

WRA Debt Servicing
FY2019 FY2020

WASTEWATER RECLAMATION AUTHORITY
Debt Service for 2015E / Refunding of 2006
Fiscal Year 2020

	Debt Servicing								
	Altoona (Expansion)	Ankeny (Expansion)	Bondurant (Expansion)	Clive (Expansion)	Cumming (Expansion)	Des Moines	Greenfield Plaza	Johnston	Norwalk (Expansion)
2015e / Core Refunding									
Percentage	4.299%	10.180%	1.074%	3.267%	0.051%	49.997%	0.502%	2.573%	1.782%
Principal	13,965	33,068	3,489	10,612	166	162,406	1,631	8,358	5,789
Interest	10,871	25,743	2,716	8,262	129	126,431	1,269	6,507	4,506
Gross Principal and Interest Estimate	24,836	58,811	6,205	18,874	295	288,838	2,900	14,864	10,295
Reserve Interest Income	(254)	(601)	(63)	(193)	(3)	(2,950)	(30)	(152)	(105)
Net Debt Service	24,582	58,210	6,141	18,681	292	285,888	2,870	14,713	10,190
2015e / Expansion Refunding									
Percentage	10.143%	24.020%	2.535%	7.708%	0.120%	0.000%	0.000%	0.000%	4.205%
Principal	39,491	93,521	9,870	30,011	467	0	0	0	16,372
Interest	30,664	72,616	7,664	23,302	363	0	0	0	12,712
Gross Principal and Interest Estimate	70,155	166,136	17,534	53,313	830	0	0	0	29,084
Reserve Interest Income	(714)	(1,691)	(178)	(543)	(8)	0	0	0	(296)
Net Debt Service	69,441	164,445	17,355	52,770	822	0	0	0	28,788
2015e / SW Area Refunding									
Percentage	6.247%	14.793%	1.561%	4.747%	0.074%	33.332%	0.335%	1.715%	2.590%
Principal	33,161	78,525	8,286	25,198	393	176,934	1,778	9,104	13,748
Interest	25,869	61,258	6,464	19,657	306	138,029	1,387	7,102	10,725
Gross Principal and Interest Estimate	59,030	139,783	14,750	44,856	699	314,963	3,166	16,205	24,474
Reserve Interest Income	(603)	(1,429)	(151)	(459)	(7)	(3,220)	(32)	(166)	(250)
Net Debt Service	58,426	138,354	14,600	44,397	692	311,743	3,133	16,040	24,223
Subtotal of Net Debt Service	152,449	361,009	38,096	115,848	1,805	597,631	6,004	30,752	63,201
DS for 2015E issue (gross)	154,020	364,730	38,488	117,042	1,824	603,800	6,066	31,070	63,853
Reserve Interest Earnings									
Core	(254)	(601)	(63)	(193)	(3)	(2,950)	(30)	(152)	(105)
Expansion	(714)	(1,691)	(178)	(543)	(8)	0	0	0	(296)
SW	(603)	(1,429)	(151)	(459)	(7)	(3,220)	(32)	(166)	(250)
Net Debt Service Collection	152,449	361,009	38,096	115,848	1,805	597,631	6,004	30,752	63,201

Pleasant Hill	Polk City (Expansion)	Polk County	USSD (Expansion)	UWHS D	Waukee (Expansion)	West Des Moines (Expansion)	Total \$	Debt Issue 2015E
1.865%	0.492%	1.051%	7.619%	1.632%	2.412%	11.204%	100.0%	Core Borrowings
6,058	1,598	3,414	24,749	5,301	7,835	36,394	324,832	Percentage
4,716	1,244	2,658	19,267	4,127	6,099	28,332	252,878	Principal
10,774	2,842	6,072	44,016	9,428	13,934	64,727	577,710	Interest & Servicing
(110)	(29)	(62)	(450)	(96)	(142)	(661)	(5,900)	Gross Principal and Interest
10,664	2,813	6,010	43,566	9,332	13,792	64,066	571,810	Reserve Interest Income
								Net Debt Service
0.000%	1.162%	0.000%	17.978%	0.000%	5.691%	26.438%	100.0%	Expansion Borrowings
0	4,524	0	69,996	0	22,158	102,935	389,345	Percentage
0	3,513	0	54,350	0	17,205	79,926	302,313	Principal
0	8,037	0	124,346	0	39,362	182,861	691,658	Interest & Servicing
0	(82)	0	(1,266)	0	(401)	(1,861)	(7,040)	Gross Principal and Interest
0	7,955	0	123,081	0	38,962	180,999	684,618	Reserve Interest Income
								Net Debt Service
1.243%	0.715%	0.701%	11.072%	1.088%	3.505%	16.282%	100.0%	SW Area Borrowings
6,598	3,795	3,721	58,773	5,775	18,605	86,429	530,823	Percentage
5,147	2,961	2,903	45,849	4,505	14,514	67,424	414,103	Principal
11,745	6,756	6,624	104,622	10,281	33,120	153,853	944,926	Interest & Servicing
(120)	(69)	(68)	(1,070)	(105)	(339)	(1,573)	(9,660)	Gross Principal and Interest
11,625	6,687	6,556	103,553	10,176	32,781	152,280	935,266	Reserve Interest Income
								Net Debt Service
22,290	17,456	12,566	270,199	19,508	85,535	397,345	2,191,694	Subtotal Net Debt Service
22,520	17,636	12,696	272,984	19,709	86,416	401,440	2,214,294	2015E Debt Service Allocation
(110)	(29)	(62)	(450)	(96)	(142)	(661)	(5,900)	
0	(82)	0	(1,266)	0	(401)	(1,861)	(7,040)	
(120)	(69)	(68)	(1,070)	(105)	(339)	(1,573)	(9,660)	
								22,600
								22600
22,290	17,456	12,566	270,199	19,508	85,535	397,345	2,191,694	Net Debt Service
								1,245,000 Principal
								969,294 Interest on 2015E

WASTEWATER RECLAMATION AUTHORITY
Debt Service for 2013B / Refunding of 2004B
Fiscal Year 2020

	Debt Servicing								
	Altoona (Expansion)	Ankeny (Expansion)	Bondurant (Expansion)	Clive (Expansion)	Cumming (Expansion)	Des Moines	Greenfield Plaza	Johnston	Norwalk (Expansion)
2013b / Core Refunding									
Percentage	4.299%	10.180%	1.074%	3.267%	0.051%	49.997%	0.502%	2.573%	1.782%
Principal	49,507	117,233	12,368	37,623	587	575,766	5,781	29,631	20,522
Interest	34,384	81,422	8,590	26,130	408	399,886	4,015	20,579	14,253
Gross Principal and Interest Estimate	83,892	198,655	20,958	63,753	995	975,652	9,796	50,210	34,774
Reserve Interest Income	(1,126)	(2,667)	(281)	(856)	(13)	(13,099)	(132)	(674)	(467)
Net Debt Service	82,765	195,988	20,677	62,897	982	962,553	9,665	49,536	34,307
2013b / Expansion Refunding									
Percentage	10.143%	24.020%	2.535%	7.708%	0.120%	0.000%	0.000%	0.000%	4.205%
Principal	76,949	182,225	19,231	58,476	910	0	0	0	31,901
Interest	59,876	141,794	14,965	45,502	708	0	0	0	24,823
Gross Principal and Interest Estimate	136,825	324,019	34,196	103,977	1,619	0	0	0	56,724
Reserve Interest Income	(1,866)	(4,420)	(466)	(1,418)	(22)	0	0	0	(774)
Net Debt Service	134,958	319,599	33,730	102,559	1,597	0	0	0	55,950
2013b / SW Area Refunding									
Percentage	6.247%	14.793%	1.561%	4.747%	0.074%	33.332%	0.335%	1.715%	2.590%
Principal	22,162	52,479	5,538	16,840	263	118,248	1,188	6,084	9,188
Interest	17,250	40,849	4,311	13,108	204	92,043	925	4,736	7,152
Gross Principal and Interest Estimate	39,412	93,329	9,848	29,949	467	210,291	2,114	10,820	16,340
Reserve Interest Income	(537)	(1,272)	(134)	(408)	(6)	(2,867)	(29)	(147)	(223)
Net Debt Service	38,875	92,057	9,714	29,540	461	207,424	2,085	10,672	16,118
Subtotal of Net Debt Service	256,598	607,643	64,121	194,997	3,039	1,169,978	11,749	60,208	106,375
DS for 2013B issue (gross)	260,128	616,002	65,003	197,679	3,081	1,185,943	11,910	61,030	107,838
Reserve Interest Earnings									
Core	(1,126)	(2,667)	(281)	(856)	(13)	(13,099)	(132)	(674)	(467)
Expansion	(1,866)	(4,420)	(466)	(1,418)	(22)	0	0	0	(774)
SW	(537)	(1,272)	(134)	(408)	(6)	(2,867)	(29)	(147)	(223)
Net Debt Service Collection	256,598	607,643	64,121	194,997	3,039	1,169,978	11,749	60,208	106,375

Pleasant Hill	Polk City (Expansion)	Polk County	USSD (Expansion)	UWHSD	Waukee (Expansion)	West Des Moines (Expansion)	Total \$	Debt Issue 2013B
1.865%	0.492%	1.051%	7.619%	1.632%	2.412%	11.204%	100.0%	Core Borrowings
21,477	5,666	12,103	87,741	18,794	27,777	129,025	1,151,602	Percentage
14,917	3,935	8,406	60,938	13,053	19,292	89,612	799,820	Principal
36,394	9,601	20,509	148,679	31,847	47,068	218,637	1,951,422	Interest & Servicing
(489)	(129)	(275)	(1,996)	(428)	(632)	(2,935)	(26,200)	Gross Principal and Interest
35,905	9,472	20,234	146,683	31,420	46,436	215,702	1,925,222	Reserve Interest Income
								Net Debt Service
0.000%	1.162%	0.000%	17.978%	0.000%	5.691%	26.438%	100.0%	Expansion Borrowings
0	8,815	0	136,388	0	43,174	200,569	758,639	Percentage
0	6,859	0	106,127	0	33,595	156,068	590,316	Principal
0	15,675	0	242,515	0	76,769	356,637	1,348,955	Interest & Servicing
0	(214)	0	(3,308)	0	(1,047)	(4,865)	(18,400)	Gross Principal and Interest
0	15,461	0	239,207	0	75,722	351,772	1,330,555	Reserve Interest Income
								Net Debt Service
1.243%	0.715%	0.701%	11.072%	1.088%	3.505%	16.282%	100.0%	SW Area Borrowings
4,410	2,537	2,487	39,279	3,860	12,434	57,762	354,759	Percentage
3,432	1,974	1,936	30,574	3,004	9,679	44,961	276,139	Principal
7,842	4,511	4,423	69,853	6,864	22,113	102,723	630,898	Interest & Servicing
(107)	(61)	(60)	(952)	(94)	(301)	(1,400)	(8,600)	Gross Principal and Interest
7,735	4,449	4,362	68,901	6,771	21,812	101,323	622,298	Reserve Interest Income
								Net Debt Service
43,641	29,383	24,596	454,791	38,190	143,970	668,797	3,878,075	Subtotal Net Debt Service
44,236	29,787	24,932	461,047	38,711	145,950	677,997	3,931,275	2013B Debt Service Allocation
(489)	(129)	(275)	(1,996)	(428)	(632)	(2,935)	(26,200)	
0	(214)	0	(3,308)	0	(1,047)	(4,865)	(18,400)	
(107)	(61)	(60)	(952)	(94)	(301)	(1,400)	(8,600)	
43,641	29,383	24,596	454,791	38,190	143,970	668,797	3,878,075	Net Debt Service
								53,200 2020 budget
								53,200
								2,265,000 Principal
								1,666,275 Interest on 2013B

WASTEWATER RECLAMATION AUTHORITY
 Debt Service for New Money / SRF Borrowings 2011-2016
 Fiscal Year 2020

	Debt Servicing								
	Altoona (Expansion)	Ankeny (Expansion)	Bondurant (Expansion)	Clive (Expansion)	Cumming (Expansion)	Des Moines	Greenfield Plaza	Johnston	Norwalk (Expansion)
2011-16 / New Core SRF									
Percentage	4.299%	10.180%	1.074%	3.267%	0.051%	49.997%	0.502%	2.573%	1.782%
Principal	121,404	287,483	30,330	92,260	1,440	1,411,915	14,176	72,662	50,324
Interest	118,891	281,532	29,702	90,350	1,410	1,382,689	13,883	71,157	49,282
Gross Principal and Interest Estimate	240,294	569,015	60,032	182,610	2,851	2,794,604	28,060	143,819	99,606
Net Debt Service	240,294	569,015	60,032	182,610	2,851	2,794,604	28,060	143,819	99,606
2011-16 / New Expansion SRF									
Percentage	10.143%	24.020%	2.535%	7.708%	0.120%	0.000%	0.000%	0.000%	4.205%
Principal	123,339	292,083	30,826	93,729	1,459	0	0	0	51,133
Interest	100,370	237,689	25,085	76,274	1,187	0	0	0	41,610
Gross Principal and Interest Estimate	223,709	529,772	55,911	170,004	2,647	0	0	0	92,743
Net Debt Service	223,709	529,772	55,911	170,004	2,647	0	0	0	92,743
2011-16 / New SW Area SRF									
Percentage	6.247%	14.793%	1.561%	4.747%	0.074%	33.332%	0.335%	1.715%	2.590%
Principal	127,876	302,813	31,954	97,171	1,515	682,306	6,857	35,106	53,017
Interest	80,456	190,520	20,104	61,137	953	429,285	4,314	22,088	33,357
Gross Principal and Interest Estimate	208,332	493,333	52,058	158,308	2,468	1,111,591	11,172	57,194	86,374
Net Debt Service	208,332	493,333	52,058	158,308	2,468	1,111,591	11,172	57,194	86,374
Debt Service for SRF's	672,335	1,592,121	168,000	510,922	7,965	3,906,195	39,231	201,013	278,723
Budget Adjustments (none)									
Estimate for 2011 and future issues	672,335	1,592,121	168,000	510,922	7,965	3,906,195	39,231	201,013	278,723
Reserve Interest Earnings									
Core	0	0	0	0	0	0	0	0	0
Expansion	0	0	0	0	0	0	0	0	0
SW	0	0	0	0	0	0	0	0	0
Net Debt Service or Surcharge	672,335	1,592,121	168,000	510,922	7,965	3,906,195	39,231	201,013	278,723

Included on this allocations are: 2011A 2012C D 2013A 2014A 2015B 2016A(Core) 2011B 2012B E F 2014C 2015C 2016E(Expan) 2011C D 2012G 2014D 2015A(SW)

Pleasant Hill	Polk City (Expansion)	Polk County	USSD (Expansion)	UWHS D	Waukee (Expansion)	West Des Moines (Expansion)	Total \$	Debt Issue 2011-2016
1.865%	0.492%	1.051%	7.619%	1.632%	2.412%	11.204%	100.0%	Core Borrowings
52,668	13,894	29,680	215,161	46,088	68,115	316,401	2,824,000	Percentage
51,577	13,606	29,066	210,707	45,134	66,705	309,851	2,765,543	Principal
104,245	27,501	58,746	425,867	91,221	134,820	626,252	5,589,543	Interest & Servicing
104,245	27,501	58,746	425,867	91,221	134,820	626,252	5,589,543	Gross Principal and Interest
								Net Debt Service
0.000%	1.162%	0.000%	17.978%	0.000%	5.691%	26.438%	100.0%	Expansion Borrowings
0	14,130	0	218,612	0	69,203	321,486	1,216,000	Percentage
0	11,499	0	177,901	0	56,315	261,616	989,547	Principal
0	25,628	0	396,513	0	125,518	583,103	2,205,547	Interest & Servicing
0	25,628	0	396,513	0	125,518	583,103	2,205,547	Gross Principal and Interest
								Net Debt Service
1.243%	0.715%	0.701%	11.072%	1.088%	3.505%	16.282%	100.0%	SW Area Borrowings
25,444	14,636	14,349	226,644	22,271	71,747	333,293	2,047,000	Percentage
16,009	9,209	9,028	142,597	14,012	45,141	209,697	1,287,907	Principal
41,453	23,845	23,378	369,241	36,284	116,888	542,990	3,334,907	Interest & Servicing
41,453	23,845	23,378	369,241	36,284	116,888	542,990	3,334,907	Gross Principal and Interest
								Net Debt Service
145,698	76,974	82,124	1,191,621	127,505	377,226	1,752,344	11,129,997	Estimated Debt Service
								Budget Adjustments (none)
145,698	76,974	82,124	1,191,621	127,505	377,226	1,752,344	11,129,997	SRF Debt Service Collection
0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0 TII Interest
145,698	76,974	82,124	1,191,621	127,505	377,226	1,752,344	11,129,997	Net Debt Service
								6,087,000 Principal
								5,042,997 Interest on New SRF

WASTEWATER RECLAMATION AUTHORITY

Debt Service for New Money / SRF Borrowings 2008-10, prior to Polk City joining WRA

Fiscal Year 2020

	Debt Servicing								
	Polk City Surcharge	Altoona (Expansion)	Ankeny (Expansion)	Bondurant (Expansion)	Clive (Expansion)	Cumming (Expansion)	Des Moines	Greenfield Plaza	Johnston
2008-2010 / New Core SRF									
Percentage	0.492%	4.299%	10.180%	1.074%	3.267%	0.051%	49.997%	0.502%	2.573%
Principal	5,250	45,870	108,621	11,460	34,859	544	533,468	5,356	27,454
Interest	2,658	23,228	55,003	5,803	17,652	276	270,135	2,712	13,902
Gross Principal and Interest Estimate	7,908	69,098	163,623	17,262	52,511	820	803,603	8,069	41,356
Net Debt Service	7,908	69,098	163,623	17,262	52,511	820	803,603	8,069	41,356
2008-2010 / New Expansion SRF									
Percentage	1.162%	10.143%	24.020%	2.535%	7.708%	0.120%	0.000%	0.000%	0.000%
Principal	11,132	97,170	230,112	24,285	73,843	1,150	0	0	0
Interest	8,977	78,361	185,568	19,584	59,549	927	0	0	0
Gross Principal and Interest Estimate	20,109	175,530	415,680	43,870	133,391	2,077	0	0	0
Net Debt Service	20,109	175,530	415,680	43,870	133,391	2,077	0	0	0
2008-2010 / New SW Area SRF									
Percentage	0.715%	6.247%	14.793%	1.561%	4.747%	0.074%	33.332%	0.335%	1.715%
Principal	5,077	44,354	105,030	11,083	33,704	525	236,657	2,379	12,177
Interest	3,430	29,966	70,959	7,488	22,771	355	159,888	1,607	8,227
Gross Principal and Interest Estimate	8,506	74,319	175,990	18,571	56,474	880	396,545	3,985	20,403
Net Debt Service	8,506	74,319	175,990	18,571	56,474	880	396,545	3,985	20,403
Debt Service for SRF's	36,523	318,948	755,293	79,703	242,376	3,777	1,200,148	12,054	61,759
Budget Adjustments (none)									
Net Debt Service or Surcharge	36,523	318,948	755,293	79,703	242,376	3,777	1,200,148	12,054	61,759

Included on this allocations are: 2008A B D 2009 B C 2010 A B C

Norwalk (Expansion)	Pleasant Hill	Polk County	USSD (Expansion)	UWHS D	Waukee (Expansion)	West Des Moines (Expansion)	Total \$	Debt Issue 2008-2010
1.782%	1.865%	1.051%	7.619%	1.632%	2.412%	11.204%	100.0%	Core Borrowings
19,014	19,900	11,214	81,295	17,413	25,736	119,547	1,067,000	Percentage
9,628	10,077	5,679	41,166	8,818	13,032	60,535	540,302	Principal
<u>28,642</u>	<u>29,976</u>	<u>16,893</u>	<u>122,460</u>	<u>26,231</u>	<u>38,768</u>	<u>180,082</u>	<u>1,607,302</u>	Interest & Servicing
28,642	29,976	16,893	122,460	26,231	38,768	180,082	1,607,302	Gross Principal and Interest
								Net Debt Service
4.205%	0.000%	0.000%	17.978%	0.000%	5.691%	26.438%	100.0%	Expansion Borrowings
40,284	0	0	172,229	0	54,520	253,276	958,000	Percentage
32,486	0	0	138,890	0	43,966	204,249	772,558	Principal
<u>72,770</u>	<u>0</u>	<u>0</u>	<u>311,120</u>	<u>0</u>	<u>98,486</u>	<u>457,525</u>	<u>1,730,558</u>	Interest & Servicing
72,770	0	0	311,120	0	98,486	457,525	1,730,558	Gross Principal and Interest
								Net Debt Service
2.590%	1.243%	0.701%	11.072%	1.088%	3.505%	16.282%	100.0%	SW Area Borrowings
18,389	8,825	4,977	78,611	7,725	24,886	115,602	710,000	Percentage
12,424	5,962	3,363	53,110	5,219	16,813	78,102	479,682	Principal
<u>30,813</u>	<u>14,788</u>	<u>8,340</u>	<u>131,722</u>	<u>12,944</u>	<u>41,698</u>	<u>193,704</u>	<u>1,189,682</u>	Interest & Servicing
30,813	14,788	8,340	131,722	12,944	41,698	193,704	1,189,682	Gross Principal and Interest
								Net Debt Service
132,225	44,764	25,232	565,302	39,175	178,953	831,311	4,527,542	Estimated Debt Service
								Budget Adjustments (none)
132,225	44,764	25,232	565,302	39,175	178,953	831,311	4,527,542	Net Debt Service
							2,735,000	Principal
							1,792,542	Interest on New SRF

WASTEWATER RECLAMATION AUTHORITY

Debt Service for 2016 F / ESI Phase 27 Funding / Future Debt of WRA

Fiscal Year 2020

		Debt Servicing								
		Altoona	Ankeny	Bondurant	Clive	Cumming	Des Moines	Greenfield	Johnston	Norwalk
		(Expansion)	(Expansion)	(Expansion)	(Expansion)	(Expansion)		Plaza		(Expansion)
2016 F / Core Phase 27 funding										
Percentage	Gravity Sewer	4.299%	10.180%	1.074%	3.267%	0.051%	49.997%	0.502%	2.573%	1.782%
Principal		29,225	69,205	7,301	22,209	347	339,885	3,413	17,492	12,114
Interest		39,641	93,870	9,903	30,125	470	461,025	4,629	23,726	16,432
Gross Principal and Interest Estimate		68,866	163,075	17,205	52,335	817	800,910	8,042	41,217	28,546
2016 F / Commy Phase 27 funding										
Percentage	Gravity Sewer		63.850%							
Principal			118,882							
Interest			161,269							
Gross Principal and Interest Estimate			280,152							
Core share of borrowings										
Special commy share										
Total DS (Principal)										
2017 A / Core Phase 27 funding										
Percentage	Force Main PS	4.299%	10.180%	1.074%	3.267%	0.051%	49.997%	0.502%	2.573%	1.782%
Principal		25,794	61,080	6,444	19,602	306	299,982	3,012	15,438	10,692
Interest		41,410	98,058	10,345	31,469	491	481,590	4,835	24,784	17,165
Gross Principal and Interest Estimate		67,204	159,138	16,789	51,071	797	781,572	7,847	40,222	27,857
2018 X / Core Debt for projects (Grit, Biogas, Filters & Lining)										
Percentage		4.299%	10.180%	1.074%	3.267%	0.051%	49.997%	0.502%	2.573%	1.782%
Principal		30,050	71,158	7,507	22,836	356	349,479	3,509	17,985	12,456
Interest		32,406	76,736	8,096	24,627	384	376,875	3,784	19,395	13,433
Gross Principal and Interest Estimate		62,456	147,895	15,603	47,463	741	726,354	7,293	37,380	25,889
Subtotal of Net Debt Service		198,526	750,259	49,597	150,868	2,355	2,308,836	23,182	118,820	82,292
Budget Adjustments (none)										
Net Debt Service Collection		198,526	750,259	49,597	150,868	2,355	2,308,836	23,182	118,820	82,292

Pleasant Hill	Polk City (Expansion)	Polk County	USSD (Expansion)	UWHSD	Waukee (Expansion)	West Des Moines (Expansion)	Total \$	Debt Issue ESI & Future Debt
1.865%	0.492%	1.051%	7.619%	1.632%	2.412%	11.204%	100.0%	Core Borrowings
12,678	3,345	7,145	51,795	11,094	16,397	76,166	679,810	Percentage
17,197	4,537	9,691	70,255	15,049	22,241	103,313	922,106	Principal
29,876	7,881	16,836	122,050	26,143	38,638	179,479	1,601,916	Interest & Servicing
								Gross Principal and Interest
	4.050%	32.100%					100.0%	Special Comnty Funding
	7,541	59,767					186,190	Percentage
	10,229	81,077					252,576	Principal
	17,770	140,844					438,766	Interest & Servicing
								Gross Principal and Interest
							679,810	78.50%
							186,190	21.50%
							866,000	Prin only
1.865%	0.492%	1.051%	7.619%	1.632%	2.412%	11.204%	100.0%	Percentage
11,190	2,952	6,306	45,714	9,792	14,472	67,224	600,000	Principal
17,964	4,739	10,124	73,389	15,720	23,233	107,921	963,238	Interest & Servicing
29,154	7,691	16,430	119,103	25,512	37,705	175,145	1,563,238	Gross Principal and Interest
1.865%	0.492%	1.051%	7.619%	1.632%	2.412%	11.204%	100.0%	Percentage
13,036	3,439	7,346	53,257	11,408	16,860	78,316	699,000	Principal
14,058	3,709	7,922	57,432	12,302	18,182	84,455	753,796	Interest & Servicing
27,095	7,148	15,269	110,689	23,710	35,041	162,771	1,452,796	Gross Principal and Interest
86,125	40,490	189,378	351,842	75,365	111,385	517,395	5,056,716	Subtotal Net Debt Service
							0	Budget Adjustments (none)
86,125	40,490	189,378	351,842	75,365	111,385	517,395	5,056,716	Net Debt Service

WASTEWATER RECLAMATION AUTHORITY
 Debt Service for 2016 F / ESI Phase 27 Funding / Future Debt of WRA
 Fiscal Year 2019 Amending w/ FY 2020 Budget Approval

		Debt Servicing								
		Altoona	Ankeny	Bondurant	Clive	Cumming	Des Moines	Greenfield	Johnston	Norwalk
		(Expansion)	(Expansion)	(Expansion)	(Expansion)	(Expansion)		Plaza		(Expansion)
2016 F / Core Phase 27 funding										
Percentage	Gravity Sewer	4.264%	9.801%	0.996%	3.351%	0.042%	50.568%	0.486%	2.364%	1.856%
Principal		28,150	64,705	6,575	22,123	277	333,842	3,208	15,607	12,253
Interest		37,645	86,530	8,793	29,585	371	446,449	4,291	20,871	16,386
Gross Principal and Interest Estimate		65,796	151,235	15,369	51,708	648	780,291	7,499	36,478	28,639
2016 F / Commtly Phase 27 funding										
Percentage	Gravity Sewer		63.850%							
Principal			115,450							
Interest			164,733							
Gross Principal and Interest Estimate			280,183							
Core share of borrowings										
Special commtly share										
Total DS (Principal)										
2017 A / Core Phase 27 funding										
Percentage	Force Main PS	4.264%	9.801%	0.996%	3.351%	0.042%	50.568%	0.486%	2.364%	1.856%
Principal		0	0	0	0	0	0	0	0	0
Interest		12,058	27,716	2,817	9,476	119	143,001	1,374	6,685	5,249
Gross Principal and Interest Estimate		12,058	27,716	2,817	9,476	119	143,001	1,374	6,685	5,249
2017 X / Core Debt for projects (ESI, Grit, Biogas injection,)										
Percentage		4.264%	9.801%	0.996%	3.351%	0.042%	50.568%	0.486%	2.364%	1.856%
Principal		0	0	0	0	0	0	0	0	0
Interest		7,675	17,642	1,793	6,032	76	91,022	875	4,255	3,341
Gross Principal and Interest Estimate		7,675	17,642	1,793	6,032	76	91,022	875	4,255	3,341
Subtotal of Net Debt Service		85,529	476,776	19,978	67,216	842	1,014,315	9,748	47,418	37,228
Budget Adjustments (none)										
Net Debt Service Collection		85,529	476,776	19,978	67,216	842	1,014,315	9,748	47,418	37,228

AMENDED F2019

Pleasant Hill	Polk City (Expansion)	Polk County	USSD (Expansion)	UWHSD	Waukee (Expansion)	West Des Moines (Expansion)	Total \$	Debt Issue ESI & Future Debt
1.734%	0.514%	0.941%	7.533%	1.629%	2.251%	11.670%	100.0%	Core Borrowings
11,448	3,393	6,212	49,732	10,754	14,861	77,044	660,185	Percentage
15,309	4,538	8,308	66,506	14,382	19,873	103,031	882,868	Principal
26,757	7,931	14,520	116,238	25,136	34,734	180,074	1,543,053	Interest & Servicing
								Gross Principal and Interest
	4.050%	32.100%					100.0%	Special Commtly Funding
	7,323	58,042					180,815	Percentage
	10,449	82,818					258,000	Principal
	17,772	140,860					438,815	Interest & Servicing
								Gross Principal and Interest
							660,185	78.50%
							180,815	21.50%
							841,000	Prin only
1.734%	0.514%	0.941%	7.533%	1.629%	2.251%	11.670%	100.0%	Percentage
0	0	0	0	0	0	0	0	Principal
4,904	1,454	2,661	21,303	4,607	6,366	33,002	282,790	Interest & Servicing
4,904	1,454	2,661	21,303	4,607	6,366	33,002	282,790	Gross Principal and Interest
1.734%	0.514%	0.941%	7.533%	1.629%	2.251%	11.670%	100.0%	Percentage
0	0	0	0	0	0	0	0	Principal
3,121	925	1,694	13,559	2,932	4,052	21,006	180,000	Interest & Servicing
3,121	925	1,694	13,559	2,932	4,052	21,006	180,000	Gross Principal and Interest
34,781	28,082	159,735	151,100	32,675	45,152	234,082	2,444,658	Subtotal Net Debt Service
							0	Budget Adjustments (none)
34,781	28,082	159,735	151,100	32,675	45,152	234,082	2,444,658	Net Debt Service

WASTEWATER RECLAMATION AUTHORITY

Debt Service Summary
Fiscal Year 2019, 2020

AMENDED		Budget	
Budget	2019	Budget	2020

SRF Interest includes fees

2018 Prin Bal & Prin Paid

New SRF Bond Issues

			Principal F19	Interest	Principal	Interest	
2010C	Digester	15,840,582	999,000	1,032,000	513,570	1,066,000	485,030
2010C	Digester, BAB	1,994,000	1,000	1,000	55,303	1,000	55,272
2011A, 2012+	P17 NMO	91,080,580	2,661,000	2,741,000	2,848,630	2,824,000	2,765,543
2017 a	P27 ESI #2	3,955,047			282,788	600,000	963,238
2018 A	Grit Handling #1	1,544,160			57,597	0	84,000
2018 E	Grit Handling #2				11,583	0	102,925
2018 D1	BioGas Cond #1				40,371	1,000	193,715
2018 D2	BioGas Cond #2				2,030	1,000	124,490
2018 F	T-Filter Removal				10,182	247,000	108,723

Core Subtotal 114,414,369 3,661,000 3,774,000 3,822,054 4,740,000 4,882,936

2008B D, 2009B C, 2010B		27,419,000	0	928,000	920,335	958,000	772,558
2011B	P23,24 Four Mile Creek	13,674,000	399,000	412,000	447,980	426,000	434,590
2012B		2,456,000	67,000	69,000	79,820	71,000	77,577
2012E	P19 Mud Creek	11,053,473	297,000	306,000	334,782	315,000	325,650
2012F		1,295,000	34,000	36,000	38,850	37,000	37,770
2014C		4,061,880	246,000	251,000	93,520	256,000	88,500
2015C Amended		1,521,000	82,000	83,000	15,210	83,000	14,380
2016E		551,904	27,000	27,000	11,620	28,000	11,080

Expansion Subtotal 62,032,257 2,051,000 2,112,000 1,867,088 2,174,000 1,762,105

2008A	2018G	13,272,000	449,000	463,000	348,390	477,000	256,180
2010A		7,103,000	219,000	226,000	230,848	233,000	223,502
2011C		8,270,000	239,000	247,000	268,775	255,000	260,748
2011D Amended		13,956,861	392,000	402,000	370,049	413,000	359,436
2012G Amended		22,366,000	625,000	639,000	507,708	654,000	493,203
2014D		5,195,000	273,000	279,000	103,900	284,000	98,320
2015A Amended		7,974,300	433,000	437,000	80,570	441,000	76,200

SW Subtotal 78,137,161 2,630,000 2,693,000 1,910,240 2,757,000 1,767,589

Future Core Subtotal ESI #1 21,584,800 0 187,003 450,000 139,944

(New) SRF Bond Issue Total 276,168,587 8,342,000 8,579,000 7,786,383 10,121,000 8,552,574

2013B Bond Issue 48,730,000

Core 2004/13			1,030,701	1,064,275	831,748	1,151,602	799,820
Expan 2004/13			565,108	586,224	607,903	758,639	590,316
SW 2004/13			264,191	274,501	284,374	354,759	276,139

2013B Subtotal 1,860,000 1,925,000 1,724,025 2,265,000 1,666,275

2015E Bond Issue 29,665,000

Core 2006/15			295,522	308,441	268,300	324,832	252,878
Expan 2006/15			351,493	368,541	320,740	389,345	302,313
SW 2006/15			477,985	508,018	439,504	530,823	414,103

2015E Subtotal 1,125,000 1,185,000 1,028,544 1,245,000 969,294

Core 2016F 660,185 882,868 679,810 922,106
Special Rock Creek Allocation 180,815 258,000 186,190 252,576

2016F ESI \$40 M 841,000 1,140,868 866,000 1,174,682

Bond Issue Total for Projects 11,327,000 12,530,000 11,679,820 14,497,000 12,362,824

Other Bond Issue Total 3,358,677 443,000

11,770,000 Prin Pd F18

357,922,264 Debt Bal 6/30/18 Budget Debt Service 12,530,000 24,209,820 14,497,000 26,859,824