, 3.1 MGD with 1.75 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	4,753
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	40	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$15.36	Total KISOP Treated (MG)	-
Residential Customers	4,175	Total Treated (MG)	576.235
Commercial Customers	578	Number of Manholes	1100
Institutional Customers	-	Number of Lift Stations	17
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 5% Constructed

Total Collection System Line Length = 87.21 miles (Collection: 76.84 miles, Interceptors: 10.36 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mayfield Electric & Water System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21083004	Mayfield Electric & Water-KY 303, Cuba	3-5 Years	Not Funded	$5,873,200	Graves	14	3
SX21083027	Mayfield Electric & Water - Telemetry for WWTP & North Industrial	3-5 Years	Not Funded	$125,000	Graves	21	2
SX21083016	Mayfield-10th Street Lift Station and Sewer Line Rehab	3-5 Years	Not Funded	$515,000	Graves	35	5
SX21083032	Mayfield Electric and Water - Collection System Rehab	3-5 Years	Not Funded	$4,000,000	Graves		
SX21083045	Mayfield Electric & Water- Mayfield WWTP Aerobic Digester	6-10 Years	Not Funded	$3,745,000	Graves		
SX21083039	Mayfield Electric & Water- Mayfield WWTP Influent Screw Pump Rehab	3-5 Years	Not Funded	$2,554,000	Graves		
SX21083015	Mayfield Electric & Water-Southern Mayfield/Graves County Wastewater Collection System Extension	3-5 Years	Not Funded	$1,593,000	Graves		
SX21083054	Mayfield Electric & Water- Progress Rail Interceptor Rehab	3-5 Years	Not Funded	$1,117,000	Graves		
SX21083030	Mayfield Electric & Water - Rehab of 10th & Hale St	3-5 Years	Not Funded	$944,000	Graves		
SX21083046	Mayfield Electric & Water- Wngo Collection System Rehabilitation	6-10 Years	Not Funded	$669,000	Graves		
SX21083053	Mayfield Electric & Water- Cuba Road Sewer Rehabilitation	6-10 Years	Not Funded	$499,000	Graves		
SX21083048	Mayfield Electric & Water - 15th Street Lift Station Removal and Interceptor	6-10 Years	Not Funded	$462,000	Graves		
SX21083033	Mayfield Electric & Water-US-45 / Old Pryorsburg Road Interceptor	3-5 Years	Not Funded	$430,000	Graves		
SX21083051	Mayfield Electric & Water- Saint Martins St to South 11th Street	6-10 Years	Not Funded	$363,000	Graves		
SX21083041	Mayfield Electric & Water-Mayfield WWTP Oxidation Ditch	3-5 Years	Not Funded	$292,000	Graves		
SX21083042	Mayfield Electric & Water- Mayfield WWTP Clarifier Refurbishment	3-5 Years	Not Funded	$290,000	Graves		
SX21083052	Mayfield Electric & Water- Farthing Street Sewer Rehabilitation	6-10 Years	Not Funded	$281,000	Graves		
SX21083044	Mayfield Electric & Water- East Walnut Street and South 2nd Street	3-5 Years	Not Funded	$220,000	Graves		

System Summary for Mayfield Electric & Water Systems (Highland Club)

Permit ID	KY0055221	Treats Wastewater	Yes, 0.015 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	21
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$38.87	Total KISOP Treated (MG)	-
Residential Customers	21	Total Treated (MG)	1.675
Commercial Customers	-	Number of Manholes	2
Institutional Customers	-	Number of Lift Stations	2
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed

Total Collection System Line Length = 0.74 miles (Collection: 0.42 miles, Interceptors: 0.32 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mayfield Electric & Water Systems (Highland Club)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21083015	Mayfield Electric & Water-Southern Mayfield/Graves County Wastewater Collection System Extension	3-5 Years	Not Funded	$1,593,000	Graves		

System Summary for Mayfield Electric & Water Systems (Thomas Country)

Permit ID	KY0053520	Treats Wastewater	Yes, 0.04 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	119
Owner Type	Municipal Utility Board or Commission	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$35.09	Total KISOP Treated (MG)	-
Residential Customers	119	Total Treated (MG)	9.607
Commercial Customers	-	Number of Manholes	22
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 1.89 miles (Collection: 1.89 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Mayfield Electric & Water Systems (Thomas Country)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21083015	Mayfield Electric & Water-Southern Mayfield/Graves County Wastewater Collection System Extension	3-5 Years	Not Funded	$1,593,000	Graves		

System Summary for Symsonia Water District

Permit ID	KY0055271	Treats Wastewater	Yes, 0.1 MGD with 0.07 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	267
Owner Type	Water District (KRS 74)	KISOP Sender	No
Employees	5	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$28.21	Total KISOP Treated (MG)	-
Residential Customers	252	Total Treated (MG)	39.600
Commercial Customers	15	Number of Manholes	31
Institutional Customers	-	Number of Lift Stations	4
Industrial Customers	-	Percent Lines 20 yrs or Older	90%
KISOP Customers	-	Has Facility Plan	Yes, 0% Constructed
Total Collection System Line Length = 8.26 miles (Collection: 7.19 miles, Interceptors: 1.07 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Symsonia Water District

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21083031	Symsonia-KY 534 Extension	3-5 Years	Not Funded	$135,000	Graves	10	1
SX21083005	Symsonia Water District- KY131 Liftstation Relocation	6-10 Years	Not Funded	$200,000	Graves		

System Summary for Wingo Water & Sewer System

Permit ID	KY0025852	Treats Wastewater	Yes, 0.07 MGD with 0.06 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	259
Owner Type	Incorporated City	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$21.50	Total KISOP Treated (MG)	-
Residential Customers	238	Total Treated (MG)	24.000
Commercial Customers	21	Number of Manholes	95
Institutional Customers	-	Number of Lift Stations	3
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 100% Constructed
Total Collection System Line Length = 5.98 miles (Collection: 5.88 miles, Interceptors: 0.10 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Wingo Water & Sewer System

Hickman County

- 2010 census population of 4,902 (2,342 households) with 27% serviceable.
- Projected 2020 population of 4,625 (change of -277).
- Hickman County has 18.00 miles of existing sewer lines.
- There are no line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- There are no interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $850,000.
- There are no projects planned from 6 to 10 years.



Hickman County has a 2010 census population count of 4,902 (2,342 households) with a projected 2020 population count of 4,625 (1,938 households). Public sewer is currently available to approximately 27 percent of the county's households based on 2010 census counts. Over the next ten years approximately 651 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Clinton	2	$850,000	-	651	-	2.00	-
Totals:	**2**	**$850,000**	**-**	**651**	**-**	**2.00**	**-**

Public Wastewater Systems in Hickman County

Note: Serviceability counts are for households within Hickman county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0025275	Clinton Sewer	Hickman	1,274	626
		Totals:	1,274	626

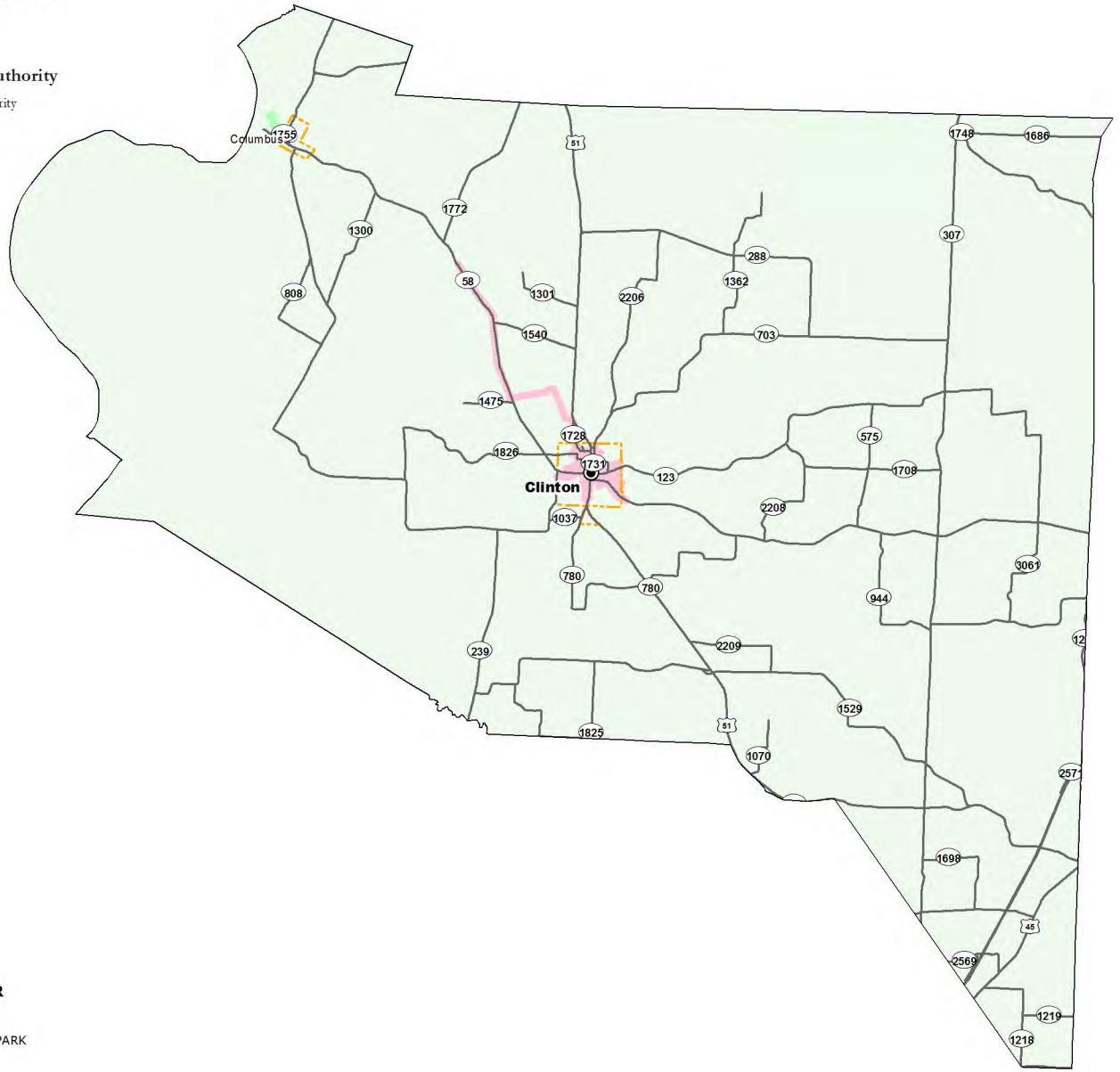
SEWER SERVICE AREAS
HICKMAN COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
Frankfort, KY 40601
(502) 573-0260
http://kia.ky.gov

March, 2013

Water Resource Information System



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SEWER SERVICE BY OWNER

- CLINTON SEWER
- COLUMBUS-BELMONT STATE PARK

System Summary for Clinton Sewer

Permit ID	KY0025275	Treats Wastewater	Yes, 0.35 MGD with 0.73 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	626
Owner Type	Incorporated City	KISOP Sender	No
Employees	2	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$29.80	Total KISOP Treated (MG)	-
Residential Customers	527	Total Treated (MG)	48.000
Commercial Customers	81	Number of Manholes	124
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	Yes, 80% Constructed
Total Collection System Line Length = 14.28 miles (Collection: 10.73 miles, Interceptors: 3.55 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Clinton Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21105005	City of Clinton- Hwy 58 Line Replacement	3-5 Years	Not Funded	$250,000	Hickman	13	1
SX21105006	City of Clinton- Replace Force Main to Lagoon	3-5 Years	Not Funded	$600,000	Hickman	22	2

McCracken County

- 2010 census population of 65,565 (31,079 households) with 70% serviceable.
- Projected 2020 population of 66,621 (change of 1,056).
- McCracken County has 397.20 miles of existing sewer lines.
- 1.00 miles of line extensions proposed in the next 10 years.
- 2.00 miles of line rehabilitation proposed in the next 10 years.
- 4.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $26,585,659.
- Estimated funding needs for projects from 6 to 10 years: $6,088,000.



McCracken County has a 2010 census population count of 65,565 (31,079 households) with a projected 2020 population count of 66,621 (29,278 households). Public sewer is currently available to approximately 70 percent of the county's households based on 2010 census counts. Over the next ten years approximately 34,604 serviceable households will be added through the construction of 1.00 miles of sewer line extensions and approximately 166 instances of improved service through the rehabilitation of 2.00 miles of existing sewer lines and other appurtenances. 4.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
Joann Estates Utilities Inc	1	$400,000	-	-	-	-	-
Paducah McCracken County Joint Sewer Agency	26	$29,573,659	34,594	166	1.00	2.00	-
Purchase Public Service Corporation	2	$2,700,000	10	-	-	-	4.00
Totals:	**29**	**$32,673,659**	**34,604**	**166**	**1.00**	**2.00**	**4.00**

Public Wastewater Systems in McCracken County

Note: Serviceability counts are for households within McCracken county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0080845	Marshall County Environmental Services (Great Oaks)	McCracken	522	178
KY0022799	Paducah McCracken County Joint Sewer Agency (Paducah)	McCracken	34,452	17,326
KY0025810	Paducah McCracken County Joint Sewer Agency (Reidland)	McCracken	4,635	2,048
KY0025828	Paducah McCracken County Joint Sewer Agency (Woodlawn)	McCracken	4,467	2,091
		Totals:	44,076	21,643

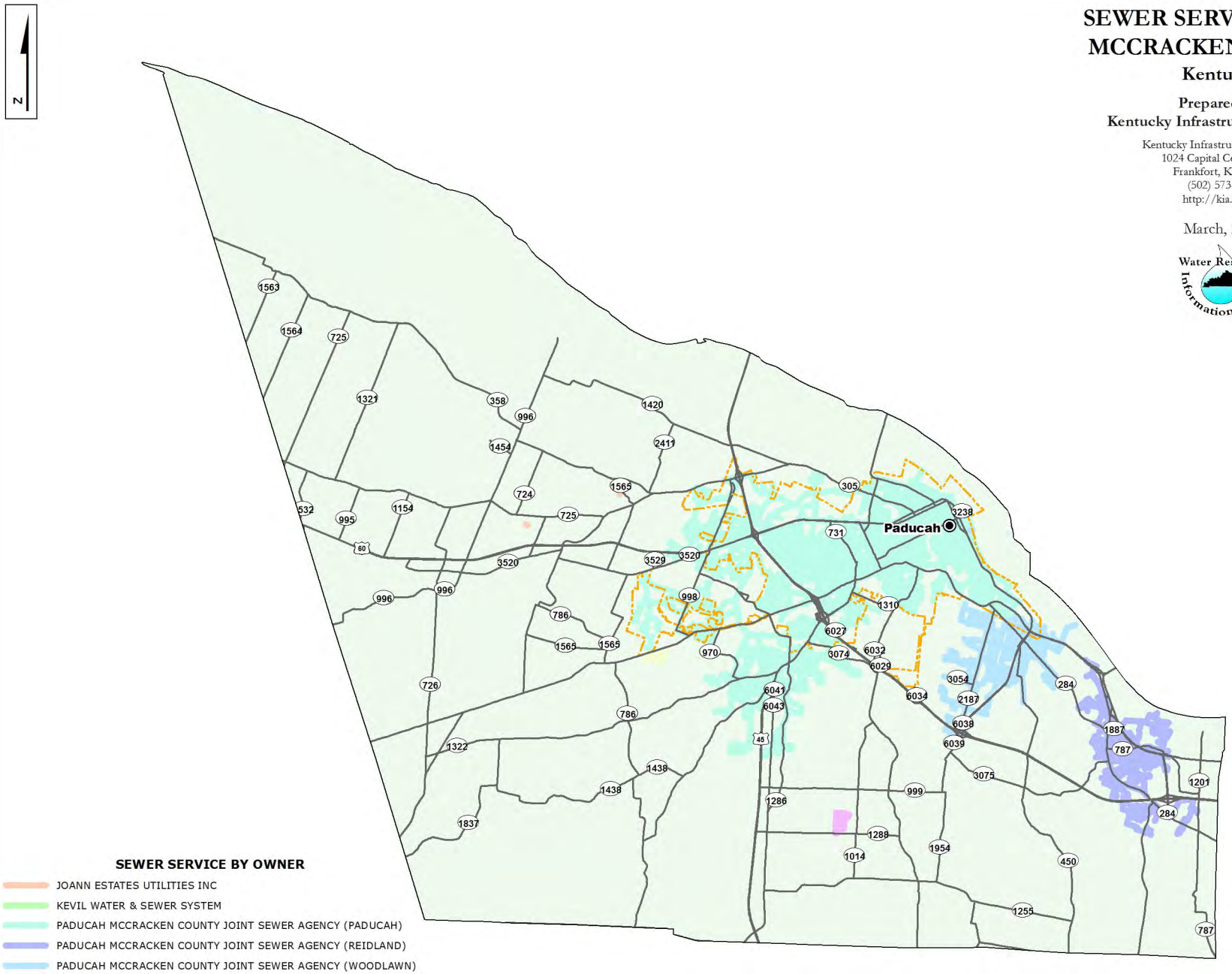
SEWER SERVICE AREAS
MCCRACKEN COUNTY
Kentucky

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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER

- JOANN ESTATES UTILITIES INC
- KEVIL WATER & SEWER SYSTEM
- PADUCAH MCCRACKEN COUNTY JOINT SEWER AGENCY (PADUCAH)
- PADUCAH MCCRACKEN COUNTY JOINT SEWER AGENCY (REIDLAND)
- PADUCAH MCCRACKEN COUNTY JOINT SEWER AGENCY (WOODLAWN)
- PURCHASE PUBLIC SERVICE CORPORATION (BLANDVILLE)
- PURCHASE PUBLIC SERVICE CORPORATION (GREAT OAKS)

System Summary for Joann Estates Utilities Inc

Permit ID	KY0045250	Treats Wastewater	Yes, 0.025 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$34.71	Total KISOP Treated (MG)	-
Residential Customers	205	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No

Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Joann Estates Utilities Inc

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21145174	Joann Estates Utilities Inc - System Rehab	3-5 Years	Not Funded	$400,000	McCracken		

System Summary for Joann Estates Utilities Inc

Permit ID	KY0078336	Treats Wastewater	Yes, 0.0399 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$34.71	Total KISOP Treated (MG)	-
Residential Customers	63	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	30
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.07 miles (Collection: 0.00 miles, Interceptors: 0.07 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Joann Estates Utilities Inc

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21145174	Joann Estates Utilities Inc - System Rehab	3-5 Years	Not Funded	$400,000	McCracken		

System Summary for Joann Estates Utilities Inc

Permit ID	KY0083755	Treats Wastewater	Yes, 0.025 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$34.71	Total KISOP Treated (MG)	-
Residential Customers	70	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	30
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.05 miles (Collection: 0.00 miles, Interceptors: 0.05 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Joann Estates Utilities Inc

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21145174	Joann Estates Utilities Inc - System Rehab	3-5 Years	Not Funded	$400,000	McCracken		

System Summary for Magruder Village Water Corp

Permit ID	KY0083577	Treats Wastewater	Yes, 0.0075 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	-	Total KISOP Treated (MG)	-
Residential Customers	-	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	0%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Magruder Village Water Corp

System Summary for Marshall County Environmental Services (Great Oaks)

Permit ID	KY0080845	Treats Wastewater	Yes, 0.07 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	157
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$28.84	Total KISOP Treated (MG)	-
Residential Customers	161	Total Treated (MG)	14.510
Commercial Customers	-	Number of Manholes	19
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	50%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 2.54 miles (Collection: 2.54 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Marshall County Environmental Services (Great Oaks)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21145080	PPSC-Great Oaks-JSA Interconnect	3-5 Years	Not Funded	$2,500,000	McCracken		
SX21145175	Great Oaks Subdivision Treatment Plant Rehab	3-5 Years	Not Funded	$200,000	McCracken		

System Summary for Paducah McCracken County Joint Sewer Agency (Paducah)

Permit ID	KY0022799	Treats Wastewater	Yes, 9 MGD with 6.2 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	14,243
Owner Type	Joint Sewer Agency	KISOP Sender	No
Employees	28	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$17.40	Total KISOP Treated (MG)	-
Residential Customers	14,242	Total Treated (MG)	3,470.000
Commercial Customers	-	Number of Manholes	4000
Institutional Customers	-	Number of Lift Stations	46
Industrial Customers	-	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	Yes, 50% Constructed
Total Collection System Line Length = 308.82 miles (Collection: 273.05 miles, Interceptors: 35.77 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Paducah McCracken County Joint Sewer Agency (Paducah)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21145037	Paducah-Mccracken JSA-Terrell St. Phase I CSO Abatement Project	3-5 Years	Not Funded	$3,705,000	McCracken		
SX21145056	Paducah-Mccracken JSA-Cross Creek N. Ph. I CSO Abatement Project-North of R.R.	3-5 Years	Not Funded	$2,850,000	McCracken		
SX21145055	Paducah-Mccracken JSA-Cross Creek E. Ph. I CSO Abatement-East of Railroad	3-5 Years	Not Funded	$2,750,000	McCracken		
SX21145153	Paducah-Mccracken JSA-CSO 012 Discharge Abatement	3-5 Years	Partially Funded	$2,451,500	McCracken		
SX21145150	Paducah-Mccracken JSA-CSO Plan Ph. II	6-10 Years	Not Funded	$1,524,000	McCracken		
SX21145151	Paducah-Mccracken JSA-CSO Plan Ph. III	6-10 Years	Not Funded	$1,524,000	McCracken		
SX21145098	Paducah-Mccracken JSA-Cross Creek N. Ph. II CSO Abatement Project	6-10 Years	Not Funded	$1,190,000	McCracken		
SX21145011	Paducah-Mccracken JSA- Husbands St. L.S. Phase I CSO Abatement Project	3-5 Years	Not Funded	$1,100,000	McCracken		
SX21145065	Paducah-Mccracken JSA-Husbands St. L.S. Ph. II CSO Abatement Project	3-5 Years	Not Funded	$1,060,000	McCracken		
SX21145097	Paducah-Mccracken JSA-Cross Creek E. Ph. II CSO Abatement Project	6-10 Years	Not Funded	$955,000	McCracken		
SX21145005	Paducah JSA- Bridge Street CSO Separation	3-5 Years	Not Funded	$802,500	McCracken		
SX21145032	Paducah-Mccracken JSA-Phase I Paxton Park CSO Abatement Project	3-5 Years	Not Funded	$600,000	McCracken		
SX21145006	Paducah McCracken JSA- Extension to James Marine	0-2 Years	Not Funded	$532,100	McCracken		
SX21145154	Paducah-Mccracken JSA-CSO 004 Discharge Abatement	6-10 Years	Not Funded	$500,000	McCracken		
SX21145152	Paducah-Mccracken JSA-CSO Plan Ph. IV	6-10 Years	Not Funded	$395,000	McCracken		
SX21145168	Paducah-Mccracken JSA-Flow Modeling/Classification	3-5 Years	Not Funded	$300,000	McCracken		
SX21145010	Paducah McCracken Co JSA - Chickadee Pump Station Elimination Pr	0-2 Years	Not Funded	$300,000	McCracken		
SX21145009	Paducah McCracken JSA-Gatewood Drive Pump Station Elimination Pr	0-2 Years	Not Funded	$250,000	McCracken		

System Summary for Paducah McCracken County Joint Sewer Agency (Reidland)

Permit ID	KY0025810	Treats Wastewater	Yes, 1 MGD with 0.4 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,785
Owner Type	Joint Sewer Agency	KISOP Sender	No
Employees	28	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$17.40	Total KISOP Treated (MG)	-
Residential Customers	1,785	Total Treated (MG)	183.000
Commercial Customers	-	Number of Manholes	500
Institutional Customers	-	Number of Lift Stations	20
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 30% Constructed
Total Collection System Line Length = 39.04 miles (Collection: 34.06 miles, Interceptors: 4.98 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Paducah McCracken County Joint Sewer Agency (Reidland)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21145015	Reidland Collection System Above Ground Storage Tank	3-5 Years	Not Funded	$2,385,000	McCracken	1	1
SX21145001	Paducah JSA- Reidland Collection System Inline Storage	0-2 Years	Partially Funded	$575,000	McCracken		

System Summary for Paducah McCracken County Joint Sewer Agency (Woodlawn)

Permit ID	KY0025828	Treats Wastewater	Yes, 0.91 MGD with 0.75 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,070
Owner Type	Joint Sewer Agency	KISOP Sender	No
Employees	28	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$17.40	Total KISOP Treated (MG)	-
Residential Customers	2,070	Total Treated (MG)	495.000
Commercial Customers	-	Number of Manholes	620
Institutional Customers	-	Number of Lift Stations	15
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 30% Constructed
Total Collection System Line Length = 46.68 miles (Collection: 30.89 miles, Interceptors: 15.80 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Paducah McCracken County Joint Sewer Agency (Woodlawn)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21145044	Paducah-Mccracken JSA-Woodlawn WWTP Phase I	3-5 Years	Not Funded	$1,250,000	McCracken		
SX21145052	Paducah-Mccracken JSA-Champion Creek L.S. Project	3-5 Years	Not Funded	$1,244,559	McCracken		
SX21145002	Paducah JSA- Woodlawn Collection System Inline Storage	3-5 Years	Partially Funded	$575,000	McCracken		
SX21145008	Paducah-McCracken JSA- Cook Street Overflow Tank	0-2 Years	Not Funded	$500,000	McCracken		

System Summary for Terreverte Estates

Permit ID	KY0033782	Treats Wastewater	Yes, 0.0396 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	-
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$16.74	Total KISOP Treated (MG)	-
Residential Customers	61	Total Treated (MG)	-
Commercial Customers	-	Number of Manholes	0
Institutional Customers	-	Number of Lift Stations	0
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.00 miles (Collection: 0.00 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

There are no immediate projects for Terreverte Estates

Marshall County

- 2010 census population of 31,448 (15,748 households) with 25% serviceable.
- Projected 2020 population of 33,023 (change of 1,575).
- Marshall County has 127.36 miles of existing sewer lines.
- 12.00 miles of line extensions proposed in the next 10 years.
- 11.00 miles of line rehabilitation proposed in the next 10 years.
- 1.00 miles of interceptor lines proposed in the next 10 years.
- Estimated funding needs for projects from 0 to 5 years: $10,667,475.
- Estimated funding needs for projects from 6 to 10 years: $750,000.



Marshall County has a 2010 census population count of 31,448 (15,748 households) with a projected 2020 population count of 33,023 (14,122 households). Public sewer is currently available to approximately 25 percent of the county's households based on 2010 census counts. Over the next ten years approximately 243 serviceable households will be added through the construction of 12.00 miles of sewer line extensions and approximately 785 instances of improved service through the rehabilitation of 11.00 miles of existing sewer lines and other appurtenances. 1.00 miles of interceptor lines are also proposed within this county.

Project Cost Summary (Approved, 0-10 Years)

Project Applicant	Project Count	Total Cost	Households Affected		New Lines (miles)	Rehab Lines (miles)	Interceptor Lines (miles)
			Unserved	Underserved			
City of Benton	1	$285,300	-	250	-	3.00	-
City of Calvert City	13	$5,862,875	100	467	8.00	7.00	-
City of Hardin	1	$1,001,000	-	-	-	-	-
Marshall County Sanitation District #1	1	$550,000	-	38	-	-	-
Marshall County Sanitation District #2	1	$3,312,000	143	-	4.00	-	1.00
Purchase Public Service Corporation	1	$406,300	-	30	-	1.00	-
Totals:	**18**	**$11,417,475**	**243**	**785**	**12.00**	**11.00**	**1.00**

Public Wastewater Systems in Marshall County

Note: Serviceability counts are for households within Marshall county only.

KPDES	System Name	Primary County	Serviceable Counts	
			Population	Households
KY0021172	Benton Water & Sewer System	Marshall	4,765	2,211
KY0021130	Calvert City Municipal Water & Sewer	Marshall	2,424	1,100
KY0021016	Hardin Sewer System	Marshall	681	317
KY0044164	Marshall County Environmental Services (Golden Acres)	Marshall	69	34
KY0024546	Marshall County Sanitation District #1	Marshall	97	71
KY0044181	Marshall County Sanitation District #2	Marshall	284	130
		Totals:	8,320	3,863

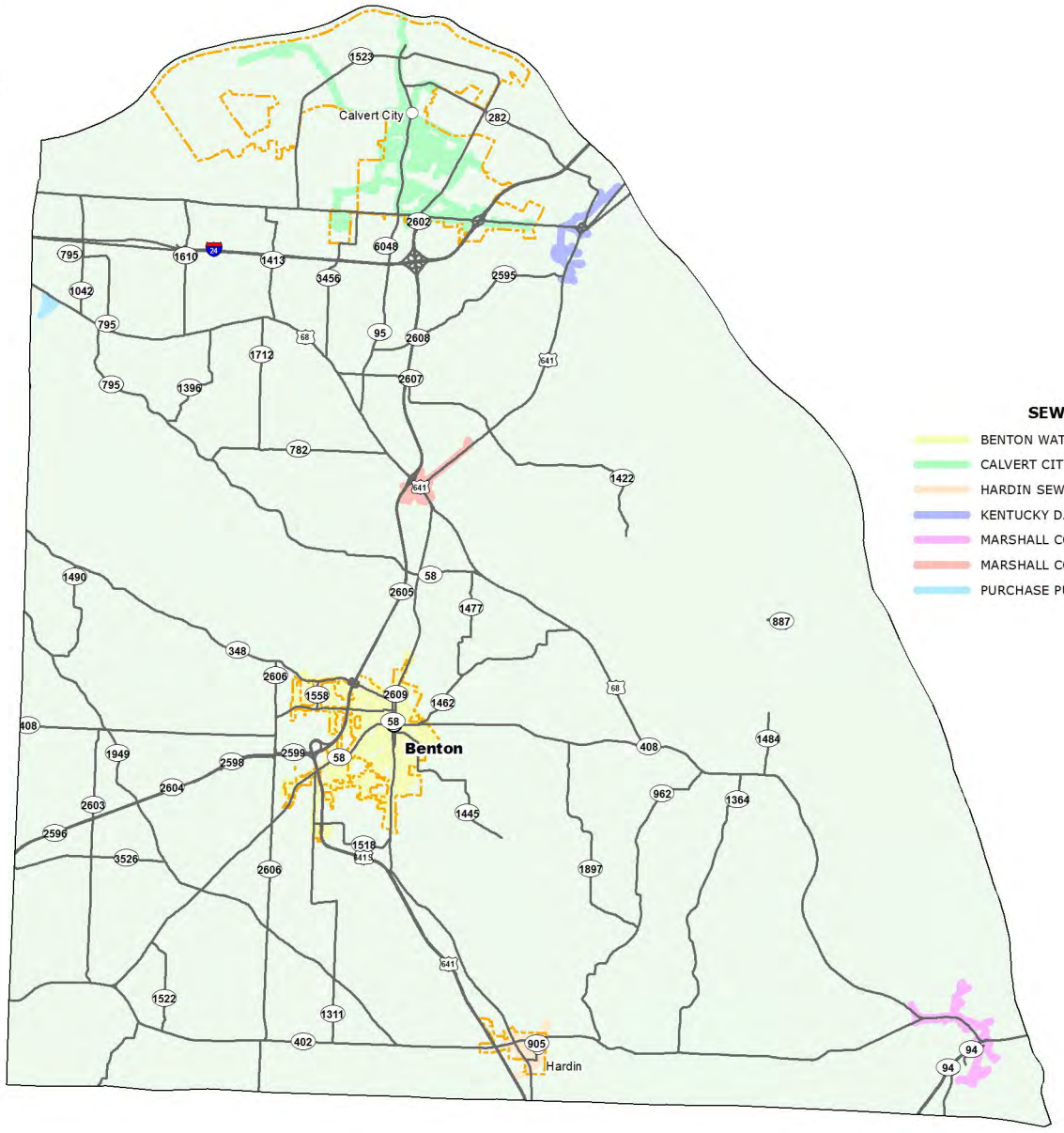
SEWER SERVICE AREAS
MARSHALL COUNTY
Kentucky

Prepared By:
Kentucky Infrastructure Authority

Kentucky Infrastructure Authority
1024 Capital Center Drive
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March, 2013

Water Resource Information System



SEWER SERVICE BY OWNER

- BENTON WATER & SEWER SYSTEM
- CALVERT CITY MUNICIPAL WATER & SEWER
- HARDIN SEWER SYSTEM
- KENTUCKY DAM VILLAGE STATE RESORT PARK
- MARSHALL COUNTY SANITATION DISTRICT #1
- MARSHALL COUNTY SANITATION DISTRICT #2
- PURCHASE PUBLIC SERVICE CORPORATION (GOLDEN ACRES)

N

System Summary for Benton Water & Sewer System

Permit ID	KY0021172	Treats Wastewater	Yes, 1 MGD with 0.34 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	2,077
Owner Type	Incorporated City	KISOP Sender	No
Employees	8	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$18.50	Total KISOP Treated (MG)	-
Residential Customers	1,750	Total Treated (MG)	379.500
Commercial Customers	283	Number of Manholes	887
Institutional Customers	-	Number of Lift Stations	16
Industrial Customers	-	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 5% Constructed
Total Collection System Line Length = 59.11 miles (Collection: 53.56 miles, Interceptors: 5.55 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Benton Water & Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21157019	City of Benton- Collection System Rehab Phase II	0-2 Years	Not Funded	$285,300	Marshall		

System Summary for Calvert City Municipal Water & Sewer

Permit ID	KY0021130	Treats Wastewater	Yes, 0.39 MGD with 0.21 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	1,034
Owner Type	Incorporated City	KISOP Sender	No
Employees	8	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$23.56	Total KISOP Treated (MG)	-
Residential Customers	883	Total Treated (MG)	130.000
Commercial Customers	134	Number of Manholes	300
Institutional Customers	2	Number of Lift Stations	22
Industrial Customers	2	Percent Lines 20 yrs or Older	80%
KISOP Customers	-	Has Facility Plan	Yes, 4% Constructed

Total Collection System Line Length = 43.59 miles (Collection: 26.20 miles, Interceptors: 17.39 miles).

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Calvert City Municipal Water & Sewer

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21157001	City of Calvert City-Phase II Colorado Street Sewers	3-5 Years	Not Funded	$195,000	Marshall	28	3
SX21157027	City of Calvert City-Phase I Ext. With Low Pressure Grinder Pump	3-5 Years	Not Funded	$100,000	Marshall	31	5
SX21157017	Calvert City Wastewater Plant Upgrade	3-5 Years	Not Funded	$2,000,000	Marshall		
SX21157031	Calvert City Sewer - Riverport Sewer Line Extension	0-2 Years	Partially Funded	$900,000	Marshall		
SX21157025	City of Calvert City-Phase III Sewer Rehab	6-10 Years	Not Funded	$750,000	Marshall		
SX21157036	City of Calvert City-Phase IV Sewer Rehab	3-5 Years	Not Funded	$450,000	Marshall		
SX21157004	City of Calvert City-Phase IV-Colorado Street Sewer	3-5 Years	Not Funded	$359,000	Marshall		
SX21157000	City of Calvert City-A Avenue, B Avenue, and Beech Street Sewer Extension	3-5 Years	Not Funded	$247,375	Marshall		
SX21157006	City of Calvert City-Sewers On KY-95 and KY-282	3-5 Years	Not Funded	$200,000	Marshall		
SX21157028	City of Calvert City-Phase II Ext. With Low Pressure Grinder Pump	3-5 Years	Not Funded	$200,000	Marshall		
SX21157007	City of Calvert City-Horace Barnes Road Sewers	3-5 Years	Not Funded	$180,000	Marshall		
SX21157003	City of Calvert City-Phase III-Colorado Street Sewers	3-5 Years	Not Funded	$154,000	Marshall		
SX21157021	City of Calvert City-Riley Circle Road Sewer Extension	3-5 Years	Not Funded	$127,500	Marshall		

System Summary for Hardin Sewer System

Permit ID	KY0021016	Treats Wastewater	Yes, 0.14 MGD with 0.05 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	233
Owner Type	Incorporated City	KISOP Sender	No
Employees	4	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$15.36	Total KISOP Treated (MG)	-
Residential Customers	226	Total Treated (MG)	40.515
Commercial Customers	7	Number of Manholes	30
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	95%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 5.16 miles (Collection: 5.16 miles, Interceptors: 0.00 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Hardin Sewer System

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21157034	Hardin - Wastewater Rehabilitation Phase II	3-5 Years	Not Funded	$1,001,000	Marshall	27	4

System Summary for Marshall County Environmental Services (Golden Acres)

Permit ID	KY0044164	Treats Wastewater	Yes, 0.025 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	35
Owner Type	Investor-Owned (Private For-Profit)	KISOP Sender	No
Employees	-	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$39.57	Total KISOP Treated (MG)	-
Residential Customers	35	Total Treated (MG)	3.250
Commercial Customers	-	Number of Manholes	7
Institutional Customers	-	Number of Lift Stations	1
Industrial Customers	-	Percent Lines 20 yrs or Older	75%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 0.90 miles (Collection: 0.85 miles, Interceptors: 0.05 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Marshall County Environmental Services (Golden Acres)

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21157005	Purchase Public Service Corp (Golden Acres)-Collection System Rehab and WWTP Rehab	3-5 Years	Not Funded	$406,300	Marshall		

System Summary for Marshall County Sanitation District #1

Permit ID	KY0024546	Treats Wastewater	Yes, 0.16 MGD with 0 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	38
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	3	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$22.50	Total KISOP Treated (MG)	-
Residential Customers	12	Total Treated (MG)	5.619
Commercial Customers	26	Number of Manholes	40
Institutional Customers	-	Number of Lift Stations	20
Industrial Customers	-	Percent Lines 20 yrs or Older	100%
KISOP Customers	-	Has Facility Plan	No
Total Collection System Line Length = 8.15 miles (Collection: 4.92 miles, Interceptors: 3.23 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Marshall County Sanitation District #1

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21157030	Marshall SD 1-Liftstation Repair/Replacement & WWTP Upgrades	0-2 Years	Partially Funded	$550,000	Marshall	4	1

System Summary for Marshall County Sanitation District #2

Permit ID	KY0044181	Treats Wastewater	Yes, 0.15 MGD with 0.05 MGD Ave.
System Type	KPDES Public Wastewater	Total Connections	119
Owner Type	Sewer and Sanitation District	KISOP Sender	No
Employees	1	Total KISOP Sent (MG)	-
Cost Per 4000 Gallons	$60.00	Total KISOP Treated (MG)	-
Residential Customers	67	Total Treated (MG)	21.930
Commercial Customers	51	Number of Manholes	80
Institutional Customers	1	Number of Lift Stations	7
Industrial Customers	-	Percent Lines 20 yrs or Older	20%
KISOP Customers	-	Has Facility Plan	Yes, 25% Constructed
Total Collection System Line Length = 5.49 miles (Collection: 4.86 miles, Interceptors: 0.64 miles).			

MG = Million Gallons.
MGD = Million Gallons per Day.

Project Summary (Top 18 Approved, 0-5 years) for Marshall County Sanitation District #2

PNUM	Project Title	Schedule	Funding Status	Project Cost	Primary County	Regional Ranking	Local Ranking
SX21157035	Marshall Co. Sanitation District #2 - Ext. to Marshall Co. High	3-5 Years	Not Funded	$3,312,000	Marshall	2	2

Appendix A - Counties by Area Development District

County	ADD
Adair	LCADD
Allen	BRADD
Anderson	BGADD
Ballard	PUADD
Barren	BRADD
Bath	GWADD
Bell	CVADD
Boone	NKADD
Bourbon	BGADD
Boyd	FIVCO
Boyle	BGADD
Bracken	BTADD
Breathitt	KRADD
Breckinridge	LTADD
Bullitt	KIPDA
Butler	BRADD
Caldwell	PEADD
Calloway	PUADD
Campbell	NKADD
Carlisle	PUADD
Carroll	NKADD
Carter	FIVCO
Casey	LCADD
Christian	PEADD
Clark	BGADD
Clay	CVADD
Clinton	LCADD
Crittenden	PEADD
Cumberland	LCADD
Daviess	GRADD
Edmonson	BRADD
Elliott	FIVCO
Estill	BGADD
Fayette	BGADD
Fleming	BTADD
Floyd	BSADD
Franklin	BGADD
Fulton	PUADD
Gallatin	NKADD
Garrard	BGADD

County	ADD
Grant	NKADD
Graves	PUADD
Grayson	LTADD
Green	LCADD
Greenup	FIVCO
Hancock	GRADD
Hardin	LTADD
Harlan	CVADD
Harrison	BGADD
Hart	BRADD
Henderson	GRADD
Henry	KIPDA
Hickman	PUADD
Hopkins	PEADD
Jackson	CVADD
Jefferson	KIPDA
Jessamine	BGADD
Johnson	BSADD
Kenton	NKADD
Knott	KRADD
Knox	CVADD
Larue	LTADD
Laurel	CVADD
Lawrence	FIVCO
Lee	KRADD
Leslie	KRADD
Letcher	KRADD
Lewis	BTADD
Lincoln	BGADD
Livingston	PEADD
Logan	BRADD
Lyon	PEADD
McCracken	PUADD
McCreary	LCADD
McLean	GRADD
Madison	BGADD
Magoffin	BSADD
Marion	LTADD
Marshall	PUADD
Martin	BSADD

County	ADD
Mason	BTADD
Meade	LTADD
Menifee	GWADD
Mercer	BGADD
Metcalfe	BRADD
Monroe	BRADD
Montgomery	GWADD
Morgan	GWADD
Muhlenberg	PEADD
Nelson	LTADD
Nicholas	BGADD
Ohio	GRADD
Oldham	KIPDA
Owen	NKADD
Owsley	KRADD
Pendleton	NKADD
Perry	KRADD
Pike	BSADD
Powell	BGADD
Pulaski	LCADD
Robertson	BTADD
Rockcastle	CVADD
Rowan	GWADD
Russell	LCADD
Scott	BGADD
Shelby	KIPDA
Simpson	BRADD
Spencer	KIPDA
Taylor	LCADD
Todd	PEADD
Trigg	PEADD
Trimble	KIPDA
Union	GRADD
Warren	BRADD
Washington	LTADD
Wayne	LCADD
Webster	GRADD
Whitley	CVADD
Wolfe	KRADD
Woodford	BGADD