

The City of Durant encourages participation from all its citizens. If participation at any public meeting is not possible due to a disability, notification to the City Clerk at least 48 hours prior to the scheduled meeting is encouraged in order to make the necessary accommodations. The City of Durant may waive the 48-hour rule if interpreters for the deaf (signing) or translation services for limited English proficient (LEP) individuals are not the necessary accommodation.

THE DURANT CITY UTILITIES AUTHORITY / DCUA

6:00 PM

**Roscoe J. Hatfield
Council Chambers, 300
West Evergreen,
Durant, Oklahoma
AGENDA**

January 8, 2019

**DURANT CITY HALL
300 W. EVERGREEN, DURANT, OK
ROSCOE J. HATFIELD COUNCIL CHAMBERS**

CALL TO ORDER

ROLL CALL

ORDER OF BUSINESS

1. Consent Items

To help streamline meetings and allow the focus to be on other items requiring strategic thought, the "Consent Items" portion of the agenda groups the routine, procedural, and self-explanatory non-controversial items together. These items are voted on in a single motion (one vote). However, any Council member requesting further information on a specific item thus removes it from the "Consent Items" section for individual attention and separate vote.

- a. Consider Approval of Regular Meeting Minutes of December 11, 2018

2. Consider Items Removed from Consent

3. Information Items

- a. Landfill Information & Reports - December 2018
- b. Solid Waste Department Monthly Report - December 2018
- c. Utility Department Monthly Report - December 2018
- d. Utility Line Maintenance Report- December 2018
- e. Waste Water Treatment Plant and Lab Monthly Reports - December 2018
- f. Water Treatment Plant Monthly Reports - December 2018

4. Administration

ADJOURNMENT**CERTIFICATE**

This is to certify that in conformity with the Oklahoma Open Meeting Act, public notice of the date, time and place of this meeting was filed with the City Clerk of Durant on the 13th day of November, 2018 and that an agenda of said meeting was posted at the place of such meeting at 5:20 p.m. on the 4th day of January, 2019.

Cynthia J. Price, City of Durant



The City of Durant

Office of City Clerk

Memorandum

Date: 12/20/2018
To: Utilities Authority
From: Cynthia J. Price, City Clerk
Re: Consider Approval of Regular Meeting Minutes of December 11, 2018

Council Information / Action Requested

Approval of Regular Meeting Minutes of December 11, 2018

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

Description	Type	Upload Date
Minutes 12.11.2018	Exhibit	12/20/2018

This is to certify that in conformity with the Oklahoma Open Meeting Act, public notice of the date, time and place of this meeting was filed with the City Clerk of Durant on the 14th day of November, 2017 and that an agenda of said meeting was posted at the place of such meeting at 3:20 p.m. on the 7th day of December, 2018.

MINUTES OF THE REGULAR SCHEDULED MEETING OF THE DURANT CITY UTILITIES AUTHORITY OF December 11, 2018 AT 6:00 PM, Roscoe J. Hatfield Council Chambers, 300 West Evergreen, Durant, Oklahoma

CALL TO ORDER

Chairman Tomlinson called the meeting to order at 8:37 p.m.

ROLL CALL

Present: Trustee Oden Grube	City Attorney Tom Marcum
Trustee Mike Dills	City Manager Tim Rundel
Trustee Destry Hawthorne	City Clerk Cynthia J. Price
Vice Chairman Chad Hitchcock	
Chairman Jerry Tomlinson	

Absent: None (*denotes partial attendance)

Chairman Tomlinson declared a quorum.

1. Consent Items

To help streamline meetings and allow the focus to be on other items requiring strategic thought, the "Consent Items" portion of the agenda groups the routine, procedural, and self-explanatory non-controversial items together. These items are voted on in a single motion (one vote). However, any Council member requesting further information on a specific item thus removes it from the "Consent Items" section for individual attention and separate vote.

a. Consider Approval of Regular Meeting Minutes of November 13, 2018

b. Consider Approval of Amended Repayment, Promissory Note and Loan Agreement Between the Durant City Utilities Authority and the Durant Industrial Authority Regarding CDBG-EDIF Loan/Contract No. 12101 CDBG ED 05 Earth Bio-Fuels

Approved

Motion was made by Destry Hawthorne and seconded by Chad Hitchcock to approve consent items as presented.

Motion Passed with the following vote:

Ayes: Dills, Grube, Hawthorne, Hitchcock, Tomlinson

2. Consideration Items Removed from Consent

3. Information Items

- a. Landfill Information & Reports - November 2018
- b. Solid Waste Department Monthly Report - November 2018
- c. Utility Department Monthly Report - November 2018
- d. Utility Line Maintenance Report- November 2018
- e. Waste Water Treatment Plant and Lab Monthly Report - November 2018
- f. Water Treatment Plant Monthly Report - November 2018

4. Administration

Adjournment

Motion was made by Chad Hitchcock and seconded by Destry Hawthorne to adjourn meeting.

Motion Passed with the following vote:

Ayes: Dills, Grube, Hawthorne, Hitchcock, Tomlinson



The City of Durant

Solid Waste Landfill

Memorandum

Date: 1/2/2019
To: Utilities Authority
From: Kenny Cooper, Solid Waste Landfill Supervisor
Re: Landfill Information & Reports - December 2018

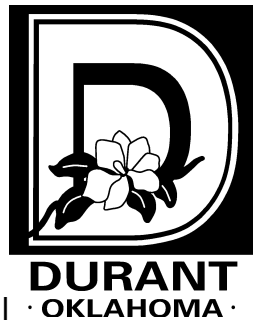
Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

Description	Type	Upload Date
December 2018 Project Schedule	Cover Memo	1/2/2019
December 2018 DEQ Report	Cover Memo	1/2/2019



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE DISPOSAL PROJECTS SCHEDULE ***December 2018***

A. Work Completed for December:

1. Covered C & D Site
2. Hauled MSW To SORD
3. picked up 289 rolloff's & 17 delivered

B. Work Planned For December:

1. Continue Covering C&D site
2. Have new C&D cell 10C inspected and approved
3. Haul MSW To SORD
4. Continue Picking up, Delivering

C. Work Planned For Jan. '19 – Dec. '19:

Approx. Start – Finish Date:

- | | |
|--------------------------|---------------------|
| 1. Haul trash to Ardmore | 1-2019 thru 12-2019 |
|--------------------------|---------------------|

D. Projects Planned And Requested For Authorization:

1. None.



MONTHLY REPORT FOR SOLID WASTE DISPOSAL FACILITIES

(Please see instructions prior to completing this form)

Due by the 10th of the month following the reporting month

Administrative Services
Accounts Receivable
P. O. Box 2036
Oklahoma City, OK 73101-2036

Report month/year: DECEMBER 2018

Facility Name: CITY OF DURANT C/D LANDFILL
Mailing Address: PO BOX 578
DURANT, OK 74702-0578

Permit Number: 3507001

Phone Number: 580-931-6606

Total # of Days open: 23

COMPLETE SECTIONS 5-10 ONLY IF SCALES GO DOWN

D A Y	(1) Total weight accepted (tons)	(2) Weight which is reused or recycled in accordance with facility permit (tons)	(3) Weight accepted from a DEQ approved emergency or special event (tons)	(4) Weight accepted from large industrial waste generators with DEQ exemption certificate (tons)	(5) Time scales placed out of service	(6) Time scales placed into service	(7) Total volume accepted (yd3)	(8) Volume which is reused or recycled in accordance with facility permit (yd3)	(9) Volume accepted from a DEQ approved emergency or special event (yd3)	(10) Volume accepted from large industrial waste generators with DEQ exemption certificate (yd3)
1	52.64									
2										
3	58.74									
4	90.33									
5	87.6									
6	75.19									
7	36.96									
8	1.83									
9										
10	21.38									
11	74.29									
12	94.34									
13	9.23									
14	15.19									
15	1.87									
16										
17	25.34									
18	75.99									
19	63.86									
20	79.38									
21	62.97									
22										
23										
24										
25										
26	96.04									
27	39.2									
28	65.86									
29	29.39									
30										
31	3.05									
Total	1160.67	0	0	0	0	0	0	0	0	0

I hereby certify that the information reported above is accurate and correct to the best of my knowledge and includes all solid waste received at this facility.

Signature of authorized agent: Kenny Cooper

Phone #: 580-924-8358

Date: 1-2-19



The City of Durant

Office of the Solid Waste Department

Memorandum

Date: 12/31/2018
To: Utilities Authority
From: Albert Pierce, Solid Waste Department Superintendent
Re: Solid Waste Department Monthly Report - December 2018

Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

Description	Type	Upload Date
Solid Waste Department Monthly Report - December 2018	Cover Memo	12/31/2018



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE PROJECTS SCHEDULE December 2018

A. Work Completed:

1. Hauled 29.25 tons of extra hauling
2. Hauled 48 loads of extra hauling
3. Picked up and delivered 15 sharps
4. No abatement this month
5. Cleaned Sunny Side rd. 2 time
6. Refurbished dumpsters
7. Replaced 6 dumpsters with new
8. Cleaned dead ends of Cemetery rd. 1 time

B. Work Planned For January

1. Refurbish. dumpsters
- 2.

C. Work Planned For Jan. '1-19 – Dec. 31-19

1. Pick up trash

D. Projects Planned And Requested For Authorization:

1. None.



The City of Durant

Office of City Clerk

Memorandum

Date: 1/3/2019
To: Utilities Authority
From: Stephanie Barfield, Utility Department Billing
Supervisor
Re: Utility Department Monthly Report - December 2018

Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

Description	Type	Upload Date
Utility Department Monthly Report - December 2018	Exhibit	1/3/2019



Monthly Utility Billing, Cash Collection, And Consumption Summary

DEC 2018

	WATER		SANITARY SEWER		SANITATION	
	Month	YTD	Month	YTD	Month	YTD
Number of Bills - Active Accounts	6906		5961		6693	
Total Revenue Billed	\$258,168.36	\$2,131,397.23	\$188,600.03	\$1,409,666.69	\$350,585.23	\$2,487,162.88
Adjustments in Dollar	(\$2,876.45)	(\$29,508.45)	(\$12,190.18)	(\$115,780.89)	(\$7,270.81)	(\$40,968.76)
TOTAL CASH RECEIPTS	\$216,136.18	\$2,089,365.05	\$108,622.59	\$1,329,689.25	\$222,745.19	\$2,359,322.84

CONSUMPTION IN GALLONS	668,912
------------------------	---------

NEW SERVICE APPLICATIONS	70
NUMBER OF WALK IN/PHONE PAYMENTS	1,366
MAIL PAYMENTS	1,228
CREDIT CARD PAYMENTS	984
WEB PAYMENTS	771
DROP BOX PAYMENTS	444
BANK DRAFT PAYMENTS	768
CREDIT CARD DRAFT PAYMENTS	192
KIOSK	545
OTHERS	



The City of Durant

Office of the Water and Sewer Maintenance Department

Memorandum

Date: 1/3/2019
To: Utilities Authority
From: Jay Neal- Utility Line Maintenance Supervisor
Re: Utility Line Maintenance Report- December 2018

-
1. **Line Repairs, Taps, Installs**
 - a. **Water Leaks: 62**
 - b. **Water Taps: 4**
 - c. **Sewer Stops: 17**
 - d. **Sewer Taps: 2**
 2. **Upcoming/Ongoing Projects**
 - a. **Airport Runway Extension ongoing (inclement weather)**
 - b. **First United Hangar Project**
 - c. **CMC Wastewater Monitoring**

Council Information / Action Requested

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

Description	Type	Upload Date
City Council Attachment	Cover Memo	1/3/2019

December 2018

Water Leaks:	62
Water Taps:	4
Sewer Leaks:	4
Sewer Taps:	2
Other Completed Jobs:	161
Carryover Balance to Next Month	14

Jobs/Day	4.8
Jobs/Week	18
Jobs/Month	74

Added Leaks	76
Paid Taps	11



The City of Durant

Office of the Wastewater Treatment Plant

Memorandum

Date: 1/2/2019
To: Utilities Authority
From: Terry Condor, Waste Water Treatment Plant Superintendent
Re: Waste Water Treatment Plant and Lab Monthly Reports - December 2018

Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

Description	Type	Upload Date
WWTP and Lab Reports December 2018	Cover Memo	1/2/2019
WWTP MOR December 2018	Cover Memo	1/2/2019



The City of Durant
Office of the Wastewater Treatment Plant

PROJECTS SCHEDULE

A: WORK COMPLETED IN DECEMBER 2018

- 1: MONITORING OF SBR SE VALVES TO DETERMINE FURTHER FAILURES (on going)
- 2: CLEAN CLARIFIER WEIRS 12/27/18
- 3: CLEAN BLEND TANK MIXER 12/25/18
- 4: CLEAN EFFLUENT PUMP STATION -----
- 5: CLEAN RAW WATER PUMP STATION -----
- 6: CLEAN SCUM PUMP STATION (NOT NEEDED)
- 7: CLEAN DRAIN LIFT STATION 12/20/18
- 8: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER 12/10/18
- 9: CALIBRATE DISCHARGE DO & PH METER 12/27/18
- 10: CHECK CALIBRATION OF DISCHARGE FLOW METER 12/4/18
- 11: RESET SBR PLC
- 12: WASH DOWN STEP SCREEN 12/6/18
- 13: CLEAN UV TROUGHS AND FLUME 12/18/18
- 14: CHECK ELECTRIC MANHOLES
- 15: CLEAN OUT BUILDINGS 12/2/18
- 16: MANUALLY CHECK U.V. BULBS
- 17: WASH DOWN CASINO STEPSCREEN 12/19/18
- 18: CHECK ALL AUTOMATIC VALVES
- 19: VEHICLE INSPECTION 12/10/18
- 20: WALK-THRU INSPECTION 12/3/18
- 21: CLEAN ALL PLC's 12/3/18
- 22: CLEAN D.O. METERS
- 23: CHECK CLARIFIER OIL WEEKLY 12/4/18, 12/10/18

TREATED 97.026 MG OF WASTEWATER
PROCESSED .825707 MG OF TREATED SLUDGE

B: WORK PLANNED FOR JANUARY 2019

- 1: MONITORING OF SBR SE VALVES TO DETERMINE FURTHER FAILURES (on going)
- 2: CLEAN CLARIFIER WEIRS
- 3: CLEAN BLEND TANK MIXER
- 4: CLEAN EFFLUENT PUMP STATION -----
- 5: CLEAN RAW WATER PUMP STATION -----
- 6: CLEAN SCUM PUMP STATION
- 7: CLEAN DRAIN LIFT STATION
- 8: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER
- 9: CALIBRATE DISCHARGE DO & PH METER
- 10: CHECK CALIBRATION OF DISCHARGE FLOW METER
- 11: RESET SBR PLC
- 12: WASH DOWN STEP SCREEN
- 13: CLEAN UV TROUGHS AND FLUME
- 14: CHECK ELECTRIC MANHOLES
- 15: CLEAN OUT BUILDINGS
- 16: MANUALLY CHECK U.V. BULBS
- 17: WASH DOWN CASINO STEPSCREEN
- 18: CHECK ALL AUTOMATIC VALVES
- 19: VEHICLE INSPECTION
- 20: WALK-THRU INSPECTION
- 21: CLEAN ALL PLC's
- 22: CLEAN D.O. METERS
- 23: CHECK CLARIFIER OIL WEEKLY

Process Water and Sludge Flow Report

December 2018

Date	Influent Flow (MG)	Drain Lift Station Flow (MG)	Casino Lift Station Flow (MG)	Combined Infl (MG)	Effluent Flow (MG)	GBT #1 Flow (KG)	GBT #2 Flow (KG)	Sludge Flow Digester #1 (KG)	Sludge Flow Digester #2 (KG)
12/1/2018	2.701	0.030	0.342	3.073	3.089	0.002	0.000	0.000	9.004
12/2/2018	2.710	0.026	0.257	2.992	3.001	0.003	0.000	0.000	8.570
12/3/2018	2.588	0.069	0.210	2.868	2.815	52.387	0.000	0.000	8.633
12/4/2018	2.741	0.065	0.173	2.979	2.798	52.752	0.000	0.000	8.660
12/5/2018	2.582	0.065	0.213	2.860	2.863	52.217	0.000	0.000	8.711
12/6/2018	2.414	0.067	0.211	2.693	2.728	50.861	0.000	0.000	8.329
12/7/2018	2.344	0.069	0.251	2.663	2.591	42.121	0.000	0.000	8.655
12/8/2018	2.304	0.032	0.326	2.663	2.840	0.001	0.000	0.000	8.476
12/9/2018	2.304	0.032	0.326	2.663	2.840	0.001	0.000	0.000	8.476
12/10/2018	2.745	0.062	0.212	3.020	3.155	0.259	0.000	0.000	8.512
12/11/2018	2.419	0.075	0.192	2.686	2.879	92.546	0.000	0.000	8.443
12/12/2018	2.486	0.067	0.212	2.765	2.964	47.679	0.000	0.000	8.898
12/13/2018	3.367	0.080	0.358	3.805	3.720	37.876	0.000	0.000	8.966
12/14/2018	3.299	0.079	0.367	3.745	3.834	52.387	0.000	0.000	8.955
12/15/2018	2.794	0.035	0.341	3.170	3.137	0.009	0.000	0.000	9.057
12/16/2018	3.048	0.032	0.257	3.337	3.230	0.034	0.000	0.000	8.118
12/17/2018	3.008	0.035	0.231	3.275	3.209	15.412	0.000	0.000	8.827
12/18/2018	2.734	0.065	0.212	3.011	2.915	46.194	0.000	0.000	8.910
12/19/2018	2.786	0.066	0.237	3.089	3.062	43.093	0.000	0.000	8.474
12/20/2018	3.184	0.042	0.253	3.478	3.323	21.188	0.000	0.000	9.145
12/21/2018	2.834	0.070	0.276	3.180	3.126	54.547	0.000	0.000	9.250
12/22/2018	2.589	0.028	0.278	2.895	3.053	0.008	0.000	0.000	9.156
12/23/2018	2.497	0.029	0.273	2.799	2.717	0.012	0.000	0.000	8.454
12/24/2018	2.468	0.028	0.256	2.752	2.687	0.012	0.000	0.000	8.649
12/25/2018	2.330	0.030	0.298	2.658	2.661	1.437	0.000	0.000	8.531
12/26/2018	3.364	0.083	0.394	3.840	3.700	54.220	0.000	0.000	8.661
12/27/2018	2.892	0.076	0.339	3.307	3.781	55.915	0.000	0.000	9.140
12/28/2018	3.594	0.084	0.342	4.020	3.685	47.976	0.000	0.000	9.405
12/29/2018	3.441	0.030	0.315	3.786	3.533	0.027	0.000	0.000	9.317
12/30/2018	3.149	0.035	0.294	3.478	3.419	2.267	0.000	0.000	8.541

12/31/2018	3.149	0.035	0.294	3.478	3.419	2.267	0.000	0.000	8.541
Sum	86.865	1.621	8.540	97.026	96.771	825.707	0.000	0.000	271.465
Avg	2.802	0.052	0.275	3.130	3.122	26.636	0.000	0.000	8.757
Min	2.304	0.026	0.173	2.658	2.591	0.001	0.000	0.000	8.118
Max	3.594	0.084	0.394	4.020	3.834	92.546	0.000	0.000	9.405



THE CITY OF DURANT

Office of the Wastewater Treatment Plant

Lab Report

12/1/18 to 12/31/18
Tests Processed

<u>74</u>	Bac-t's
<u>84</u>	BOD's
<u>21</u>	TSS's
<u>12</u>	NH3's
<u>31</u>	DO's
<u>31</u>	Ph's
<u>0</u>	Fecal Coliforms (May 1 st – Sept. 30 th) * 6 per set
<u>0</u>	FOG's

Work Projects

- Data entry
- Reports (water test results), Make copies and envelope
- Purchase Orders, copy, file
- Equipment calibrations and maintenance
- Sampling and process readings
- Quality Assurance, Quality Control tests
- Laboratory Testing
- Filing
- Daily/Weekly laboratory and WWTP building cleaning
- Monthly, Quarterly, Bi-annual, Yearly reports
- Ordering Lab chemicals and supplies
- Water Billing
- Storm water monitoring
- Storm water Report
- Pre-Treatment

CITY OF DURANT WASTEWATER TREATMENT PLANT MONTHLY OPERATION REPORT

MONTH OF

DECEMBER 2018

DAY	DATE	WEATHER		FLOW		PUMPS		INFLUENT DATA				SLUDGE		SBR DATA				DMR					Effluent	Visible Foam or Floating Solids in Discharge/ Comments:				
		RAINFALL (in.)	Lo AIR TEMP	INFLUENT (MGD)	EFFLUENT (MGD)	RAW PUMP ONLINE	EFFLUENT PUMP ONLINE	pH	SETTLABLE SOLIDS ml / L	Head work's BOD ₅	Over the Weirs BOD ₅	TSS	FEED SLUDGE (GPD)	GBT ONLINE	REACTOR #1 SETTLEABILITY	REACTOR #2 SETTLEABILITY	REACTOR #3 SETTLEABILITY	REACTOR #4 SETTLEABILITY	D.O. mg/L	pH	TSS mg/L	AMMONIA mg/L			CBOD ₅	FECAL COLIFORM #cfu/100ml	Bis(2-Ethylhexyl)phthalate UG/L	
S	12/1/18			3.1	3.1	1	4					18008								7.3	7.9							
S	12/2/18			3.0	3.0	1	4					17140								7.1	7.9							
M	12/3/18		41	2.9	2.8	1	4	7.3	25			17266	52387	900	900	850	900	900	7.2	7.9							N/D	
T	12/4/18		29	3.0	2.8	1	4	7.3	6			17320	52275	900	900	900	835	835	8.5	8.0							N/D	
W	12/5/18		26	2.9	2.9	1	4	7.4	15	74.5	75.2	84	17422	52217	900	900	900	850	8.5	8.0	3.7	0.2	2.5				N/D	
T	12/6/18		49	2.7	2.7	1	4	7.4	3				16658	50861					8.9	7.0							N/D	
F	12/7/18		41	2.7	2.6	1	4	7.4	2				17310	42121					7.5	7.1							N/D	
S	12/8/18	1.3		2.7	2.8	1	4						16952						7.1	7.1								
S	12/9/18			2.6	2.7	1	4						16102						8.1	7.2								
M	12/10/18		28	3.0	3.2	1	4	7.5	3				17024	43221	900	850	825	875	7.6	7.0							N/D	
T	12/11/18		32	2.7	2.6	1	4	7.4	2				16886	49325	900	850	850	875	7.6	7.0							N/D	
W	12/12/18		45	2.8	2.8	1	4	7.5	2	54	117	52	17796	47679	900	850	800	900	7.7	7.6	4.4	0.2	2.0				N/D	
T	12/13/18		58	3.8	3.7	1	4	7.4	2				17932	317876					7.9	7.0							N/D	
F	12/14/18	3.12	41	3.7	3.8	1	4	7.5	4				17910	52387					8.4	7.1							N/D	
S	12/15/18			3.2	3.1	1	4						18114						8.3	7.0								
S	12/16/18			3.3	3.2	1	4						16236						8.8	7.0								
M	12/17/18		37	3.3	3.2	1	4	7.3	1				17654	15412	850	895	850	875	8.5	7.0							N/D	
T	12/18/18	1.4	46	3.0	2.9	1	4	7.3	2				17820	46194	850	825	850	850	8.2	6.9							N/D	
W	12/19/18		47	3.1	3.1	1	4	7.4	2				16948	43093	875	825	825	850	7.6	7.0							N/D	
T	12/20/18		44	3.5	3.3	1	4	7.4	5				18290	21188					7.9	7.0							N/D	
F	12/21/18		36	3.2	3.1	1	24	7.4	6	64	69.3	84	18312	54547					7.8	7.0	4.2	0.2	2.5				N/D	
S	12/22/18			2.9	3.0	1	4						16908						7.9	7.1								
S	12/23/18			2.8	2.7	1	4						17298						8.1	7.3								
M	12/24/18			2.8	2.7	1	4						18506						8.3	7.3							N/D	
T	12/25/18			2.7	2.7	1	4						17062						7.7	7.4							N/D	
W	12/26/18	2.1	57	3.6	3.7	1	4	7.3	3				77322	54220	850	850	825	825	7.9	7.3							N/D	
T	12/27/18		50	3.3	3.2	1	4	7.2	2				18280	55915	850	825	825	825	7.8	7.1							N/D	
F	12/28/18		29	4.0	3.8	1	4			62	66	32	18810	47976					9.0	7.2	3.1	0.2	2.5				N/D	
S	12/29/18			3.8	3.6	1	4						18634						9.1	7.4								
S	12/30/18	46		3.5	3.4	1	4						17082						8.1	7.3								
M	12/31/18		40	3.4	3.5	1	4						18246	55112					7.4	7.2							N/D	



The City of Durant

Office of the Water Treatment Plant

Memorandum

Date: 1/2/2019
To: Utilities Authority
From: Phillip Hightower, Water Treatment Plant
Re: Water Treatment Plant Monthly Reports - December 2018

Council Information / Action Requested

Information only.

City Staff Information / Action Follow-up, if Council authorizes this action:

ATTACHMENTS:

Description	Type	Upload Date
December MOR #1	Cover Memo	1/2/2019
December MOR #2	Cover Memo	1/2/2019
December CL02 and Chlorite Reports	Cover Memo	1/2/2019
December Monthly Report	Cover Memo	1/2/2019

Mail **original** before the 10th of the following month
to the Department of Environmental Quality, Water Quality Division
P. O. Box 1677, Oklahoma City, OK 73101-1677

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT
WATER TREATMENT PLANTS

Durant City Utilities Authority

PO Box 578

Durant OK

74702

Plant: Durant Water Treatment F

PWSID: 1010601

Month: December 2018

Population: 19,491

System

Address

City

ZIP

DAY	WATER TREATED	FILTER OPERATION								WASH WATER IN 1000 GALS.	CHEMICALS USED-LBS.								ALKALINITY				pH			CaCO3 STABILITY Method:	HARDNESS (ppm)		Chlorite residual	Chlorite lbs/day	REMARKS					
		FILTERS USED-HOURS									ALUM	LIME	POLYMER Name:	CARBON NAOH	OTHER Name: NH2SIF6	OTHER Name: copper sul	CHLORINE		"P"		TOTAL AM		CLO2 Residual		TOTAL PM		AM PM			AM	FILT					
		1	2	3	4	5	6	7	8								PRE	POST	RAW	FILT	RAW	FILT	RAW	FILT	RAW	FILT	RAW	FILT	RAW	FILT						
1	4,249	23	0	23	23	24	23	23	23	150	1600	0	40	0	0	0	0	95	65			278	258		0.15	284	252	8	7.5	7.4	270	320	318	0.66	260	
2	4,173	24	0	24	24	23	24	24	24	45	1300	0	40	0	0	0	0	80	50			284	260		0.14	288	248	8.2	7.4	7.5	246	282	280	0.61	260	
3	3,911	23	0	23	23	24	24	23	23	100	1400	0	40	0	0	0	0	80	50			286	256		0.2	290	252	8	7.03	7.5	254	300	292	0.61	240	
4	3,736	24	0	24	24	24	24	24	24		1100	0	40	0	0	0	0	80	60			284	252		0.18	294	270	8.1	7.4	7.4	270	320	312	0.52	240	
5	3,456	23	0	23	23	23	23	24	24	100	1200	0	40	0	0	0	0	50	50			276	258		0.23	294	270	7.9	7.3	7.4	250	296	288	0.47	240	
6	3,727	24	0	24	24	24	24	23	23	45	1300	0	40	0	0	0	0	60	60			284	258		0.14	320	266	8.1	7.3	7.5	250	296	278	0.52	260	
7	3,893	23	0	23	23	24	24	24	24	80	1100	0	40	0	0	0	0	60	60			272	260		0.25	296	268	7.9	7.2	7.4	268	310	312	0.52	260	
8	3,703	23	0	23	23	23	23	23	23	175	1300	0	40	0	0	0	0	100	60			288	280		0.19	292	260	8.1	7.5	7.5	264	300	300	0.47	260	
9	3,899	23	0	23	23	24	24	24	24	60	1400	0	40	0	0	0	0	60	40			258	270		0.14	258	256	7.9	7.5	7.4	254	288	300	0.71	260	
10	3,872	23	0	23	23	23	23	23	23	125	1400	0	40	0	0	0	0	60	60			250	238		0.17	250	240	7.8	7.2	7.3	260	274	270	0.71	260	
11	3,925	23	0	23	23	24	24	24	24	45	1400	0	40	0	0	0	0	60	60			254	220		0.17	272	234	7.9	7.4	7.3	250	290	292	0.85	260	
12	3,914	23	0	23	23	24	24	24	24	45	1500	0	40	0	0	0	0	100	60			250	232		0.19	282	248	7.9	7.3	7.3	240	300	300	0.9	260	
13	3,936	23	0	23	23	23	23	23	23	130	2500	0	40	0	0	0	0	140	60			264	238		0.31	274	240	8	7.4	7.4	230	310	310	0.9	260	
14	3,924	23	0	23	23	24	24	24	24	45	4400	0	40	0	0	0	0	160	60			94	240		0.24	106	186	7.5	7.3	6.9	256	126	282	0.8	260	
15	3,923	24	0	24	24	24	24	24	24		4200	0	40	1925	0	0	0	170	60			98	94		0.27	90	104	7.5	6.7	8.2	230	166	188	0.66	260	
16	4,000	23	0	23	23	24	24	24	24	90	3500	0	40	1100	0	0	0	140	50			100	80		0.22	106	70	7.4	7.3	7.3	138	130	132	0.71	260	
17	3,984	23	0	23	23	24	24	24	24	60	3700	0	40	1650	0	0	0	160	70			132	90		0.27	150	90	7.5	7.2	7.5	90	162	140	0.76	260	
18	3,884	23	0	23	23	23	23	23	23	120	2700	0	40	1375	0	0	0	140	70			164	118		0.28	216	150	7.5	7.5	7.8	90	240	174	0.76	260	
19	3,897	24	0	24	24	24	24	24	24		1900	0	40	1100	0	0	0	80	60			216	160		0.14	246	190	7.8	7.7	7.7	122	258	220	0.95	260	
20	3,961	23	0	23	23	24	24	24	24	60	1900	0	40	0	0	0	0	140	60			240	204		0.12	250	192	7.7	8	7.2	150	248	228	0.9	260	
21	3,951	23	0	23	23	23	23	23	23	180	2000	0	40	0	0	0	0	100	60			242	208		0.11	262	226	7.8	7.2	7.3	200	278	288	0.8	260	
22	3,959	23	0	23	23	24	24	24	24	45	2100	0	40	0	0	0	0	120	80			202	226		0.15	270	228	7.7	7.1	7	226	268	266	0.8	260	
23	3,984	23	0	23	23	24	24	24	24	60	1300	0	40	0	0	0	0	100	60			280	244		0.17	280	250	7.8	7.1	7.2	226	290	276	0.76	260	
24	4,003	23	0	23	23	23	23	23	23	160	1300	0	40	0	0	0	0	100	60			280	250		0.18	298	260	7.8	7.4	7.3	242	276	280	0.66	260	
25	3,958	23	0	23	23	24	24	24	2	60	1400	0	40	0	0	0	0	100	60			284	266		0.15	286	262	7.6	7.2	7.1	260	272	284	0.71	260	
26	3,957	23	0	23	23	23	23	23	23	160	2600	0	40	0	0	0	0	100	60			282	250		0.17	290	274	7.8	7.2	6.8	256	282	296	0.8	260	
27	3,592	23	0	23	23	24	24	24	24	60	4100	0	40	550	0	0	0	120	60			142	266		0.21	96	230	7.4	7.2	6.9	280	170	308	0.52	260	
28	3,562	24	0	24	24	24	24	24	24		3000	0	40	1375	0	0	0	140	60			180	160		0.17	134	140	7.7	7.5	7.4	240	208	210	0.66	260	
29	3,559	24	0	24	24	24	24	24	24		2800	0	40	0	0	0	0	140	60			154	125		0.11	170	102	7.1	7	6.5	152	222	224	0.85	260	
30	3,983	23	0	23	23	23	23	23	23	175	2600	0	40	0	0	0	0	100	60			170	116		0.09	182	116	7.5	6.7	6.6	132	194	194	0.76	260	
31	4,028	24	0	24	24	24	24	24	24		4000	0	40	0	0	0	0	100	80			206	134		0.11	190	144	7.6	6.9	6.7	150	220	204	0.76	260	
TOT	120503	734	0	734	721	734	734	733	711	2375	68000		1240	9075				3235	1865			6994	6511		5.62	7316	6518	241	226	226	6746	7896	8046	22.07	8000	
Avg	3887	24	0	24	24	24	24	24	23	77	2194		40.00	293				104	60			226	210		0	236	210	7.8	7.3	7.3	217.6	255	260	0.712	#####	

Power Costs	\$15,776.33
Labor Costs	\$49,250.80
Chemicals	\$17,484.83
Supplies	\$332.60
Repairs	\$5,491.70
TOTAL	\$88,336.26

Cost per thousand Gallons \$ 0.73

Ave. Rate of Wash (Vert. in/min.)

Ave Wash Period (Minutes)

% Wash Water Used 1.97%

Ave. Head Loss for Washing

I hereby certify the above to be correct
to the best of my knowledge.

Signed

PhillipHightower

Title Water Treatment Plant Supervisor

DEQ Form # 630-577A
Revised 9/1/2000

Oper. Cert. No. B 90404

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT
WATER TREATMENT PLANTS

Durant City Utilities Authority
System

PO Box 578
Address

Durant
City

74702
ZIP

Plant: Durant Water Treatment Plant
PWSID: 1010601
Month: December 2018
Population: 19,491

- ☒ Rapid Rate Filter
☐ Slow Sand Filter

No. OF
SAMPLES % OF TOTAL
SAMPLES

TURBIDITY GREATER THAN 0.5 NTU:	0	0%	◀
TURBIDITY GREATER THAN 0.3 NTU:	0	0%	◀
TURBIDITY GREATER THAN 0.1 NTU:	1	1%	

TOTAL NO. OF TURBIDITY ANALYSES:	186
----------------------------------	-----

HIGHEST TURBIDITY READING	0.12	◀
NUMBER OF SAMPLES > 1 NTU	0	◀
NUMBER OF SAMPLES > 5 NTU	0	◀
95TH PERCENTILE OF FINISHED WATER TURBIDITY	0.08	◀ NOT REQUIRED
95TH PERCENTILE OF SETTLED WATER TURBIDITY	4.30	◀ NOT REQUIRED
CHLORINE RESIDUAL < 1.0 mg/l LEAVING PLANT (# Samples)		

INDIVIDUAL FILTER TURBIDITY CHECKLIST

1. IS TURBIDITY FROM EACH INDIVIDUAL FILTER RECORDED EVERY 15 MINUTES? ☒ Yes ☐ No
2. DID ANY SINGLE FILTER EXCEED 2.0 NTU IN TWO CONSECUTIVE 15 MINUTE PERIODS?
☒ No, Go to Question 3.
☐ Yes, What date was the filter profile completed?
- DID THIS SAME FILTER EXCEED 2.0 NTU IN 2 CONSECUTIVE 15-MIN PERIODS DURING THE LAST MONTH?
☐ No, Go to Question 3.
☐ Yes, Schedule Comprehensive Perfomance Evaluation (CPE) with DEQ.
3. DID ANY SINGLE FILTER EXCEED 1.0 NTU IN TWO CONSECUTIVE 15 MINUTE PERIODS?
☒ No, Go to Question 4.
☐ Yes, What date was the filter profile completed?
- DID THIS SAME FILTER EXCEED 1.0 NTU IN 2 CONSECUTIVE 15-MIN PERIODS DURING THE LAST 2 MONTHS?
☐ No, Go to Question 4.
☐ Yes, What date was the filter self-assessment completed?
4. DID ANY SINGLE FILTER EXCEED 0.5 NTU IN 2 CONSECUTIVE 15-MIN PERIODS AT THE END OF 4 HRS OF OPERATION?
☒ No, You are finished with the checklist.
☐ Yes, What date was the filter profile completed?

* IF ANY OF QUESTIONS 2 THROUGH 4 ARE CHECKED "YES", YOU MUST

COMPLETE THE TURBIDITY TRIGGER EVALUATION FORM AND ATTACH TO THIS MOR.

DAY	TURBIDITY									RESIDUAL DISINFECTANT								COMMENTS
	RAW	SET	SET	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400	ENTRY POINT TO DISTRIBUTION						DISTRIBUTION		
										12am	4am	8am	12pm	4pm	8pm	SYSTEM		
1	7.94	2.4	3.1	0.04	0.05	0.05	0.06	0.04	0.05	2.79	2.78	2.91	2.71	2.63	2.25	1.69	2.66	
2	9.94	1.9	2.4	0.07	0.07	0.03	0.03	0.04	0.04	2.33	2.47	2.78	2.69	2.43	1.98	1.63	2.42	
3	5.54	1.6	2.8	0.05	0.06	0.08	0.06	0.03	0.03	2.08	2.31	2.47	2.67	2.54	2.04	2.10	1.55	
4	4.72	1.7	1.9	0.03	0.03	0.03	0.04	0.04	0.04	2.13	2.32	2.45	2.64	2.40	2.02	1.46	1.52	
5	5.66	1.9	2.3	0.05	0.07	0.03	0.07	0.03	0.04	2.09	2.31	2.60	2.81	2.74	2.31	2.08	1.60	
6	7.47	2.2	1.9	0.08	0.06	0.04	0.04	0.04	0.05	2.30	2.31	2.54	2.75	2.74	2.71	1.57	1.55	
7	6.25	2.5	2.4	0.06	0.10	0.03	0.03	0.03	0.04	2.75	2.86	2.96	2.97	2.87	2.79	1.54	1.54	
8	7.65	3.9	1.9	0.05	0.05	0.07	0.03	0.03	0.03	2.80	2.88	2.93	3.20	2.94	2.87	1.61	1.73	
9	8.65	3.6	3.7	0.03	0.04	0.05	0.06	0.03	0.03	2.87	2.92	2.94	2.75	2.67	2.14	2.74	1.80	
10	10.07	3.4	3.2	0.03	0.03	0.04	0.07	0.07	0.03	2.12	2.19	2.23	2.27	2.28	2.27	1.78	2.03	
11	6.92	3.2	2.9	0.03	0.04	0.05	0.08	0.03	0.03	2.24	2.39	2.46	2.56	2.50	2.38	2.07	1.81	
12	6.00	1.9	1.4	0.03	0.04	0.05	0.09	0.04	0.04	2.41	2.61	2.68	2.78	2.83	2.93	1.61	1.58	
13	5.10	1.8	2.3	0.06	0.05	0.06	0.03	0.03	0.04	3.00	3.37	3.34	3.30	3.23	3.03	2.41	1.58	
14	74.40	5.9	4.3	0.04	0.05	0.03	0.03	0.03	0.03	3.08	3.11	3.15	2.87	2.73	2.38	1.62	1.78	
15	66.48	4.6	3.9	0.03	0.03	0.03	0.03	0.04	0.04	2.36	2.38	2.41	2.24	2.07	1.99	2.54	1.85	
16	76.92	3.9	3.6	0.07	0.04	0.03	0.03	0.03	0.04	2.04	2.22	2.22	2.38	2.36	2.39	1.80	1.90	
17	71.44	3	3.1	0.06	0.03	0.03	0.03	0.03	0.03	2.42	2.53	2.61	2.83	2.66	2.69	2.08	2.24	
18	44.76	3.2	2.5	0.09	0.06	0.04	0.12	0.03	0.03	2.75	3.38	3.34	3.26	2.98	2.85	1.60	1.62	
19	28.02	3.9	2.6	0.03	0.03	0.03	0.03	0.04	0.05	2.85	2.98	2.99	2.90	2.76	2.75	2.75	1.71	
20	22.10	2.4	3	0.06	0.07	0.03	0.03	0.03	0.03	2.66	2.78	2.94	2.84	2.67	2.50	1.69	1.76	
21	18.41	3.1	3.1	0.04	0.05	0.09	0.09	0.03	0.03	2.54	2.79	2.85	3.12	2.70	2.53	2.41	1.60	
22	15.59	3.4	3.1	0.03	0.03	0.06	0.03	0.03	0.03	2.88	2.88	3.04	3.24	2.80	2.78	2.87	1.56	
23	13.81	3	3.8	0.04	0.05	0.04	0.04	0.06	0.07	2.86	3.16	3.34	3.32	3.03	2.75	2.54	1.57	
24	12.56	2.8	3.8	0.09	0.05	0.03	0.04	0.04	0.04	2.81	3.25	3.38	3.26	2.97	2.66	1.64	1.72	
25	11.65	2.4	3	0.05	0.06	0.03	0.04	0.04	0.05	2.71	3.03	2.91	3.34	3.30	3.10	2.64	1.84	
26	11.68	3	2.9	0.05	0.05	0.03	0.04	0.04	0.05	3.11	3.42	3.48	3.55	3.12	2.93	1.82	1.84	
27	16.81	3.6	4.7	0.07	0.03	0.03	0.03	0.03	0.03	2.89	2.98	3.06	2.91	2.61	1.67	2.89	1.82	
28	83.84	2.9	3.5	0.03	0.03	0.03	0.03	0.03	0.03	1.66	1.47	1.54	1.80	1.80	1.67	1.78	1.68	
29	49.34	2.6	2.8	0.03	0.03	0.03	0.03	0.03	0.03	1.71	1.95	2.19	2.51	2.50	2.56	1.45	1.31	
30	48.21	3.5	4.3	0.10	0.08	0.06	0.05	0.06	0.09	2.63	3.12	3.00	2.88	2.79	3.06	1.24	2.54	
31	32.11	3.9	3.8	0.05	0.05	0.04	0.04	0.04	0.04	3.01	2.63	2.85	2.91	2.63	2.74	2.47	2.49	



CHLORINE DIOXIDE AND CHLORITE MONITORING AND REPORTING FORM

1. Public Water System (PWS) Information:

PWSID: OK 1010601

PWS Name: City of Durant

2. Compliance Information:

Water System Facility ID: 1010601

Plant Name: Durant Water Plant

Month: Decembe Year: 2018

3. Analytical Results & Summary Information:

Entry Point Monitoring			<u>Chlorine Dioxide Daily Monitoring (Summary Type: CLO2)</u>					
Day	ClO ₂ (mg/L)	Chlorite (mg/L)						
1	0.15	0.66	Number of Samples Required:					
2	0.14	0.61	Number of Samples Collected:					
3	0.2	0.61	Was All Chlorine Dioxide Monitoring & Reporting Completed? Yes / No					
4	0.18	0.52	Number of ClO ₂ samples exceeded the MRDL of 0.8 mg/L?					
5	0.23	0.47	If a routine sample exceeds the MRDL, the system is required to take (3) three more samples the next day.					
6	0.14	0.52	<u>Chlorite Daily Monitoring (Summary Type: CLO2)</u>					
7	0.25	0.52	Number of Samples Required:					
8	0.19	0.47	Number of Samples Collected:					
9	0.14	0.71	Was All Chlorite Monitoring & Reporting Completed? Yes / No					
10	0.17	0.71	Number of Chlorite samples exceeded the MCL of 1.0 mg/L?					
11	0.17	0.85	If a routine sample exceeds the MCL, the system is required to take (3) three more samples the next day.					
12	0.19	0.95	* If you didn't use Chlorine Dioxide for disinfection any day this month, please mark "n/a" in that day's box to prevent a Monitoring violation.					
13	0.31	0.9						
14	0.24	0.8						
15	0.27	0.66	<u>Routine Chlorite Monthly Monitoring in Distribution System</u>					
16	0.22	0.71	Sampling Location	Lab Sample ID	Sampling Point ID	Collection Date	Certified Lab ID	Chlorite (mg/L)
17	0.27	0.76	Near 1st Customer					
18	0.28	0.76	Avg. Residence Time					
19	0.14	0.95	Max. Residence Time					
20	0.12	0.9	Monitoring Period Average:					
21	0.11	0.8	Mark (X) if analytical results were reported electronically: _____ - If the arithmetic average of any three sample set exceeds the Chlorite MCL (1.0 mg/L), the system is in violation of the MCL. - If more than one three-sample set was collected, attach additional copies of this form.					
22	0.15	0.8						
23	0.17	0.76						
24	0.18	0.66						
25	0.15	0.71						
26	0.17	0.8						
27	0.21	0.52						
28	0.17	0.66						
29	0.11	0.85						
30	0.09	0.76						
31	0.11	0.76						

Signature of owner or operator: _____

Date: _____

Operator License Number _____

Send all documents to:

Joe Keeble
Disinfection Byproducts Compliance Coordinator
Water Quality Division, DEQ
P.O. Box 1677
Oklahoma City, Oklahoma 73101-1677

DEQ Form # 630-577D
 Revision 06/01/2009



THE CITY OF DURANT

Office of the Water Treatment Plant

Water Treatment Plant Projects Schedule December 2018 Monthly Report

A. Work Completed

1. Calibrate lab instruments daily
2. Maintained Water Plant
3. Cleaned all buildings weekly
4. Backwashed filters as needed
5. Backwashed raw pumps weekly
6. Hooked up chlorine tanks and checked for leaks
7. Unload chemicals as they arrived
8. Pulled sludge as needed
9. Run daily chlorine dioxide samples on raw line
10. Flushed alum pumps
11. Inspected fire extinguishers
12. Pulled required water samples and send to ODEQ
13. Clean turbidity meters as needed
14. Cleaned screens on CLO2 generator as needed
15. Installed new valve on #4 raw pump backwash line
16. Replaced sump pump in raw water pipe gallery
17. Fixed EMI controller for sewer plant
18. Installed new valve actuator on #5 filter backwash valve
19. worked on leaks on the backwah lines at the raw pump station
20. Changed out light bulbs around the plant in different buildings
21. Replaced tubing in the caustic pump
22. Did monthly safety inspection
23. Treated 120,503,000 gallons of water

B. Work Planned for January-December

Approx Start/Finish Date

- | | |
|-----------------------------------|-----------------|
| 1. Paint buildings | Time permitting |
| 2. Put Gravel at Chuckwa Tower | Time Permitting |
| 3. Put Gravel at Raw Pump Station | Time Permitting |
| 4. Fix #2 filter underdrain | Time permitting |
| 5. Build new Fluoride Building | |

C. Projects Planned and Requested for Authorization

- A. Upgrade raw pump building at the water plant
- B. Upgrade Scada system on Old and New Plant Filters