



2020 SWU ANNUAL REPORT SUMMARY

ACCOUNT FUND BALANCE UNAUDITED TOTALS AS OF 1/20/21

Revenue (includes interest) \$13,319,817

Expenses (including encumbrances) \$6,956,736

STORMWATER UTILITY CUSTOMERS

89% collection rate since the start of the utility in June 2018

NPDES PERMIT COMPLIANCE

PUBLIC ENGAGEMENT

- Public Events and public presentations cancelled due to COVID
- Educational materials available on peoriastormwater.com

POLLUTION CONTROL MEASURES

- Grants were available for private property green infrastructure
- Storm sewer outfall inspections
- Erosion control and volume control ordinances
- Staff training event cancelled due to COVID

WATER QUALITY MONITORING

- 4 sample locations tested quarterly (4 times) per year

ASSET INVENTORY WORK

MAPPING

- 2.77 square miles of the City mapped
- 17.4 miles of pipe surveyed

ASSET MAINTENANCE

STORM SEWER PIPES

- 14,570 feet inspected and rated by TV inspection

PIPES, INLETS & HEADWALLS

- 198 hours of staff time spent cleaning inlet tops
- 72 hours of staff time spent cleaning headwalls
- 2,296 hours of staff time spent on storm sewer repairs
- 785 hours of staff time spent on storm sewer cleaning

GROUND MAINTENANCE

- \$399,760.00 spent on mowing vacant lots, weed control, mulch installation, tree trimming & green infrastructure maintenance

PEORIA STREET SWEEPING

- The streets in the CSO area were swept seven times while the rest of the streets were swept five (5) times; 2,000 tons of debris was removed

COMMUNITY INVESTMENT PLAN

PROJECTS

1. Concrete Lined Drainage Channel (Florence-Merle-Richmond): **funding reduced from \$350,000 to \$50,000 due to COVID**. The engineering work was under way but put on hold. In 2021, the project modeling will be expanded to cover the Knolls subdivision which experienced flooding in 2020 and in the past. Once the modeling has been completed we will hold a public meeting then proceed to creating the plans and specifications.
2. Annual Drainage Repair Program
 - Funding reduced from \$900,000 to \$850,000 due to COVID.
 - Annual Drainage Repair Contract
 - Fifteen (15) projects were completed for **\$522,144**.
 - Storm Sewer Lining Contract
 - Six (6) lining projects were completed under for **\$119,379**.
3. Green Infrastructure Maintenance
 - **Funding was reduced from \$200,000 to \$100,000** due to COVID. The project was delayed due to COVID. The funds will be used to replant green infrastructure.
4. Merle & Knoxville culvert
 - **Funding reduced from \$600,000 to \$100,000** due to COVID. In 2020 the engineering modeling was completed. The next step is to have a public meeting to discuss the results of the modeling and reopening Merle at Knoxville. The public meeting will happen once it is safe hopefully in 2021. After the public meeting, we will proceed to creating the plans and specifications.
5. Stormwater Management Clean Water Act
 - **Funding reduced from \$400,000 to \$200,000** due to COVID. See NPDES Permit Compliance above for work completed
6. Stormwater Infrastructure Improvements project
 - Funding delayed until 2021
7. Stormwater Utility Grants
 - See below for Grant Program

UNPLANNED PROJECTS

1. Glen Ave and Sheridan Rd (Red Carpet) **estimated city cost \$340,000**
2. Abington and Madison - **Total estimated cost \$1.3 Million**. Modeling and design completed in 2020. Project put on hold due to issues with getting easements needed to construct the project.

Abington and Madison Culvert Project- on hold due to easement acquisition issues	
PH 1-2 Engineering	\$162,400
PH 3 Engineeirng	\$45,000
Land Acquisition estimate	\$60,000
Construction estimate	\$990,945
PM/staff time estimate	\$25,000
	\$1,283,345

CREDITS PROGRAM

SWU CREDITS

- Water quality credit
 - One (1) property received a credit for existing native prairie plantings. This manages 0.06 Acres. They received a \$18.24 credit per year.

STORMWATER UTILITY GRANT PROGRAM

RAIN BARREL GRANT

- Funding was reduced from \$5,000 to \$1,000 due to COVID
- Twenty-one rain barrels approved at 15 properties
- \$1,050 in reimbursement

GREEN INFRASTRUCTURE GRANT

- Funding was reduced from \$125,000 to \$21,000 due to COVID
- Ten (10) applications received and approved
- Eight (8) applications were approved but removed from the program by the property owners
- One (1) approved but no reimbursement request: 1500 NE Glen Oak Ave. \$9,070 for permeable paver driveway
- One (2) approved and constructed: 4425 W Deermeadow Dr. \$6,600 for permeable paver driveway

PRIVATE PROPERTY DRAINAGE ASSISTANCE PROGRAM

- Funding was reduced from \$200,000 to \$119,000 due to COVID
- Projects at twenty-one properties were approved for a total of \$113,725.03

STORMWATER INFRASTRUCTURE INVESTMENT GRANT

- Funding was reduced from \$200,000 to \$0 due to COVID

COMMUNITY INVESTMENT PLAN (FY21-FY22)

2021 & 2022 BUDGET DRAINAGE PROJECTS

Project Name	2021	2022
Drainage - D		
Concrete Lined Drainage Channel Repairs (Florence-Merle-Richmond)	\$ 560,000	\$ 0
Drainage Analysis Engineering	\$ 280,000	\$ 112,000
Drainage Repair Program	\$ 1,050,000	\$ 1,050,000
Green Infrastructure Maintenance	\$ 200,000	\$ 240,000
Merle & Knoxville Culvert	\$ 700,000	\$ 0
Storm Water Management - Clean Water Act	\$ 450,000	\$ 360,000
Stormwater Asset Management	\$ 330,000	\$ 280,000
Stormwater Backlog Projects	\$ 0	\$ 600,000
Stormwater Infrastructure Improvements	\$ 840,000	\$ 455,000
Stormwater Utility Grants	\$ 650,000	\$ 655,000
CIP Total	\$ 5,060,000	\$ 3,752,000

Unplanned (at 2021 budget time) Projects		
Abington and Madison Culvert Project- on hold due to easement acquisition issues	\$ 1,300,000	\$ 0
Glen Ave (west of sheridan) culvert replacement		\$ 1,500,000
CIP Total	\$ 6,360,000	\$ 3,752,000



2021 BACKLOG STORMWATER UTILITY SUMMARY

Updated

1/19/2021

2021 CIP Project Backlog

#	Project Name	Notes	Priority	Estimated Cost	District	Year
1	Merle Ln and Knoxville Ave culvert	August 2017- visited site, head wall for the culvert is failing. Road is falling in. Some recent repairs were to install metal rails to hold guard rail in place. Current culvert is a large CMP that the condition is unknown.	CIP Project	\$ 600,000.00	2	2021
2	Merle Florence Drainage Ditch	concrete lined channel in need of repair	CIP project	\$ 250,000.00	2	2021
3	Clean Water Act- GPS data collection and GIS mapping of the storm sewers	1. Using a consultant to collect survey grade locations of the storm sewer systems which is then entered into GIS \$100,000. 2. stormwater sampling \$18,000, 3. TMDL sampling	CIP project	\$ 100,000.00	all	every
4	Abington & Madison	replace 8' diameter CMP with new pipe. Project on hold waiting for easement from property owner.	unplanned	\$ 1,300,000.00	1	2021
5	Glen west of Sheridan	Replace box culvert under Glen connecting from Red Carpet to creek. Potentially do at the same time as the City/County's Glen project	CIP project	\$ 1,500,000.00	3	2022
6	Spring Lane from Ravinwoods to the cul de sac ditch project	see cost estimate from CMT: driveway replacement, culvert replacement, easements, grading, sodding, outfall improvements See SW Infrastructure Improvement on CIP	CIP project	\$ 410,000.00	5	2021
7	Orange Prairie Natural prairie detention basin restoration	Evaluation of Orange prairie (Grange Hall Rd - American Prairie Dr) natural prairie detention basins (4) (\$20K) to provide recommendations to restore. Restoration of prairie (125.K) and 1 year maintenance contract to re-establish and evaluate (\$35K per year). Would need to budget \$35K each year. Once the prairie is fully established the annual maintenance may decrease.	CIP project	\$ 180,000.00	5	future
				Subtotal CIP:	\$ 4,340,000.00	

Most of the creek projects would be on private property. Focusing on City owned infrastructure first, then will look at projects in the creeks

1	Dry Run Creek erosion repairs- continuation of Holly Hedges Devereux project	erosion repairs and stabilization from 2002 Stormwater master plan. Early Action Project #1	CIP Project	\$ 2,500,000.00	4	Future
2	West Branch Dry Run Creek "B" erosion repairs- South of War Memorial Drive	erosion repairs and stabilization from 2002 Stormwater master plan. Continuation of Early Action Project #2	CIP Project	\$ 1,750,000.00	2	Future
3	Big Hollow Creek	erosion repairs and stabilization from 2002 Stormwater master plan. Continuation of Early Action Project #3	CIP Project	\$ 1,500,000.00	5	Future
4	Dry Run Creek "B" erosion repairs- McClure to Nebraska	erosion repairs and stabilization from 2002 Stormwater master plan. Continuation of Early Action Project #4	CIP Project	\$ 1,600,000.00	2	Future
5	Dry Run Creek "B" erosion repairs- Forrest Hill Ave to Glen Ave	erosion repairs and stabilization from 2002 Stormwater master plan. Continuation of Early Action Project #5	CIP Project	\$ 1,300,000.00	3	Future
6	Update Stormwater master plan	update the 2002 Stormwater master plan	CIP Project	\$ 150,000.00	all	Future
				Subtotal Creek projects:	\$ 8,800,000.00	
				Total CIP Projects:	\$ 13,140,000.00	

2021 ARC Project List

Project Name	Notes	PIN	Site Assessment	Priority	Budget Estimate	Election District
1614 E. Lake Ave	blockage and erosion at outfall, deteriorating stream bank		1	1	\$ 75,000.00	3
255 Detweiler	Pipe failure at outfall and damaged pipe. Settled and flooding house walk out area connected to it. 2020 hold out, needs additional design work need inlet sizing and pipe replacement, video shows issues and customer tie in floods walk out from basement		1	1	\$ 75,000.00	5
3809 Woodtrail Court	sinkhole in yard between houses.		1	1	\$ 35,000.00	5
N Sommer Court	Line and/or size storm sewers based on Pioneer Parkway Watershed study		2	2	\$ 125,000.00	5
5611 Humboldt Ave	raise inlet and/or clear debris from structure.		4	4	\$ 15,000.00	3
3357 Lexington Court	Settling ground, possible pipe failur		1	1	\$ 40,000.00	4
1015 Nebraska	Creek has a wall built to protect house, periodically clean debris. Need to evaluate full culvert under Nebraska and if a larger area project is needed		2	2	\$ 50,000.00	2
9169 N Picture Ridge Rd	See 'Inspection List Tab' for previous notes. Appears to be broken section of pipe. Water flows from broken section into ravine. Minor erosion along sides and debris.	933378023	2	2	\$ 125,000.00	5
Huntington Dam on Rothmere Dr	EAP required per IDNR. Repaired in-kind	1323176005	2	2	\$ 15,000.00	4
3716 Verner Dr	point repair on outfall and more in line - hold from 2020 work		2	2	\$ 20,000.00	4
412 Collingwood Circle	Repair wall from erosion, 2020 carry over		2	2	\$ 20,000.00	
6601 Post Oak Rd	Repair settling ground and outfall behind property-2020 carry over Grade yard, line pipe from new manhole to outfall, bury outfall pipe, sod front access.		2	2	\$ 30,000.00	
4918 Sherwood ave	Repair blind connection from storm sewer		2	2	\$ 50,000.00	
924 Bridgetowne Ct	road ends at ROW line. Drainage is poor at the end of the road. Must travel across two private properties to get to the ravine. Look at getting a permanent easement across the two properties. Once get the easements, construct a ditch. 2020 work order but delayed.	920477008	3	2	\$ 30,000.00	5
N Boulevard Ave and E Cox Ave	Appears to be sink hole above storm water pipe. Area marked by cones. Across the street there is another sink hole above the outfall leading to drainage channel.		3	2	\$ 50,000.00	3
5004 N Ronald Rd	See 'Inspection List Tab' for previous notes. Street flood with heavy rain fall. Area appears to be a low point, possible problem with capacity of drainage systems in area due to developments upstream. Property owner noted erosion in back yard, possible use of PPDA.	1419257009	3	3	\$ 125,000.00	4

Project Name	Notes	PIN	Site Assessment	Priority	Budget Estimate	Election District
2706 W Parkridge Dr	See 'Inspection List Tab' for previous notes. Appears to have 2 exposed pipes in back of property. Large exposed outfall pipe in fenced in area that drains into creek area behind property. Minor debris in creek. Major erosion near outfall on banks.	1431177009	3	2	\$ 75,000.00	4
11403 N Hickory Woods St	See 'Inspection List Tab' for previous notes. Reoccurring sink holes along fence lines, require repair every year. Property owner of 11321 has had to fix fence multiple times due to sink holes. Possible use of PPDA.	929204004	3	3	\$ 40,000.00	5
Nowland 1023 W	Downstream from Macqueen (2010 project), moved off the 2011 list due to large cost. 9/09/14 sent PPDA flyer and sent consultant. Property is on a regulated floodplain and there is a city ROW to the west of the property. Need to discuss options since it is in a regulated flood plain.	1432427032	3	3	\$ 65,000.00	2
1127 S Laramie St	On NE side of property there appears to be a white PVC pipe with a cracked end sticking out of the ground roughly a foot. Area in front of pipe appears to have minor erosion that could cause water to pond before it enters the drainage grate.	1713276008	4	4	\$ 15,000.00	1
Isabell and Hanssler	Resident says street flood when heavy rains occur. the concrete channel is full of silt and small tree that is blocking channel. Ditch cleaning needed.	1432256001	4	4	\$ 25,000.00	2
1019 W Gilbert	Appears to be erosion on both east and west side of culvert. Heavy vegetation in surround area.	1432208016	4	5	\$ 15,000.00	2
7127 N Fox Point Dr	Grass growth is strong. Property owner informed about some new minor erosion near culvert caused by latest rain fall event. Area between ravine and culvert floods with heavy rainfall. Possible use of PPDA.	1409329002	4	5	\$ 15,000.00	3
413 W Lakewood Ave	See 'Inspection List Tab' for previous notes. Appears to be exposed pipe on side of road closest to property. Minor erosion around pipe. At the end of the street there are broken bits on concrete leading to drainage grate. Minor erosion along path.	1421305020	4	5	\$ 15,000.00	3
5009 N Belle Ct	See 'Inspection List Tab' for previous notes. Appears to be rubble in and around area surrounding outfall. Minor erosion on slopes leading to outfall. Appears to be private drainage pipe in back that is exposed for several feet that drains into creek in the back of property.	1421252009	4	4	\$ 25,000.00	3
1415 Cimarron	Upstream inlet appears to have minor sediment build up, blocking flow. Manually removed debris in surround area to improve flow and clear inlet. Downstream inlet appeared to have floating debris, flow not impacted.	1417378020	4	4	\$ 30,000.00	4

Project Name	Notes	PIN	Site Assessment	Priority	Budget Estimate	Election District
2629 N Lavelle Ct Outfall #8945	See 'City of Peoria Dry Weather Outfall Screening 2020' for previous notes. Pipes section is intact but has separated. Minor erosion in surrounding area.	1336251017	4	4	\$ 40,000.00	4
2808 Overbrook Ct Outfall #8952	See 'City of Peoria Dry Weather Outfall Screening 2020' for previous notes. Concrete structure appears to be collapsed. Tree fallen on top of outfall. Major erosion in surrounding area.	1336226010	4	4	\$ 40,000.00	4
3604 W Marengo Dr Outfall #8938	See 'City of Peoria Dry Weather Outfall Screening 2020' for previous notes. Outfall pipe appears to be broken in multiple sections. Minor erosion in surrounding area.	1336251022	4	4	\$ 30,000.00	4
2601 W Windflower Ct	See 'Inspection List Tab' for previous notes. Appears to be minor erosion in back of property leading to ravine.	930376021	4	4	\$ 25,000.00	5
3213 W Capitol	Appears to be major erosion surrounding outfall. Pipe free hangs for several feet.	1312428024	4	4	\$ 40,000.00	5
11336 N Antler Pl	Major erosion on slopes of creek in pack of property. Appears to be exposed pipe and broken bits of concrete in creek.	929202009	4	4	\$ 50,000.00	5
10517 N Coral Belle Ct	Water from the pipe was causing erosion that was causing damage by property owner's fence. When the fence was put in, he was told he couldn't build further because there was an easement. Need to look into stabilizing where outfall is.		4	4	\$ 20,000.00	
6702 N Parkdale Dr	The water stays in the street and either isn't getting into the inlet or the pipe size is not big enough. Look into regrading the street and redoing the curbs	1312480001	4	4	\$ 15,000.00	5
6211 N Jamestown Rd	Erosion at end of outfall pipe		4	4	\$ 25,000.00	
Trail View	Point repair on pipe. Mortar failling around brick.		4	4	\$ 15,000.00	
Townsend Dr. 9925 N	ditch along Ravenwoods has two large trees with roots encroaching on the channel, also sticks and tree debris in channel. Ditch cleaning recommended	932276006	4	4	\$ 25,000.00	5
11030 W Scotts Trail	During heavy rainfall events street will have standing water. Several properties in area have issues with ponding in back yards.		4	4	\$ 15,000.00	5
Oakwood Dr and Deerbrook Dr	Appears to be stagnant water on corner leading to drain under road. Gutter across the street has standing water. Possibly a blockage in the pipe.		4	4	\$ 10,000.00	5
10025 N Spring Ln	See 'Inspection List Tab' for previous notes. Drainage ditches out front of property flood during heavy rain fall events. Issue is not isolated to single property, multiple properties have same issue.	932201012	4	4	\$ 25,000.00	5

Project Name	Notes	PIN	Site Assessment	Priority	Budget Estimate	Election District
Allen/Park (#2313)	broken/cracked in some spots but still in tact, repair riprap below concrete flare	1406100004	5	5	\$ 20,000.00	5
Sheridan 5105 N	I spoke with Fr. Merdian. He explained that there is a pipe on the hill along the west side of Sheridan that drains to a ditch and the ditch/end of pipe are eroding. From Google map, it looks like the hill has a ditch section that then turns into a curb and gutter section near the high school (approximately at Sherbrook. There is driveway culvert at what looks to be a school parking lot on the north end. Please take a look and see if it is a public or private repair. If it's public add to ARC. I explained that we add to the list based on priority. If it is private, send them info on the PPDA. If it is a small ditch cleaning/stabilization, we may add that to the other small ditch cleaning projects to make one decent ditch maintenance project this year. ditch cleaning needed	1420276053	5	5	\$ 25,000.00	3
503 Beacon	See 'Inpesction List Tab' for previous notes. No new storm water issues noted. Check in later	1435134002	5	5	\$ 10,000.00	1
2105 N Ardell Pl	Possible rain garden on site. Drainage grate near stop sign. No storm water issue noted.	1431306035	5	5	\$ 10,000.00	2
2222 North Northcrest	See 'Inspection List Tab' for previous notes. Back of property seems to be low point of area. Standing water in backyard, drains to culvert.	1431305003	5	5	\$ 25,000.00	2
3126 N Finnel Ave Outfall #9215	See 'City of Peoria Dry Weather Outfall Screening 2020' for previous notes. Outfall is half filled with silted dirt. Medium growth of vegetation in the area.	1430482012	5	5	\$ 15,000.00	2
854 E High Point Terrace	See 'Inpesction List Tab' for previous notes. Appears to be minor erosion along channel and side road leading to property. Multiple spots where c pipe sticks out into channel in back of property. Behind property there is a large section of above grade c pipe going downhill leading to channel.	929204004	5	5	\$ 25,000.00	3
3810 N Donna Ln	See 'Inspection List Tab' for previous notes. No new storm water issues noted.	1430276005	5	5	\$ 10,000.00	4
4908 N Ronald Rd	See 'Inspection List Tab' for previous notes. Appears to be minor erosion around wing wall.	1419257014	5	5	\$ 15,000.00	4
5202 N Ronald Rd	Exposed c pipe across road from listed property. Up street on Camile there is an open water meter manhole cover. No storm water issues noted.	1419229008	5	5	\$ 10,000.00	4
N Molleck Dr and W Marengo Dr Outfall #8932	See 'City of Peoria Dry Weather Outfall Screening 2020' for previous notes. Pipe section appears to be intact but has separated. Major erosion in surround area.	1336252002	5	5	\$ 40,000.00	4

Project Name	Notes	PIN	Site Assessment	Priority	Budget Estimate	Election District
6224 N Lexington Dr	See 'Inspection List Tab' for previous notes. Property appears to have a possible rain garden. No immediate storm water issues noted.	1417277011	5	5	\$ 10,000.00	4
W La Claire Ln	No immediate storm water issues noted.		5	5	\$ 10,000.00	4
4042 W Hilmont Rd	See 'Inspection List Tab' for previous notes. Minor erosion around outfall/small wing wall behind property. Scattered garbage and debris in surrounding area.	1313158011	5	5	\$ 20,000.00	4
2714 W Glen Ave	See 'Inspection List Tab' for previous notes. No immediate storm water issues noted.	1419326002	5	5	\$ 25,000.00	4
6018 N Graceland Dr	See 'Inspection List Tab' for previous notes. Area behind property has small amount of standing water. No immediate storm water issues noted.	1417305002	5	5	\$ 10,000.00	4
717 W South Forest/10217 N Forrest Dr	See 'Inspection List Tab' for previous notes. Private culvert on 10217 W South Forest has standing water. Culvert pipe appears to not be sloped properly to allow steady flow of storm water to road culvert.	929479012/0 932202029	5	5	\$ 25,000.00	5
3512 W Chartwell	Appears to be debris along ditch leading to culvert.	1312453021	5	5	\$ 25,000.00	5
6323 W Waterstone Way	See 'Inspection List Tab' for previous notes. No new storm water issues noted.	1303180001	5	5	\$ 10,000.00	5
9138 N Pine Tree Rd	See 'Inspection List Tab' for previous notes. Property appears to have had work done in back near ravine. Steep slope leading to creek. No storm water issues noted.	932454011	5	5	\$ 10,000.00	5
11204 Oak Trail	See 'Inspection List Tab' for previous notes. No new storm water issues noted.	929203003	5	5	\$ 10,000.00	5
1101 W Teton Dr	See 'Inspection List Tab' for previous notes. Appears work has been done to stabilizing surrounding area around outfall and slopes in the back of the property. Some minor erosion after outfall.	1408404026	5	5	\$ 15,000.00	5
N Parkwood Dr and W Chartwell Rd	See 'Inspection List Tab' for previous notes. No immediate storm water issues noted.		5	5	\$ 10,000.00	5
University 8801 N	property appears to be near the high point, the area is very flat. Both adjoining properties have problems with their ditches. The outfall pipes come in lower than the ditch itself. Survey to evaluate if regrading ditches will help and how far you need to regrade to get the ditches to drain properly. Other option bore pipe under University and outlet ditch in the east side ditch. Will be apart of larger drainage project along when city has a project on university	1406276006		5	\$ 50,000.00	

29	3475	Manning	3769	3770	CMP	24	24	113.7	\$121.00	\$13,757.70	\$20,636.55	
30	1551	Rainierwoods	1849	1850	PVC	12	12	69.2	\$80.00	\$5,536.00	\$8,304.00	
31	5939	Orange Terrace	7446	7449	RPM	18	18	51.7	\$100.00	\$5,170.00	\$7,755.00	
32	5883	Sunnyview	6948	6952	CMP	24	24	283.3	\$121.00	\$34,279.30	\$51,418.95	
33	207	Grove Mill	628	632	RCP	36	36	116.3	\$170.00	\$19,771.00	\$29,656.50	
34	3993	Wolf	3484	3488	RCP	18	18	41.6	\$100.00	\$4,160.00	\$6,340.00	
35	6980	Glen Ave	7113	7111	RCP	12	12	72.8	\$80.00	\$5,824.00	\$8,736.00	
36	427	Grove Mill	629	628	RCP	36	36	122.7	\$170.00	\$20,859.00	\$31,288.50	
37	915	Wilhelm	1097	1097	RCP	18	18	26.2	\$100.00	\$2,620.00	\$3,930.00	
39	P188001213	Marquette	P188001501	P188001213	CT	15	15	321.9	\$84.00	\$27,039.60	\$40,559.40	
40	4164a	Accliffe	4778a	4788	RCP	12	12	68.3	\$80.00	\$5,464.00	\$8,196.00	
41	2126	High Point	2277	2276	PVC	18	18	35.9	\$100.00	\$3,590.00	\$5,385.00	
42	5390	5729 N Rosemead Dr	6615	6616	CMP	12	12	164.6	\$80.00	\$13,168.00	\$19,752.00	
43	4912	5303 N Rothmere Dr	6223	6222	PE	36	36	239	\$170.00	\$40,630.00	\$60,945.00	
44	1554	Rainierwoods	1854	1853	PVC	12	12	57	\$80.00	\$4,560.00	\$6,840.00	
45	4824	W Ancient Oak Dr	5386	5386a	RCP	15	15	113	\$84.00	\$9,492.00	\$14,238.00	
46	1411	Grand Oak	1660	1659	RCP	12	12	25.7	\$80.00	\$2,056.00	\$3,084.00	
47	6543	Glen Ave	7085	7085a	RCP	12	12	131.6	\$80.00	\$10,528.00	\$15,792.00	
48	2096a	Altofer	2139a	2139	PVC	12	12	13.7	\$80.00	\$1,096.00	\$1,644.00	
49	745	Broadland	1017	1352	RPM	15	15	165.9	\$84.00	\$13,935.60	\$20,903.40	
50	3039-1	132 W Northaven CT	3346	3346A	RCP	15	15	31.3	\$84.00	\$2,629.80	\$3,943.80	
51	1488	Caymen Cove	1725	1724	RCP	12	12	30.6	\$80.00	\$2,448.00	\$3,672.00	
52	3529	Hi Wood Street	3997	3997-A	CMP	24	24	151.3	\$121.00	\$18,307.30	\$27,460.95	
53	x1486	Mudic Way	3535	3535a	RCP	18	18	71.6	\$100.00	\$7,160.00	\$10,740.00	
54	143	Carlson Ln	276	943	RPM	12	12	19.3	\$80.00	\$1,544.00	\$2,316.00	
55	1316	Hickory Woods	1525	1521	RPM	24	24	111.4	\$121.00	\$13,479.40	\$20,219.30	
56	1145	Brookshire	1139	1230	RPM	18	18	273.6	\$100.00	\$27,360.00	\$41,040.00	
57	589	Brooklyn Pl	712	1254	CP	18	18	141.3	\$100.00	\$14,130.00	\$21,195.00	
58	5556	Clarewood	5548	5551	CMP	24	24	5.5	\$121.00	\$665.50	\$998.25	
59	3433	Kingsway	3863	3864	PVC	15	15	4.0	\$84.00	\$336.00	\$504.00	
60	2357	Waterstone Way	2816	2816a	RCP	36	36	45.5	\$170.00	\$7,735.00	\$11,602.50	
61	x67	St Michaels	3815 CB	3812 MH	CMP	15	15	137.4	\$84.00	\$11,541.60	\$17,312.40	
62	6928	Cherry Ridge	5813	5815	RPM	18	18	44.6	\$100.00	\$4,460.00	\$6,690.00	
63	5877a	Sunnyview	6907a	6907	CMP	18	18	97.1	\$100.00	\$9,710.00	\$14,565.00	
64	6576	Glen Ave	7101	7099	RCP	12	12	18.3	\$80.00	\$1,464.00	\$2,196.00	
65	3125a	High Point	3276	3276	PVC	18	18	122.2	\$100.00	\$12,220.00	\$18,330.00	
66	3053	Patricia Lane	3895	3896	PVC	12	12	158.5	\$80.00	\$12,680.00	\$19,020.00	
TOTAL:										5,573	\$865,913.20	\$1,298,929.80

\$1,972,891.20
\$4,459,336.80

Total:
\$2,873,000
\$4,459,000

Pipe Info (Grade 3)

Street	UpstreamMft	DSManhole	Material	Height	Width	Length (FT)
1 Boulder Creek Ct	94	99	RCP	24	24	111
2 Country Creek Ln	169	154	RCP	36	36	139
3 Prairie Creek Ct	170	171	RCP	15	15	60
4 Stone Creek Dr	91	109	RCP	21	21	128
5 Stone Creek Ct	828A	828	RCP	18	18	99
6 Oak Creek Ct	117	110	Concrete Pipe (non-reinforced)	15	15	166
7 Summerbend	400	401	RCP	24	24	146
8 Coral Belle	417	418	RCP	12	12	141
9 Trails Edge	423	424	RCP	12	12	49
10 Tuscan Ridge Ct	595	594	Cast Iron	12	12	38
11 Liams Way	702	703	RCP	18	15	105
12 Ballymore	704	705	RCP	12	12	52
13 Ballymore	705	710	RCP	18	15	224
14 Ballymore	1251	707	RCP	48	36	158
15 Dunmore Dr	699	697	RCP	18	15	241
16 Dunmore Dr	698	697	RCP	12	12	35
17 Scotts Trail	725	724	RCP	12	12	53
18 Scotts Trail	721	721	RCP	18	15	131
19 Marks Pl	733	734	RCP	15	15	82
20 Brooklyn	999	1000	RCP	18	18	103
21 Brooklyn	1001	1002	RCP	12	12	34
22 Brooklyn	1010	1006	RCP	15	15	161
23 Broadland	1021	1022	RCP	18	18	268
24 Broadland	1027	1025	RCP	18	18	249
25 Broadland	1022	1023	RCP	18	18	34
26 Geneva	1034	1407	RCP	18	18	18
27 Whittington Way	1463	271	Concrete Pipe (non-reinforced)	15	15	141

3,165

Pipe Info (Grade 2)

Street	UpstreamMft	DSManhole	Material	Height	Width	Length (FT)
1 Stone Creek Dr	156	104	RCP	21	21	128
2 Saddlehorn Ct	190	847	RCP	15	15	129
3 Rosebury Ln	182	154	RCP	27	27	142
4 Country Creek Ln	159	154	RCP	36	36	139
5 Saddlehorn Way	165	164	RCP	15	15	23
6 Country Ridge Way	166	162	RCP	15	15	105
7 Stone Creek Dr	17	91	RCP	21	21	59
8 Stone Creek Dr	125	129	RCP	15	15	27
9 Stone Creek Dr	124	120	Concrete Pipe (non-reinforced)	18	18	147
10 Onyx Ln	237	235	PVC	12	12	53
11 Onyx Ln	234	236	Reinforced Plastic Pipe (Truss Pipe)	18	18	370
12 Onyx Ln	233	232	PVC	12	12	34
13 Moonstone Ct	229	834	Reinforced Plastic Pipe (Truss Pipe)	12	12	187
14 Granite St	846	845	Reinforced Plastic Pipe (Truss Pipe)	15	15	236
15 Granite St	249	845	Reinforced Plastic Pipe (Truss Pipe)	12	12	29
16 Playden Dr	214	850	RCP	18	18	206
17 Stonehenge Ct	297	296	RCP	15	15	73
18 Stonehenge Ct	296	295	RCP	15	15	38
19 Stonehenge Ct	289	294	RCP	24	24	149
20 Trails Edge Dr	346	345	PVC	12	12	47
21 Trails Edge	367	358	PVC	12	12	147
22 Winter Ct	412	868	RCP	12	12	105
23 Harvest Ct	391	390	RCP	18	18	179
24 Summerbend Ct	395	396	RCP	18	18	158

2021 Dry Weather Screening- Outfalls in need of maintenance

The year listed is the year the repairs were identified

Total
140

Avg cost of outfall repairs: \$ 30,000
\$4,200,000

Year	Outfall #	Year	Outfall #	Year	Outfall #	Year	Outfall #	Year	Outfall #	Year	Outfall #						
1	2012	56	1	2013	1277	1	2014	3100	1	2015	1610	1	2020	8932			
2	2012	70	2	2013	1279	2	2014	3296	2	2015	1689	2	2015	2106	2	2020	8938
3	2012	77	3	2013	1501	3	2014	3298	3	2015	1692	3	2015	35	3	2020	8945
4	2012	78	4	2013	1505	4	2014	3411	4	2015	1693	4	2015	43	4	2020	8952
5	2012	811	5	2013	1514	5	2014	3414	5	2015	3900	5	2015	2107	5	2020	8958
6	2012	614	6	2013	1541	6	2014	3893	6	2015	4778	6	2015	21	6	2020	8973
7	2012	815	7	2013	1576	7	2014	4303	7	2015	4802	7	2015	202	7	2020	9015
8	2012	827	8	2013	1589	8	2014	4313	8	2015	4818	8	2015	204	8	2020	9017
9	2012	851	9	2013	1597	9	2014	4657	9	2015	5017	9	2015	54	9	2020	9020
			10	2013	1601	10	2014	4816	10	2015	5135	10	2015	188	10	2020	9029
			11	2013	1604				11	2015	5268	11	2015	2131	11	2020	9060
			12	2013	1605				12	2015	5291	12	2015	2130	12	2020	9065
			13	2013	1618				13	2015	5330	13	2015	60	13	2020	9085
			14	2013	1621				14	2015	5333	14	2015	57-2	14	2020	9141
			15	2013	1624				15	2015	5388	15	2015	56-2	15	2020	9148
			16	2013	1629				16	2015	5389	16	2015	4816	16	2020	9185
			17	2013	1649				17	2015	5543	17	2015	57	17	2020	9198
			18	2013	1650				18	2015	5788	18	2015		18	2020	9212
			19	2013	1651				19	2016	5810	19	2016		19	2020	9214
			20	2013	1652				20	2017	7340	20	2017		20	2020	9215
			21	2013	1653				21	2018	7344	21	2018		21	2020	9216
			22	2013	1685				22	2019	7428	22	2019		22	2020	9217
			23	2013	1728				23	2020	7440	23	2020		23	2020	9218
			24	2013	1734				24	2021	7638	24	2021		24	2020	9254
			25	2013	1736				25	2022	7857	25	2022		25	2020	9261
			26	2013	1737				26	2023	7860	26	2023		26	2020	9267
			27	2013	1740				27	2024	7861	27	2024		27	2020	9327
			28	2013	1757							28	2020		28	2020	9330
			29	2013	1760							29	2020		29	2020	9577
			30	2013	1822							30	2020		30	2020	9578
			31	2013	1890							31	2020		31	2020	9627
			32	2013	2313							32	2020		32	2020	9628
			33	2013	2545							33	2020		33	2020	9727
			34	2013	2547							34	2020		34	2020	9772
			35	2013	2549							35	2020		35	2020	9793
			36	2013	2551							36	2020		36	2020	9826
			37	2013	2846							37	2020		37	2020	9876
			38	2013	3041							38	2020		38	2020	9938
			39	2013	3166												

2021 SWU Engineering Needed
Drainage Study

Total County 30
Total Cost \$ 1,200,000.00

	Location	Council District	Issue	Notes	Date added	Priority	Ballpark budget
1	University & Lakes	3	reoccurring flooding in low lying area. 9/27/19 storm the westaire culvert was blocked by large debris	homes flooded 9/27/19	1/6/2020	high	\$ 500,000.00
2	Sheridan- Knoxville from Northmoor-Sheridan/Knoxville intersection	3	reoccurring flooding in low lying area near Sheridan Rd @ bicycle safety town		10/4/2019	high	\$ 50,000.00
3	614 W Cody Ct	3	reoccurring flooding in low lying area	home flooded 9/27/19	10/4/2019	high	\$ 25,000.00
4	4529 N North St	3	reoccurring flooding in low lying area	home flooded 9/27/19	10/7/2019	high	\$ 25,000.00
5	1105 East Koch Ave	3	reoccurring flooding in low lying area, look at re-establishing the ditch along the road, property owner looking at PPDA	home flooded 9/27/19	10/7/2019	high	\$ 25,000.00
6	1614 E Lake Ave	3	structural design for high wall needed	issue prior to 9/27/19 storm	10/7/2019	high	\$ 20,000.00
7	University & Jeth Ct	4	culvert plugs with debris causing university to flood		10/7/2019	high	\$ 20,000.00
8	400 W Morningside	5	in floodplain- creek is narrow and eroding towards the road, asphalt and other walls previously placed		10/7/2019	medium	\$ 25,000.00
9	6811 N Galena Rd	3		home flooded 9/27/19	10/7/2019	high	\$ 25,000.00
10	4224 N University	3		home flooded 9/27/19	10/7/2019	high	\$ 25,000.00
11	1410 w westaire ave	4	looks like smaller pipe shoved in bigger pipe, something looks off also in the floodplain		10/28/2019	high	\$ 20,000.00
12	4529 N North St	3	floods in yard- many pipes come to the area to be investigated		10/29/2019	medium	\$ 20,000.00
13	803 W North Ln	5	standing water in the ditches in the front yards- no dwy culverts		11/4/2019	medium	\$ 20,000.00
14	11018 N Buckskin Ct	5	swale filled in at this yard, culvert buried, and end of cul de sac	since the swale was filled in three houses get water	11/12/2019	medium	\$ 20,000.00
15	5727 N Sheridan Rd	3	wants culvert under fairmont at Sheridan	water drains over his yard and driveway to fairmont	11/15/2019	medium	\$ 25,000.00
16	2016 N Ellis St	2	erosion in dry run creek		1/20/2020	medium	\$ 20,000.00
17	Ravinswood & Townsend	5	pipe close to the edge of the road. Do we need to extend the pipe/protect the road	Reported by Councilman Cyr	4/24/2020	medium	\$ 15,000.00
18	6011 Eaglecreek Dr	5	backyard flooding See SR60993, PC31112 This sewer drain in the backyard of this house is always over capacity when it rains. Their house flooded twice in 8 months! Literally flash flood videos through 4 yards that we can see. Suggest additional drainage structure upstream from this location to more quickly get run off into the storm sewer system.		5/28/2020	high	\$ 20,000.00
19	122 W Morningside	5	Ditch along side and behind the houses that drains possibly to a detention basin west of park edge ct.	Operations cleaned out the culvert 6/5/20 Need to research plans to see who is responsible for the ditches and get them cleaned out.	6/5/2020	medium	\$ 15,000.00
20	1123 NE Glen Oak	3	water from the road gets into the apartment complex and floods	not sure what it floods parking lot?	7/23/2020	medium	\$ 15,000.00
21	2714 W Glen Ave	4	Road floods when it rains		7/24/2020	medium	\$ 20,000.00
22	Knolls subdivision through Richwood-402-422 Westwood, 405 Richwoods	3	Flooding and basement back ups on 402-422 Westwood, flooding on 405 W Richwoods	Flooded 7/15/20 concrete lined channel (Florence/Merle/Richmond) downstream of this area. adding modeling as part of concrete lined channel project	7/24/2020	high	\$ 25,000.00
23	Wardcliffe lake (behind 2707 Rockwood Dr)	4	trash and debris gets into the lake from Sterling	the neighborhood would like the private lake to be dredged by the city	7/31/2020	low	\$ 15,000.00
24	5703 Woodlawn Ct	3	check the capacity of the roadway culverts	flooding in the ROW	8/21/2020	medium	\$ 15,000.00
25	6223 W Diversey Ct & 6310 W Clairemont Ct	5	There is a 42" storm sewer that drains to an open channel for 50 ft then connects to a 24" pipe. Adjacent owners want to connect pipes	Who owns the 24" pipe? Is it size properly? Can the system be closed?	9/1/2020	low	\$ 15,000.00
26	7700 N Derby Rd (Derby & Orchard)	3	erosion in creek is causing road issues, water from Orchard drains across Derby and is eroding the channel	v gutter across the road or add storm sewer	10/1/2020	high	\$ 20,000.00
27	1105 W Virginia	2	flooding, property damage- flood plain (special flood hazard area/500 yr floodplain) on property. She thinks creek has engineering defects	damage in July 2020 storm, filed claim but was denied	10/23/2020	high	\$ 50,000.00
Ditch projects							
	Location	Council District	Issue	Notes	Date added	Priority	Ballpark budget
1	Spring In	5	ditches flood and don't drain			high	\$ 30,000.00
2	3430 Grimson	4	ditches filled in over time		10/28/2019		\$ 30,000.00
3	Richwoods and Albany - Sterling to Stanley; Stanley- Richwoods to Albanv	2	poor drainage, ditches don't drain well	Operations was going to do it in 2020 but didn't have time. Moved it moved to ARC. Councilman involved	7/29/2020		\$ 50,000.00

2021 Backlog Stormwater Utility Summary

	#	Cost
CIP list	6	\$ 8,800,000
ARC list	48	\$ 2,010,000
Repairs from Televising list	299	\$ 4,459,000
Outfall repair list	140	\$ 4,200,000
Operations list 2019	80	\$ 145,000
Inlet repairs list 2019	135	\$ 695,000
Ditch Cleaning list 2019	40	\$ 345,000
Engineering Study	30	\$ 1,200,000
Total	748	\$ 21,854,000