

To: Honorable Mayor and City Councilors
From: Michael Spurgeon, City Manager
Date: May 8, 2020
Re: Notes to Council

1. STAFF REPORTS / ITEMS REQUIRING IMMEDIATE ATTENTION

- Utilities Department Monthly Report – March 2020
- Streets and Stormwater Department Monthly Report – April 2020

2. GENERAL CORRESPONDENCE / NOTIFICATION

- Recent news articles
- Museum Broken Arrow Newsletter – May 2020

3. SPECIAL EVENTS / ACTIVITIES

- N/A

Respectfully submitted

CLM For

Michael Spurgeon

clm

Attachments

1. STAFF REPORTS / ITEMS REQUIRING IMMEDIATE ATTENTION



To: Michael Spurgeon, City Manager
From: Charles Vokes, Utilities Director
Date: May 1, 2020
Re: Utilities Department Monthly Report – March 2020

	March 2020	March 2019
Water Treated, Purchased and Distributed		
Water Purchased from Tulsa	0.5 MG	5.5 MG
Water Produced at Verdigris WTP	<u>261.6 MG</u>	<u>252.6 MG</u>
Total	262.1 MG	258.1 MG
Wastewater Treated		
Lynn Lane Plant	208.6 MG	155.3 MG
Haikey Creek Plant flow from BA	<u>185.6 MG</u>	<u>147.9 MG</u>
Total	394.2 MG	303.2 MG
Haikey Creek Plant flow from Tulsa	227.5 MG	206.1 MG

LLWWTF Summary

David Handy, Plant Manager

Preventive Maintenance (35.5 person-hrs total)

1. Cleaned west head cell (8 hours)
2. Cleaned and washed east tea cup and grit snail (2 hours)
3. Lubricated door locks in buildings (1 hour)
4. Drained and washed west contact chamber (4 hours)
5. Tested chlorine detectors (0.5 hours)
6. Checked accuracy of effluent flowmeter (0.5 hours)
7. Cleaned clarifier weirs (2 hours)
8. Performed weekly lubrication for influent channel screen (1 hour)
9. Removed and unplugged drain pipe from east tea cup to floor (4 hours)
10. Performed monthly lubrication of all facility equipment motors and bearings (2 hours)
11. Adjusted belt tension on bio-filter booster fan at headcell access area (0.5 hours)
12. Drained and washed east contact chamber (4 hours)
13. Lubricated clarifier and thickener drives (2 hours)
14. Performed maintenance on scum pit on east clarifier (1 hour)
15. Lubricated motors and bearings on catwalk in transport room (0.5 hours)
16. Cleaned louvers in blower building (0.5 hours)
17. Drained east tea cup and cleaned grit chamber (2 hours)

Corrective Maintenance

1. Made fittings and installed 1 1/2 inch submersible pump in scum pit
2. Added plastic extensions to 4 chutes in transport building
3. Removed and replaced chlorine regulator valve

Other Maintenance

1. Installed shelving and pegboard in maintenance building

Utilities Distribution/Collections Maintenance Summary Water Distribution-Travis Schemonia, Water Supervisor

Preventive Maintenance

1. Line locates-947
2. Valve truck crew exercised 77 valves for the month, bringing the total to 123 for 2020
3. Fire hydrants inspected and greased-190

Corrective Maintenance

1. Meter leak repairs-8
2. Distribution main leak repaired-7
3. Curb stops replaced-7
4. Defective meters replaced-11
5. Water quality calls-2
6. Water system service requests-49
7. Broken meter/valve boxes replaced-27
8. Cleaned and restored yards after water line repair-5
9. Fire hydrants replaced-1
10. Service crossings installed-4

Other

1. New taps and meters-53
2. Service line breaks-23
3. Water pressure tests-6
4. Assisted Meter Reading with Turn Ons/Offs-10
5. Assisted Construction with moving meters on E Detroit St
6. Placed concrete blocks to stop trespassers on Bass Pro hill

Water Quality

Preventive Maintenance

1. Tested chlorine levels near auto flushers to verify all are working-15
2. Bac-T samples collected-102
3. Collected 2 chlorine samples (am/pm) daily-60 total
4. Distribution system-tests at 12 distribution locations and 5 water tower locations-153
5. Checked chlorine levels every Friday at 5 water towers-20
6. Flushed dead end lines at 35 locations once a month-280,000 gallons

Corrective Maintenance

1. Water quality concern calls at 10 locations-103,000 gallons flushed

Other

1. Total gallons flushed to improve water quality-estimated 3,547,827 gallons

Water Reclamation-David Marlow, Wastewater Collection Supervisor

Preventive Maintenance

1. CCTV inspections done-4110 ft.
2. Routine station visits (29 lift stations and 4 booster stations)-593
3. Check valves/pumps cleaned at stations-13
4. Wet wells cleaned-6
5. Sewer line locates-77
6. Sewer line cleaning-5300 ft.

Corrective Maintenance

1. Service request calls-53
2. Sewer line blockages relieved-7
3. After hour calls-25
4. Manholes repaired-2
5. Sewer lines repaired/replaced/installed-177 ft.
7. Clean and restored yards after sewer line repairs-3
8. Sanitary Sewer Overflows (SSOs) reported to ODEQ-11
9. Sinkholes-3
8. Lift station maintenance and repairs-
 - Oneta Rd-replaced pump #2
 - South Park South-cleaned probes and impellers on two different occasions
 - South Park South-cleaned impellar #1 on four different occasions
 - Oneta Rd-replaced pump #1
 - 209th-cleaned bypass line
 - Adams Creek North-replaced belts #2A
 - Timberbrook-replaced bad capacitor
 - Indian Springs-cleaned impellar #1
 - Adams Creek North-cleaned flap valve and realigned pulley
 - Adams Creek North-replaced belts on #2 pump
 - Oneta Rd-replaced pump #3
 - Berwick-replaced pressure gauges
 - Timberbrook-cleaned impellar
 - Adams Creek North=replaced float/belts #1

Meter Reading-Derriell Bynum, Meter Reading Supervisor

Preventive Maintenance

1. Replace meters-76
2. Install Mach 10 meters-5
3. Clean in and around meter boxes

Corrective Maintenance

1. Replace defective AMR registers-7
2. Meter boxes replace-23
3. Replace AMR antenna-4

Other Maintenance

1. Meters read-39,139
2. Rereads/Leak Tests-85
3. Turn Ons for nonpayment-88
4. Turn Offs for nonpayment-122
5. New accounts-501
6. Finals-502
7. Pulled meters-2
8. Retrieve water use history from AMR and provide 90 day graph to customer-2 for a total of 9 for 2020
9. Place door hangers for bad checks-10
10. Misreads-80

Utilities Construction-Tommy Kimbrough, Construction Supervisor

Preventive Maintenance

1. Haikey Creek water line project-installed 760' of 8" C-900 water pipe, 2 fire hydrants and 3 service taps
2. Events Park Softball Complex-installed 360' of 8" C-900 water pipe and passed Bac-t sample
3. Line locates-20

Corrective Maintenance

1. Detroit St, Date to Elgin water line project-installed 310' of 6" C-900 water pipe, 1 fire hydrant and 3 service taps
2. Elgin, Elm to Cedar water line project-installed 680' of 6" C-900 water pipe, 1 fire hydrant, 7 service taps

Verdigris WTP-Jimmy Helms, Plant Manager

Preventive Maintenance (36.5 person-hrs total)

1. Tested eye wash / shower stations (4 hours)
2. Calibrated and bump tested MX4 air monitors (0.5 hours)
3. Inspected fire extinguishers (1 hour)
4. Changed oil in high service pumps 1-3 (12 hours)
5. Flushed SBS, citric acid, permanganate, neutralization and caustic CIP containment areas (3 hours)
6. Installed new stainless steel air filter on blower system (0.5 hours)
7. Changed the buffer and indicator on hardness monitor (0.5 hours)
8. Changed out CL17 chlorine analyzer buffers (2 hours)
9. Squeezed condensation buildup between the racks (3 hours)
10. Drained and refilled water traps on acid and SBS tank overflow lines (0.5 hours)
11. Changed softened water and brine filters on hypochlorite generation system (1 hours)
12. Replaced the tubing on the settled turbidimeter (0.5 hours)
13. Changed oil and filters on Atlas Copco air compressors (4 hours)
14. Ran load test on portable generator (0.5 hours)
15. Flushed raw water turbidimeter (0.5 hours)
16. Flushed settled and filtrate turbidimeter (1 hour)
17. Drained west pre-treatment basin in preparation for cleaning (2 hours)

Corrective Maintenance

1. Installed new air compressor on pilot plant (compressor failure)
2. Installed new IFM Efector air sensor in pipe chase (sensor failure)
3. Flushed permanganate line (high pressure alarm on pump #1)
4. Installed new O-ring on permanganate 2" pvc valve above transfer pumps (leak)
5. Resealed 1.5" male cam lock fitting on hypochlorite feed panel (leak)
6. Resealed 1" softened water valve on hypochlorite generator #2 (leak)
7. Replaced internal hose on blue hypochlorite (hose failure)
8. Fixed brine level display on SCADA (incorrect display)

Other Maintenance

1. Performed grounds keeping duties
2. Cleaned and disinfected membrane building
3. Capped OOWA line (by contractor)

Lynn Lane and Haikey Creek WWTP Industrial Pretreatment Program Summary

Lauren Kimbrough, Pretreatment Coordinator

Fats, Rags, Oil & Grease Program (FROG)-

Grease interceptor inspections

- 37 interceptors were inspected in March. The Water Quality Technician is currently conducting inspections of grease interceptors outdoors and calling management of

facilities that need to have maintenance performed. Oklahoma DEQ informed the City of Broken Arrow that all businesses in operation, that have pretreatment systems, must continue to maintain the systems. The Water Resources Division of City of Broken Arrow Utilities Department received word that several restaurants that were in operation were refusing routine service pump-outs of grease interceptors. Water Resources is ensuring maintenance of grease interceptors during this pandemic in order to limit sanitary sewer overflows and backups that can be caused by grease blockages in the City of Broken Arrow Water Reclamation System.

- Seven facilities were asked to pump the grease interceptor.

Industrial Pretreatment-

1. Self-Monitoring Laboratory reports received and reviewed for compliance

- Blue Bell – No deficiencies were noted. Monthly surcharges for conventional pollutants above residential thresholds were calculated in the amount of \$11,306.42. Surcharges have been submitted to the Finance Department for billing.
- Unifirst –No deficiencies were noted. Monthly surcharges for conventional pollutants above residential thresholds were calculated in the amount of \$2,773.18 and submitted to the Finance Department for billing.
- Mullin Plumbing – The permitted Septic System Dewatering Station remains closed at this time. There was no discharge and no monitoring performed.
- Comgraphx/Communication Graphics – No deficiencies were noted. Monthly surcharges for conventional pollutants above residential thresholds were calculated in the amount of \$47.75 and submitted to the Finance Department for billing.
- Russelectric – No deficiencies were noted.

2. Department of Environmental Quality (DEQ) Audit-

- Every 5 years, the DEQ performs a comprehensive audit of the Broken Arrow Municipal Authority (BAMA) and Regional Metropolitan Utility Authority (RMUA) Pretreatment Programs. This year, the audit lasted for 4 days and consisted of a program review to ensure program regulations are being properly implemented, pollution prevention program review, significant industrial user file reviews, and significant industrial user site inspections. An exit interview was conducted by DEQ with the Assistant Utilities Director to discuss the findings, and a report will follow.

3. Site Inspections-

RMUA

- CSI Aerospace
- Solar Turbines
- Baker Hughes
- Unifirst
- Comgraphx

BAMA

- Exterran
- Russelectric
- Blue Bell
- Mullin Plumbing Residential Septic System Dewatering Station
- Flight Safety

Street & Roadside Maintenance

Monthly Report 04/2020

Job	Totals	Monthly Total
Street Service Calls (Not covered by other categories)		
Pothole Patches		1659 35.95 Tons
Dura Patch Holes		
Major Street Repairs (SY)		752
Signs Repaired		177
New Signs Installed		38
Signs Fabricated		108
Streets Painted (LF)		
Thermo Plast (FT)		
Arrows Painted		
Arrows Thermo Plast		
ONLY'S		
Intersection/Crosswalk Marking		
Special Projects		
Drop Inlets Cleaned		
Mosquito Spraying		
Tree Removal/Trimming		51
Crack Sealing (FT)		33,304
Manholes Raised		3
R.O.W Signs		
Streets Paved (SY)		24,255
Bar Ditching (FT)		
24 Hour Traffic Counts		3
12 Hour Speed Surveys		
Traffic Calming Signs Posted		
Traffic Calming Areas Painted		
Speed Bumps Installed		
Speed Bumps Removed		
Speed Bumps Painted		
Sweeping for striping		

Stormwater Maintenance
Monthly Report 04/2020

Job	
Street Sweeping (miles)	178
Mowing ROW (miles)	
Mowing Special Projects	
Weedlot Abatement	
Tree Removal / Trimming	
Spraying	
Signs Removed from ROW	
Stormwater Service Calls (not covered by other categories)	
Barricades Repaired	
Bar Ditch Repairs / Cleaning (LF)	1319
Creek Cleaning(LF)	
Culverts Cleaning	
Storm Sewer Sinkholes	
Storm Sewer Installed (LF)	
Drop Inlets Cleaned	
Drop Inlets Repaired	
Junction Box Repairs	
Storm Drain Grates Replaced	
Storm Drain Hood Repaired/Replaced	
Concrete Street Repairs (SF)	6,741
Sidewalk Repairs (SF)	145
Curb and Gutter Repairs (LF)	220
French Drains	
Backfill or Spread Topsoil	
Saw Cut Curb & Gutter	
Driveways & Approaches (SF)	645
Vertical Walls & Headwalls	
Mobile Cement Truck (CY)	
Hydro Mulch	
Sod Layed (SF)	

Special Pickup	
Storm Damage	
New Inlets & Junction Boxes	
Wheelchair Ramp	
Flow Filled Pipes	
Manholes Raised	
Metal Hoods Raised	
Log Jams	
Surface Drains Installed	
Pads (SF)	
Brush Loads	
6 X 6 Boxes	
Raised Manhole Rings	
Floor (SF)	
Control Pods	
Concrete Swell	
Spilled Cleaned	
Beaver Slides	
Econ blocks (9 per set)	
Rip Rap tons	19
Graffiti removal	
Concrete parking lots (SF)	
Bar Ditching (feet)	
Creek Cleaning	
Bridge Cleanout	
Weedeat	
Guardrails (ft)	
Ag-Base	0-Jan
Footings	
Dog Kennel Pads Poured sq ft	
Pipe Joints Patched Repaired	
Signal Pedestals (sq ft)	
Lids (sq ft)	
Storm Drain Joints Crawled and Repaired	
Mailbox repairs	
1 1/2 road rock	18

spoils	93
top soil	
3/8 chips	4
clean out bay	

Traffic Signal Maintenance

Monthly Report 04/2020

Job	Total Hours	Monthly Total
Traffic Signal service/repair calls		186
School Signal service/repair calls		8
Electrical/ street lights other		50
Stanby calls		7
Backlog work orders		
Backlog PM Inspections		
Civil Defense Siren		4

2. GENERAL CORRESPONDENCE / NOTIFICATION





INTEROFFICE MEMO

To: Honorable Mayor and City Councilors
From: Jennifer Swezey, Communications & Media Relations Manager
Date: May 8, 2020
Re: Recent News Articles

Below are some links to news coverage in Broken Arrow the past two weeks.

[Broken Arrow is back in business](#) 4/30/20

[Broken Arrow asks residents not to flush cleaning wipes](#) 5/4/20

[Broken Arrow to open sports complexes on Friday, plans for phase 2 opening on May 15](#) 5/5/20

[Broken Arrow City Council To Meet In Person Tuesday](#) 5/5/20

[Broken Arrow City Leaders Struggle To Get Hillside Drive Open Again](#) 5/6/20

[3 outdoor spots to explore this weekend \(Ray Herral\)](#) 5/7/20

[Broken Arrow Sports Complexes Reopen For Practices Only On Friday](#) 5/8/20

Respectfully submitted,

Jennifer Swezey

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, Florence Nightingale!

Florence Nightingale, byname Lady with the Lamp, (born May 12, 1820, Florence [Italy]—died August 13, 1910, London, England), British nurse, statistician, and social reformer who was the foundational philosopher of modern nursing. Nightingale was put in charge of nursing British and allied soldiers in Turkey during the Crimean War. She spent many hours in the wards, and her night rounds giving personal care to the wounded established her image as the “Lady with the Lamp.” Her efforts to formalize nursing education led her to establish the first scientifically based nursing school—the Nightingale School of Nursing, at St. Thomas’ Hospital in London (opened 1860). She also was instrumental in setting up training for midwives and nurses in workhouse infirmaries. She was the first woman awarded the Order of Merit (1907). International Nurses Day, observed annually on May 12, commemorates her birth and celebrates the important role of nurses in health care. [Click here to read more....](#)

Thank you to all our nurses and medical staff, for working so hard during the COVID-19 pandemic.



Hella Museum Members & Friends!

Just a quick update regarding the status of re-opening the museum...At this time we feel for the safety of our employees, members and community, it is safest to remain closed. We will continue keeping BcA history alive through our social media outlets. Once we have adequate staffing and procedures in place we will notify you of our re-opening. We miss you all terribly and cannot wait to get back to business as usual.

Thank you for continuing to support our mission.

We apologize for any inconvenience. Take care, friends! If you have any questions, please email information@brokenarrowmuseum.org

We have tentative plans to reopen June 2

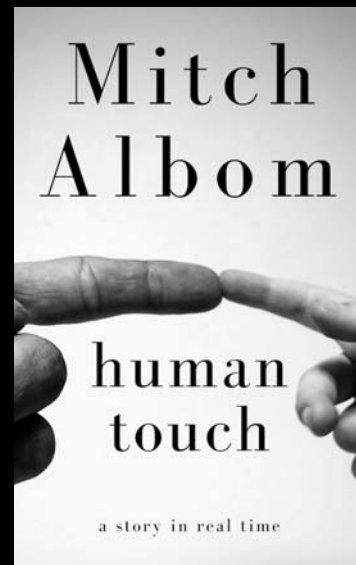


These lovely ladies didn't let the Museum BA Tea Party cancellation stop them from a quarantine tea party at home! Members Martha Williams, Jana Thompson & JoEllen Clow enjoyed their tea party from the comfort and safety of their backyard.

Just because our book club gatherings have been cancelled, doesn't mean you can't dive into a new book! The following link will take you to Mitch Albom's latest book, "Human Touch." Available online for FREE, chapter by chapter [HERE](#).

Not feeling up to reading a book yourself, that's okay, The Museum BA has you covered! Sit back and listen to Harper tell you a story from the Childer's Cabin in our new social media series, "[Cabin Tales!](#)"

Fear not, Book Club members...We have applied for our Fall series with LTAIO. We will inform you all as soon as the theme and discussion dates are finalized.





*The perfect gift,
for all ages & all
occasions!*
\$24.95 (plus tax)
*Offering Curbside Marmie
Book Purchases
Saturday, May 9th
2-4pm
Call 918-258-2616
upon arrival*

400 S. MAIN STREET

the**MUSEUM**
BROKEN ARROW



theMUSEUM
BROKEN ARROW



LTAIO Book Return Hours
Drop off in lobby
Saturday 5/9 2-4pm **Tuesday 5/12 11-2pm**

IF THESE DATES ARE NOT CONVENIENT FOR YOU OR IF YOU WOULD PREFER TO NOT LEAVE YOUR HOME AT THIS TIME, PLEASE EMAIL JBROWN@BROKENARROWMUSEUM.ORG YOUR PHYSICAL ADDRESS & PHONE NUMBER. WE WILL ARRANGE A TIME TO COME PICK UP YOUR BOOK. WHILE IT IS UNFORTUNATE WE HAD TO CANCEL THE LAST COUPLE BOOK CLUB DISCUSSIONS, WE FELT IT WAS NECESSARY UNDER THE COVID-19 CIRCUMSTANCES. PLEASE CONTINUE TO TAKE CARE. WE HOPE TO SEE ALL OF YOU, AT THE MUSEUM BA'S FALL LTAIO SERIES.



OKLAHOMA
HUMANITIES



LET'S TALK
ABOUT IT
OKLAHOMA

Generous funding provided by Kirkpatrick Family Fund and Inasmuch Foundation



The Mural Committee and Grant Funding Organizations have agreed, to postpone the project, due to COVID-19. Artists now have until August 28, 2020 to research and submit their design proposals. Our new completion deadline will be Spring/Summer 2021.

Mural Information

Save the Date!

THE GRAND EVENT,

A NIGHT FOR THE MUSEUM!

NOVEMBER 13, 2020

Hopefully we will all be ready for a party by November

13th! We are still planning a fun evening, celebrating our wonderful city, restaurants and businesses at our annual event,
A Night For The Museum! Mark your calendars

Thank you to our generous newsletter sponsors!



3. SPECIAL EVENTS / ACTIVITIES

