1 Regional Planning Agency Information

Regional Planning Agency Name	Grant County Sanitary Sewer District
Mailing Address	Grant County Sanitary Sewer District
	P.O. Box 460
City	Crittenden State Ky Zip 41030
Physical Address (if different)	Grant County Sanitary Sewer District
	1 Farrell dr
City	Crittenden Ky Zip 41030
Contact Person	William L Catlett / Ernie Ryan
Title	Superintendant / Sewer Supervisor
Telephone Number	1859 428-3060
Fax Number	1859 428-1293
E-mail Address	dcook@bpwd.org
Website	www.gc-ssd.org
KPDES/KISOP Number	KY0091634

Name of watershed(s) within the planning area	Hydrological Unit Code (HUC) 10
Kentucky lake	051002

Waterbodies within the planning area listed as impaired waters in the *Integrated Report to Congress on Water Quality in Kentucky.*

Ten Mile , Eagle Creek

2 Discharge Information

Discharge Type (e.g. discharge to another facility, subsurface discharge, outfall to surface waters, reuse)

outfall to surface waters

Name of Receiving Water(s)	Milepoint	or Latitude and Longitude	
Ten Mile Creek		84*37'23.7"W	38*45'15.9"N

Does the WWTP discharge its effluent in another manner besides directly to a stream (e.g. land application, underground percolation, hydrologic controlled release [HCR], well injection)? If yes, provide method.	yes directly into ten mile creek
Does the system discharge to or receive wastewater from other municipalities or service area? Provide applicable names and KPDES and/or KISOP permit numbers.	No

3. Facility Effluent Treatment Level

What levels of treatment are provided? Check all that apply.

- ☐ Preliminary
- ☑ Primary
- ☐ Other Describe:
- ☑ Secondary
- ☑ Advanced
- ☐ Other Describe:

Projected (Indicate the level of treatment and projected date): N/A | N/A

4. Facility Type

Facility Type	Present	Projected
Treatment Plant	☑	☐
Collection sytem	☑	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐

5. Flow (Indicate Projected Flows Based on a Reasonable Time Period)

	Present	Projected in 10 years
a. Design Flow Rate (mgd)	0.3	0.35

	2 Yrs Ago	Last Year	This Year
b. Annual average daily flow rate (mgd)	0.186	0.188	0.19
c. Maximum (Peak) daily flow rate (mgd)	0.231	0.223	0.249

d. Average daily flow projected in 10 years (mgd): 0.225

e. Average inflow & Infiltration. Estimates should be based on most recent data (mgd): 0.021

	Present	Projected in 10 years
f. Residential flow contribution (mgd)	0.168	0.193
Commercial/industrial flow contribution (mgd) (Projections should be based on 1,000 to 1,500 gallons per day/acre)	0.02	0.024
Population served (persons) (Calculations should be based on Census data specific to the service area or No. of accounts X 2.5)	3933	4010
Unserved population in the planning area	375	250

Does the system have a pretreatment program? Yes ☐ No ☑

3 REVENUES AND EXPENSES

	Year	Month
1. Current Fiscal Year and First Month of the Fiscal Year	2018	December
2. Median Household Income (MHI) of the Service Area	$ 48,503	
	Residential	Commercial
3. Current User Charge Per Month per 4,000 gallons	$ 37.56	$ 39.81
	Residential	Commercial
4. Projected User Charge Per Mo. Over Next Two Years per 4,000 gal $	37.81	$ 37.81

5. Annual Revenues

Enter Expected Future Changes in Revenues (in current year dollars)

	Current Year	Year 2019	Year 2020	Year 2021	Year 2022	Year 2023
Total retail user charges	698956	701650	704350	707050	709750	712450
Total wholesale user charges	N/A	N/A	N/A	N/A	N/A	N/A
Interest earned	1972	2000	2000	2000	2000	2000
Funds drawn from reserves	N/A	N/A	N/A	N/A	N/A	N/A
Other revenues (tap-on fees, impact fees, etc.)	54709	6000	6000	6000	6000	6000
TOTAL	$755,637	$709,650	$712,350	$715,050	$717,750	$720,450

6. Annual Expenses

Enter Expected Future Changes in Expenses (in current year dollars)

	Current Year	Year 2019	Year 2020	Year 2021	Year 2022	Year 2023
Salaries, wages, benefits	6351	6460	6460	6460	6460	6460
Supplies, equipment, chemicals	140,035	68925	64025	78125	65225	81325
Repairs and parts	28743	28800	28800	28800	28800	28800
Utilities	Electric	Electric	Electric	Electric	Electric	Electric
	87188	82200	82200	82200	82200	82200
	Water	Water	Water	Water	Water	Water
	5595	6200	6200	6200	6200	6200
	Gas	Gas	Gas	Gas	Gas	Gas
Payments to other facilities	191338	228860	228860	228860	228860	228860
Funds added to reserves	21567	19621	26676	6094	21234	83452
Debt service	190824	190824	190824	200261	200,176	124813
Other expenses	83996	77760	78305	78050	78595	78340
TOTAL	$755,637	$709,650	$712,350	$715,050	$717,750	$720,450

	Collection System: Gravity Pipes & Manholes - Existing						
	Description	Description of Manholes (diameter, material, lid type)	Pipe Length Feet	Pipe Size Inches	Pipe Material	Year Installed	As Condition
Colum	Column2	Column3	Column4	Column5	Column6	Column7	Column8
1	6" Gravity main		22096	6"	PVC	1989	3
2	8" Gravity main		53508	8"	PVC	1989	3
3	10" Gravity main		2270	10"	PVC	2004	4
4	12" Gravity main		4594	12"	PVC	2004	4
5	8" Gravity main (Ductile)		475	8"	Ductile	1989	3
6	4" Gravity		4500	4"	Cast Iron	1980	2
7	8" Gravity main		8543	8"	PVC	2004	4
8	6" Gravity main		8100	6"	PVC	2004	4
9	8" Gravity main		23755	8"	PVC	1995	4
10	328 Manholes (original project)	4' concrete manholes with cast lids				1989	3
11	164 manholes (1995 projects)	4' concrete manholes with cast lids				1995	4
12	47 manholes (2004 &2014)	4' concrete manholes with cast lids				2004	5
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							

Collection System Gravity Pipes and Manholes - Proposed Projects

	Proposed Project Title	Project Description	Type: Extension	Type: Rehab	Type: Replace	Type: Abandon	Number of New Manholes	Pipe Length Feet	Pipe Size Inches	Pipe Material	Year Planned	If Known: Manufacturer's Predicted Life Years	If Known: Estimated Project Cost $	Plans & Specs Approved?	Funding In Place?
Col.	Column 2	Column 3	Col.	Col.	Col.	Col.	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13	Column 14	Column 15	Column 16
1	Russel drive liftstation elimination	Install 650' of 8" gravity main and abandon exsting liftstation				X	1	650	8"	PVC	2022			No	No
2	Kyley Extintion project	Install 3000' of 8" gravity main	X				25	3000	8"	PVC	2021			No	No
3	Violet rd extension	Install 3000' of 8" gravity main	X				25	3000	8"	PVC	2022			No	No
4	Eads rd subdivison	6000' of gravity main	X				50	6000	8"	PVC	2025			No	No
5	Bluegrass estates subdivision	Install 3000' of 8" gravity main	X				25	3000	8"	PVC	2030			No	No
6	491 subdivision (Paul Meyer)	Install 4000' of 8" gravity main	X				35	4000	8"	PVC	2035			No	No
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
32															
33															
34															
35															
36															
37															
38															
39															
40															
41															
42															
43															
44															
45															
46															
47															
48															
49															
50															
51															
52															
53															
54															
55															
56															

Pressure Line/Force Mains and Air-Release Valves - Existing

	Description	Description of AR Valves (size and type)	Pipe Length Feet	Pipe Size Inches	Pipe Material	Year Installed	Assessment Ratings: Condition	Assessment Ratings: Performance	Assessment Ratings: Reliability	Failure Ratings: Consequence	Failure Ratings: Probability	Failure Ratings: Redundancy	Renewal and Maintenance Strategy: Renewal Strategy	Renewal and Maintenance Strategy: Maintenance Strategy	Renewal and Maintenance Strategy: R&M Date	Renewal and Maintenance Strategy: Estimated Cost of R&M Option $
1	1 1/4" HDPE pipe		10560	1 1/4"	HDPE	2004	5	5	5	1	1	2	2	1	Jan-54	232,320
2	1 1/2" HDPE pipe		581	1 1/2"	HDPE	2004	5	5	5	1	1	2	2	1	Jan-54	12,201
3	2" HDPE pipe		7392	2"	HDPE	2004	5	5	5	1	1	2	2	1	Jan-54	134,904
4	3" HDPE pipe		8864	3"	HDPE	2004	5	5	5	1	1	2	2	1	Jan-54	178,464
5	6" HDPE pipe		423	6"	HDPE	2004	5	5	5	2	1	2	2	1	Jan-54	12,690
6	2" PVC		3644	2"	PVC	1995	4	4	4	1	2	2	2	1	Jan-45	41,906
7	3" PVC		13728	3"	PVC	1995	4	4	4	1	2	2	2	1	Jan-45	247,104
8	4" PVC		5835	4"	PVC	2004	5	5	5	1	1	2	2	1	Jan-54	116,700
9	6" PVC		19951	6"	PVC	2004	5	5	5	2	1	2	2	1	Jan-54	498,775
10	8" PVC		7392	8"	PVC	2004	5	5	5	2	1	2	2	1	Jan-54	221,760
11	4" PVC		4725	4"	PVC	1995	4	4	4	1	3	2	2	1	Jan-45	94,500
12	6" PVC		12785	6"	PVC	1989	4	4	4	2	3	2	2	1	Jan-39	319,625
13																
14	2" Vaccum/ Air release	2" Vaccum/ Air release Valvamatic		2"	Cast Iron	1989	3	3	3	1	3	1	8	4		$1500 each
15	2" Vaccum/ Air release	2" Vaccum/ Air release Valvamatic		2"	PVC	2004	4	4	4	1	1	1	8	4		$1500 each
16	2" Vaccum/ Air release	2" Vaccum/ Air release Valvamatic		2"	PVC	2014	5	5	5	1	1	1	8	4		$1500 each
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
32																
33																
34																
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																
62																
63																

Pressure Line/Force Main and Air-Release Valves - Proposed Projects

	Proposed Project Title	Project Description	Type: Expansion	Type: Rehab	Type: Replace	Type: Abandon	Number of New AR Valves	Pipe Length Feet	Pipe Size Inches	Pipe Material	Year Planned	If Known: Manufacturer's Predicted Life Years	If Known: Estimated Project Cost $	Plans & Specs Approved?	Funding In Place?
1	Connection with trailer courts	install liftstations and abandon package plants at Trailer courts				X	12	6500	4"	PVC	2022			No	No
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
32															
33															
34															
35															
36															
37															
38															
39															
40															
41															
42															
43															
44															
45															
46															
47															
48															
49															
50															
51															
52															
53															
54															
55															
56															

	Pump Stations - Existing														
		Type		Total Dynamic Head		Assessment Ratings			Failure Ratings			Renewal and Maintenance Strategy			
	Pump Station Name	(e.g. submersible, centrifugal, etc.)	Capacity gpm	Feet	Year Installed	Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	R&M Date	Estimated Cost of R&M Option $
1	Sherman pump station	submersible	200	91	2011	4	4	4	1	1	1	2	1	Jan-41	20,000
2	Kendrick	submersible	57	153	2011	4	5	5	1	1	1	2	1	Jan-41	20,000
3	Angela	submersible	72	77	2011	4	5	5	1	1	1	2	1	Jan-41	15,000
4	KCA	submersible	255	78	2011	4	5	5	1	1	1	2	1	Jan-41	30,000
5	Clairborne A	submersible	30	75	2011	4	5	5	1	1	1	2	1	Jan-41	15,000
6	Clairborne B	submersible	39	60	2011	4	5	5	1	1	1	2	1	Jan-41	15,000
7	Clairborne	submersible	297	33	2004	4	4	4	1	1	1	2	1	Jan-34	30,000
8	Indian Hill	submersible	80	170		3	4	3	2	3	1	2	2		30,000
9	Greenview	submersible	273	144	1993	4	4	4	1	3	1	2	1	Jan-29	50,000
10	Pinhook	submersible	58	88	1993	3	4	4	1	3	1	2	1	Jan-23	30,000
11	Sayers	submersible	132	95	2003	3	4	4	2	3	1	2	1	Jan-33	40,000
12	Vincent	submersible	21	55	1997	3	4	3	1	4	1	2	1	Jan-27	15,000
13	Russell	centrifugal	135	107	1989	3	3	3	1	4	1	2	1	Jan-19	40,000
14	Miller	submersible	58	72	1998	4	4	4	1	2	1	2	1	Jan-28	40,000
15	Bridgeview	submersible	54	76		4	4	4	1	2	1	2	1		30,000
16	Case	centrifugal	158	108	1989	3	3	3	1	2	1	2	1	Jan-19	40,000
17	Kyley	submersible	28	57		4	4	4	1	2	1	2	1		30,000
18	491	submersible	327	181	2004	4	4	4	1	3	1	2	1	Jan-34	75,000
19	Bradford	submersible	53	97	1995	4	4	4	1	2	1	2	1	Jan-25	30,000
20	Waller	submersible	262	72		3	3	2	2	4	1	2	1		50,000
21	Barley	submersible	55	94	1995	3	3	2	1	4	1	2	1	Jan-25	30,000
22	Wheat	submersible	52	76	1995	3	3	2	1	4	1	2	1		30,000
23	Bingham	submersible	260		2013	5	5	5	1	1	1	2	1	Jan-43	50,000
24	Eads	centrifugal	135	107	1989	3	4	4	1	3	1	2	1	Jan-19	40,000
25															
26															
27															
28															
29															
30															
31															
32															
33															
34															
35															
36															
37															
38															
39															
40															
41															
42															
43															
44															
45															
46															
47															
48															
49															
50															
51															
52															
53															
54															
55															
56															
57															
58															
59															
60															

Pump Stations - Proposed Projects

	Proposed Project Title	Pump Station Name	Type: Expansion	Type: Rehab	Type: Replace	Type: Abandon	Type: e.g. submersible, centrifugal, etc.)	Capacity gpm	Total Dynamic Head Feet	Year Planned	If Known: Manufacturer's Predicted Life Years	If Known: Estimated Project Cost $	Plans & Specs Approved?	Funding In Place?
1	Gouge Liftstation	Gouge Liftstation	X			X	submersible	45 gpm		2025			No	No
2	County Side Liftstation	County Side Liftstation	X			X	submersible	45 gpm		2025			No	No
3	Country living	Country living	X			X	submersible	45 gpm		2025			No	No
4	Sherman mobile home park	Sherman mobile home park	X			X	submersible	45 gpm		2025			No	No
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
32														
33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														
56														
57														
58														

	Treatment Units (Preliminary, Secondary, Disinfection, Advanced, Biosolids, Handling) - Existing													
					Assessment Ratings			Failure Ratings			Renewal and Maintenance Strategy			
	Treatement Units	Unit Process	Numberof Units	Year Installed	Condition	Performance	Reliability	Consequence	Probability	Redundancy	Renewal Strategy	Maintenance Strategy	R&M Date	Estimated Cost of R&M Option $
Colun	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Column9	Column10	Column11	Column12	Column13	Column14	Column15
1	Package Plant #1	Extended aireation basin		1989	3	3	2	5	3	1	6	2	Jan-39	500,000
2	Package Plant #2	Extended aireation basin		1989	3	3	2	5	3	1	6	2	Jan-39	500,000
3	Package Plant #3	Extended aireation basin		2004	4	4	4	3	1	1	2	2	Jan-54	500,000
4	Package Plant #4	Extended aireation basin		2004	4	4	4	3	1	1	2	2	Jan-54	500,000
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
32														
33														
34														
35														
36														
37														
38														
39														
40														
41														
42														
43														
44														
45														
46														
47														
48														
49														
50														
51														
52														
53														
54														
55														
56														
57														
58														
59														
60														
61														
62														
63														
64														
65														

Treatment Units - Proposed Projects

	Proposed Projects	Treatment Unit	Number of Units	Year Planned	If Known: Manufacturer's Predicted Life Years	If Known: Estimated Project Cost $	Plans & Specs Approved?	Funding In Place?
Column1	Column2	Column3	Column4	Column5	Column6	Column7	Column8	Column9
	Sludge Press with building	Sludge Press	1	2021		250000	No	No
2	External Digester	Digester	1	2021		50000	No	No
3	Larger Contact Tank	handle larger flow	1	2025		50000	No	No
4	Equalization tank	help keep even flow through plant	1	2025		250000	No	No
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								

Project Priorization

	Project Title	Location	Brief Description	Schedule		Cost Estimate	Source of Funding
				Start Date	End Date	$	
Colum	Column2	Column3	Column4	Column5	Column6	Column7	Column8
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							

V. Funding Plan

	Project Title	Overall Project Budget $	Available Funding Amount $	Available Funding Source	Unfunded Amount $
Colum	Column2	Column3	Column4	Column5	Column6
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					

VI. COPIES OF SUPPORTING DOCUMENTATION

All regional planning agencies must provide copies of the supporting documentation listed below. Copies should be attached to this form.

- ☐ 1. Regional planning agency organization chart (including names of members)
- ☐ 2. Sewer use ordinance
- ☐ 3. Current user rate schedule
- ☐ 4. Wastewater system maps- (a) One (1) up-to-date map, suitable for photocopying, should indicate the planning area boundary, service area boundary, watershed boundaries, county boundaries, adjacent populated places, cities and/or towns, surface waterbodies, drinking water supply areas; (b) Up-to-date map(s), suitable for photocopying, including locations of wastewater treatment facilities (including package treatment plant(s)), discharge location(s), collection lines (gravity, force main, interceptors), and pump stations.
- ☐ 5. A list of wastewater systems studies since the last planning update (e.g., Infiltration& inflow reports, CSO reports, sewer system evaluation studies, on-site/cluster system reports, other relevant reports.)

VII. CERTIFICATION. Signature is required to guarantee the validity of the data.

This section must be certified by an elected official (e.g. Mayor, County Judge Executive) **AND** a designated official representing the regional planning agency (e.g. Kentucky licensed professional engineer employed by or under contract with the regional planning agency, Public Works Director, General Manager, Superintendent)

Local Elected Official

I certify the information entered in this form is accurate to the best of my knowledge.

Name: _____

Title: _____

Signature: _____ Date: _____

Designated Official

I certify the information entered in this form is accurate to the best of my knowledge.

Name: _____

Title: _____

Signature: _____ Date: _____

SEND COMPLETED FORMS TO:

Division of Water
Wastewater Municipal Planning Section
300 Sower Boulevard, 3rd Floor
Frankfort, Kentucky 40601

For additional information, call (502) 564-3410.