

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.

DURANT CITY UTILITIES AUTHORITY

6:00 PM

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

November 8, 2022

AGENDA

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 Called Meeting Minutes of October 11, 2022
- b. Consider Approval of Special Called Minutes of October 14, 2022
- c. Consider Approval of 2023 Meeting Schedule

2. Consider Items Removed from Consent

3. Information Items

- a. Solid Waste Collection Monthly Report - October 2022
- b. Solid Waste Landfill Report - October 2022
- c. Utility Billing Monthly Report - October 2022
- d. Waste Water Treatment Plant Projects & Lab Report - October 2022
- e. Water and Sewer Line Maintenance Monthly Report - October 2022
- f. Water Treatment Plant: October 2022 MORs

4. Administration
5. New Business

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 9th day of November, 2021 and that an agenda of said meeting was posted at the place of such meeting at 8:00 a.m. on the 4th day of November, 2022.



Cynthia J. Price, City of Durant



The City of Durant

Memorandum

Date: 11/8/2022
To: Mayor and City Council
From: Cynthia Price, City Clerk
Re: Consider Approval of Regular Called Meeting Minutes of October 11, 2022

Council Information / Action Requested

Approval of Regular Called Meeting Minutes of October 11, 2022

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

ATTACHMENTS:

1. Durant City Utilities Authority Minutes 10112022 cjp

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 9th day of November, 2022 and that an agenda of said meeting was posted at the place of such meeting at 4:15 p.m. on the 7th day of October, 2022.



Cynthia J. Price, City of Durant

MINUTES OF THE MEETING OF DURANT CITY UTILITIES AUTHORITY

October 11, 2022 AT 6:00 PM

Roscoe J. Hatfield Council Chambers

300 West Evergreen

Durant, Oklahoma

CALL TO ORDER

Chairman Grube called the meeting to order at 6:58 p.m.

ROLL CALL

Present:

Trustee Humphrey Miller

Trustee Curtis Morris

Vice Chairman Danny Sherrer

Chairman Oden Grube

City Attorney Tom Marcum

Interim City Manager Lisa Taylor

City Clerk Cynthia J. Price

Absent:

Trustee Steve Brittingham

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 September 13, 2022
- b. Consider Approval of Special Called Meeting Minutes of September 16, 2022

Motion To: Approve Consent Items as Presented

Motion By: Curtis Morris

Seconded By: Humphrey Miller

Ayes: Miller, Morris, Sherrer, Grube

Nays: None

Abstain: None

2. Consider Items Removed from Consent

3. Information Items

- a. Solid Waste Collection Monthly Report - September 2022
- b. Solid Waste Disposal Monthly Report - September 2022
- c. Utility Billing Monthly Report - September 2022
- d. Utility Line Maintenance Monthly Report - September 2022
- e. Waste Water Treatment Plant Monthly Reports - September 2022
- f. Water Treatment Plant Monthly Reports - September 2022

4. Administration

5. New Business

There was no new business.

ADJOURNMENT

Motion To: Adjourn Meeting

Motion By: Humphrey Miller

Seconded By: Danny Sherrer

Ayes: Miller, Morris, Sherrer, Grube

Nays: None

Abstain: None



The City of Durant

Memorandum

Date: 11/8/2022
To: Mayor and City Council
From: Cynthia Price, City Clerk
Re: Consider Approval of Special Called Minutes of October 14, 2022

Council Information / Action Requested

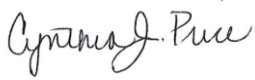
Approval of Special Called Minutes of October 14, 2022

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

ATTACHMENTS:

1. Special Called Durant City Utilities Authority Minutes 10142022 cjp

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 12th day of October, 2022 and that an agenda of said meeting was posted at the place of such meeting at 5:12 p.m. on the 14th day of October, 2022.



Cynthia J. Price, City of Durant

**MINUTES OF THE MEETING OF DURANT CITY UTILITIES AUTHORITY
October 14, 2022 AT 3:00 PM
Roscoe J. Hatfield Council Chambers
300 West Evergreen
Durant, Oklahoma**

CALL TO ORDER

Chairman Grube called the meeting to order at 3:06 p.m.

ROLL CALL

Present:

Trustee Humphrey Miller
Trustee Curtis Morris
Vice Chairman Danny Sherrer
Chairman Oden Grube
City Clerk Cynthia J. Price

Absent:

Trustee Steve Brittingham
City Attorney Tom Marcum
City Manager Lisa Taylor

ORDER OF BUSINESS

1. Administration

- a. Discussion, Consideration and Possible Action to Approve a Quote from Southern Truck Sales in the Total Amount of \$129,760.45 for Two Used Transfer Trucks for the Landfill

Motion To: Approve Quote from Southern Truck Sales in the Total Amount of \$129,760.45 for Two Used Transfer Trucks for the Landfill

Motion By: Humphrey Miller

Seconded By: Danny Sherrer

Ayes: Miller, Morris, Sherrer, Grube

Nays: None

Abstain: None

ADJOURNMENT

Motion To: Adjourn Meeting

Motion By: Humphrey Miller

Seconded By: Danny Sherrer

Ayes: Miller, Morris, Sherrer, Grube

Nays: None

Abstain: None



The City of Durant

Memorandum

Date: 11/8/2022
To: Mayor and City Council
From: Cynthia Price, City Clerk
Re: Consider Approval of 2023 Meeting Schedule

Council Information / Action Requested

Approval of 2023 Meeting Schedule

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

ATTACHMENTS:

1. 2023 City Council, DCUA, DAA, DDA

**Schedule of Regular Meetings for
Durant City Council,
The Durant City Utilities Authority (DCUA)
Durant Airport Authority (DAA)
*Durant Development Authority (DDA)**

Calendar Year 2023

Second Tuesday each month, unless otherwise noted

DATE	TIME	LOCATION
*January 10	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110
February 14	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110
March 14	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110
*April 11	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110
May 9	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110
June 13	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110
*July 11	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110
August 8	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110
September 12	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110
*October 10	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110
November 14	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110
December 12	6:00 P.M.	Roscoe J. Hatfield Council Chambers, Room 110

* Durant Development Authority
Meets on Quarterly Basis

Filed By:
Lisa Taylor, City Manager
Durant City Hall
P.O. Box 578
Durant, OK 74702-0578
(580) 931-6605

Filed in the office of the Durant City
Clerk on November 8, 2022.

Cynthia J. Price, City Clerk



The City of Durant

Memorandum

Date: 11/8/2022
To: Mayor and City Council
From:
Re: Information Items

Council Information / Action Requested

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

ATTACHMENTS:



The City of Durant

Memorandum

Date: 11/8/2022
To: Mayor and City Council
From: Jared Dillingham, Superintendent
Re: Solid Waste Collection Monthly Report - October 2022

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

1. Solid Waste Collection Monthly Report - October 2022



THE CITY OF DURANT

Office of the Solid Waste Manager

SOLID WASTE PROJECTS

October 2022

A. Work Completed:

1. Hauled 22.07 tons of extra hauling
2. Hauled 15 loads of extra hauling
3. Picked up and delivered 4 sharps
4. No abatement this month
5. Cleaned Sunny Side rd. 0 times
6. Replaced 8 dumpsters with new
7. Cleaned dead ends of Cemetery rd. 0 time

B. Work Planned For November 2022

1. Replace dumpsters
2. Pick up trash

C. Work Planned For January 1, 2022 – December 31, 2022

1. Pick up trash
2. Replace dumpsters

D. Projects Planned And Requested For Authorization:

None



The City of Durant

Memorandum

Date: 11/8/2022
To: Mayor and City Council
From: Kenny Cooper, Supervisor
Re: Solid Waste Landfill Report - October 2022

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

1. Project schedule October 2022
2. October 2022 DEQ Report



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE DISPOSAL PROJECTS SCHEDULE ***October 2022***

A. Work Completed for October:

1. Covered C & D Site
2. Hauled MSW To SORD
3. Number of rolloff containers in service end of month 129
4. Number of rolloff containers added to service during month 20
5. Number of rolloff containers removed from service during month 16
6. Number of loaded rolloff containers emptied during month 324

B. Work Planned For November:

1. Continue Covering C&D site
2. Haul MSW To SORD
3. Continue Picking up, Delivering

C. Work Planned For Jan. '22 – Dec. '22:

Approx. Start – Finish Date:

1. Haul trash to Ardmore 1-2022 thru 12-2022

D. Projects Planned And Requested For Authorization:

1. None.

Monthly Report for Solid Waste Disposal Facilities

version 1.3

(Submission #: HPN-W30F-VD685, version 1)

Details

Originally Started By Kenny Cooper

Alternate Identifier 3507001: City of Durant C&D Landfill October 2022

Submission ID HPN-W30F-VD685

Status Draft

Form Input

Facility Information

Permit Number
3507001

Facility Information

Facility Name
City of Durant C&D Landfill

Facility Mailing Address

P.O. Box 578
Durant, OK 74702

County (Facility Location)
Bryan (07)

Point of Contact

First Name **Middle Name** **Last Name**
Kenny NONE PROVIDED Cooper
Title
Landfill Supervisor
Phone Type **Number** **Extension**
Business 580-931-6661
Email
kcooper@durant.org

Would you like to revise the Point of Contact?
No

Alternate Point of Contact

First Name **Middle Name** **Last Name**
Billy NONE PROVIDED Sharp
Title
NONE PROVIDED
Phone Type **Number** **Extension**
Business 580-931-6661
Email
bsharp@durant.org

Would you like to revise the Alternate Point of Contact?
No

Daily Waste Processed**Report Period**

Month	Year
October	2022

Did you process waste under any of the following circumstances this period?
Reuse/Recycle

Weight Handled (tons)

Day of Month	Open?	Total Weight Handled (tons)	Reused / Recycled (tons)	Emergency or Special Event Fee Waiver (tons)	Large Industrial Generator Exemption (tons)

Day of Month	Open?	Total Weight Handled (tons)	Reused / Recycled (tons)	Emergency or Special Event Fee Waiver (tons)	Large Industrial Generator Exemption (tons)
1	Yes	52.76	0.00		
2	No				
3	Yes	12.16	0.48		
4	Yes	60.97	0.00		
5	Yes	50.88	0.00		
6	Yes	98.31	0.00		
7	Yes	26.59	0.00		
8	Yes	1.54	0.00		
9	No				
10	Yes	18.04	1.58		
11	Yes	99.27	0.00		
12	Yes	36.74	0.00		
13	Yes	53.24	0.00		
14	Yes	28.69	0.00		
15	Yes	3.49	0.00		
16	No				
17	Yes	0.00	0.00		
18	Yes	55.61	0.77		
19	Yes	63.35	0.00		
20	Yes	38.16	0.00		
21	Yes	34.28	0.00		
22	Yes	8.80	0.00		
23	No				
24	Yes	5.08	1.12		
25	Yes	0.00	NONE PROVIDED		
26	Yes	7.82	0.65		
27	Yes	129.29	0.22		
28	Yes	0.91	0.00		
29	Yes	0.00	0.00		
30	No				

Day of Month	Open?	Total Weight Handled (tons)	Reused / Recycled (tons)	Emergency or Special Event Fee Waiver (tons)	Large Industrial Generator Exemption (tons)
31	Yes	0.00	0.00		
		Sum: 885.98	Sum: 4.82	Sum: NaN	Sum: NaN

Were your scales out of service at any point within this reporting period?

No

Day of Month	Open?	Total Weight Handled (tons)	Reused / Recycled (tons)	Emergency or Special Event Fee Waiver (tons)	Large Industrial Generator Exemption (tons)
31	Yes	0.00	0.00		
		Sum: 885.98	Sum: 4.82	Sum: NaN	Sum: NaN

Were your scales out of service at any point within this reporting period?

No



The City of Durant

Memorandum

Date: 11/8/2022
To: Mayor and City Council
From: Stephanie Barfield, Supervisor
Re: Utility Billing Monthly Report - October 2022

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

1. OCTOBER COUNCIL REPORT



Monthly Utility Billing,
Cash Collection,

And Consumption Summary

OCTOBER 2022

	WATER		SANITARY SEWER		SANITATION	
	Month	YTD	Month	YTD	Month	YTD
Number of Bills - Active Accounts	7086		6348		6794	
Total Revenue Billed	\$345,581.06	\$1,575,566.16	\$235,920.80	\$1,005,744.21	\$395,877.17	\$1,151,912.45
ADJUSTMENTS NOT AVAILABLE						
Adjustments in Dollar						
TOTAL CASH RECEIPTS	\$312,221.03	\$1,515,601.67	\$150,795.69	\$696,787.32	\$250,719.96	\$116,144.03

CONSUMPTION IN GALLONS	135,859,100
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NEW SERVICE APPLICATIONS 92
 NUMBER OF WALK IN/PHONE PAYMENTS 591
 MAIL PAYMENTS 844
 CREDIT CARD PAYMENTS 491
 WEB PAYMENTS 2,095
 DROP BOX PAYMENTS 348
 BANK DRAFT PAYMENTS 999
 CREDIT CARD DRAFT PAYMENTS 623
 KIOSK 1,175



Monthly Utility Billing,
Cash Collection,

And Consumption Summary

OCTOBER 2021

	WATER		SANITARY SEWER		SANITATION	
	Month	YTD	Month	YTD	Month	YTD
Number of Bills - Active Accounts	7093		6202		6837	
Total Revenue Billed	\$464,772.38	\$1,545,312.69	\$277,490.47	\$954,314.88	\$369,615.14	\$1,511,360.45
Adjustments in Dollar	(\$11,294.43)	(\$40,277.07)	(\$24,958.82)	(\$102,988.56)	(\$9,337.36)	(\$47,630.74)
TOTAL CASH RECEIPTS	\$266,464.07	\$1,049,842.75	\$94,451.54	\$387,561.10	\$196,585.18	\$805,563.87

CONSUMPTION IN GALLONS	134,055,900
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NEW SERVICE APPLICATIONS 100
 NUMBER OF WALK IN/PHONE PAYMENTS 1,057
 MAIL PAYMENTS 978
 CREDIT CARD PAYMENTS 1,284
 WEB PAYMENTS 1,703
 DROP BOX PAYMENTS 391
 BANK DRAFT PAYMENTS 968
 CREDIT CARD DRAFT PAYMENTS 359
 KIOSK 1,325
 OTHERS



The City of Durant

Memorandum

Date: 11/8/2022
To: Mayor and City Council
From: Ray Anthony, Superintendent
Re: Waste Water Treatment Plant Projects & Lab Report - October 2022

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

1. WWTP LAB Report
2. WWTP Projects



THE CITY OF DURANT

Office of the Wastewater Treatment Plant

Lab Report

10/1/22 to 10/31/22

Tests Processed

<u>71</u> Bac-T's	<u>75</u> React's
<u>72</u> BOD's	<u>33</u> COD
<u>20</u> TSS's	<u>75</u> MLSS
<u>55</u> NH3's	<u>75</u> Volatile Analysis
<u>62</u> DO's	<u>62</u> pH's
<u>00</u> Ecoli's	<u>01</u> FOG's
<u>16</u> cBOD's	<u>00</u> Total Solids
<u>20</u> Settleable Solids	<u>75</u> Settleometer Test
<u>00</u> Pretreatment Inspections	

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



The City of Durant

Office of the Wastewater Treatment Plant

PROJECTS SCHEDULE

WORK DONE FOR OCTOBER 2022

- 1: GETTING LAGOON AERATOR'S AT HEADWORKS FIXED (Ongoing)
- 2: CONVERT SAMPLER TO WORK WITH WONDERWARE (Ongoing)
- 3: FIX CHOCTAW SCREEN PRESS PUMP (Ongoing)
- 4: BRIDGE FILTER REPAIR (Ongoing)
- 5: VALVE TO LAGOONS FIXED AT HEADWORKS (Ongoing)
- 6: SCUM PUMP STATION PUT ON FLOATS (Ongoing)
- 7: INSTALL NEW LEVEL CONTROL AT HEADWORKS (Ongoing)
- 8: GRIT PUMP HEATERS INSTALLED AT HEADWORKS (Ongoing)
- 9: SBR #4 EFFLUENT VALVE REPAIRED (Completed)
- 10: MIXER MOTOR FOR BLEND TANK REPAIRED (Ongoing)

WORK PLANNED FOR NOVEMBER 2022

- 1: GETTING LAGOON AERATOR'S AT HEADWORKS FIXED
- 2: CONVERT SAMPLER TO WORK WITH WONDERWARE
- 3: FIX CHOCTAW SCREEN PRESS PUMP
- 4: BRIDGE FILTER REPAIR
- 5: VALVE TO LAGOONS FIXED AT HEADWORKS
- 6: SCUM PUMP STATION PUT ON FLOATS
- 7: INSTALL NEW LEVEL CONTROL AT HEADWORKS
- 8: GRIT PUMP HEATERS INSTALLED AT HEADWORKS
- 9: MIXER MOTOR FOR BLEND TANK REPAIRED
- 10: BLOWER #2 REPAIRED
- 11: REPLACEING BULBS, SLEEVES, BALLEST, AND BOARDS ON UV'S



The City of Durant

Memorandum

Date: 11/8/2022
To: Mayor and City Council
From: Randy Cantrell, Crew Leader
Re: Water and Sewer Line Maintenance Monthly Report - October 2022

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

1. OCTOBER 2022 MONTHLY REPORT FOR M&O

M & O MONTHLY REPORT

OCTOBER 2022

WATER LEAKS	42
WATER TAPS	3
SEWER TAPS	3

CUTOFFS 118 ON OCTOBER 25TH

REGULAR WORK ORDERS FROM THE
UTILITY OFFICE, WE COMPLETED 678 WORK ORDERS

CORE AND MAIN HAS THE COLLECTOR AFTER BEING REPAIRED
BY NEPTUNE. THE DRIVE BY IS STAYING STEADY AT LESS THAN
3% EVEN WITH THE COLLECTOR BEING OUT.



The City of Durant

Memorandum

Date: 11/8/2022
To: Mayor and City Council
From:
Re: Water Treatment Plant: October 2022 MORs

Council Information / Action Requested

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

ATTACHMENTS:

1. OK1010601 MOR October2022 Page #1
2. OK1010601 MOR October2022 Page #2
3. OK1010601 ClO2 MOR October 2022
4. OK1010601 Fluoride MOR October2022
5. OK1010601 LT2 MOR October2022
6. OK1010601 Monthly Report October2022



OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT (MOR)- LT2 ADDENDUM NEEDED
CONVENTIONAL OR DIRECT FILTRATION (Free Chlorine)

Plant: **DWT**

PWSID: **1010601**

County: **Bryan**

Month/Year: **October 2022**

Durant Utilities Authority
System

P.O. Box 578
Address

Durant, OK
City

74702
Zip

Instructions:

If there are no combined filter turbidity readings or free chlorine residual sample results at the entry point to the distribution system due to the plant not running, write **OFF** in the box.

Two (2) distribution chlorine residuals **must be taken daily**, even if the plant is not running.

Mail the original by the 10th of the following month to:
Oklahoma DEQ, Water Quality Division, P.O. Box 1677, Oklahoma City, OK 73101

Combined Filter Turbidity	
Total number of turbidity readings required	186
Total number of turbidity readings	186
Number of turbidity readings above 1 NTU	0
HIGHEST turbidity reading	0.14
Number of turbidity readings above 0.15 NTU	0
Percent of turbidity readings above 0.15 NTU	0.00%
Free Chlorine-Entry Point to Distribution	
Total number of chlorine residual samples	186
Number of samples below 1.0 mg/L	0
Free Chlorine-Distribution	
Total number of chlorine residual samples	62
Number of samples below 0.2 mg/L	0

Individual Filter Turbidity - Complete Entire Checklist
1. Was Each Filter Monitored continuously while the plant was running? ☐ No ☒ Yes
2. Was each filter monitored every 15 minutes while the plant was running? ☐ No ☒ Yes
3. Was there a failure of the continuous monitoring equipment? ☒ No ☐ Yes
4. Did the same filter exceed 1.0 NTU in two consecutive 15 minute readings? ☒ No ☐ Yes*
5. Was individual filter level greater than 0.5 NTU in two consecutive measurements after being on line for more than four hours? ☒ No ☐ Yes*
6. Did the same filter exceed 1.0 NTU in two consecutive 15 minute readings for three months in a row? ☒ No ☐ Yes* (Submit a Self-Assessment of the filter(s) within 14 days of the exceedance)
7. Did the same filter exceed 2.0 NTU in two consecutive 15 minute readings for two months in a row? ☒ No ☐ Yes* (Contact DEQ to schedule a Comprehensive Performance Evaluation)

				# of Readings***	COMBINED FILTER TURBIDITY						FREE CHLORINE RESIDUAL								COMMENTS
DAY	RAW	SET	SET		2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400	ENTRY POINT TO DISTRIBUTION						DISTRIBUTION SYSTEM		
											12am	4am	8am	12pm	4pm	8pm			
1	6.22	1.82	1.84	6	0.06	0.05	0.05	0.05	0.05	0.05	2.1	2.1	2.1	2.4	2.4	2.3	1.3	1.8	
2	6.38	3.18	2.32	6	0.06	0.11	0.05	0.05	0.05	0.05	2.3	2.3	2.4	2.4	2.4	2.4	1.3	1.1	
3	6.05	2.74	2.19	6	0.07	0.05	0.07	0.05	0.05	0.05	2.4	2.4	2.5	2.5	2.5	2.4	1.6	1.6	
4	8.42	2.60	2.89	6	0.09	0.08	0.05	0.05	0.05	0.05	2.4	2.4	2.4	2.4	2.4	2.4	1.8	2.0	
5	8.57	2.62	3.18	6	0.08	0.06	0.05	0.05	0.05	0.05	2.4	2.4	2.4	2.4	2.4	2.4	1.7	1.6	
6	10.30	2.88	2.73	6	0.05	0.05	0.05	0.05	0.05	0.05	2.4	2.4	2.4	2.4	2.4	2.4	1.7	1.6	
7	9.21	2.48	2.12	6	0.05	0.06	0.06	0.05	0.05	0.05	2.4	2.4	2.4	2.4	2.4	2.4	2.0	2.1	
8	6.05	1.87	2.21	6	0.05	0.07	0.06	0.06	0.06	0.06	2.4	2.2	2.4	2.4	2.4	2.4	1.8	1.9	
9	5.74	2.76	2.68	6	0.06	0.06	0.06	0.05	0.05	0.05	2.4	2.5	2.5	2.4	2.4	2.4	1.9	1.2	
10	5.42	3.08	2.28	6	0.05	0.05	0.05	0.05	0.05	0.05	2.5	2.5	2.5	2.5	2.4	2.4	1.5	1.7	
11	5.42	2.28	2.00	6	0.05	0.05	0.05	0.05	0.05	0.05	2.4	2.4	2.5	2.5	2.4	2.4	1.9	1.9	
12	7.63	1.97	1.99	6	0.08	0.12	0.06	0.06	0.06	0.06	2.4	2.4	2.6	2.6	2.4	1.6	1.9	1.5	
13	7.79	4.22	2.51	6	0.08	0.13	0.07	0.06	0.06	0.09	1.8	2.1	2.4	2.2	2.2	2.3	1.5	1.5	
14	7.49	3.88	1.98	6	0.08	0.07	0.07	0.06	0.06	0.06	2.4	2.3	2.4	2.3	2.3	2.3	1.8	1.8	
15	6.05	3.08	2.24	6	0.12	0.05	0.05	0.05	0.05	0.05	2.3	2.4	2.5	2.4	2.4	2.4	1.9	1.9	
16	6.53	5.71	2.21	6	0.05	0.14	0.14	0.06	0.05	0.04	2.3	2.3	3.3	3.0	2.8	2.6	1.7	1.7	
17	12.65	2.39	1.98	6	0.04	0.10	0.04	0.04	0.04	0.05	2.5	2.5	3.2	3.5	3.1	2.5	1.8	1.2	
18	7.15	2.67	1.87	6	0.09	0.12	0.05	0.05	0.04	0.05	2.4	2.3	2.3	2.2	2.2	2.3	2.1	1.8	
19	4.65	2.29	2.08	6	0.14	0.12	0.04	0.05	0.05	0.08	2.4	2.4	2.5	2.5	2.1	2.1	1.6	1.2	
20	3.71	2.58	1.97	6	0.10	0.12	0.04	0.04	0.04	0.04	2.1	2.2	2.2	2.1	2.2	2.1	0.9	1.4	
21	3.71	1.57	2.01	6	0.04	0.13	0.08	0.06	0.06	0.10	2.1	2.1	2.2	2.2	2.4	2.4	1.8	1.7	
22	2.92	1.10	1.72	6	0.10	0.06	0.07	0.05	0.06	0.10	2.4	2.3	2.4	2.4	2.4	2.4	1.8	1.8	
23	5.26	2.33	2.82	6	0.10	0.10	0.06	0.06	0.06	0.06	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.6	
24	9.05	2.87	2.28	6	0.07	0.07	0.07	0.08	0.08	0.07	2.4	2.4	2.4	1.8	1.9	2.2	1.4	1.4	
25	12.96	1.69	3.08	6	0.07	0.07	0.07	0.08	0.10	0.08	2.3	2.4	2.3	2.4	2.5	2.7	1.4	1.2	
26	11.07	1.90	2.27	6	0.06	0.07	0.06	0.07	0.14	0.13	2.8	1.8	2.8	2.9	2.4	3.6	1.4	1.7	
27	9.83	3.73	2.83	6	0.08	0.11	0.10	0.04	0.04	0.04	2.8	2.7	2.5	2.5	2.6	2.5	2.3	1.6	
28	4.80	1.21	1.89	6	0.04	0.04	0.04	0.04	0.04	0.05	2.4	2.4	2.3	2.2	2.2	2.2	0.8	1.8	
29	6.84	0.95	2.09	6	0.04	0.07	0.04	0.04	0.04	0.04	2.2	2.2	2.2	2.3	2.3	2.4	1.6	1.8	
30	6.22	2.94	1.38	6	0.05	0.12	0.04	0.04	0.04	0.04	2.5	2.5	2.6	2.7	2.5	2.4	1.8	1.8	
31	6.99	3.14	2.52	6	0.08	0.14	0.07	0.04	0.04	0.04	2.4	2.5	2.4	2.4	2.4	2.4	1.6	1.3	

*** Number of Readings: You are required to sample the combined effluent for every four hours that the filters are in operation. You must fill out Filter Operation on the 'Chemical and Process Control tab.'

* If you answered Yes to questions 4, 5 (>10,000 population only), 6, or 7, you must complete the Turbidity Trigger Form, follow instruction on the form, and attach it to this MOR.

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY OPERATIONAL REPORT (MOR)
CONVENTIONAL OR DIRECT FILTRATION (Free Chlorine)

Plant: DWT
PWSID: 1010601
County: Bryan
Month: October 2022

Durant Utilities Authority										P.O. Box 578										Durant, OK										74702									
System										Address										City										ZIP									
D a y	WATER TREATED (in 1,000 gal)	FILTER OPERATION								WASH WATER IN 1000 GALS.	CHEMICALS USED-LBS.							ALKALINITY - RAW				ALKALINITY - FILTERED				pH			CaCO3 STABILITY Method:	HARDNESS (ppm)		Special Test Fe, Mn or Other		REMARKS					
		FILTERS USED-HOURS									ALUM	POLYM ER	Caustic	Fluoride	Chlorite	OTHER	CHLORINE				AM TOTAL	PM TOTAL			AM TOTAL										PM TOTAL				
		1	2	3	4	5	6	7	8								PRE	POST								"P"	"P"	TOTAL		TOTAL	"P"	"P"	TOTAL			TOTAL	RAW	FILT	FILT
1	6397.0	24	24	24	24	24	24	23	23	70.0	2100.0	0.0	0.0	117.0	290.0		0.0	330.0	0.0	0.0	240.0	250.0	0.0	0.0	232.0	224.0	8.4	7.6	7.6	240.0	250.00	244.00							
2	5669.0	23	23	24	24	23	23	24	24	138.0	2100.0	0.0	0.0	110.0	290.0		0.0	220.0	0.0	0.0	240.0	260.0	0.0	0.0	230.0	240.0	8.3	7.7	7.3	240.0	246.00	244.00							
3	5976.0	24	24	23	23	24	24	24	24	70.0	2000.0	0.0	0.0	109.0	290.0		0.0	40.0	0.0	0.0	250.0	252.0	0.0	0.0	238.0	230.0	8.3	7.7	7.3	250.0	260.00	248.00							
4	6047.0	24	24	24	24	24	24	23	23	70.0	2200.0	0.0	0.0	111.0	290.0		0.0	100.0	0.0	0.0	244.0	258.0	0.0	0.0	232.0	238.0	8.0	7.4	7.4	232.0	254.00	246.00							
5	6037.0	24	24	24	24	23	23	24	24	70.0	2000.0	0.0	0.0	111.0	290.0		0.0	145.0	0.0	0.0	264.0	256.0	0.0	0.0	240.0	240.0	8.4	7.5	7.5	240.0	260.00	280.00							
6	5963.0	23	23	24	24	24	24	24	24	66.0	2200.0	0.0	0.0	109.0	290.0		0.0	120.0	0.0	0.0	244.0	260.0	0.0	0.0	230.0	228.0	8.3	7.4	7.7	240.0	262.00	258.00							
7	5911.0	24	24	23	23	24	24	24	24	70.0	2200.0	0.0	0.0	108.0	290.0		0.0	140.0	0.0	0.0	252.0	250.0	0.0	0.0	224.0	230.0	8.3	7.5	7.7	240.0	256.00	248.00							
8	5915.0	24	24	24	24	24	24	23	23	70.0	1800.0	0.0	0.0	108.0	290.0		0.0	480.0	0.0	0.0	250.0	250.0	0.0	0.0	230.0	228.0	8.3	7.5	7.8	240.0	254.00	250.00							
9	5899.0	24	24	24	24	23	23	24	24	70.0	1600.0	0.0	0.0	108.0	290.0		0.0	40.0	0.0	0.0	250.0	258.0	0.0	0.0	244.0	238.0	8.3	7.7	7.8	238.0	250.00	250.00							
10	5881.0	23	23	24	14	24	24	24	24	70.0	1600.0	0.0	0.0	108.0	290.0		0.0	145.0	0.0	0.0	244.0	260.0	0.0	0.0	252.0	244.0	8.3	7.7	7.6	246.0	248.00	250.00							
11	5853.0	24	24	23	0	24	24	24	24	30.0	1800.0	0.0	0.0	107.0	290.0		0.0	20.0	0.0	0.0	244.0	260.0	0.0	0.0	244.0	230.0	8.2	7.5	7.5	244.0	254.00	250.00							
12	5884.0	24	24	24	0	24	24	23	23	57.0	2000.0	0.0	0.0	108.0	290.0		0.0	480.0	0.0	0.0	260.0	262.0	0.0	0.0	250.0	240.0	8.4	7.6	7.5	240.0	260.00	250.00							
13	5825.0	24	24	24	0	23	23	24	24	70.0	1800.0	0.0	0.0	107.0	290.0		0.0	440.0	0.0	0.0	245.0	264.0	0.0	0.0	240.0	248.0	8.3	7.7	7.6	230.0	250.00	240.00							
14	5898.0	23	23	23	0	24	24	24	24	70.0	1800.0	57.0	0.0	108.0	290.0		0.0	145.0	0.0	0.0	260.0	258.0	0.0	0.0	240.0	226.0	8.4	7.7	7.9	244.0	250.00	252.00							
15	5922.0	24	24	24	0	24	24	23	23	50.0	2400.0	57.0	0.0	108.0	290.0		36.0	24.0	0.0	0.0	264.0	126.0	0.0	0.0	244.0	232.0	8.3	7.6	7.7	240.0	260.00	262.00							
16	5381.0	24	24	24	0	24	23	24	24	20.0	5800.0	50.0	0.0	99.0	290.0		250.0	140.0	0.0	0.0	246.0	120.0	0.0	0.0	240.0	194.0	8.4	7.7	7.3	242.0	258.00	260.00							
17	5886.0	23	24	24	0	23	24	24	24	65.0	2000.0	50.0	0.0	108.0	290.0		0.0	300.0	0.0	0.0	236.0	250.0	0.0	0.0	158.0	184.0	8.1	7.1	6.9	226.0	238.00	240.00							
18	5593.0	24	23	23	0	24	24	24	24	69.0	2000.0	45.0	0.0	108.0	290.0		0.0	100.0	0.0	0.0	204.0	240.0	0.0	0.0	240.0	220.0	8.1	7.2	7.3	190.0	250.00	240.00							
19	5327.0	24	24	24	0	24	24	23	23	73.0	1800.0	45.0	0.0	98.0	290.0		0.0	100.0	0.0	0.0	248.0	260.0	0.0	0.0	220.0	222.0	8.0	7.3	7.1	220.0	250.00	240.00							
20	5872.0	24	24	24	0	23	23	24	24	70.0	1800.0	45.0	0.0	108.0	290.0		0.0	100.0	0.0	0.0	262.0	260.0	0.0	0.0	230.0	246.0	7.9	7.2	7.1	224.0	254.00	250.00							
21	5118.0	23	23	24	0	24	24	24	24	50.0	2000.0	45.0	0.0	94.0	290.0		0.0	140.0	0.0	0.0	254.0	252.0	0.0	0.0	230.0	218.0	7.8	7.2	6.9	240.0	260.00	242.00							
22	5118.0	24	24	23	0	24	24	23	24	55.0	1800.0	45.0	0.0	94.0	290.0		0.0	140.0	0.0	0.0	254.0	258.0	0.0	0.0	230.0	230.0	7.9	7.2	7.3	246.0	252.00	260.00							
23	5133.0	24	24	24	0	23	23	24	23	100.0	1800.0	45.0	0.0	94.0	290.0		0.0	140.0	0.0	0.0	250.0	270.0	0.0	0.0	230.0	234.0	7.9	7.1	7.2	244.0	254.00	260.00							
24	5257.0	23	23	24	0	24	24	24	24	60.0	2000.0	45.0	0.0	94.0	290.0		170.0	170.0	0.0	0.0	260.0	254.0	0.0	0.0	234.0	230.0	8.1	7.5	7.4	230.0	252.00	244.00							
25	5343.0	24	24	24	0	24	24	24	23	70.0	2000.0	45.0	0.0	98.0	290.0		170.0	170.0	0.0	0.0	246.0	240.0	0.0	0.0	224.0	220.0	7.7	7.5	6.8	232.0	252.00	250.00							
26	6739.0	24	24	24	0	23	23	24	23	105.0	3000.0	57.0	0.0	123.0	290.0		0.0	170.0	0.0	0.0	244.0	234.0	0.0	0.0	226.0	208.0	8.0	7.4	7.1	228.0	240.00	252.00							
27	5254.0	23	23	24	0	24	24	23	24	105.0	1400.0	35.0	0.0	96.0	290.0		0.0	140.0	0.0	0.0	240.0	248.0	0.0	0.0	210.0	210.0	7.7	7.2	6.9	230.0	238.00	240.00							
28	4155.0	24	24	24	0	24	24	24	24	0.0	2000.0	35.0	0.0	76.0	290.0		0.0	110.0	0.0	0.0	252.0	256.0	0.0	0.0	210.0	208.0	7.7	7.2	6.9	226.0	250.00	264.00							
29	4189.0	24	24	23	0	24	24	24	23	60.0	1500.0	35.0	0.0	77.0	290.0		0.0	120.0	0.0	0.0	240.0	232.0	0.0	0.0	220.0	212.0	7.7	7.3	7.0	226.0	238.00	240.00							
30	4161.0	24	24	24	0	23	23	24	24	70.0	1600.0	35.0	0.0	76.0	290.0		0.0	120.0	0.0	0.0	240.0	238.0	0.0	0.0	222.0	210.0	7.7	6.8	6.9	228.0	244.00	240.00							
31	4150.0	23	23	0	0	0	0	23	0	105.0	1600.0	35.0	0.0	76.0	290.0		0.0	120.0	0.0	0.0	242.0	248.0	0.0	0.0	236.0	208.0	7.9	6.9	6.9	224.0	260.00	244.00							
Tot	171753.0	735.0	735.0	713.0	228.0	711.0	711.0	735.0	710.0	2118.0	63700.0	806.0		3156.0	8990.0		626.0	5149.0																					
Avg	5540.4	23.7	23.7	23.0	7.4	22.9	23.7	22.9	23.9	68.3	2054.8	26.0		101.8	290.0		20.2	166.1			247.4	244.6			230.0	224.8	8.1	7.4	7.3	234.2	251.7	249.6							
Power Costs	\$35,187.83																																						
Labor Costs	\$49,250.80									Ave Rate of Wash (Vert. in/min)																													
Chemicals	\$34,925.25																																						
Supplies	\$1,517.12									Ave Wash Period (Minutes)																													
Repairs	\$1,477.22																																						
Testing Cost	\$628.00									% Wash Water Used																													
TOTAL	\$122,986.22									1.23%																													
Cost per thousand gallons	\$0.72									Ave. Head Loss for Washing																													
I hereby certify the above to be correct to the best of my knowledge.																																							
Signed <u>Phillip Hightower</u>																																							
Print <u>Phillip Hightower</u>																																							
Title <u>Public Works Director</u>																																							
DEQ Form # 630-577 Revised 5/21/2018																																							
Oper. Cert. No. <u>90404</u>																																							

CHLORINE DIOXIDE AND CHLORITE MOR

Section 1: Data Entry

Date	ClO2 Used?	ClO2 POE	ClO2 Dist.			Chlorite POE	Chlorite Dist.			
			1st	2nd	3rd		1st	2nd	3rd	Avg
1	yes	0.2				0.7				####
2	yes	0.2				0.7				####
3	yes	0.3				0.7				####
4	yes	0.2				0.8				####
5	yes	0.2				0.8				####
6	yes	0.3				0.9				####
7	yes	0.3				0.1				####
8	yes	0.2				0.8				####
9	yes	0.2				0.8				####
10	yes	0.2				0.8				####
11	yes	0.2				0.8				####
12	yes	0.2				0.8				####
13	yes	0.2				0.8				####
14	yes	0.2				0.8				####
15	yes	0.2				0.7				####
16	yes	0.2				0.7				####
17	yes	0.1				0.5				####
18	yes	0.2				0.6				####
19	yes	0.2				0.6				####
20	yes	0.2				0.7				####
21	yes	0.2				0.8				####
22	yes	0.2				0.7				####
23	yes	0.1				0.9				####
24	yes	0.2				0.8				####
25	yes	0.2				0.8				####
26	yes	0.2				0.8				####
27	yes	0.2				0.7				####
28	yes	0.2				0.7				####
29	yes	0.2				0.8				####
30	yes	0.2				0.8				####
31	yes	0.2				0.9				####

Month October Year 2022
PWS Name Durant Water Treatment Plant

PWSID 1010601
Plant Name WTP
Total 31

Section 2: Summary of Chlorine Dioxide Daily Monitoring

a. Number of Samples Collected 31.0
b. Number of Point of Entry Samples Exceeded MRDL of 0.8 mg/L 0.0

*For every day the MRDL is exceeded, three chlorine dioxide samples must be taken the next day in the distribution system. Notify your PWS Engineer. Samples results need to be recorded in ClO2 Dist. columns.*Refer to CHLORINE DIOXIDE MONITORING AND COMPLIANCE FACT SHEET for further instructions.*

c. Number of Distribution Samples Exceeding MRDL of 0.8 mg/L 0.0

****VERY IMPORTANT. THIS IS A TIER 1 VIOLATION. THIS VIOLATION MUST BE IMMEDIATELY REPORTED TO DEQ AND TO ALL PERSON SERVED BY THE SYSTEM WITHIN 24 HOURS.****

Section 3: Summary of Chlorite Daily Monitoring

a. Number of Samples Collected 31.0
b. Number of Point of Entry Samples Exceeded MCL of 1.0 mg/L 0.0

*For every day the MCL exceeded, three chlorite samples must be taken the next day in the distribution system. Enter sample results in Chlorite Dist. columns and then average. *Refer to CHLORITE MONITORING AND COMPLIANCE FACT SHEET for further instructions.*

c. Number of Distribution Average exceeding MCL of 1.0 mg/L 0.0

Phillip Hightower
Signature of owner or operator
Phillip Hightower
Printed name

11/01/2022
Date
90404
Operator License #

Send Form by 10th of Following Month to:
Water Quality Division Attn DBP Coord.
P.O. Box 1677 Oklahoma City, Oklahoma 73101-1677



Oklahoma State Department of Health / Oklahoma Department of Environmental Quality
MONTHLY OPERATION REPORT
RECORD OF FLUORIDE APPLICATION

PWSID 1010601 SYSTEM Durant Ok (SW) MONTH October
Type of Material Applied* Hydrofluorosilicic Acid Year 2022

Date	Water Treated (1000s of Gallons)	Applied		Residual Fluoride (F), ppm			
		lbs.	PPM of F	Raw		Distribution	
				(1)	(2)	(1)	(2)
1	6397	117	0.4	0.00	0.06	0.45	0.54
2	6026	110	0.4	0.00	0.00	0.49	0.33
3	5976	109	0.4	0.00	0.00	0.47	0.47
4	6047	111	0.4	0.00	0.00	0.30	0.57
5	6037	111	0.4	0.00	0.10	0.51	0.63
6	5963	109	0.4	0.00	0.00	0.47	0.36
7	5911	108	0.4	0.00	0.20	0.41	0.46
8	5915	108	0.4	0.00	0.17	0.43	0.57
9	5899	108	0.4	0.00	0.04	0.52	0.42
10	5881	108	0.4	0.08	0.00	0.56	0.58
11	5853	107	0.4	0.00	0.13	0.40	0.71
12	5884	108	0.4	0.00	0.00	0.77	0.51
13	5825	107	0.4	0.00	0.20	0.58	0.64
14	5898	108	0.4	0.00	0.08	0.41	0.56
15	5922	108	0.4	0.20	0.08	0.51	0.39
16	5381	99	0.4	0.00	0.17	0.41	0.82
17	5886	108	0.4	0.00	0.20	0.52	0.42
18	5593	108	0.4	0.17	0.00	0.63	0.30
19	5327	98	0.4	0.00	0.00	0.64	0.60
20	5872	108	0.4	0.00	0.01	0.63	0.75
21	5118	94	0.4	0.00	0.18	0.36	0.61
22	5118	94	0.4	0.00	0.25	0.47	0.63
23	5133	94	0.4	0.10	0.24	0.75	0.61
24	5257	96	0.4	0.00	0.00	0.39	0.61
25	5343	98	0.4	0.00	0.00	0.52	0.40
26	6739	123	0.4	0.00	0.00	0.42	0.39
27	5254	96	0.4	0.09	0.26	0.79	0.77
28	4155	76	0.4	0.00	0.07	0.79	0.64
29	4189	77	0.4	0.00	0.14	0.58	0.63
30	4161	76	0.4	0.00	0.09	0.35	0.69
31	4150	76	0.4	0.00	0.00	0.65	0.70
Total	172110	3158	12.4	0.64	2.67	16.18	17.31
Average	5552	102	0.40	0.02	0.09	0.52	0.56

* Example: Sodium Fluoride, Sodium Fluorosilicate (Sodium Silicofluoride), and Fluorosilicic Acid (Hydrofluorosilicic Acid).

It is required that this report be received by the 10th of the following month.

Send to: OSDH – Dental Health Services
1000 NE 10TH ST
OKLAHOMA CITY, OK 73117-1299

AND

Oklahoma Department of Environmental Quality
PO BOX 1677
OKLAHOMA CITY, OK 73101-1677

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

Signed Phillip Hightower
Title Public Works Director
City Durant

Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR)
Monthly Operating Report Addendum
INSTRUCTIONS

Instructions: Answer all of the following questions for each individual filter at both plants. **If any IFE measurement is above 0.15 NTU complete and attach the Turbidity Trigger Evaluation form.** Do **not** report IFE turbidities less than 15 minutes after a filter backwash or if the filter is not contributing to the CFE (i.e. filter not operating, filter to waste or recycling, etc.).

Log Requirements

Your system is required to achieve a 2.0-log *Cryptosporidium* credit to be in compliance with the LT2ESWTR. This includes a minimum log credit of 1.0 through the addition of chlorine dioxide, a 0.5-log credit for combined filter performance and a 0.5-log credit for individual filter performance.

- To obtain a 0.5-log *Cryptosporidium* removal credit for IFE turbidity you must meet **both** of the following requirements:
 - IFE turbidity must be less than 0.15 NTU in at least 95 percent of values recorded at **each** filter.
 - No individual filter may have a measured turbidity greater than 0.3 NTU in two consecutive measurements taken 15 minutes apart.
- To obtain a 0.5-log *Cryptosporidium* removal credit for the CFE turbidity the measurements taken for the month at each plant must be equal to or less than 0.15 NTU in at least 95 percent of the measurements.
- The amount of *Cryptosporidium* inactivation log credit your system may receive is determined by the CT provided in the treatment process. The LT2ESWTR requires CT to be calculated at least once per day with both C (chlorine dioxide concentration) and T (contact time) measured during peak hourly flow. Log credit for chlorine dioxide as a function of CT and water temperature is determined using the chlorine dioxide CT table (see reverse) for *Cryptosporidium* inactivation.
 - Log credit should be calculated separately for each section of the raw water line. Total log credit for the raw water line is the sum of the log credit for each section of the raw water line.
 - Log credit should be calculated separately for each clarifier, taking into account the volume of water through each clarifier. Total log credit for the clarifiers should only include the lower of the two clarifier log credits.
 - Total daily log credit is the sum of the log credits for each section of the raw water line and the lower log credit of the two clarifiers.

Note: The LT2ESWTR requires all systems utilizing chlorine dioxide for disinfection to adhere to the Disinfectant Byproducts Rule (DBPR) regarding chlorine dioxide and chlorite monitoring. This requirement also includes the completion and submission of the *Chlorine Dioxide and Chlorite Monitoring and Reporting Form*.

CT Values (mg-min/L) for *Cryptosporidium* Inactivation by chlorine Dioxide¹

Log credit	Water Temperature, °C										
	≤ 0.5	1	2	3	5	7	10	15	20	25	30
0.25	159	153	140	128	107	90	69	45	29	19	12
0.50	319	305	279	256	214	180	138	89	58	38	24
1.00	637	610	558	511	429	360	277	179	116	75	49
1.50	956	915	838	767	643	539	415	268	174	113	73
2.00	1275	1220	1117	1023	858	719	553	357	232	150	98
2.50	1594	1525	1396	1278	1072	899	691	447	289	188	122
3.00	1912	1830	1675	1534	1289	1079	830	536	347	226	147

¹Systems may use this equation to determine log credit between the indicated values:

$$\text{Log credit} = (0.001506 \times (1.09116)^{\text{Temp}}) \times \text{CT}$$



Oklahoma DEQ
Water Quality Division
P.O. Box 1677
Oklahoma City, OK 73101
(405) 702-8100 Fax (405) 702-8101

Durant WTP
OK1010601
Water Treatment Plant—TP001
Month/Year: Month Year

Long Term 2 Enhanced Surface Water Treatment Rule (LT2ESWTR)

Monthly Operating Report Addendum

1) INDIVIDUAL FILTER EFFLUENTS (IFE)s

New Water Treatment Plant
Filter #1
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #2
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #3
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #4
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Old Water Treatment Plant
Filter #1
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #2
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #3
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 2976
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒
Filter #4
1. Was turbidity measured every 15 minutes? Yes ☒ No ☐
2. Total number of turbidity samples: 920
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
5. Were there 2 consecutive 15 minute measurements greater than 0.3 NTU? Yes ☐ No ☒

2) COMBINED FILTER EFFLUENTS (CFEs)

New Water Treatment Plant
1. Was turbidity measured every 4 hours? Yes ☒ No ☐
2. Total number of turbidity samples: 186
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0
Old Water Treatment Plant
1. Was turbidity measured every 4 hours? Yes ☒ No ☐
2. Total number of turbidity samples: 186
3. Number of turbidity samples greater than 0.15 NTU: 0
4. Percent of turbidity samples greater than 0.15 NTU: 0

3) CHLORINE DIOXIDE

Raw Water Line
1. Was the concentration of chlorine dioxide present in each section of the raw water line measured at least once daily during the peak hourly flow? Yes ☒ No ☐
2. Was the contact time for each section of the raw water line calculated at least once per day during peak hourly flow? Yes ☒ No ☐
3. Was the minimum water temperature determined every day? Yes ☒ No ☐
4. Was the log credit for each section of the raw water line calculated daily? Yes ☒ No ☐
Clarifiers
1. Was the concentration of chlorine dioxide present in each clarifier measured at least once daily during the peak hourly flow? Yes ☒ No ☐
2. Was the contact time for each clarifier calculated at least once per day during peak hourly flow? Yes ☒ No ☐
3. Was the minimum water temperature determined every day? Yes ☒ No ☐
4. Was the log credit for each clarifier calculated daily? Yes ☒ No ☐

4) LOG INACTIVATION CREDIT

IFE Credit
1. For the individual filters, were at least 95% of each filter’s turbidity measurements less than or equal to 0.15 NTU? Yes ☒ (answer question 2) No ☐ (log credit 0.0)
2. Did any individual filter have a measured turbidity greater than 0.3 NTU in two consecutive measurements taken 15 minutes apart? Yes ☐ (log credit 0.0) No ☒ (log credit 0.5)
CFE Credit
1. For the combined filters, were at least 95% of each filter’s turbidity measurements less than or equal to 0.15 NTUs? Yes ☒ (log credit 0.5) No ☐ (log credit 0.0)
Chlorine Dioxide Credit
1. Was the required minimum log credit of 1 achieved each day? Yes ☒ (log credit 1.0) No ☐ (log credit 0.0)
Total Log Credit: #

Comments:

#4 Old Plant filter was put offline on 10/10/2022 at 1400.

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

Printed Name: Phillip Hightower Signature: *Phillip Hightower* Date: 11/1/2022

Title: Public Works Director Op. Cert. No.: B90404

* The Department of Environmental Quality may at any time request additional information or perform an audit.



THE CITY OF DURANT

Office of the Water Treatment Plant

Water Treatment Plant Projects Schedule October 2022 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. Mowed and weedeated Plant grounds when needed
16. Continue training Stephen Mills, Jacob Eppler, Frank Enea, Lance Canoy, Tyler Weaver, and Marc Brittain
17. Treated 171,753,000 gallons of water
18. Exercise welder, diesel pump, and generator
19. Completed TOC and Fluoride sampling
20. Completed Chlorite sampling
21. Completed HAA5/THM sampling
22. Repaired Diesel Pump Day Tank
23. Flushed end points on water lines
24. Installed and secured key covers on offsite generators
25. Replaced VFD fans on Pump #4 at High Service Pump Station
26. Repaired onsite Generator
27. Repaired level indicator on Ground Storage Tank at Gerlach location
28. Repaired Gator, was overheating
29. Restored communications to Raw Pump Station
30. Responded to Power Outage at Plant
31. Replaced batteries on Diesel Pump
32. Implemented temporary fix on Old Plant Sludge Vault until water demand lessens to allow for permanent fix

B. Work Planned for November-December

1. Repair #1 raw Pump
2. Repair #3 raw Pump
3. Have towers inspected and cleaned
4. Replace underdrains in Old Plant Filters
5. Install pad for generator at Chlorites
6. Empty, clean, and paint Alum tanks
7. New SCADA installed in Old Plant
8. Install back up backwash pump
9. Repair Cardinal Glass Pump #2

Approx. Start/Finish Date

As time permits
Waiting on Quotes/As time permits
Time permitting
#3 has been started, when online will start #4
Weather and time permitting
In Process
Waiting for additional equipment to complete
Waiting on pump to be delivered
Rebuild complete, waiting for install

C. Projects Planned and Requested for Authorization

None at this Time



The City of Durant

Memorandum

Date: 11/8/2022
To: Mayor and City Council
From:
Re: Administration

Council Information / Action Requested

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

ATTACHMENTS: