

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**

March 13, 2018

**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 February 13, 2018

2. Consider Items Removed from Consent

3. Administration

4. Information Items

- a. Landfill Information & Reports - February 2018
- b. Solid Waste Department Monthly Report - February 2018
- c. Utility Summary Monthly Report - January 2018 and February 2018
- d. Waste Water Treatment Plant and Lab Monthly Report - February 2018
- e. Water Treatment Plant Monthly Operation Reports - February 2018

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 14th day of November, 2017 and that an agenda of said meeting was posted at the place of such meeting at 4:50 p.m. on the 9th day of March, 2018.

Cynthia J. Price, City of Durant



The City of Durant

Office of City Clerk

Memorandum

Date: 2/28/2018
To: Utilities Authority
From: Cynthia J. Price, City Clerk
Re: Consider Approval of Regular Meeting Minutes of February 13, 2018

Council Information / Action Requested

Approval of Regular Meeting Minutes of February 13, 2018

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

ATTACHMENTS:

Description	Type	Upload Date
Minutes 2.13.2018	Exhibit	2/28/2018

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 3:40 p.m..on the 9th day of February, 2018.

MINUTES OF THE REGULAR SCHEDULED MEETING OF THE DURANT CITY UTILITIES AUTHORITY OF February 13, 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 8:14 p.m.

ROLL CALL

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

Absent: Trustee Destry Hawthorne (*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 January 9, 2018 Approved

Motion was made by Chad Hitchcock and seconded by Oden Grube to approve consent item as presented.

Motion Passed with the following vote:

Ayes: Dills, Grube, Hitchcock, Tomlinson

Absent: Hawthorne

2. Consideration Items Removed from Consent

3. Administration

- a. Discussion of Fluoride System Improvements for the Water Treatment Plant and Consider Instructing Staff to Move Forward with Procedures to Purchase Necessary Equipment and Chemicals as Required.

Approved

Marty Cook, Public Works Director, addressed council and introduced Dr. Jana Winfree, Dental Health Services Director with the Oklahoma State Department of Health. Dr. Winfree spoke in favor of re-fluoridation and stated the City of Durant had fluoridated its water for 60 years prior to ceasing in 2017. City Manager Tim Rundel stated the city had experienced problems with the fluoride feeder and no fluoride has been added to the water since Fall 2017. Mr. Rundel added that water taken from the Blue River already contains natural fluoride however it is less than the recommended level established by the Environmental Protection Agency (EPA).

Dr. Jason Carper spoke in support of re-fluoridation.

Dr. Dan Craige, spoke in support of re-fluoridation.

Brandon Wall spoke in opposition to re-fluoridation.

Phillip Hightower, Water Treatment Plant Supervisor, explained the process of adding fluoride to the city water system.

Motion was made by Chad Hitchcock and seconded by Mike Dills to instruct staff to move forward with procedures to purchase necessary equipment and chemicals as required.

Motion Passed with the following vote:

Ayes: Dills, Grube, Hitchcock, Tomlinson

Absent: Hawthorne

4. Information Items

- a. Landfill Information & Reports - January 2018
- b. Solid Waste Department Monthly Report - January 2018
- c. Waste Water Treatment Plant and Lab Monthly Report - January 2018

d. Water Treatment Plant Monthly Reports - January 2018

Adjournment

Motion was made by Chad Hitchcock and seconded by Mike Dills to adjourn meeting.

Motion Passed with the following vote:

Ayes: Dills, Grube, Hitchcock, Tomlinson

Absent: Hawthorne



The City of Durant

Solid Waste Landfill

Memorandum

Date: 2/28/2018
To: Utilities Authority
From: Zefe Laborico, Supervisor, Solid Waste
Landfill
Re: Landfill Information & Reports - February 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
February 2018 DEQ Report	Exhibit	3/1/2018
February 2018 Project Schedule	Exhibit	3/1/2018



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: FEBRUARY 2018

Facility Name: CITY OF DURANT C/D LANDFILL

Permit Number: 3507001

Mailing Address: PO BOX 578

Phone Number: 580-931-6606

DURANT, OK 74702-0578

Total # of Days open: 23

COMPLETE SECTIONS 5-10 ONLY IF SCALES GO DOWN

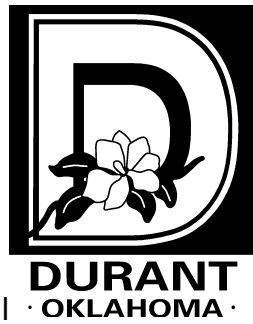
D A Y	(1) Total weight accepted (tons)	(2) Weight which is reused or recycled in accordance with facility permit (tons)	(3) Weight accepted from a DEQ approved emergency or special event (tons)	(4) Weight accepted from large industrial waste generators with DEQ exemption certificate (tons)	(5) Time scales 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	53.14									
2	64.74									
3	6.48									
4	0									
5	58.69									
6	30.29									
7	30.19									
8	44.08									
9	76.9									
10	49.85									
11	0									
12	22.13									
13	68.96									
14	43.14									
15	76.92									
16	91.65									
17	3.2									
18	0									
19	0									
20	4.23									
21	0.99									
22	5.24									
23	6.9									
24	3.07									
25	0									
26	20.69									
27	106.58									
28	12.21									
29	0									
30	0									
31	0									
Total	880.27	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: _____

Phone #: 580-924-8358

Date: _____



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE DISPOSAL PROJECTS SCHEDULE ***February 2018***

A. Work Completed for February:

1. Covered C & D Site
2. Hauled MSW To SORD
3. picked up 302 rolloff's & 5 delivered

B. Work Planned For March:

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. '18 – Dec. '18:

Approx. Start – Finish Date:

1. Haul trash to Ardmore 1-2018 thru 12-2018

D. Projects Planned And Requested For Authorization:

1. None.



The City of Durant

Office of the Solid Waste Department

Memorandum

Date: 3/13/2018
To: Utilities Authority
From: Albert Pierce, Solid Waste Department Superintendent
Re: Solid Waste Department Monthly Report - February 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
February Monthly Report	Cover Memo	3/1/2018



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE PROJECTS SCHEDULE ***February 2018***

A. Work Completed:

1. Hauled 50.13 tons of extra hauling
2. Hauled 57 loads of extra hauling
3. Picked up and delivered 21 sharps
4. No abatement this month
5. Cleaned Sunny Side rd. 2 times
6. Refurbished 9 dumpsters
7. Replaced 13 dumpsters with new
8. Cleaned dead ends of Cemetery rd. 2 times

B. Work Planned For March

1. Refurbish. dumpsters
- 2.

C. Work Planned For Jan. '1-18 – Dec. 31-18

1. Pick up trash

D. Projects Planned And Requested For Authorization:

1. None.



The City of Durant

Office of City Clerk

Memorandum

Date: 3/5/2018
To: Utilities Authority
From: An-Chen Lai, City Treasurer
Re: Utility Summary Monthly Report - January 2018 and February 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
Utility Summary Monthly Report -January 2018	Exhibit	3/5/2018
Utility Summary Monthly Report - February 2018	Exhibit	3/5/2018



Monthly Utility Billing,
Cash Collection,
And Consumption Summary

JANUARY 2018

	WATER		SANITARY SEWER		SANITATION	
	Month	YTD	Month	YTD	Month	YTD
Number of Bills - Active Accounts	6812		5890		6762	
Total Revenue Billed	\$335,788.03	\$2,299,029.51	\$251,082.59	\$1,614,478.93	\$356,499.38	\$2,490,289.18
Adjustments in Dollar	(\$21,941.79)	(\$42,439.23)	(\$13,644.65)	(\$60,019.51)	(\$350.55)	(\$16,423.98)
TOTAL CASH RECEIPTS	\$328,628.72	\$1,940,562.73	\$185,272.47	\$1,228,780.09	\$357,242.92	\$2,020,491.84

CONSUMPTION IN GALLONS	90,711,400
------------------------	------------

NEW SERVICE APPLICATIONS	90
NUMBER OF WALK IN/PHONE APYMENTS	2,786
MAIL PAYMENTS	1,884
CREDIT CARD PAYMENTS	1,332
WEB PAYMENTS	1,020
DROP BOX PAYMENTS	613
BANK DRAFT PAYMENTS	728
CREDIT CARD DRAFT PAYMENTS	198
KIOSK	195
OTHERS	



Monthly Utility Billing,
Cash Collection,
And Consumption Summary

FEBRUARY 2018

	WATER		SANITARY SEWER		SANITATION	
	Month	YTD	Month	YTD	Month	YTD
Number of Bills - Active Accounts	6811		5908		6528	
Total Revenue Billed	\$216,296.19	\$2,515,325.70	\$181,639.27	\$1,796,118.20	\$371,811.38	\$2,862,100.56
Adjustments in Dollar	(\$6,066.18)	(\$48,463.23)	(\$4,022.42)	(\$64,021.93)	(\$927.91)	(\$17,351.89)
TOTAL CASH RECEIPTS	\$234,265.54	\$2,174,828.27	\$140,177.01	\$1,368,957.10	\$230,562.92	\$2,251,054.76

CONSUMPTION IN GALLONS	52,661,900
------------------------	------------

NEW SERVICE APPLICATIONS	95
NUMBER OF WALK IN/PHONE APYMENTS	1,860
MAIL PAYMENTS	1,235
CREDIT CARD PAYMENTS	745
WEB PAYMENTS	1,020
DROP BOX PAYMENTS	486
BANK DRAFT PAYMENTS	730
CREDIT CARD DRAFT PAYMENTS	194
KIOSK	505
OTHERS	



The City of Durant

Office of the Wastewater Treatment Plant

Memorandum

Date: 3/1/2018
To: Utilities Authority
From: Terry Condor, Waste Water Treatment Plant Superintendent
Re: Waste Water Treatment Plant and Lab Monthly Report - February 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
MOR - February 2018	Exhibit	3/1/2018
Sludge Flow Report - February 2018	Exhibit	3/1/2018
Project Schedule -February/March 2018	Exhibit	3/1/2018
Lab Report - February 2018	Exhibit	3/1/2018

CITY OF DURANT WASTEWATER TREATMENT PLANT MONTHLY OPERATION REPORT

MONTH OF

February 2018

CITY OF DURANT WASTEWATER TREATMENT PLANT MONTHLY OPERATION REPORT																										
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
T	2/1/18		41	1.9	1.8	1	4	6.8	4				21039	53597					7.6	7.5						N/D
F	2/2/18		30	1.9	1.7	1	4						20931	53214					7.7	7.5						N/D
S	2/3/18			1.9	1.9	1	4						20577						7.8	7.5						N/D
S	2/4/18			1.9	1.7	1	4						20298						8.1	7.5						N/D
M	2/5/18		17	1.9	1.7	1	4	7.0	6				22234	54380	900	900	900	900	8.6	7.5						N/D
T	2/6/18		36	1.9	1.9	1	4	7.0	4				23401	55397	900	900	800	900	7.5	7.6						N/D
W	2/7/18		24	1.8	1.8	1	4	7.0	5	191.7	134.8	52	23778	58077	900	900	850	900	7.2	7.9	4.0	0.0	3.3			N/D
T	2/8/18		21	1.8	1.7	1	4	6.8	4				23106	54498					7.1	7.9						N/D
F	2/9/18		4.5	1.8	1.8	1	4						21232	55577					7.3	7.6						N/D
S	2/10/18			1.8	1.7	1	4						21414						7.2	7.6						N/D
S	2/11/18			1.8	1.8	1	4						22386						7.2	7.7						N/D
M	2/12/18		23	1.7	1.6	1	4	7.0	10				20346	46611	900	900	900	900	7.3	7.7						N/D
T	2/13/18		37	1.8	1.8	1	4	6.9	20				23888	54444	900	900	900	900	7.3	7.6						N/D
W	2/14/18		44	1.8	1.8	1	4	6.8	15				21972	54651	850	850	850	900	7.4	7.7						N/D
T	2/15/18		63	1.8	1.9	1	4	6.9	10	74.2	189.4	40	22440	54342					9.9	7.6	3.9	3.9	5.7			N/D
F	2/16/18		53	1.7	1.7	1	4	7.0	5				21472	53915					9.1	7.5						N/D
S	2/17/18			2.0	2.2	1	4						22278						8.1	7.6						N/D
S	2/18/18			1.9	2.1	1	4						21180						8.3	7.5						N/D
M	2/19/18			1.9	2.0	1	4						21112						8.3	7.5						N/D
T	2/20/18		2.33	6.5	3.4	3.1	1	7.0	8				20398	54261	900	900	850	850	9.9	7.5						N/D
W	2/21/18		2.33	3.7	3.6	3.4	1	6.9	15	51.9	60.1	16	21122	54524	800	850	850	700	10.4	7.4	3.2	0.2	3.7			N/D
T	2/22/18		2.33	3.7	3.2	3.0	1	7.0	20				23610	50449	950	950	800	950	8.7	7.6						N/D
F	2/23/18		39	3.6	3.4	1	4	6.7	5				22678	46466					8.8	7.4						N/D
S	2/24/18	1.14		3.6	3.5	1	4						20262						8.3	7.4						N/D
S	2/25/18			3.4	3.3	1	4						22670						8.3	7.6						N/D
M	2/26/18		38	3.3	3.2	1	4	6.6	7				2254	54300	750	750	700	650	7.3	7.5						N/D
T	2/27/18		49	3.2	3.0	1	4	6.9	6				23740	54238	750	800	600	700	7.0	7.4						N/D
W	2/28/18		6.5	3.7	3.4	1	4	6.9	5				21490	46617	950	750	650	700								N/D

Process Water and Sludge Flow Report

February 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)
2/1/2018	1.678	0.058	0.225	1.939	1.812	53.597	0.000	10.291	10.748
2/2/2018	1.678	0.058	0.230	1.939	1.658	53.214	0.000	10.210	10.721
2/3/2018	1.678	0.058	0.291	1.939	1.859	0.000	0.000	9.843	10.734
2/4/2018	1.678	0.058	0.204	1.939	1.663	0.000	0.000	10.226	10.072
2/5/2018	1.678	0.058	0.179	1.939	1.700	54.380	0.000	10.891	11.343
2/6/2018	1.678	0.058	0.168	1.939	1.981	55.397	0.000	11.466	11.935
2/7/2018	1.580	0.000	0.167	0.000	0.000	0.000	0.000	0.000	0.000
2/8/2018	1.596	0.067	0.181	1.845	1.710	54.498	0.000	6.296	11.606
2/9/2018	1.462	0.073	0.239	1.774	1.797	55.577	0.000	0.000	10.616
2/10/2018	1.276	0.032	0.244	1.552	2.119	0.006	0.000	0.000	10.722
2/11/2018	1.412	0.026	0.189	1.626	2.227	0.005	0.000	0.000	11.193
2/12/2018	1.542	0.057	0.139	1.738	1.621	46.611	0.000	0.000	10.148
2/13/2018	1.551	0.071	0.162	1.783	1.836	54.444	0.000	0.000	10.148
2/14/2018	1.594	0.080	0.175	1.848	1.808	54.651	0.000	0.000	21.972
2/15/2018	1.533	0.079	0.220	1.832	1.874	54.342	0.000	0.000	11.220
2/16/2018	1.358	0.078	0.211	1.647	1.648	53.915	0.000	0.000	10.736
2/17/2018	1.677	0.030	0.288	1.995	2.190	0.092	0.000	0.000	10.139
2/18/2018	1.635	0.030	0.247	1.911	2.146	0.080	0.000	0.000	10.590
2/19/2018	1.635	0.030	0.247	1.911	2.146	0.080	0.000	0.000	10.590
2/20/2018	2.985	0.103	0.306	3.393	3.108	54.261	0.000	0.000	10.199
2/21/2018	3.203	0.080	0.330	3.612	3.432	54.528	0.000	0.000	10.561
2/22/2018	2.882	0.083	0.273	3.238	3.024	50.449	0.000	0.000	11.805
2/23/2018	3.123	0.083	0.370	3.577	3.358	46.468	0.000	0.000	11.339
2/24/2018	2.790	0.041	0.393	3.224	3.914	0.010	0.000	0.000	10.131
2/25/2018	3.061	0.033	0.277	3.371	3.302	0.000	0.000	0.000	11.335
2/26/2018	3.007	0.084	0.187	3.278	3.620	54.300	0.000	0.000	10.127
2/27/2018	2.885	0.086	0.232	3.204	3.088	54.238	0.000	0.000	11.870
2/28/2018	3.315	0.091	0.329	3.735	3.350	46.617	0.000	0.000	10.745

Sum	57.171	1.687	6.701	63.731	63.988	951.762	0.000	69.224	303.343
Avg	2.042	0.060	0.239	2.276	2.285	33.991	0.000	2.472	10.834
Min	1.276	0.000	0.139	0.000	0.000	0.000	0.000	0.000	0.000
Max	3.315	0.103	0.393	3.735	3.914	55.577	0.000	11.466	21.972



The City of Durant

Office of the Wastewater Treatment Plant

PROJECTS SCHEDULE

A: WORK COMPLETED IN FEBRUARY 2018

- 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 -----OK
- 5: CLEAN RAW WATER PUMP STATION ____OK
- 6: CLEAN SCUM PUMP STATION (Not Needed)
- 7: CLEAN DRAIN LIFT STATION 2/8/18
- 8: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER 2/6/18
- 9: CALIBRATE DISCHARGE DO & PH METER 2/15/18
- 10: CHECK CALIBRATION OF DISCHARGE FLOW METER 2/14/18
- 11: RESET SBR PLC (NOT NEEDED)
- 12: WASH DOWN STEP SCREEN 2/12/18
- 13: CLEAN UV TROUGHS AND FLUME 2/8/18, 2/15/18
- 14: CHECK ELECTRIC MANHOLES 2/26/18
- 15: CLEAN OUT BUILDINGS
- 16: MANUALLY CHECK U.V. BULBS
- 17: WASH DOWN CASINO STEPSCREEN 2/8/18
- 18: CHECK ALL AUTOMATIC VALVES
- 19: VEHICLE INSPECTION 2/5/18
- 20: WALK-THRU INSPECTION 2/7/18
- 21: CLEAN ALL PLC's
- 22: CLEAN D.O. METERS #4
- 23: CHECK CLARIFIER OIL WEEKLY 2/7/18, 2/20/18
- 24: REPAIRED DRAIN LIFT STATION CONTROLLER 2/23/18

TREATED 63.731 MG OF WASTEWATER
PROCESSED .951762 MG OF TREATED SLUDGE

B: WORK PLANNED FOR MARCH 2018

- 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
- 24: REPAIR DIGESTER FLOW PUMP
- 25: WAS FEED PUMP REPAIR



THE CITY OF DURANT

Office of the Wastewater Treatment Plant

Lab Report

02/1/18 to 02/28/18

Tests Processed

<u>75</u>	Bac-t's
<u>84</u>	BOD's
<u>20</u>	TSS's
<u>96</u>	NH3's
<u>0</u>	DO's
<u>144</u>	Ph's
<u>0</u>	Fecal Coliforms (May 1 st – Sept. 30 th)
<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
- Pretreatment Industry Inspections
- Pretreatment Reports
- Storm water Report



The City of Durant

Office of the Water Treatment Plant

Memorandum

Date: 3/2/2018
To: Utilities Authority
From: Phillip Hightower, Waste Water Treatment Plant
Re: Water Treatment Plant Monthly Operation Reports - February 2018

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
MOR #1 - February 2018	Exhibit	3/2/2018
MOR #2 - February 2018	Exhibit	3/2/2018
Chlorites and CLO2 Report - February 2018	Exhibit	3/2/2018
Maintenance Report - February 2018	Exhibit	3/2/2018

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

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

Durant City Utilities Authority

PO Box 578

Durant OK

74702

System

Address

City

ZIP

DAY	WATER TREATED	FILTER OPERATION									WASH WATER IN 1000 GALS.	CHEMICALS USED-LBS.										ALKALINITY								pH			CaCO3 STABILITY Method:	HARDNESS		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	(ppm)									
		1	2	3	4	5	6	7	8	PRE								POST	RAW	FILT	RAW	FILT	RAW	FILT	RAW	FILT	RAW	FILT	RAW	FILT		RAW		FILT	RAW				FILT	RAW	FILT
1	4,260	24	24	24	23	24	24	24	24	30	1100	0	60	0	0	0	0	60	60			252	240		0.08	266	230	7.9	7.2	7.8	244	286	278	0.57	250						
2	4,224	24	24	24	24	24	24	24	23	59	1100	0	60	0	0	0	0	60	60			258	240		0.23	282	234	7.9	7.3	7.6	244	274	272	0.57	250						
3	4,092	24	23	23	24	24	24	24	24	70	900	0	60	0	0	0	0	40	40			260	250		0.21	264	246	7.9	7.3	7.6	244	270	270	0.47	250						
4	4,040	23	24	24	23	23	23	24	24	130	1000	0	60	0	0	0	0	60	60			252	230		0.13	268	224	8	7.4	7.6	236	270	278	0.52	240						
5	4,002	24	24	24	24	24	24	24	24		1000	0	60	0	0	0	0	40	40			260	242		0.14	280	228	8.1	7.5	7.8	242	260	280	0.47	240						
6	3,860	24	23	23	24	24	24	23	23	130	900	0	60	0	0	0	0	50	50			252	230		0.17	270	246	7.7	7	7.2	230	262	264	0.66	220						
7	3,733	23	24	24	23	23	23	24	24	130	1000	0	60	0	0	0	0	80	60			250	232		0.08	274	248	7.6	7.2	7.4	228	280	284	0.66	220						
8	3,824	24	24	24	24	24	24	24	24		800	0	60	0	0	0	0	40	40			256	232		0.13	250	238	7.8	7.4	7.6	230	274	268	0.47	220						
9	3,866	24	24	24	24	24	24	24	24		900	0	60	0	0	0	0	50	50			238	230		0.14	278	240	7.8	7.2	7.7	248	290	278	0.61	220						
10	3,805	24	23	23	24	24	24	24	24	70	900	0	60	0	0	0	0	70	60			254	236		0.19	250	238	7.8	7.2	7.6	240	290	298	0.57	250						
11	4,245	23	24	24	23	23	23	23	23	165	1000	0	60	0	0	0	0	50	40			250	234		0.25	286	238	7.9	7.6	7.6	244	268	258	0.61	280						
12	4,103	24	24	24	24	24	24	24	24		1200	0	60	0	0	0	0	50	50			254	234		0.22	256	238	8.1	7.6	7.7	238	264	268	0.57	280						
13	3,727	24	23	23	24	24	24	24	24	50	800	0	60	0	0	0	0	50	50			262	244		0.09	270	240	8	7.4	7.1	248	284	280	0.52	280						
14	3,789	23	24	24	23	24	24	23	23	112	500	0	60	0	0	0	0	40	40			268	252		0.31	270	248	7.8	7.2	7	240	278	274	0.57	280						
15	3,827	24	24	24	24	23	23	24	24	57	1400	0	60	0	0	0	0	80	60			246	236		0.09	256	240	7.5	7.2	7.3	244	286	280	0.47	280						
16	3,769	24	24	24	24	24	24	24	24		600	0	60	0	0	0	0	50	50			268	254		0.08	256	240	7.7	7.1	7.4	250	260	266	0.57	280						
17	3,802	24	23	23	24	24	24	24	24	55	1400	0	60	0	0	0	0	70	50			248	230		0.14	236	230	8.1	7.3	7.5	230	284	270	0.57	280						
18	3,791	23	24	24	23	24	24	23	23	120	1000	0	60	0	0	0	0	50	45			234	226		0.24	248	222	7.8	7.4	7.5	240	270	262	0.57	280						
19	3,789	24	24	24	24	23	23	24	24	70	800	0	60	0	0	0	0	40	40			258	240		0.17	260	226	7.9	7.5	7.5	234	252	258	0.66	280						
20	3,626	24	23	23	24	24	24	24	24	70	1400	0	60	0	0	0	0	170	50			250	228		0.19	160	232	7.3	6.9	7.2	228	292	278	0.71	280	switched to Lake Durant					
21	3,559	24	24	24	24	24	24	23	23	75	1600	0	60	960	0	0	0	100	60			148	118		0.08	160	208	7.3	7	8.1	220	150	242	0.76	280						
22	3,580	23	24	24	23	24	24	24	24	70	1300	0	60	413	0	0	0	130	50			148	164		0.11	162	158	7.6	8.3	7.8	210	190	216	0.57	280						
23	3,618	24	24	24	24	23	23	24	24	56	1600	0	60	550	0	0	0	100	60			142	132		0.18	148	142	7.2	6.9	7.7	156	198	178	0.57	280						
24	3,607	24	23	23	24	24	24	24	24	60	1600	0	60	825	0	0	0	170	60			122	138		0.09	128	140	7.7	7.5	7.4	164	162	166	0.61	280						
25	3,726	24	24	24	24	24	24	23	23	70	1800	0	60	688	0	0	0	100	70			134	128		0.27	160	128	7.7	7.5	7.4	140	144	160	0.57	300						
26	3,942	23	24	24	23	24	24	24	24	70	1900	0	60	963	0	0	0	140	60			134	130		0.16	168	124	7.7	8.1	7.4	144	140	144	0.66	300						
27	3,845	24	24	24	24	23	23	24	24	70	1800	0	60	825	0	0	0	170	60			176	120		0.11	138	126	7.5	7.5	7.5	130	134	142	0.61	300						
28	3,630	24	23	23	24	24	24	24	24	70	2000	0	60	1100	0	0	0	160	50			118	120		0.08	124	124	7.5	7.4	7.5	130	144	160	0.76	300						
29																																									
30																																									
31																																									
TOT	107681	665	665	665	664	665	665	665	665	1859	33300		1680	6324				2270	1465			6192	5790		4.36	6368	5876	217	206	211	6076	6756	6872	16.5	7480						
Avg	3846	24	24	24	24	24	24	24	24	66	1189		60.00	226				81	52			221	207		0	227	210	7.7	7.4	7.5	217.0	241	245	0.589	#####						

Power Costs	\$22,385.17
Labor Costs	\$30,110.25
Chemicals	\$14,565.78
Supplies	\$865.33
Repairs	\$2,412.61
TOTAL	\$70,339.14

Cost per thousand Gallons \$ 0.65

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

Ave Wash Period (Minutes)

% Wash Water Used 1.73%

Ave. Head Loss for Washing

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

Signed

Title

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

Oper. Cert. No. B 90404

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT
WATER TREATMENT PLANTS**

System

Address

City

ZIP

PWSID: 1010601

February 2018

19,491

☒ Rapid Rate Filter

☐ Slow Sand Filter

Slow Sand Filter	No. OF	% OF TOTAL
	SAMPLES	SAMPLES
TURBIDITY GREATER THAN 0.5 NTU:	0	0%
TURBIDITY GREATER THAN 0.3 NTU:	0	0%
TURBIDITY GREATER THAN 0.1 NTU:	7	4%

TOTAL NO. OF TURBIDITY ANALYSES:	168
HIGHEST TURBIDITY READING	0.14
NUMBER OF SAMPLES > 1 NTU	0
NUMBER OF SAMPLES > 5 NTU	0
95TH PERCENTILE OF FINISHED WATER TURBIDITY	0.08
95TH PERCENTILE OF SETTLED WATER TURBIDITY	2.63
CHLORINE RESIDUAL < 1.0 mg/l LEAVING PLANT (# Samples)	

INDIVIDUAL FILTER TURBIDITY CHECKLIST

☒ 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 Performance 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.

	TURBIDITY									RESIDUAL DISINFECTANT								COMMENTS	
DAY	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	2.69	1.2	1.8	0.06	0.03	0.03	0.03	0.03	0.03	2.03	2.29	2.34	2.36	2.18	1.93	1.96	2.11		
2	2.32	1.4	1.9	0.03	0.06	0.05	0.05	0.05	0.06	1.99	2.29	2.37	2.22	2.29	1.91	1.88	1.92		
3	2.20	1.2	1.5	0.08	0.08	0.03	0.04	0.04	0.04	1.95	1.84	2.40	2.45	2.26	2.00	2.21	2.01		
4	2.11	1.2	1.7	0.07	0.08	0.05	0.03	0.03	0.03	2.04	2.42	2.45	2.57	2.49	2.18	1.95	2.07		
5	2.05	2.3	1.8	0.03	0.03	0.03	0.03	0.03	0.03	2.21	2.41	2.48	2.61	2.45	2.28	2.10	2.31		
6	2.11	2.4	1.8	0.04	0.05	0.05	0.03	0.03	0.03	2.32	2.56	2.64	2.74	2.59	2.54	2.14	2.26		
7	4.44	2.1	2.4	0.06	0.04	0.04	0.06	0.03	0.03	2.54	2.75	2.78	2.76	2.61	2.15	2.34	2.39		
8	2.19	2.2	1.8	0.03	0.03	0.03	0.03	0.03	0.03	2.17	2.43	2.50	2.63	2.50	2.10	2.21	2.16		
9	2.34	1.9	1.7	0.03	0.04	0.05	0.05	0.07	0.05	2.22	2.39	2.50	2.58	2.43	2.08	2.57	2.12		
10	2.22	2.1	1.9	0.08	0.06	0.03	0.03	0.03	0.04	2.14	2.33	2.56	2.63	2.61	2.51	2.49	2.18		
11	2.19	2.3	1.9	0.13	0.04	0.06	0.06	0.05	0.03	2.52	2.27	2.71	2.66	2.45	2.11	2.55	2.39		
12	2.24	3.2	2.3	0.03	0.03	0.03	0.03	0.03	0.03	2.14	2.34	2.46	2.63	2.44	2.07	2.05	2.67		
13	2.21	2.1	2.4	0.03	0.04	0.08	0.04	0.03	0.03	2.12	2.54	2.65	2.51	2.36	2.18	1.99	2.16		
14	2.08	1.8	1.5	0.03	0.06	0.04	0.06	0.03	0.03	2.20	2.50	2.56	2.55	2.44	1.91	2.24	2.33		
15	2.25	1.8	1.7	0.03	0.06	0.03	0.03	0.03	0.03	1.98	2.21	2.36	2.40	2.18	1.82	2.44	2.09		
16	2.53	1.6	1.5	0.03	0.03	0.03	0.03	0.03	0.03	1.94	2.18	2.33	2.26	2.17	1.96	2.25	1.99		
17	2.54	1.9	1.4	0.04	0.03	0.03	0.03	0.03	0.03	1.98	2.16	2.26	2.26	2.11	1.60	1.94	2.04		
18	3.47	2	1.5	0.04	0.04	0.03	0.05	0.03	0.03	1.65	1.94	2.03	2.19	2.32	2.17	1.78	2.06		
19	2.54	1.1	1.3	0.05	0.07	0.03	0.03	0.03	0.03	2.19	2.33	2.40	2.41	2.37	2.24	2.04	1.91		
20	7.48	1.8	2	0.07	0.03	0.03	0.03	0.03	0.03	2.27	2.41	2.41	2.35	2.24	2.23	2.18	1.96		
21	5.32	1.3	1.6	0.05	0.04	0.04	0.04	0.04	0.04	2.26	2.56	2.66	2.72	2.64	2.54	2.16	2.00		
22	6.05	1.1	1.5	0.05	0.04	0.04	0.04	0.04	0.04	2.54	2.70	2.74	2.73	2.70	2.54	2.04	2.45		
23	6.17	2.3	1.7	0.04	0.08	0.04	0.04	0.05	0.05	2.54	2.67	2.80	2.77	2.74	2.60	2.17	2.23		
24	10.01	2.2	2.2	0.05	0.07	0.06	0.05	0.07	0.06	2.61	2.70	2.81	2.76	2.72	2.23	2.26	2.46		
25	11.06	2.2	2.3	0.13	0.11	0.07	0.06	0.05	0.06	2.16	2.32	2.39	2.27	2.09	1.79	2.28	2.10		
26	11.51	2	2.5	0.13	0.06	0.05	0.04	0.04	0.05	1.87	2.12	2.13	2.48	2.46	2.33	1.67	2.04		
27	13.97	2.4	2.7	0.14	0.11	0.08	0.06	0.06	0.05	2.40	2.92	2.98	2.81	2.79	2.71	2.03	1.77		
28	13.25	2.6	2.7	0.11	0.07	0.05	0.06	0.06	0.06	2.79	3.10	3.15	2.95	2.84	2.49	1.73	2.79		
29																			
30																			
31																			



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: February 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	0.08	0.57	Number of Samples Required:					
2	0.23	0.57	Number of Samples Collected:					
3	0.21	0.47	Was All Chlorine Dioxide Monitoring & Reporting Completed? Yes / No					
4	0.13	0.52	Number of ClO ₂ samples exceeded the MRDL of 0.8 mg/L?					
5	0.14	0.47	If a routine sample exceeds the MRDL, the system is required to take (3) three more samples the next day.					
6	0.17	0.66	<u>Chlorite Daily Monitoring (Summary Type: CLO2)</u>					
7	0.08	0.66	Number of Samples Required:					
8	0.13	0.47	Number of Samples Collected:					
9	0.14	0.61	Was All Chlorite Monitoring & Reporting Completed? Yes / No					
10	0.19	0.57	Number of Chlorite samples exceeded the MCL of 1.0 mg/L?					
11	0.25	0.61	If a routine sample exceeds the MCL, the system is required to take (3) three more samples the next day.					
12	0.22	0.57	* 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	0.09	0.52						
14	0.31	0.57						
15	0.09	0.47	<u>Routine Chlorite Monthly Monitoring in Distribution System</u>					
16	0.08	0.57	Sampling Location	Lab Sample ID	Sampling Point ID	Collection Date	Certified Lab ID	Chlorite (mg/L)
17	0.14	0.57	Near 1st Customer					
18	0.24	0.57	Avg. Residence Time					
19	0.17	0.66	Max. Residence Time					
20	0.19	0.71	Monitoring Period Average:					
21	0.08	0.76	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	0.11	0.57						
23	0.18	0.57						
24	0.09	0.61	Signature of owner or operator: _____ Date: _____					
25	0.27	0.57						
26	0.16	0.66						
27	0.11	0.61	Operator License Number _____					
28	0.08	0.76						
29								
30								
31								

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 February 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. Worked at Chuckwa tower digging up valves
16. Built blind flange for 16" line and installed to test altitude valves
17. Rebuilt valves in front of vaults at 1St and 13th towers
18. Contractors installed altitude valve at Chuckwa Tower
19. Installed new heater in the new filter building
20. eplaced light bulbs in the new filter building
21. Repaired cracked post chlorine line
22. Installed new feed tubes in caustic pumps
23. Installed 24 volt boards in new Beck controller
24. Contractors finished with all aspects of altittuded valves
25. Treated 107,681,000 gallons of water

B. Work Planned for January-December

Approx Start/Finish Date

1. Paint buildings and clarifiers and hand rails around plant Time permitting

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