

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**

February 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 January 9, 2018

2. Consider 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.

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

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

Cynthia J. Price, City of Durant



The City of Durant

Office of City Clerk

Memorandum

Date: 1/31/2018
To: Utilities Authority
From: Cynthia J. Price, City Clerk
Re: Consider Approval of Regular Meeting Minutes of January 9, 2018

Council Information / Action Requested

Approval of Regular Meeting Minutes of January 9, 2018

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

ATTACHMENTS:

Description	Type	Upload Date
1.9.2018 Minutes	Exhibit	1/31/2018

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 5:00 p.m..on the 5th day of January, 2018.

MINUTES OF THE REGULAR SCHEDULED MEETING OF THE DURANT CITY UTILITIES AUTHORITY OF January 9, 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 7:25 p.m.

ROLL CALL

Present: Trustee Destry Hawthorne	City Attorney Tom Marcum
Trustee Oden Grube	City Manager Tim Rundel
Trustee Mike Dills	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 December 12, 2017 Approved

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

Motion Passed with the following vote:

Ayes: Dills, Grube, Hawthorne, Hitchcock, Tomlinson

2. Consideration Items Removed from Consent

3. Administration

a. Consider Approval of Request for Authorization to Purchase for Water Meters (RFAP #2018-108)

Approved

Jay Neal, Water/Sewer Line Maintenance Department Supervisor addressed council and stated 40 new meters are needed to replace 40 unserviceable meters. An additional 50 meters are being requested for the Water/Sewer Line Maintenance Department to be used for swap outs and new constructions. Mr. Neal stated this is a budgeted item.

City Manager Rundel stated the meters are AMR compatible.

Motion was made by Destry Hawthorne and seconded by Chad Hitchcock to approve Request for Authorization to Purchase for Water Meters (RFAP #2018-108). Motion Passed with the following vote:

Ayes: Dills, Grube, Hawthorne, Hitchcock, Tomlinson

4. Information Items

- a. Landfill Information & Reports - December 2017
- b. Solid Waste Department Monthly Report - December 2017
- c. Waste Water Treatment Plant and Lab Monthly Report - December 2017
- d. Waste Water Treatment Plant Projects Schedule - December 2017
- e. Water Treatment Plant - Monthly Operation Reports - December 2017

Adjournment

Motion was made by Destry Hawthorne and seconded by Chad Hitchcock to adjourn meeting. Motion Passed with the following vote:

Ayes: Dills, Grube, Hawthorne, Hitchcock, Tomlinson



The City of Durant

Public Works Director

Memorandum

Date: 1/31/2018
To: Utilities Authority
From: Marty Cook - Public Works Director
Re: 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.

In the discussion of our Fluoride system at the Water Treatment Plant we will have a brief presentation by City Engineer Brandon Wall and a spokesperson for the Durant area Dentists. City staff will also be available to speak as needed during the discussion.

Council Information / Action Requested

Approve / Deny

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



The City of Durant

Solid Waste Landfill

Memorandum

Date: 2/1/2018
To: Utilities Authority
From: Zefe Laborico, Supervisor, Solid Waste
Landfill
Re: Landfill Information & Reports - January 2018

Council Information / Action Requested

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

ATTACHMENTS:

Description	Type	Upload Date
January 2018 DEQ Report	Cover Memo	2/1/2018
January 2018 Project schedule	Cover Memo	2/1/2018



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: JANUARY 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: 25

COMPLETE SECTIONS 5-10 ONLY IF SCALES GO DOWN

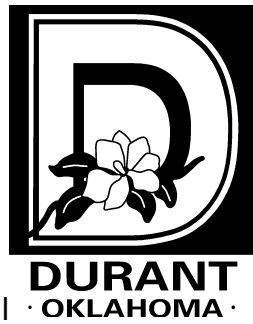
D A Y	(1) Total weight accepted (tons)	(2) Weight which is reused or recycled in accordance with facility permit (tons)	(3) Weight accepted from a DEQ approved emergency or special event (tons)	(4) Weight accepted from large industrial waste generators with DEQ exemption certificate (tons)	(5) Time scales 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	0									
2	23.06									
3	31.35									
4	36.72									
5	77.12									
6	9.9									
7	0									
8	30.04									
9	45.42									
10	56.72									
11	58.24									
12	21.06									
13	3.32									
14	0									
15	0									
16	52.34									
17	36.9									
18	61.19									
19	75.04									
20	13.36									
21	0									
22	39.26									
23	44.59									
24	33.23									
25	56.17									
26	81.34									
27	6.87									
28	0									
29	45.64									
30	38.87									
31	57.23									
Total	1034.98	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 ***January 2018***

A. Work Completed for January:

1. Covered C & D Site
2. Hauled MSW To SORD
3. picked up 350 rolloff's & 7 delivered

B. Work Planned For February:

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: 1/31/2018
To: Utilities Authority
From: Albert Pierce, Solid Waste Department Superintendent
Re: Solid Waste Department Monthly Report - January 2018

Council Information / Action Requested

Information Only.

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

ATTACHMENTS:

Description	Type	Upload Date
Monthly Report - January 2018	Cover Memo	1/25/2018



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE PROJECTS SCHEDULE ***January 2018***

A. Work Completed:

1. Hauled 53.28 tons of extra hauling
2. Hauled 76 loads of extra hauling
3. Picked up and delivered 23 sharps
4. No abatement this month
5. Cleaned Sunny Side rd. 2 times
6. Refurbished 9 dumpsters
7. Replaced 3 dumpsters with new
8. Cleaned dead ends of Cemetery rd. 2 times

B. Work Planned For February

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 the Wastewater Treatment Plant

Memorandum

Date: 2/5/2018
To: Utilities Authority
From: Terry Condor, Waste Water Treatment Plant Superintendent
Re: Waste Water Treatment Plant and Lab Monthly Report - January 2018

Council Information / Action Requested

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

ATTACHMENTS:

Description	Type	Upload Date
Project Schedule for February 2018	Exhibit	2/5/2018
MOR - January 2018	Exhibit	2/5/2018
Lab Report - January 2018	Exhibit	2/5/2018



The City of Durant

Office of the Wastewater Treatment Plant

PROJECTS SCHEDULE

A: WORK COMPLETED IN JANUARY 2018

- 1: MONITORING OF SBR SE VALVES TO DETERMINE FURTHER FAILURES (on going)
- 2: CLEAN CLARIFIER WEIRS 1-24-18
- 3: CLEAN BLEND TANK MIXER 1-24-18
- 4: CLEAN EFFLUENT PUMP STATION -----
- 5: CLEAN RAW WATER PUMP STATION 1-26-18
- 6: CLEAN SCUM PUMP STATION 1-3-18
- 7: CLEAN DRAIN LIFT STATION 1-25-18
- 8: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER 1-5-18
- 9: CALIBRATE DISCHARGE DO & PH METER 1-23-18
- 10: CHECK CALIBRATION OF DISCHARGE FLOW METER 1-31-18
- 11: RESET SBR PLC (NOT NEEDED)
- 12: WASH DOWN STEP SCREEN 1-29-18
- 13: CLEAN UV TROUGHS AND FLUME 1-22-18
- 14: CHECK ELECTRIC MANHOLES 1-23-18
- 15: CLEAN OUT BUILDINGS 1-26-18
- 16: MANUALLY CHECK U.V. BULBS 1-24-18
- 17: WASH DOWN CASINO STEPSCREEN 1-9-18
- 18: CHECK ALL AUTOMATIC VALVES
- 19: VEHICLE INSPECTION 1-23-18
- 20: WALK-THRU INSPECTION 1-4-18
- 21: CLEAN ALL PLC's 1-10-18
- 22: CLEAN D.O. METERS (NOT NEEDED)
- 23: CHECK CLARIFIER OIL WEEKLY 1-4/1-8/1-31-18
- 24: ODEQ REPORT DUE 1/18/18
- 25: REPAIR COMMUNICATIONS 1-19-18

TREATED 51.704 MG OF WASTEWATER
PROCESSED .584855 MG OF TREATED SLUDGE

B: WORK PLANNED FOR 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 -----
- 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

CITY OF DURANT WASTEWATER TREATMENT PLANT MONTHLY OPERATION REPORT

WASTEWATER TREATMENT PLANT MONTHLY OPERATION REPORT																				MONTH OF		January 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	
M	1/1/18		14	1.8	1.8	1	4						20971															
T	1/2/18		12	1.9	1.9	1	4	7.0	30				21091	59748	900	900	900	900	11.8	7.8								
W	1/3/18		17	2.0	1.9	1	4	7.0	10	95.2	188	36	22125	53311	950	900	900	900	11.7	7.8								
T	1/4/18		22	2.0	2.0	1	4	7.1	3				23253	52726	900	900	910	900	11.7	7.7	5.5	0.2	2.6		1			
F	1/5/18		21	2.0	2.0	1	4	6.7	3				21052	53223					12.0	7.8								
S	1/6/18		1.9	1.8	1	4													11.7	7.8								
S	1/7/18	1.1		2.4	2.3	1	4						20714						8.0	7.6								
M	1/8/18		39	2.1	2.1	1	4	7.0	7				20843						8.1	7.6								
T	1/9/18		40	2.2	2.0	1	4	7.0	5				21075		900	950	900	900	8.0	7.6								
W	1/10/18		45	2.0	1.9	1	4	7.0	5				21922	53098	900	900	900	900	8.0	7.6								
T	1/11/18		52	2.0	2.0	1	4	7.1	5	116	143	56	20729	53864					8.9	7.6								
F	1/12/18		18	2.0	2.1	1	4						19996	53076					7.1	7.6	4.0	0.2	2.26					
S	1/13/18			1.9	1.8	1	4						21049						9.2	7.7								
S	1/14/18			2.0	2.1	1	4						20734						8.2	7.7								
M	1/15/18			2.1	2.2	1	4						19438						8.2	7.6								
T	1/16/18		10	2.0	1.7	1	4	7.3	1.3				23295	53240	950	950	900	900	8.1	7.7								
W	1/17/18		6	2.1	1.8	1	4	7.1	5	91.5	131.4	48	20949		950	900	900	900	8.4	7.6								
T	1/18/18		12	2.0	1.8	1	4	7.2	3				35896		950	900	850	900	8.4	7.6					3			
F	1/19/18		25	1.9	1.9	1	4	7.0	10				20780						8.4	7.6								
S	1/20/18			1.9	1.8	1	4						21464						8.9	7.7								
S	1/21/18	1.18		2.0	2.1	1	4						20747						10.7	7.6								
M	1/22/18		39	2.0	2.1	1	4	6.9	7				21301						16.5	7.9								
T	1/23/18		31	1.9	1.7	1	4	7.1	5				21230		900	900	900	900	10.5	7.7								
W	1/24/18		28	1.9	1.7	1	4	6.9	80				21009		950	900	900	900	10.5	7.8								
T	1/25/18		28	1.9	1.8	1	4	6.8	8				21816	22915					7.1	7.9	3.1	0.5	2.5					
F	1/26/18		47	1.8	1.8	1	4	6.8	10				21918	56849					7.1	7.8								
S	1/27/18			1.9	1.8	1	4						20744						7.2	7.8								
S	1/28/18			1.9	1.7	1	4						19612						7.4	7.6								
M	1/29/18		31	1.9	1.7	1	4	7					21026	53369	900	950	900	900	7.2	7.7								
T	1/30/18		26	1.9	1.7	1	4	6.9	5				20952	53266	900	900	900	900	7.2	7.6								
W	1/31/18		41	1.9	1.8	1	4	6.9	20	116.6	141.7	84	21029	53310	900	900	900	900	7.2	7.5	3.3	0.6	3.5					

MONTH OF

January 2018



THE CITY OF DURANT

Office of the Wastewater Treatment Plant

Lab Report

01/1/18 to 01/31/18

Tests Processed

<u>75</u>	Bac-t's
<u>105</u>	BOD's
<u>25</u>	TSS's
<u>75</u>	NH3's
<u>0</u>	DO's
<u>180</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



The City of Durant

Office of the Water Treatment Plant

Memorandum

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

Council Information / Action Requested

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

ATTACHMENTS:

Description	Type	Upload Date
January 2018 Chlorite and CLO2 Report	Exhibit	2/1/2018
January 2018 MOR#1	Exhibit	2/1/2018
January 2018 MOR#2	Exhibit	2/1/2018
January 2018 Maintenance Report	Exhibit	2/1/2018



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: January Year: 2018

3. Analytical Results & Summary Information:

Entry Point Monitoring			Chlorine Dioxide Daily Monitoring (Summary Type: CLO2)					
Day	ClO ₂ (mg/L)	Chlorite (mg/L)						
1	0.28	0.71	Number of Samples Required:					
2	0.16	0.61	Number of Samples Collected:		31			
3	0.14	0.71	Was All Chlorine Dioxide Monitoring & Reporting Completed?		Yes / No			
4	0.33	0.8	Number of ClO ₂ samples exceeded the MRDL of 0.8 mg/L?		0			
5	0.22	0.85	If a routine sample exceeds the MRDL, the system is required to take (3) three more samples the next day.					
6	0.32	0.85	Chlorite Daily Monitoring (Summary Type: CLO2)					
7	0.19	0.85	Number of Samples Required:					
8	0.24	0.95	Number of Samples Collected:		31			
9	0.12	0.85	Was All Chlorite Monitoring & Reporting Completed?		Yes / No			
10	0.36	0.85	Number of Chlorite samples exceeded the MCL of 1.0 mg/L?					
11	0.23	0.9	If a routine sample exceeds the MCL, the system is required to take (3) three more samples the next day.					
12	0.16	0.76	* 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	0.13	0.71						
14	0.13	0.71						
15	0.12	0.71	Routine Chlorite Monthly Monitoring in Distribution System					
16	0.2	0.8	Sampling Location	Lab Sample ID	Sampling Point ID	Collection Date	Certified Lab ID	Chlorite (mg/L)
17	0.23	0.9	Near 1st Customer					
18	0.25	0.85	Avg. Residence Time					
19	0.23	0.66	Max. Residence Time					
20	0.17	0.76	Monitoring Period Average:					
21	0.38	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	0.13	0.76						
23	0.07	0.9						
24	0.08	0.52	Signature of owner or operator: _____ Operator License Number _____ Date: _____					
25	0.19	0.61						
26	0.21	0.52						
27	0.36	0.71						
28	0.14	0.47						
29	0.15	0.47						
30	0.07	0.52						
31	0.08	0.47						

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

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: January

Population: 19,491

System

Address

City

ZIP

DAY	WATER TREATED	FILTER OPERATION								WASH WATER IN 1000 GALS.	CHEMICALS USED-LBS.										ALKALINITY						pH			CaCO3	HARDNESS		Chlorite	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		pH				STABILITY Method:	(ppm)				Chlorite residual				
		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	FILT	AM	FILT
1	4,023	23	23	23	23	23	0	23	23	190	1200	0	50	0	0	0	0	60	60			258	242		0.28	272	244	8	7.7	7.7	242	280	274	0.71	320					
2	4,357	23	23	23	23	23	0	23	23	222	1200	0	60	0	0	0	0	60	60			276	260		0.16	272	258	7.9	7.4	7.2	256	294	286	0.61	320					
3	5,043	23	23	23	23	23	0	23	23	200	1800	0	60	0	0	0	0	70	50			282	278		0.14	294	250	7.8	7.2	7.3	258	284	282	0.71	320					
4	5,515	23	23	23	23	23	0	23	23	140	1300	0	60	0	0	0	0	60	60			272	252		0.33	282	252	7.7	7.2	7.4	258	294	288	0.8	320					
5	5,349	23	23	23	23	23	0	23	23	195	2400	0	60	0	0	0	0	60	60			266	266		0.22	264	242	7.7	7.2	7.5	272	262	292	0.85	380					
6	4,806	23	23	23	23	23	0	23	23	430	1500	0	60	0	0	0	0	70	50			260	246		0.32	284	242	8	7.4	7.3	270	292	284	0.85	350					
7	4,653	23	23	23	23	23	0	23	23	205	1500	0	60	0	0	0	0	70	50			260	240		0.19	270	242	7.9	7.4	7.8	248	274	286	0.85	350					
8	4,634	23	23	23	23	23	0	23	23		1400	0	60	0	0	0	0	70	50			266	256		0.24	270	240	7.9	7.4	7.5	262	274	280	0.95	350					
9	4,674	23	24	24	23	24	0	24	24	50	1300	0	60	0	0	0	0	80	60			276	258		0.12	284	250	7.9	7.3	7.6	258	272	280	0.85	350					
10	4,475	24	23	23	24	23	0	24	24	75	1400	0	60	0	0	0	0	70	50			274	260		0.36	278	248	8	7.2	7.1	256	288	278	0.85	340					
11	4,716	23	23	23	24	24	0	23	23	115	1400	0	60	0	0	0	0	100	80			276	260		0.23	272	242	7.8	6.9	7.2	258	284	274	0.9	340					
12	4,709	23	23	24	24	24	0	23	23	135	1700	0	60	0	0	0	0	80	60			278	254		0.16	304	238	7.7	7.1	7.4	256	320	318	0.76	340					
13	4,245	23	23	23	23	23	0	24	24	170	1300	0	60	0	0	0	0	60	40			264	242		0.13	304	236	7.8	7.3	8	242	292	280	0.71	320					
14	3,816	24	23	23	24	24	0	23	23	110	1100	0	60	0	0	0	0	60	40			268	246		0.13	302	244	7.9	7.4	7.6	250	288	274	0.71	280					
15	3,790	23	23	23	23	23	0	24	24	130	1100	0	60	0	0	0	0	80	50			260	246		0.12	288	242	8	7.6	7.6	246	298	298	0.71	280					
16	4,249	24	24	24	24	23	0	23	23	75	1200	0	60	0	0	0	0	80	50			280	260		0.2	278	260	7.9	7.3	7.5	242	292	278	0.8	280					
17	4,359	23	23	23	23	24	0	23	23	195	1400	0	60	0	0	0	0	70	50			288	278		0.23	272	256	8.1	7.4	7.1	266	300	288	0.9	280					
18	4,452	23	23	23	23	23	0	23	23	175	1000	0	60	0	0	0	0	50	50			290	270		0.25	332	246	7.8	7.1	7.4	258	290	280	0.85	280					
19	4,986	23	22	22	23	23	0	23	23	215	1400	0	60	0	0	0	0	50	50			278	266		0.23	268	252	7.8	7.2	7.4	254	298	282	0.66	320					
20	4,821	23	23	23	23	24	0	23	23	150	1400	0	60	0	0	0	0	80	50			264	252		0.17	278	246	7.9	7.3	7.7	260	298	306	0.76	340					
21	4,841	24	23	23	24	23	0	24	24	60	1200	0	60	0	0	0	0	0	110			256	250		0.38	264	236	8	7.5	7.6	252	300	290	0.76	310					
22	4,752	23	24	24	23	24	0	24	24	50	1100	0	60	0	0	0	0	0	80			264	260		0.13	288	246	7.9	7.3	7.7	256	264	280	0.76	310					
23	4,275	23	23	23	24	23	8	24	24	100	1100	0	60	0	0	0	0	0	100			252	226		0.07	276	256	7.8	7	7.5	240	300	302	0.9	280					
24	4,203	24	24	24	23	24	24	24	24	25	1000	0	60	0	0	0	0	0	100			256	252		0.08	268	256	7.8	7.3	7.4	254	284	274	0.52	280					
25	4,249	24	24	24	24	24	24	23	23	70	900	0	60	0	0	0	0	60	40			250	240		0.19	276	240	7.8	7.3	7.5	242	310	306	0.61	280					
26	3,797	24	23	23	24	24	24	24	24	80	1000	0	60	0	0	0	0	60	40			254	246		0.21	358	244	7.9	7.3	7.5	242	310	300	0.52	280					
27	3,942	23	24	24	24	23	23	24	24	90	1000	0	60	0	0	0	0	60	50			260	242		0.36	278	240	7.8	7.3	7.7	260	308	306	0.71	270					
28	4,002	24	24	24	23	24	24	24	24	35	900	0	60	0	0	0	0	50	40			254	238		0.14	262	234	7.9	7.5	7.7	242	262	256	0.47	260					
29	3,987	24	24	24	24	24	24	23	23	70	1200	0	60	0	0	0	0	60	60			252	230		0.15	268	236	7.7	7.1	7.3	242	268	268	0.47	260					
30	3,953	24	23	23	24	24	24	24	24	70	800	0	60	0	0	0	0	40	40			254	232		0.07	268	246	7.8	7.2	7.5	246	294	294	0.52	260					
31	4,086	23	24	24	23	23	24	24	24	90	1000	0	60	0	0	0	0	60	40			270	250		0.08	272	254	7.8	7.2	7.4	254	290	264	0.47	260					
TOT	137759	726	726	726	725	726	199	726	726	3917	39200		1850					1770	1770			8258	7798		6.07	8746	7618	244	226	232	7842	8964	8848	22.5	9510					
Avg	4444	24	24	24	24	24	24	24	24	126	1265		59.68					57	57			266	252		0	282	246	7.9	7.3	7.5	253.0	289	285	0.726	#####					

Power Costs	\$23,596.57
Labor Costs	\$30,110.25
Chemicals	\$13,761.67
Supplies	\$237.21
Repairs	\$2,045.22
TOTAL	\$69,750.92

Cost per thousand Gallons \$ 0.51

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

Ave Wash Period (Minutes)

% Wash Water Used 2.84%

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: January
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:	39	21%	

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

HIGHEST TURBIDITY READING

NUMBER OF SAMPLES > 1 NTU

NUMBER OF SAMPLES > 5 NTU

95TH PERCENTILE OF FINISHED WATER TURBIDITY

95TH PERCENTILE OF SETTLED WATER TURBIDITY

CHLORINE RESIDUAL < 1.0 mg/l LEAVING PLANT (# Samples)

0.18	◀
0	◀
0	◀
0.14	◀ NOT REQUIRED
5.49	◀ NOT REQUIRED

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	2.86	3.3	2.7	0.09	0.04	0.05	0.06	0.09	0.10	2.51	2.68	2.72	2.83	2.55	2.20	2.60	3.01	
2	3.77	4.7	2.1	0.13	0.10	0.12	0.10	0.14	0.10	2.36	2.63	2.70	2.81	2.72	2.68	3.52	3.30	
3	4.72	4.9	3.7	0.10	0.07	0.14	0.14	0.12	0.15	2.73	3.00	2.99	2.97	2.75	2.77	3.32	2.87	
4	8.37	5.7	3.3	0.11	0.10	0.09	0.15	0.04	0.06	2.79	2.97	3.03	2.58	2.60	2.47	3.25	2.95	
5	6.26	5.5	3.3	0.05	0.07	0.08	0.14	0.15	0.14	2.51	2.68	2.62	2.34	2.39	2.24	2.42	2.43	
6	6.71	6.4	5.7	0.13	0.14	0.14	0.14	0.14	0.13	2.34	2.50	2.55	2.56	2.46	2.33	2.12	1.87	
7	5.80	3.6	2	0.12	0.09	0.13	0.10	0.06	0.08	2.58	2.58	2.52	2.54	2.51	2.35	2.91	2.64	
8	5.69	3.3	2.7	0.05	0.08	0.09	0.11	0.11	0.10	2.60	2.69	2.71	2.66	2.56	2.56	2.64	2.78	
9	4.53	2.7	2.8	0.03	0.05	0.08	0.10	0.12	0.05	2.58	2.62	2.55	1.64	1.46	2.44	2.62	2.58	
10	4.11	2.3	2	0.18	0.11	0.11	0.10	0.11	0.11	2.16	2.15	2.22	2.22	2.22	2.21	2.87	2.19	
11	3.04	2.6	2.1	0.13	0.03	0.03	0.04	0.06	0.13	2.36	2.61	2.53	2.52	2.42	2.46	2.60	2.49	
12	3.21	2.5	2	0.10	0.12	0.10	0.07	0.03	0.04	2.50	2.63	2.61	2.63	2.33	2.29	2.55	2.24	
13	2.88	2.8	1.6	0.07	0.04	0.05	0.09	0.04	0.06	2.51	2.71	2.75	2.78	2.74	2.54	2.32	2.63	
14	2.64	2.5	2.5	0.08	0.06	0.04	0.03	0.05	0.06	2.58	2.63	2.69	2.66	2.58	2.34	2.58	2.58	
15	2.62	2.4	2.3	0.06	0.07	0.07	0.10	0.06	0.08	2.36	2.43	2.47	2.58	2.53	2.63	2.45	2.41	
16	2.67	2.5	1.9	0.05	0.03	0.03	0.06	0.09	0.11	2.68	2.82	2.84	2.64	2.44	2.52	2.51	2.48	
17	2.81	4.4	4.2	0.11	0.07	0.04	0.07	0.09	0.13	2.62	2.92	2.90	2.80	2.77	2.67	2.50	2.82	
18	3.26	4.6	2.8	0.07	0.06	0.10	0.10	0.08	0.08	2.69	2.81	2.82	2.91	2.91	2.67	2.67	2.75	
19	4.18	5.3	2.3	0.06	0.10	0.09	0.10	0.10	0.09	2.72	2.84	2.88	2.78	2.66	2.56	2.66	2.85	
20	6.16	4.5	2.9	0.06	0.08	0.08	0.07	0.10	0.07	2.66	2.62	2.68	2.81	2.50	2.54	2.56	2.59	
21	5.53	3.5	2.4	0.07	0.05	0.07	0.06	0.05	0.09	2.55	2.64	2.65	2.66	2.63	2.72	2.44	2.53	
22	4.80	2.2	3	0.06	0.05	0.06	0.03	0.03	0.04	2.60	2.25	2.14	2.13	2.13	1.94	2.59	2.23	
23	5.44	1.9	3.3	0.06	0.03	0.06	0.04	0.03	0.03	1.97	2.00	2.02	1.98	1.92	1.85	1.90	1.86	
24	2.57	2.5	3.3	0.03	0.03	0.03	0.05	0.03	0.03	1.85	1.88	1.89	1.94	1.85	1.83	1.79	1.78	
25	2.88	1.5	1.9	0.04	0.03	0.03	0.03	0.03	0.03	1.89	1.97	1.95	2.18	2.15	1.92	1.75	1.70	
26	3.09	1.7	1.9	0.03	0.05	0.05	0.05	0.05	0.07	1.97	2.06	2.19	2.10	2.09	2.11	2.03	1.88	
27	2.67	2	3.1	0.08	0.07	0.03	0.03	0.03	0.04	2.16	2.29	2.46	2.48	2.37	2.00	2.09	2.01	
28	2.95	1.7	2.3	0.04	0.03	0.03	0.03	0.03	0.03	2.00	2.01	2.22	2.35	2.23	1.88	2.07	2.03	
29	2.65	1.6	1.9	0.04	0.03	0.03	0.04	0.04	0.04	1.94	2.12	2.26	2.43	2.28	1.98	1.90	2.11	
30	2.57	1.4	1.8	0.05	0.03	0.03	0.04	0.03	0.04	2.02	2.34	2.38	2.45	2.33	2.01	1.95	2.10	
31	2.33	1.5	2.6	0.05	0.04	0.07	0.03	0.03	0.03	2.04	2.41	2.46	2.57	2.20	1.99	1.98	2.15	



THE CITY OF DURANT

Office of the Water Treatment Plant

Water Treatment Plant Projects Schedule January 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. Repaired line feeding level transmitter at SOSU tower
16. Bypassed vaults on 1st and Arkansas and drained Altitude valves to be replaced
17. Removed heater in CL2 room and installed downstairs of the old chemical building
18. Removed shorted out old heater in old plant raw vault and restored electric power in vault
19. Installed new heater in the pipe gallery of the old filter building
20. Did annul fit test at the Fire Department
21. Repaired water leak on the raw water line feeding the raw turbidity meter
22. Dug up and fixed water leak on the new plant post cl2 line
23. Installed a gateway on #6 filter console and put filter back online
24. Contractors installed new altitude valves at 1st and Arkansas and 13th and Arkansas
25. M&O dug up valves going into the vaults at 1st and Arkansas and 13th and Arkansas and we removed broken parts and sent them, to the machine shop to be repaired
26. Digging up the valves at Chuckwa tower so they can be replaced so we can take water off the altitude valve and it can be replaced
27. Treated 137,759,000 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