

**City of Kearney  
Utilities Department  
2016-2017  
October - September  
Annual Report**



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## General Information

The City of Kearney Utilities Department provides water, sanitary sewer and refuse collection services to the citizens of Kearney. Residents receive monthly bills for these services. The Utilities Department also manages the Kearney Area Solid Waste Agency Landfill. The Utilities Department operates as an enterprise fund. The rates charged provide all the revenue necessary to operate the Utilities Department. No Tax Money Assists These Funds.

For more information contact any of the following City offices:

Utility Billing	233-3240
Landfill Billing	233-3617
Sanitation Supervisor	233-3206
Water Distribution Supervisor	233-3242
Water Quality/Utilities Coordinator	233-3258
Water Production Supervisor	233-3241
Sanitary Sewer Collection	233-3242
Director of Utilities	233-3259
Assistant Director of Utilities	233-3238
GIS Coordinator	233-3250
Emergency after hours	237-2104

## GIS Division

### Infrastructure

<b>Layer</b>	<b>2016-17 Number of Feature</b>	<b>2015-16 Number of Feature</b>	<b>2014-15 Number of Feature</b>
Fire hydrant	1,736	1,708	1,645
Water valve	4,282	3,717	3,454
Water pipe	6,735	6,110	5,654
Storm sewer manhole	805	760	721
Storm sewer inlet	4,585	4,389	4,251
Storm sewer pipe	5,610	5,328	5,131
Storm sewer ends & outfall	476	393	355
Sanitary sewer manhole	3,332	3,231	3,072
Sanitary sewer pipe	3,713	3,574	3,406
Street Centerline	2,487	2,463	2,443
Address	19,671	19,602	19,379

### Land Base

	<b>2016-17</b>	<b>2015-16</b>	<b>2014-15</b>	<b>Total Features</b>
Annexations	4	4	10	325
Subdivision	21	15	22	860
Legal lot	98	64	235	15,684
Zoning	20	15	27	1,202
Vacation	22	13	17	1,184
Minor subdivision	14	0	9	1,056

### Area of City

End of Year	Square Feet	Acres	Square Miles
2017	400,860,596	9,202.49	14.38
2016	398,800,762	9,155.21	14.31
2015	396,386,458	9,099.78	14.22
2014	392,986,010	9,021.72	14.10
2013	383,123,209	8,795.30	13.74
2012	371,899,568	8,537.64	13.34
2011	370,312,435	8,501.20	13.28
2010	369,141,084	8,474.31	13.24
2009	362,752,535	8,327.65	13.01
2008	352,643,966	8,095.59	12.65
2007	350,184,402	8,039.13	12.56

### Residential Lots Available

	Oct. 2017	Oct. 2016	Oct. 2015	Oct. 2014
Platted inside City limits with City water/sanitary sewer	488	437	456	374
Platted inside City limits with no City water/sanitary sewer	140	209	236	259
Platted outside City limits with no City water/sanitary sewer	157	157	142	140

### Kearney Area Solid Waste Agency Landfill

#### Waste Received by Type

	2016-17 Annual Total	2016-17 Monthly Average	2015-16 Annual Total	2015-16 Monthly Average
Construction demolition (tons)	17,370.90	1,447.60	18,504.20	1,542.00
Compacted waste (tons)	29,397.90	2,449.80	28,770.00	2,397.50
Total waste (tons)	51,411.20	4,284.30	52,471.10	4,372.60
Total number of vehicles	46,754	3,896.20	46,933	3,911.00

### Sanitation Division

	2016-17 Annual Total	2016-17 Monthly Average	2015-16 Annual Total	2014-15 Annual Total
Refuse containers placed for new homes	132	11	104	83
90-gallon containers repaired	680	56.7	504	462
300-gallon containers repaired	32	2.7	21	26
Metal dumpsters repaired	212	17.7	204	183
Refuse collected (tons) **	19,660.5	1,638.4	19,197.4	26,910.3

\*\* Roll-off box tonnage not included in total

**Processed Recyclables**

	<b>2016-17 Annual Total</b>	<b>2016-17 Monthly Average</b>	<b>2015-16 Annual Total</b>	<b>2014-15 Annual Total</b>
Office paper (ton)	32.5	2.7	34.5	39
Newspaper (ton)	952	79.3	1,102.8	1,152.74
Aluminum (ton)	17.7	1.5	19.8	16.4
Tin (ton)	57.5	4.8	62.6	59.9
Glass (ton)	187	15.6	188.6	157.8
Plastic (ton)	247.6	20.6	250.5	243.6
Cardboard (ton)	2,430.2	202.5	2,389.4	2,317.4
Total recycled (tons)	3,924.5	327	4,048.2	3,986.8
Motor oil (gallons)	10,906	908.8	10,569	10,112
Recycling revenue	\$349,018.61	\$29,084.88	\$199,244.32	\$311,860.58
Landfill avoidance savings	\$107,923.75	\$8,993.65	\$111,325.50	\$109,637.00
Total value of recyclables	\$456,942.36	\$38,078.52	\$310,569.82	\$421,497.58

**Water Quality/Utilities Coordinator**

	<b>2016-17 Annual Total</b>	<b>2015-16 Annual Total</b>	<b>2014-15 Annual Total</b>	<b>2013-14 Annual Total</b>
Lawn sprinkler system inspection	158	149	141	141
Backflow inspection	174	159	155	161
Notification to test backflow device	395	365	349	345
Backflow test reports filed	519	529	524	500
“Diggers Hot Line” locate	5,459	6,016	5,750	5,646

**Sewer Collection Division**

	<b>2016-17 Annual Total</b>	<b>2015-16 Annual Total</b>	<b>2014-15 Annual Total</b>	<b>2013-14 Annual Total</b>
Sanitary sewer main cleaned (feet)	273,770	266,042	107,367	92,897
Sanitary sewer call responded	83	94	72	88
Sanitary sewer main unblocked	15	18	17	18
Sanitary sewer main unblocked	18.0%	19.0%	23.6%	20.0%
Sanitary sewer service line blocked, resident responsibility	68	76	55	70
Sanitary sewer televised (feet)	3,000	2,500	3,000	2,000
Sanitary sewer main in system (mile)	182.18	175.80	167.72	163.87

**Water Distribution Division**



	<b>2016-17 Annual Total</b>	<b>2015-16 Annual Total</b>	<b>2014-15 Annual Total</b>	<b>2013-14 Annual Total</b>
1" water service installed	28	54	40	31
2", 4", 6" & 8" water service installed	12	7	7	12
Water service lines repaired	69	53	56	51
Lead water service replaced	7	8	8	18
Fire hydrant replaced	0	3	4	4
Water main valve replaced	2	3	4	4
Line stop installed	1	3	0	2
Water main break repaired	4	3	11	4
Fire hydrant flushed & flow tested	3,419	2,637	1,540	1,070
Fire hydrant adjusted to grade	17	14	21	22
Water main valve exercised	2,643	3,256	3,105	2,744
Fire hydrant repaired (struck by vehicles)	9	5	7	3
Fire hydrant painted	213	390	321	496
Water main in system (mile)	225.81	212.60	210.11	208.74
Fire hydrant in system	1,740	1,708	1,645	1,608
Water main valve in system	4,645	4,535	4,354	4,223

**Water Production Division**

	<b>2016-17 Annual Total</b>	<b>2015-16 Annual Total</b>	<b>2014-15 Annual Total</b>	<b>2013-14 Annual Total</b>
Total water pumped (M gal)	2,254.662	2,264.730	2,216.142	2,044.343
Average daily water demand (gallon)	6,177,156.16	6,204,739.00	5,974,984.00	5,600,939.00
Total water pumped Platte River Well Field (M gal)	1,575.183	1,659.407	1,693.539	1,516.645
Total water pumped Northwest Well Field (gallon)	679.769	608.714	486.911	529.613
High day total pumped (M gal): <u>07/10/17</u>	15.562	15.389	13.895	14.042
High day total pumped Platte River Well Field (M gal): <u>07/10/17</u>	10.458	11.989	10.649	10.496
High day total pumped Northwest Well Field (M gal): <u>07/10/17</u>	5.104	4.335	3.655	4.124
Low day total pumped (M gal): <u>03/24/17</u>	1.974	2.582	2.896	2.972
Low day total pumped Platte River Well Field (M gal): <u>03/24/17</u>	1.257	1.745	2.019	2.218
Low day total pumped Northwest Well Field (M gal): <u>03/29/17</u>	0.716	0.510	0.430	0.424
Total fluoride (lbs)	49,464.73	49,713.60	47,845.99	44,893.51
Total chlorine 10% solution (lbs)	376,186.73	378,654.69	363,821.07	341,329.90
Meter issued	475	394	356	388
Old meter replaced	335	230	181	223
Total meter in system	10,939	10,780	10,657	10,469
New water service	140	127	175	165
Water meter received	633	386	336	379
Old water meter, repaired	8	9	2	13
New water meter, Sensus	558	377	334	366
Biological sample taken	875	893	844	817
Fluoride sample taken	12	12	12	13
Chlorine residual sample taken	2,275	2,278	2,300	2,306
Nitrate sample taken	2	2	2	0
pH sample taken	365	366	365	365
Water temperature sample taken	710	730	688	726
Particulate sample taken	91	97	101	97
Conductivity sample taken	407	421	404	413
Atrazine sample taken	0	0	0	0
TDS sample taken	728	730	778	877
SOC sample taken	39	68	39	143
THM sample taken	0	0	8	0
Radiochemistry sample taken	4	3	4	5
Arsenic sample taken	1	2	1	1
River aerobic spore sample taken	0	0	0	28

**Daily Water Consumption October 2016 – March 2017 (M gal)**



<b>Date</b>	<b>October</b>	<b>November</b>	<b>December</b>	<b>January</b>	<b>February</b>	<b>March</b>
1	8.549	6.306	3.277	3.079	2.329	3.547
2	8.342	6.471	3.479	3.349	3.454	3.666
3	9.390	5.581	3.244	3.338	3.225	3.470
4	8.112	6.550	3.424	3.239	3.508	3.665
5	8.871	5.699	3.394	3.296	3.467	3.592
6	8.132	5.102	3.586	3.523	3.513	3.822
7	7.571	4.892	3.288	3.473	3.384	3.770
8	7.027	4.219	3.399	3.447	3.525	3.655
9	7.329	4.497	3.350	3.480	3.431	3.545
10	8.690	4.073	3.378	3.519	3.564	3.284
11	8.183	4.666	3.388	3.395	3.388	3.282
12	6.935	3.793	3.576	3.474	3.469	3.579
13	6.081	3.927	3.287	3.297	3.604	3.444
14	5.975	4.540	3.543	3.547	3.533	3.562
15	6.158	4.663	3.362	3.390	3.523	3.321
16	6.509	4.579	3.275	3.274	3.476	3.665
17	6.437	4.005	3.682	3.387	3.374	3.601
18	6.827	3.362	5.421	3.368	3.507	3.602
19	6.664	3.258	3.732	3.411	3.594	3.581
20	6.401	3.602	3.722	3.280	3.603	3.717
21	6.403	3.619	3.616	3.494	3.852	3.770
22	6.187	3.988	3.603	3.462	3.648	3.480
23	6.085	3.368	3.378	3.511	3.787	2.117
24	6.614	2.642	3.125	3.383	3.436	1.974
25	6.930	3.589	2.854	3.365	3.668	3.409
26	6.738	3.157	3.325	3.274	3.637	3.221
27	6.978	3.459	3.350	3.471	3.654	3.441
28	7.039	3.504	3.366	3.372	3.671	3.669
29	6.535	3.319	3.304	3.394		3.559
30	5.701	3.438	3.234	3.491		3.449
31	6.649		3.244	3.208		3.695
<b>Total</b>	<b>220.042</b>	<b>127.868</b>	<b>107.206</b>	<b>104.991</b>	<b>97.824</b>	<b>107.154</b>

High daily consumption of the month =   
 Low daily consumption of the month = 



**Daily Water Consumption April 2017 – September 2017 (M gal)**

<b>Date</b>	<b>April</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>August</b>	<b>September</b>
1	3.284	4.164	6.298	11.395	9.415	8.183
2	3.503	4.579	6.586	11.560	10.210	7.228
3	3.581	4.336	6.892	12.582	9.615	7.558
4	3.729	4.478	7.326	12.269	10.330	9.111
5	3.706	5.151	8.867	13.032	8.992	8.280
6	3.834	5.756	7.900	13.541	8.780	9.420
7	4.216	7.398	9.006	14.175	9.830	8.850
8	4.469	8.060	9.436	13.116	9.336	10.801
9	4.590	7.078	10.819	13.767	9.585	8.376
10	4.710	5.748	10.069	15.562	8.589	8.811
11	4.447	5.512	10.194	14.892	9.289	11.150
12	4.699	5.760	10.680	12.836	7.734	9.522
13	5.334	5.463	10.181	10.478	7.250	11.669
14	4.358	6.052	10.038	10.363	7.866	10.987
15	4.232	7.820	10.331	9.783	6.803	11.052
16	4.085	6.097	11.536	11.373	6.539	8.806
17	5.370	5.202	9.870	11.380	6.249	8.582
18	5.285	4.645	9.301	8.864	7.214	10.087
19	5.284	4.857	11.711	9.094	6.995	8.862
20	5.453	4.010	12.013	10.305	6.934	10.515
21	6.497	4.221	13.668	11.896	7.720	9.281
22	5.900	4.628	12.546	11.092	7.633	10.511
23	6.154	4.426	11.865	11.083	8.955	8.689
24	6.931	5.135	10.570	12.558	8.318	6.800
25	5.836	5.353	11.056	11.469	9.542	7.006
26	6.376	6.306	11.232	10.894	7.524	5.800
27	5.168	5.713	10.213	9.709	6.852	6.167
28	5.078	5.127	8.940	10.948	6.988	6.315
29	4.369	6.604	8.767	9.211	6.924	7.185
30	4.195	7.695	9.938	8.499	7.785	6.111
31		7.579		9.446	7.419	
<b>Total</b>	<b>144.673</b>	<b>174.953</b>	<b>297.849</b>	<b>357.172</b>	<b>253.215</b>	<b>216.715</b>

High daily consumption of the month =   
 Low daily consumption of the month = 

### Microbiological Analysis of Total Coliform Analysis

	Number of Samples	Positive Coliform Samples
October 2016	40	0
November 2016	40	0
December 2016	40	0
January 2017	40	0
February 2017	40	0
March 2017	40	0
April 2017	40	0
May 2017	40	0
June 2017	40	0
July 2017	40	0
August 2017	40	0
September 2017	40	0
<b>Total 2016-2017</b>	<b>480</b>	<b>0</b>

### Raw Water Quality

	Analysis Average
pH	7.50
Total dissolved solids	575 (TDS)
Electrical conductivity	0.91 mmho/cm
Cation/Anion	9.2 me/L
Sodium, Na	84 ppm
Calcium, Ca	65 ppm
Magnesium, Mg	21 ppm
Potassium, K	16 ppm
Total hardness, CaCO <sub>3</sub>	276 ppm
Nitrate, N	1.78 ppm
Sulfate, S	71 ppm
Carbonate, CO <sub>3</sub>	0.5 ppm
Bicarbonate, HCO <sub>3</sub>	266 ppm
Chloride, Cl	31 ppm
Total alkalinity, CaCO <sub>3</sub>	200 ppm
Iron, Fe	0.12 ppm
Fluoride, F	0.91 ppm

### Volatile Organic Compounds found in Raw Water

Compound	Water Results	MLC or AL
1,1,1,2-Tetrachlorethane	<RL	
1,1,1-Trichloroethane	<RL	200 µg/L
1,1,2,2-Tetrachloroethane	<RL	
1,1,2-Trichloroethane	<RL	5 µg/L
1,1-Dichloroethane	<RL	
1,1-Dichloroethene	<RL	7 µg/L
1,1-Dichloropropene	<RL	
1,2,3-Trichlorobenzene	<RL	
1,2,3-Trichloropropane	<RL	

1,2,4-Trichlorobenzene	<RL	70 µg/L
1,2,4-Trimethylbenzene	<RL	
1,2-Dichlorobenzene	<RL	600 µg/L
1,2-Dichloroethane	<RL	5 µg/L
1,2-Dibromoethane (EDB)	<RL	
1,2-Dichloropropane	<RL	5 µg/L
1,3,5-Trimethylbenzene	<RL	
1,3-Dichlorobenzene	<RL	
1,3-Dichloropropane	<RL	
1,4-Dichlorobenzene	<RL	75 µg/L
2,2-Dichloropropane	<RL	
2-Chlorotoluene	<RL	
4-Chlorotoluene	<RL	
Benzene	<RL	5 µg/L
Bromobenzene	<RL	
Bromochloromethane	<RL	
Bromodichloromethane (THM)	6.12 µg/L	
Bromoform	4.36 µg/L	
Bromomethane	<RL	
Carbon Tetrachloride	<RL	5 µg/L
Chlorobenzene	<RL	100 µg/L
Chloroethane	<RL	
Chloroform	1.75 µg/L	
Chloromethane	<RL	
Cis-1,2-Dichloroethene	<RL	70 µg/L
Cis-1,3-Dichloropropene	<RL	
Dibromochloromethane (THM)	11.4 µg/L	
1,2-Dibromo-3-chloropropane	<RL	
Dibromomethane	<RL	
Dichlorodifluoromethane	<RL	
Dichlormethane	<RL	5 µg/L
Ethylbenzene	<RL	700 µg/L
Hexachlorobutadiene	<RL	
Isopropylbenzene	<RL	
M,P-Xylenes	<RL	
Methyl-T-butyl-ether (MTBE)	<RL	
n-Butylbenzene	<RL	
n-Propylbenzene	<RL	
Naphthalene	<RL	
O-Xylene	<RL	
P-Isopropyltoluene	<RL	
Sec-Butylbenzene	<RL	
Styrene	<RL	100 µg/L
Tert-Butylbenzene	<RL	
Tetrachloroethene	<RL	5 µg/L
Toluene	<RL	1000 µg/L
Total Trihalomethanes (TTHM)	23.6 µg/L	80 µg/L

Trans-1,2-Dichloroethene	<RL	100 µg/L
Trans-1,3-Dichloropropene	<RL	
Trichloroethene	<RL	5 µg/L
Trichlorofluoromethane	<RL	
Vinyl Chloride	<RL	2 µg/L

#### Synthetic Organic Compounds found in Raw Water

Compound	Water Results	MLC or AL
Aalachlor	<RL	2 µg/L
Aldrin	<RL	
Atrazine	<RL	3 µg/L
Benzo(a)pyrene	<RL	0.2 µg/L
Butachlor	<RL	
Butylate	<RL	
Chlorpyrifos	<RL	
Cyanazine	<RL	
Di(2-ethylhexyl)adipate	<RL	400 µg/L
Di(2-ethylhexyl)Phthalate	<RL	6 µg/L
Dieldrin	<RL	
Endrin	<RL	2 µg/L
Fonofos	<RL	
Heptachlor	<RL	0.4 µg/L
Heptachlor Epoxide	<RL	0.2 µg/L
Hexachlorobenzene	<RL	1 µg/L
Hexachlorocyclopentadiene	<RL	50 µg/L
Lindane	<RL	0.2 µg/L
Methoxychlor	<RL	40 µg/L
Metolachlor	<RL	
Metribuzin	<RL	
Propachlor	<RL	
Simazine	<RL	4 µg/L
Total Chlordane	<RL	2 µg/L
Trifluralin	<RL	

#### Inorganic Compounds found in Raw Water

Compound	Water Results	MLC or AL
Cyanide	<RL	0.2 µg/L
Sulfate	224	
Antimony, Total	<RL	6 µg/L
Thallium, Total	<RL	2 µg/L
Nickel, Total	<RL	100 µg/L
Beryllium, Total	<RL	4 µg/L

MLC = Maximum Contaminate Level – The concentration of the analysis which has been determined by the EPA to put the public at risk. Concentrations below this level are considered acceptable.

- AL = Action Levels (AL) apply only to lead and copper and are not based on known or expected health effects. An Action Level is the concentration of a contaminant in a sample which, if exceeded and grouped with other samples, triggers treatment techniques or other requirements which a water system must follow.
- <RL = Less than Reporting Limit. The lowest amount of the analyte that can be accurately reported by the method used.
- µg/L = Parts Per Billion

### Wastewater Treatment Plant Division

<b>Annual Average</b>	<b>2016-17</b>	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
Effluent BOD (mg/l)	3.7	3.7	4.3	3.5	3.9
Effluent suspended solids (mg/l)	5.2	4.1	5.1	3.8	4.5
Effluent pH (standard unit)	7.41	7.40	7.34	7.35	7.30
Effluent temperature (°F)	60.5	61.5	61.1	16.8°C	15.8°C
Effluent NO3 (mg/l)	23.51	19.37	26.96	13.86	9.97
Effluent dissolved oxygen (mg/l)	5	5	5	5	3
Effluent alkalinity (mg/l)	0	0	0	165	126
Influent BOD (mg/l)	147	163	162	163	178
Influent suspended solids (mg/l)	221	227	243	229	231
Influent pH (standard unit)	7.52	7.53	7.52	7.52	7.56
Influent temperature (°F)	60.52	61.49	61.14	16.79°C	15.75°C
Effluent NH3-N (mg/l)	0.49	0.44	0.76	0.58	0.51
Influent NH3-N (mg/l)	23.94	23.94	25.26	25.08	25.61
	<b>2016-17</b>	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
Total influent flow (B gal)	1.25	1.14	1.18	1.20	1.16
Average daily influent flow (M gal/day)	3.43	3.36	3.28	3.28	3.18
Total effluent flow (B gal)	1.34	1.21	1.25	1.27	1.25
Average daily effluent flow (M gal/day)	3.69	3.59	3.47	3.48	3.42
Total R.A.S. flow (M gal)	772.40	736.75	752.96	624.78	656.53
Average daily R.A.S. flow (M gal/day)	2.14	2.23	2.09	1.71	1.80
Total W.A.S. flow (M gal)	10.00	9.00	9.00	9.00	9.92
Average daily W.A.S. flow (gal/day)	28,481	25,990	23,642	23,509	27,215
	<b>2016-17</b>	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
Sludge pumped (M gal)	6.4	6.4	7.0	7.0	6.8
Sludge hauled (ton)	3,597	3,436	3,791	3,822	3,630
Sludge hauled (Cu Yd)	3,777	3,608	3,981	3,992	3,811
Total belt press operation (day)	151	168	168	162	158
Total polymer used (lbs)	3,245	3,270	3,649	3,987	4,404
Average daily sludge hauled (ton)	23.82	20.45	22.57	23.59	22.97
Average feed solids (%)	4.3	4.0	4.1	4.3	3.6
Average cake solids (%)	25.5	24.6	23.7	24.8	23.3
Average sludge pumped (gal/day)	42,388	42,798	41,467	42,170	43,133
Average polymer used (lbs/day)	21.6	22.3	21.8	24.1	28.4
Total plant alarm	67	13	13	0	10
Total lift station alarm	69	13	13	0	10
	<b>2016-17</b>	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
BOD reduction (%)	97	98	97	98	98
Suspended solids reduction (%)	97.6	98.0	97.7	98.3	98.0
Ammonia reduction (%)	98	98	97	98	98
Total water used (M gal)	0.00	0.00	0.00	0.00	0.00
Average e-coli (May 1 <sup>st</sup> – Sept. 30 <sup>th</sup> )	66.4	95.9	90.4	71.3	17.11
Total hypochlorite used (gal/5 months)	29,598.5	30,823.4	33,084.7	30,360.3	28,255.1