

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**

August 8, 2017

**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 July 11, 2017
- b. Consider Approval of Request for Authorization to Purchase Emergency Raw Water Pump Repair (RFAP #2017-119)

2. Consider Items Removed from Consent

3. Administration

4. Information Items

- a. Utility Office Monthly Summary Report- June 2017
- b. Landfill Information & Reports - July 2017
- c. Solid Waste Collection Monthly Report - July 2017
- d. Waste Water Treatment Plant and Laboratory Monthly Report - July 2017
- e. Water Plant Monthly Operation Reports - July 2017

f. Water/Sewer Line Maintenance Report- June 2017

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 17th day of November, 2016 and that an agenda of said meeting was posted at the place of such meeting at 3:45 p.m. on the 4th day of August, 2017.

Cynthia J. Price, City of Durant



The City of Durant

Office of City Clerk

Memorandum

Date: 7/28/2017
To: Utilities Authority
From: Cynthia J. Price, City Clerk
Re: Consider Approval of Regular Meeting Minutes of July 11, 2017

Council Information / Action Requested

Approval of Regular Meeting Minutes of July 11, 2017.

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

ATTACHMENTS:

Description	Type	Upload Date
Regular Meeting Minutes - July 11, 2017	Exhibit	7/28/2017

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 17th day of November, 2016 and that an agenda of said meeting was posted at the place of such meeting at 5:05 p.m. on the 7th day of July, 2017.

MINUTES OF THE REGULAR SCHEDULED MEETING OF THE DURANT CITY UTILITIES AUTHORITY OF July 11, 2017 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 8:00 p.m.

ROLL CALL

Present: Trustee Oden Grube	City Attorney Pat Phelps
Trustee Destry Hawthorne	City Manager Tim Rundel
Vice-Chairman Chad Hitchcock	City Clerk Cynthia J. Price
Chairman Jerry Tomlinson	(*denotes partial attendance)

Absent: None

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 June 13, 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: Grube, Hawthorne, Hitchcock, Tomlinson

2. Consideration Items Removed from Consent

3. Administration

4. Information Items

a. Presentation for PER Review of Water System (Awaiting Report)

- b. Landfill Information & Reports - June 2017
- c. Waste Water Treatment Plant Report - June 2017
- d. Waste Water Treatment Plant Lab Report - June 2017
- e. Solid Waste Collection Monthly Report - June 2017
- f. Water Plant Monthly Report - June 2017
- g. Water Plant End of the Year Report

Adjournment

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

Ayes: Grube, Hawthorne, Hitchcock, Tomlinson



The City of Durant

Office of the Water Treatment Plant

Memorandum

Date: 8/1/2017
To: Utilities Authority
From: Phillip Hightower, Water Plant Superintendent
Re: Consider Approval of Request for Authorization to Purchase Emergency Raw Water Pump Repair (RFAP #2017-119)

This RFAP was made as an emergency for the reason our #4 raw pump went down. We need to get it repaired as soon as possible because we have only one other pump that will pump the same amount of water as this one.

Council Information / Action Requested

Approval of Request for Authorization to Purchase Emergency Raw Water Pump Repair (RFAP #2017-119) in the amount of \$150,000.

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

ATTACHMENTS:

Description	Type	Upload Date
Emergency Raw Pump Repair RFAP	Cover Memo	8/1/2017

SPEND/CNTRCT#
 INCODE PROJ#
 RFAP#

2017-119

REQUEST FOR AUTHORIZATION TO PURCHASE

Ref: 11 O.S. §10:114 (B) and 61 O.S. §103 (D) and & City of Durant Code: § 37.003-37.010

Item

1 Item planned for spending (provide details):
EMERGENCY RAW WATER PUMP REPAIR

2 Department requesting authorization:
WATER TREATMENT PLANT

3 Bidding recommendation (award or reject along with name and contact information of vendor):

4 Estimated Purchase Date (M/D/Y):

June 16, 2017

5 What are the financing or lease purchase terms (APR %, length of financing, payments, etc.)

6 Is this item included in the current FY budget (Yes/No)

~~NO~~ YES

7 GL account code:

015-405-555-61-42

8 Spending / purchase request details (complete below blanks):

8a Amount requested to spend

\$150,000.00

8b Item (new or replacement, if a capital item complete fixed asset form)?

New

8c Old Item to be Traded-In (Yes / No). Note: if a capital item complete fixed asset form?

No

If a Replacement Item, give description, age and condition of item to be replaced (including model & serial or VIN, trade allowance)

8d Is a contractor written agreement involved (Yes / No), if yes include a copy of the contract after City Attorney Review

No

8e Does the purchase involve Grant Funding (Yes or No)

No

8f What is the City Cash Match for the Grant

\$

8g What other match or financial obligation is involved with the City accepting this Grant (explain with details)

9 Purchase is Planned By (complete appropriate item(s) below):

9a **Informal Quotes** – Purchases of \$2000-\$15,000 City Manager approval required. Purchases with an estimated cost over \$15,000 use formal bids. Specifications & at least 3 quotes must be attached for items over \$5,000 (city manager can require quotes for below \$5,000):

9b **Formal Bids** – Purchases with an estimated cost over \$15,000 Council approval required. Attach complete specifications and a bidders list with at least 3 bidders. Include bidder name, address, phone number, fax number and email address of recommended vendor:

9c **State Contract** – Purchases of \$2,000-\$15,000 City Manager approval required. Purchases over \$15,000 Council approval required. Include name, address, phone number, fax number, email address of state contract vendor and state contract number:

9d **Buy Board** – Purchases of \$2,000-\$15,000 City Manager approval required. Purchases more than \$15,000 Council approval required. Include name, address, phone number, fax number, email address of Buy Board:

9e **Professional Services Agreement** – Purchases over \$2,000 and less than \$15,000 via an engineering, surveying, architect, computer services, janitorial, etc. firm covered by a council approved professional services agreement, City Manager approval required.

9f **Emergency Purchase** – To be utilized only when immediate action must be taken to protect the public health or safety or to prevent damage to property, prior council approval not required. Notify the City Manager immediately that an emergency purchase is needed.

EMERGENCY RAW WATER PUMP REPAIR

9g **Sole Source Purchase** – Purchases of \$2,000-\$15,000 City Manager approval required. Purchases with an estimated cost over \$15,000 Council approval required in addition to City Manager approval. Attach to this request a memo detailing the nature of the Sole source designation, that is explain how this purchase fulfills the requirements to be considered a sole source purchase:

10 Signature & date blocks (complete appropriate sections):

N/A	
10a Signature of Grants Administrator (if applicable)	date (M/D/Y): 6-16-17
10b Signature Department Head	date (M/D/Y): 6/16/17
10c Signature of Division Head	date (M/D/Y): 6-16-17
10d Signature of Budget Administrator	date (M/D/Y):
N/A	
10e Signature of Finance Manager	date (M/D/Y): 6-16-17
10f Signature of City Manager (only over \$2,000)	date (M/D/Y): 6-16-2017
10g Signature of City Treasurer (date)	date (M/D/Y):
11h City Manager Comments:	



The City of Durant

Office of City Treasurer

Memorandum

Date: 7/26/2017
To: Utilities Authority
From: An-Chen Lai, City Treasurer
Re: Utility Office Monthly Summary Report- June 2017

Utility Office Monthly Summary Report for June 2017.

Council Information / Action Requested

Information only.

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

ATTACHMENTS:

Description	Type	Upload Date
Utility Office Monthly Summary Report June 2017	Cover Memo	7/26/2017



Monthly Utility Billing,
Cash Collection,
And Consumption Summary

JUNE 2017

	WATER		SANITARY SEWER		SANITATION	
	Month	YTD	Month	YTD	Month	YTD
Number of Bills - Active Accounts	5984		5879		6162	
Total Revenue Billed	\$242,391.76		\$186,802.93		\$358,744.16	
Amount of Penalties	\$10,370.55					
Adjustments in Dollar	(\$13,052.70)		(\$8,161.94)		(\$4,466.61)	
TOTAL CASH RECEIPTS	\$197,323.02		\$142,392.37		\$231,835.55	

CONSUMPTION IN GALLONS	59,537,900
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NEW SERVICE APPLICATIONS	128
NUMBER OF WALK IN/PHONE PAYMENTS	2,461
MAIL PAYMENTS	1,454
WEB PAYMENTS	746
DROP BOX PAYMENTS	577
BANK DRAFT PAYMENTS	710
CREDIT CARD DRAFT PAYMENTS	177
OTHERS	2,562



The City of Durant

Solid Waste Landfill

Memorandum

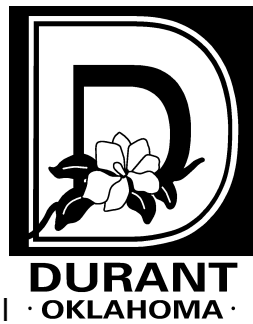
Date: 7/31/2017
To: Utilities Authority
From: Zefe Laborico, Supervisor, Solid Waste
Landfill
Re: Landfill Information & Reports - July 2017

Council Information / Action Requested

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

ATTACHMENTS:

Description	Type	Upload Date
July 2017 project Schedule	Cover Memo	8/2/2017



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE DISPOSAL PROJECTS SCHEDULE ***July 2017***

A. Work Completed for July:

1. Covered C & D Site
2. Hauled MSW To SORD
3. Worked on Multi-use building
4. picked up 352 rolloff's & delivered 12
5. repaired & painted rolloff's

B. Work Planned For August:

1. Continue Covering C&D site
2. Have new C&D cell 10C inspected and approved
3. Haul MSW To SORD
4. Continue working on multi-use building
5. Continue Picking up, Delivering, Repairing & Painting Rolloffs

C. Work Planned For Jan. '17 – Dec. '17:

Approx. Start – Finish Date:

1. Haul trash to Ardmore 1-2017 thru 12-2017

D. Projects Planned And Requested For Authorization:

1. None.



The City of Durant

Office of the Solid Waste Department

Memorandum

Date: 8/14/2017
To: Utilities Authority
From: Albert Pierce, Solid Waste Department
Superintendent
Re: Solid Waste Collection Monthly Report - July 2017

Council Information / Action Requested

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

ATTACHMENTS:

Description	Type	Upload Date
July 2017 Monthly Report	Exhibit	8/1/2017



THE CITY OF DURANT

Office of the Solid Waste Superintendent

SOLID WASTE PROJECTS SCHEDULE ***July 2017***

A. Work Completed:

1. Hauled 128.96 tons of extra hauling
2. Hauled 192 loads of extra hauling
3. Picked up and delivered 15 sharps
4. Helped with 0 abatement
5. Cleaned Sunny Side rd. 2 times
6. Refurbished 9 dumpsters
- 7.
- 8.

B. Work Planned For August

1. Refurbish. dumpsters
- 2.

C. Work Planned For Jan. '17 – Dec. 31-17

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: 8/1/2017
To: Utilities Authority
From: Terry Condor, Waste Water Treatment Plant Superintendent
Re: Waste Water Treatment Plant and Laboratory Monthly Report - July 2017

Council Information / Action Requested

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

ATTACHMENTS:

Description	Type	Upload Date
WWTP Schedule for August/July Report	Cover Memo	8/1/2017
July 2017 MOR	Cover Memo	8/1/2017
Monthly Summary July 2017	Cover Memo	8/1/2017



The City of Durant

Office of the Wastewater Treatment Plant

PROJECTS SCHEDULE

A: WORK COMPLETED IN JULY 2017

- 1: MONITORING OF SBR SE VALVES TO DETERMINE FURTHER FAILURES (on going)
- 2: CLEAN CLARIFIER WEIRS 7/28/17
- 3: CLEAN BLEND TANK MIXER 7/25/17
- 4: CLEAN EFFLUENT PUMP STATION 7/16/17
- 5: CLEAN RAW WATER PUMP STATION 7/16/17
- 6: CLEAN SCUM PUMP STATION (not needed)
- 7: CLEAN DRAIN LIFT STATION 7/16/17
- 8: CK TORQUE & OVERLOAD & GREASE CHAIN ON CLARIFIER 7/3/17
- 9: CALIBRATE DISCHARGE DO & PH METER 7/6, 7/13, 7/20, 7/27/17
- 10: CHECK CALIBRATION OF DISCHARGE FLOW METER 7/6/17
- 11: RESET SBR PLC
- 12: WASH DOWN STEP SCREEN 7/6/17
- 13: CLEAN UV TROUGHS AND FLUME 7/7/17
- 14: CHECK ELECTRIC MANHOLES 7/24/17
- 15: CLEAN OUT BUILDINGS 7/4/17
- 16: MANUALLY CHECK U.V. BULBS
- 17: WASH DOWN CASINO STEPSCREEN 7/27/17
- 18: CHECK ALL AUTOMATIC VALVES
- 19: VEHICLE INSPECTION 7/11/17
- 20: WALK-THRU INSPECTION 7/6/17
- 21: CLEAN ALL PLC's 7/14/17
- 22: CLEAN D.O. METERS (not needed)
- 23: CHECK CLARIFIER OIL WEEKLY 7/5, 7/20/17
- 24: CURRENTLY TRANSITIONING EMPLOYEE JASON ERVIN TO LAB SUPERVISOR/
PRETREATMENT COORDINATOR

8 HOURS OF CALL BACK TIME
TREATED 89.086 MG OF WASTEWATER
PROCESSED 1.1523 MG OF TREATED SLUDGE

B: WORK PLANNED FOR AUGUST 2017

- 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 COMMUNICATIONS
- 25: RECEIVING BIDS TO OVERHAUL HEADWORKS
- 26: RECEIVING BIDS TO REPLACE D.O. ANALYZERS



THE CITY OF DURANT

Office of the Wastewater Treatment Plant Lab Report

Tests Processed

7/1/17 - 7/31/17

<u>93</u>	Bac-t's
<u>84</u>	BOD's
<u>20</u>	TSS's
<u>27</u>	NH3's
<u>0</u>	DO's
<u>37</u>	Ph's
<u>48</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

CITY OF DURANT WASTEWATER TREATMENT PLANT MONTHLY OPERATION REPORT

MONTH OF

July 2017

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	
S	7/1/17			2.1	1.8	1	4					21448							7.2	7.5							N/D
S	7/2/17	6.0		2.7	2.2	1	4					19179							7.3	7.5							
M	7/3/17	.7		2.4	2.3	1	4					20669							7.3	7.4							N/D
T	7/4/17			71	2.5	2.5	1	4	7.3	50		21037	56351	860	880	860	830	7.5	7.4				0			N/D	
W	7/5/17	1.9		71	3.5	3.3	3	4	7.4	50	71.7	62	26635	58459	800	570	650	800	7.3	7.4	2.5	0.2	2.0	1			N/D
T	7/6/17			72	3.1	2.7	3	4	7.3	25			20197	56177	850	550	600	800	7.3	7.4							N/D
F	7/7/17			77	2.9	2.7	3	4	7.3	25			20843	56280					7.4	7.6							N/D
S	7/8/17				2.6	2.5							19274						7.5	7.7							N/D
S	7/9/17	.87		72	3.3	3.1							21148						7.4	7.4							N/D
M	7/10/17			71	3.6	3.3	3	4	6.9	10			21407	56476	850	700	650	750	7.2	7.3							N/D
T	7/11/17			73	3.2	3.0	1	4	7.1	10			21469	56244	700	550	650	550	7.4	7.4				10			N/D
W	7/12/17			75	3.0	2.7	1	4	7.0	15	80.2	96.7	20602	58093	770	440	550	750	7.3	7.4	2.5	0.2	2.0	1			N/D
T	7/13/17			74	3.3	2.9	1	4	7.0	15			19461	57312					7.0	7.6							N/D
F	7/14/17			76	2.8	2.7	1	4	7.0	15			20546	57177					7.0	7.6							N/D
S	7/15/17				2.4	2.2							20623						6.9	6.9							N/D
S	7/16/17				2.5	2.3							19574						7.4	7.2							N/D
M	7/17/17			75	3.5	3.0	1	4	7.1	15			20311	57706	630	600	600	590	7.3	7.2							N/D
T	7/18/17			75	3.2	2.9	1	4	7.1	10			20623	57347	650	600	600	570	7.4	7.2				0			N/D
W	7/19/17			75	3.2	2.9	1	4	7.2	10	70	102.9	23250	59348	600	520	560	560	7.3	7.4	2.5	0.2	2.0				N/D
T	7/20/17			78	3.3	2.9	1	4	7.2	10			22535	61530					7.2	7.3				2			N/D
F	7/21/17			75	3.1	2.9	1	4	7.1	10			21932	59375					7.0	7.1							N/D
S	7/22/17				2.6	2.5	1	4					20338						7.3	6.8							N/D
S	7/23/17	.43			2.9	2.6	1	4					20599						7.5	6.9							N/D
M	7/24/17			72	2.7	2.5	1	4	7.4	50			19551	58258	550	540	530	580	7.6	6.8							N/D
T	7/25/17			74	2.8	2.5	1	4	7.3	30			20609	57596	550	550	560	580	7.9	6.9							N/D
W	7/26/17			77	3.0	2.6	1	4	7.2	20	39.1	45.2	20547	57492	580	580	600	600	7.4	7.0	2.5	0.2	2.0	1			N/D
T	7/27/17			74	2.9	2.6	1	4	7.2	20			20385	58632					7.6	7.0				0			N/D
F	7/28/17			81	2.5	2.4	1	4					20521	57454					7.4	7.0							N/D
S	7/29/17				2.3	2.1	1	4					20653						7.4	7.2							N/D
S	7/30/17				2.2	2.1	1	4					19557						7.4	7.0							N/D
M	7/31/17			68	2.6	2.1	1	4	7.3	20			22156	55254	650	560	590	600	7.4	7.0							N/D

Process Water and Sludge Flow Report

July 2017

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)
7/1/2017	1.646	0.026	0.380	2.053	1.780	0.000	0.000	10.398	11.070
7/2/2017	2.240	0.057	0.393	2.690	2.157	0.025	0.000	20.620	20.027
7/3/2017	2.159	0.024	0.454	2.637	2.300	0.000	0.000	10.452	10.217
7/4/2017	2.077	0.082	0.385	2.544	2.465	56.351	0.000	10.687	10.350
7/5/2017	3.018	0.083	0.389	3.490	3.322	58.459	0.000	10.453	10.182
7/6/2017	2.687	0.071	0.294	3.052	2.746	56.177	0.000	9.977	10.220
7/7/2017	2.503	0.071	0.363	2.936	2.659	56.280	0.000	10.482	10.361
7/8/2017	2.253	0.025	0.364	2.642	2.480	0.000	0.000	9.622	9.652
7/9/2017	2.853	0.042	0.405	3.300	3.135	0.010	0.000	10.792	10.356
7/10/2017	3.282	0.063	0.290	3.635	3.301	56.476	0.000	10.517	10.890
7/11/2017	2.820	0.072	0.307	3.198	2.939	56.244	0.000	10.689	10.780
7/12/2017	2.600	0.082	0.292	2.974	2.703	58.093	0.000	10.240	10.362
7/13/2017	2.954	0.079	0.290	3.323	2.917	57.312	0.000	9.675	9.786
7/14/2017	2.418	0.069	0.318	2.804	2.652	57.177	0.000	10.196	10.350
7/15/2017	2.013	0.026	0.387	2.426	2.224	0.000	0.000	10.277	10.346
7/16/2017	2.125	0.031	0.313	2.469	2.264	0.000	0.000	9.707	9.867
7/17/2017	3.093	0.068	0.290	3.451	3.041	57.706	0.000	10.047	10.264
7/18/2017	2.893	0.069	0.287	3.229	2.944	57.347	0.000	10.266	10.357
7/19/2017	2.777	0.000	0.303	0.000	0.000	0.000	0.000	0.000	0.000
7/20/2017	2.916	0.084	0.336	3.336	2.946	61.530	0.000	11.203	11.332
7/21/2017	2.654	0.078	0.360	3.091	2.851	59.375	0.000	10.801	11.131
7/22/2017	2.283	0.021	0.343	2.646	2.476	0.000	0.000	10.099	10.239
7/23/2017	2.520	0.031	0.358	2.909	2.647	0.000	0.000	10.245	10.354
7/24/2017	2.348	0.077	0.294	2.719	2.469	58.252	0.000	9.775	9.776
7/25/2017	2.427	0.068	0.288	2.784	2.478	57.596	0.000	10.267	10.342
7/26/2017	2.697	0.079	0.271	3.047	2.642	57.492	0.000	10.222	10.325
7/27/2017	2.491	0.071	0.312	2.875	2.632	58.632	0.000	10.146	10.239
7/28/2017	2.079	0.071	0.337	2.488	2.353	57.454	0.000	10.198	10.323
7/29/2017	1.875	0.023	0.387	2.284	2.132	0.000	0.000	10.305	10.348
7/30/2017	1.898	0.025	0.315	2.237	2.073	0.000	0.000	9.795	9.762

Tuesday, August 01, 2017

7/31/2017	2.208	0.067	0.291	2.566	2.131	55.254	0.000	11.228	10.928
Sum	76.808	1.734	10.375	85.837	77.860	1093.242	0.000	319.379	320.535
Avg	2.478	0.056	0.335	2.769	2.512	35.266	0.000	10.303	10.340
Min	1.646	0.000	0.267	0.000	0.000	0.000	0.000	0.000	0.000
Max	3.282	0.084	0.454	3.635	3.322	61.530	0.000	20.620	20.027



The City of Durant

Office of the Water Treatment Plant

Memorandum

Date: 8/1/2017
To: Utilities Authority
From: Phillip Hightower, Water Plant Superintendent
Re: Water Plant Monthly Operation Reports - July 2017

Council Information / Action Requested

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

ATTACHMENTS:

Description	Type	Upload Date
July 2017 MOR #1	Exhibit	8/1/2017
July 2017 MOR #2	Exhibit	8/1/2017
July 2017 Chlorite and CLO2	Exhibit	8/1/2017
July 2017 Maintenance Report	Exhibit	8/1/2017

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: July 2017

Population: 19,491

System

Address

City

ZIP

DAY	WATER TREATED	FILTER OPERATION								WASH WATER IN 1000 GALS.	CHEMICALS USED-LBS.								ALKALINITY						pH			CaCO3 STABILITY Method:	HARDNESS (ppm)		Chlorite residual	Chlorite lbs/day	REMARKS								
		FILTERS USED-HOURS									ALUM	LIME	POLYMER Name:		CARBON	OTHER Name: NH2SIF6	OTHER Name: copper sul	CHLORINE		"P"		TOTAL AM		CLO2 Residual		TOTAL PM			pH					AM	RAW	FILT					
																		PRE	POST	RAW	FILT	RAW	FILT	RAW	FILT	RAW	FILT		RAW	FILT							RAW	FILT	RAW	FILT	FILT
1	5,426	24	24	24	24	24	24	23	23	80	2700	0	50	688	0	0	0	260	120			140	230		0.15	150	228	7.6	7.4	7.4	252	166	250	0.47	400						
2	5,000	24	24	24	24	24	23	23	24	70	1500	0	50	1100	0	0	0	200	120			144	150		0.13	142	156	7.6	7.5	7.4	238	140	170	0.47	400						
3	4,550	24	23	23	23	24	24	24	24	75	2700	0	50	2750	0	0	0	140	100			146	128		0.13	146	134	7.9	7.4	8.2	146	158	160	0.29	400						
4	4,089	23	24	24	24	24	24	24	24	35	2000	0	50	688	0	0	0	190	90			138	122		0.12	144	130	7.6	7.6	7.7	140	146	144	0.33	300						
5	4,230	24	24	24	24	24	24	23	23	70	2100	0	50	1100	0	0	0	120	100			124	120		0.14	126	120	7.6	7.6	7.6	128	140	132	0.33	300						
6	4,741	24	24	24	24	23	23	24	24	60	2500	0	50	963	0	0	0	220	120			116	114		0.09	118	118	7.5	7.4	7.3	124	124	132	0.52	340						
7	3,469	24	23	23	24	24	24	24	24	70	3000	0	50	1513	0	0	0	260	120			120	110		0.15	120	98	7.3	7.4	7.4	110	136	130	0.61	400						
8	5,380	23	24	24	24	23	24	24	23	115	2900	0	50	1375	0	0	0	240	120			112	108		0.14	108	106	7.2	7.1	7.4	112	124	134	0.52	420						
9	5,065	24	24	24	24	24	24	24	23	40	2700	0	50	1238	0	0	0	180	100			118	106		0.13	120	102	7.4	7.4	7.5	108	120	112	0.8	400						
10	5,009	24	24	24	24	23	23	24	24	70	3000	0	50	1513	0	0	0	200	100			118	102		0.1	124	108	7.5	7.5	7.5	104	126	118	0.66	400						
11	5,036	24	23	23	24	24	24	24	24	70	3000	0	50	1375	0	0	0	200	100			118	112		0.16	124	106	7.5	7.8	7.6	118	122	120	0.71	400						
12	4,520	23	24	24	23	24	24	24	24	70	2400	0	50	1375	0	0	0	200	100			110	104		0.14	236	102	7.3	8	7.8	104	122	124	0.57	400						
13	4,929	24	24	24	24	24	24	24	24		2100	0	50	0	0	0	0	160	100			242	162		0.22	248	184	7.9	7.8	7.8	110	252	180	0.76	350						
14	5,785	24	24	24	24	24	24	23	23	77	3600	0	50	0	0	0	0	200	100			274	224		0.15	280	220	7.9	7.2	7.2	164	254	238	0.95	350						
15	5,533	24	24	24	24	23	23	24	24	82	3600	0	50	0	0	0	0	200	140			274	238		0.19	280	246	8	7.2	7.3	220	280	274	0.76	350						
16	5,828	24	23	23	24	24	24	24	24	80	3100	0	50	0	0	0	0	160	100			280	244		0.18	278	250	8	7.2	7.3	244	274	276	0.57	350						
17	5,248	23	24	24	23	24	24	24	24	80	2600	0	50	0	0	0	0	80	100			276	226		0.17	284	276	8	7.2	7.2	226	272	274	0.42	330						
18	5,150	24	24	24	24	24	24	23	23	90	2800	0	50	0	0	0	0	80	100			266	238		0.22	272	244	8	7.2	7.2	240	278	278	0.38	330						
19	5,652	24	24	24	24	23	23	24	24	70	2400	0	50	0	0	0	0	50	110			264	242		0.21	266	238	8.1	7.3	7.3	232	266	268	0.57	400						
20	5,820	24	23	23	24	24	24	24	24	70	2500	0	50	0	0	0	0	30	130			260	242		0.14	256	240	8.1	7.6	7.6	248	252	250	0.71	400						
21	5,773	23	24	24	23	24	24	24	24	80	2500	0	50	0	0	0	0	0	160			252	226		0.15	266	234	8.1	7.4	7.5	228	276	258	0.9	400						
22	5,965	24	24	24	24	24	24	23	23	70	2600	0	50	0	0	0	0	0	180			248	238		0.14	260	224	8.1	7.4	7.5	232	278	264	0.85	400						
23	5,872	24	24	24	24	23	23	24	24	70	3600	0	50	0	0	0	0	0	180			258	248		0.15	250	248	8	7.3	7.5	258	260	260	0.57	400						
24	5,498	24	23	23	24	24	24	24	24	70	4300	0	50	0	0	0	0	0	140			242	234		0.18	248	228	8	7.3	7.5	254	246	260	0.76	340						
25	5,372	23	24	24	23	24	24	24	24	70	2500	0	50	0	0	0	0	0	140			254	210		0.18	254	214	8	7.1	7.2	236	258	266	0.47	340						
26	5,399	24	24	24	24	24	24	23	23	90	2300	0	50	0	0	0	0	0	240			252	224		0.16	256	234	8.1	7.2	7.5	216	264	250	0.76	340						
27	5,370	24	24	24	24	23	23	24	24	70	2100	0	50	0	0	0	0	100	140			252	228		0.19	258	244	8.1	7.4	7.4	230	258	252	0.47	340						
28	5,700	24	23	23	24	24	24	24	24	70	2400	0	50	0	0	0	0	120	160			246	222		0.11	256	240	8.1	7.7	7.5	234	266	260	0.38	340						
29	5,386	23	24	24	23	24	24	24	24	70	2400	0	50	0	0	0	0	100	140			248	220		0.15	252	230	8.1	7.5	7.5	224	280	266	0.57	340						
30	5,796	24	24	24	24	24	24	23	23	70	2200	0	50	0	0	0	0	100	140			254	222		0.13	252	230	8	7.2	7.4	234	254	252	0.71	340						
31	6,145	24	24	24	24	23	23	24	24	65	2100	0	50	0	0	0	0	100	140			258	232		0.16	254	224	8.1	7.3	7.4	232	262	264	0.66	400						
TOT	162736	737	737	737	737	736	736	736	736	2169	82200		1550	15678				3890	3930			6404	5826		4.76	6628	5956	243	230	232	5946	6654	6616	18.5	11400						
Avg	5250	24	24	24	24	24	24	24	24	70	2652		50.00	506				125	127			207	188		0	214	192	7.8	7.4	7.5	191.8	215	213	0.597	#####						

Power Costs	\$29,203.06
Labor Costs	\$30,110.25
Chemicals	\$21,163.19
Supplies	\$248.59
Repairs	\$712.04
TOTAL	\$81,437.13

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

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

Ave Wash Period (Minutes)

Signed

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

% Wash Water Used

Title

Oper. Cert. No.

B 90404

Cost per thousand Gallons

Ave. Head Loss for Washing

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: July 2017
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:	11	6%	

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

HIGHEST TURBIDITY READING	0.14	◀
NUMBER OF SAMPLES > 1 NTU	0	◀
NUMBER OF SAMPLES > 5 NTU	0	◀
95TH PERCENTILE OF FINISHED WATER TURBIDITY	0.12	◀ NOT REQUIRED
95TH PERCENTILE OF SETTLED WATER TURBIDITY	4.00	◀ NOT REQUIRED
CHLORINE RESIDUAL < 1.0 mg/l LEAVING PLANT (# Samples)		

INDIVIDUAL FILTER TURBIDITY CHECKLIST

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

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

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

DAY	TURBIDITY									RESIDUAL DISINFECTANT								COMMENTS
	RAW	SET	SET	2400-0400	0400-0800	0800-1200	1200-1600	1600-2000	2000-2400	ENTRY POINT TO DISTRIBUTION						DISTRIBUTION		
										12am	4am	8am	12pm	4pm	8pm	SYSTEM		
1	20.51	2.3	2.6	0.09	0.04	0.04	0.05	0.04	0.04	2.85	2.95	2.95	2.96	2.69	2.77	1.55	2.17	on river
2	5.09	1.2	2.6	0.05	0.05	0.06	0.07	0.06	0.05	2.86	2.99	3.17	2.65	2.49	2.04	1.95	1.64	
3	4.87	0.9	1.5	0.07	0.06	0.06	0.07	0.05	0.04	2.22	2.38	2.38	2.65	2.01	2.44	1.64	1.37	
4	3.37	0.7	1.5	0.06	0.06	0.06	0.06	0.05	0.07	2.08	2.55	2.61	2.59	2.20	2.04	1.43	1.62	
5	3.93	1.2	1.8	0.05	0.06	0.12	0.07	0.06	0.06	2.15	2.65	2.55	2.68	2.13	2.07	1.43	1.21	
6	10.20	0.6	0.8	0.09	0.07	0.06	0.05	0.08	0.06	2.21	1.86	1.81	1.84	1.81	2.01	1.30	1.10	
7	6.72	1.3	2.9	0.08	0.08	0.14	0.09	0.09	0.10	2.24	2.30	2.34	2.15	1.98	2.08	0.95	0.88	
8	6.55	1.5	2.2	0.12	0.12	0.07	0.07	0.07	0.10	2.18	2.22	2.15	2.10	1.80	1.77	0.86	0.51	
9	4.87	1.1	2.4	0.09	0.14	0.14	0.11	0.07	0.07	1.91	2.00	1.99	1.92	1.93	1.77	1.04	0.76	
10	4.30	1	1.6	0.14	0.10	0.08	0.06	0.06	0.07	1.86	2.04	2.05	1.97	1.74	1.76	0.65	0.61	
11	4.59	1.2	1.5	0.10	0.09	0.09	0.08	0.07	0.07	1.86	2.13	2.12	1.94	1.70	1.78	0.62	0.57	
12	5.43	1.1	3.2	0.10	0.10	0.09	0.08	0.07	0.07	1.80	1.93	2.42	2.91	2.68	2.74	0.55	1.83	
13	28.81	3	4	0.07	0.08	0.08	0.07	0.07	0.07	2.82	2.84	2.84	2.63	2.54	2.63	0.55	0.88	
14	30.64	6.1	3.5	0.07	0.13	0.08	0.06	0.06	0.06	2.64	2.69	2.76	2.67	2.54	2.80	0.97	0.66	
15	27.77	2.5	3.1	0.06	0.09	0.08	0.05	0.05	0.05	3.03	3.05	3.00	2.82	2.67	2.93	0.76	1.26	
16	26.26	2.8	3.1	0.05	0.05	0.05	0.05	0.05	0.05	3.01	3.06	3.05	2.90	2.72	2.69	1.32	0.96	
17	24.90	2.1	3	0.07	0.05	0.04	0.04	0.04	0.04	2.76	3.07	3.04	3.13	2.83	2.20	1.14	1.79	
18	13.48	2.3	3.3	0.06	0.05	0.05	0.04	0.04	0.04	2.18	2.42	2.40	2.45	2.42	2.42	1.27	1.93	
19	13.72	2.6	3	0.06	0.06	0.05	0.05	0.05	0.05	2.45	2.53	2.44	2.05	2.32	2.37	1.63	1.30	
20	18.04	1.8	4.4	0.07	0.06	0.06	0.06	0.06	0.06	2.42	2.52	2.53	2.51	2.49	2.48	1.65	1.29	
21	17.31	2.9	3.4	0.07	0.05	0.05	0.05	0.05	0.05	2.50	2.53	2.55	2.53	2.44	2.42	2.23	1.68	
22	17.80	2.2	4.8	0.05	0.09	0.08	0.12	0.09	0.12	2.41	2.44	2.52	2.39	2.36	2.36	1.66	1.27	
23	19.92	2.2	3.9	0.10	0.08	0.08	0.07	0.06	0.06	2.37	2.43	2.41	2.41	2.35	2.27	1.48	1.29	
24	24.06	3	3.5	0.07	0.07	0.07	0.06	0.06	0.06	2.29	2.39	2.32	2.30	2.10	2.47	1.60	1.25	
25	21.02	1.6	3.8	0.06	0.05	0.05	0.04	0.04	0.04	2.49	2.48	2.47	2.56	2.56	2.53	1.65	1.26	
26	17.31	1.8	3.4	0.07	0.05	0.05	0.04	0.04	0.05	2.54	2.66	2.57	2.53	2.51	2.53	1.25	1.71	
27	15.55	3	3.1	0.05	0.04	0.04	0.04	0.04	0.04	2.59	2.94	2.97	2.95	2.83	2.88	1.76	1.37	
28	15.06	1.8	2.9	0.05	0.06	0.04	0.04	0.04	0.04	3.07	3.10	3.13	2.98	2.91	2.91	1.43	2.02	
29	16.20	2.1	3.5	0.04	0.04	0.05	0.04	0.04	0.04	2.99	3.03	3.02	2.83	2.70	2.48	2.19	1.61	
30	19.24	2	3.1	0.06	0.05	0.05	0.04	0.04	0.04	2.84	2.91	2.94	2.86	2.73	2.74	1.60	1.62	
31	15.48	2.5	2.4	0.05	0.06	0.06	0.06	0.06	0.05	3.01	3.20	3.13	2.61	2.64	2.89	1.60	2.20	



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: July Year: 2017

3. Analytical Results & Summary Information:

Entry Point Monitoring			Chlorine Dioxide Daily Monitoring (Summary Type: CLO2)					
Day	ClO ₂ (mg/L)	Chlorite (mg/L)						
1	0.15	0.47	Number of Samples Required:					
2	0.13	0.47	Number of Samples Collected:					
3	0.13	0.28	Was All Chlorine Dioxide Monitoring & Reporting Completed? Yes / No					
4	0.12	0	Number of ClO ₂ samples exceeded the MRDL of 0.8 mg/L?					
5	0.14	0.33	If a routine sample exceeds the MRDL, the system is required to take (3) three more samples the next day.					
6	0.09	0.52	Chlorite Daily Monitoring (Summary Type: CLO2)					
7	0.15	0.61	Number of Samples Required:					
8	0.14	0.52	Number of Samples Collected:					
9	0.13	0.8	Was All Chlorite Monitoring & Reporting Completed? Yes / No					
10	0.1	0.66	Number of Chlorite samples exceeded the MCL of 1.0 mg/L?					
11	0.16	0.71	If a routine sample exceeds the MCL, the system is required to take (3) three more samples the next day.					
12	0.14	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	0.22	0.76						
14	0.15	0.95						
15	0.19	0.76	Routine Chlorite Monthly Monitoring in Distribution System					
16	0.18	0.57	Sampling Location	Lab Sample ID	Sampling Point ID	Collection Date	Certified Lab ID	Chlorite (mg/L)
17	0.17	0.42	Near 1st Customer					
18	0.22	0.38	Avg. Residence Time					
19	0.21	0.57	Max. Residence Time					
20	0.14	0.71	Monitoring Period Average:					
21	0.15	0.9	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	0.14	0.85						
23	0.15	0.57						
24	0.18	0.76						
25	0.18	0.47						
26	0.16	0.76						
27	0.19	0.47						
28	0.11	0.38						
29	0.15	0.57						
30	0.13	0.71						
31	0.16	0.66						

Signature of owner or operator: _____

Date: _____

Operator License Number _____

Send all documents to:

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

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



THE CITY OF DURANT

Office of the Water Treatment Plant

Water Treatment Plant Projects Schedule July 2017 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 the lagoons
16. Storm knocked out scada system and computers
17. Worked on chlorinator and replaced a section of cl2 line
18. Worked on scada issues
19. Replaced light switch in new plant raw vault
20. Replaced fuse in scada panel at High Service Pump Station to get level transmitter working
21. Mowed Plant grounds
22. Weed eated around plant grounds
23. Mowed and weed eated at High Service Pump Station
24. Mowed and weed eated at Cardinal Glass Pump Station
25. changed blades on the lawn mower
26. Replaced leaking hydraulic hose on the dozer
27. Installed modbus modual in Filter #1 and 2 sc200 controller
28. Treated 162,736,000 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



The City of Durant

Office of the Water and Sewer Maintenance Department

Memorandum

Date: 6/6/2016
To: Utilities Authority
From: Jay Neal, Supervisor
Re: Water/Sewer Line Maintenance Report- June
2017

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1. CMC Parkland expansion still ongoing. Expected completion will be mid-September.
 2. Coordinating with Wall Engineering on a Leak Detection project. The use of magnetic detectors on the valves will give us a more accurate "snapshot" of unknown leaks in the collection/distribution system. This will decrease water loss and significantly affect inflow and infiltration.

Council Information / Action Requested

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