

To: Honorable Mayor and City Councilors
From: Michael Spurgeon, City Manager
Date: May 31, 2019
Re: Notes to Council

1. STAFF REPORTS / ITEMS REQUIRING IMMEDIATE ATTENTION

- Utilities Department Monthly Report – April 2019

2. GENERAL CORRESPONDENCE / NOTIFICATION

- Press Release – Broken Arrow crews collecting storm debris from areas in tornado's path
- Streets and Stormwater Department memo – Severe weather/flooding response

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 30, 2019
Re: Utilities Department Monthly Report – April 2019

| | April 2019 | April 2018 |
|---|-------------------|-------------------|
| Water Treated, Purchased and Distributed | | |
| Water Purchased from Tulsa | 4.3 MG | 0.2 MG |
| Water – Produced at Verdigris WTP | <u>285.8 MG</u> | <u>281.9 MG</u> |
| Total | 290.1 MG | 282.1 MG |
| Wastewater Treated | | |
| Lynn Lane Plant | 153.5 MG | 138.7 MG |
| Haikey Creek Plant flow from BA | <u>173.5 MG</u> | <u>156.7 MG</u> |
| Total | 327.0 MG | 295.4 MG |
| Haikey Creek Plant flow from Tulsa | 205.6 MG | 199.3 MG |

LLWWTF Summary-

David Handy, Plant Manager

1. Fermenter was set up at South Digester and put into operation
2. Received full tote of polymer
3. Full chlorine cylinder hooked up
4. Sanded contacts on air compressor in transport building
5. Changed polymer tote
6. Filled grease pots
7. Disconnected and cleaned two 6-inch pumps and hoses that were being rented from United Rentals
8. Changed air filter on Blower #8
9. Switched over from West oxidation ditch to East Oxidation ditch
10. Moved Fermenter from South digester to Splitter Box
11. Changed Propane cylinder on forklift
12. Picked up 2 Full propane tanks for forklift
13. Cleaned up Coagulant leak in Blower room and repaired hose
14. Received 1 Full Chlorine cylinder and returned 1 empty
15. Received 2 full polymer totes
16. Cleaned out room on old Headworks structure
17. Checked all fire extinguishers
18. Motor on Screw Pump 2 was rewired due to electrical short
19. Greased Belt Press bearings
20. Hooked up full Chlorine cylinder
21. Changed cam lock fitting on Polymer hose that connects to polymer tank

22. Received full Chlorine cylinder
23. Performed 945 tests for process and compliance on OPDES Permit No. OK0040053

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

1. New taps and meters-46
2. Line locates-843
3. Meters replaced-9
4. Meters replaced for AMR project-59
5. Registers replaced for AMR-108
6. Meter and valve boxes repaired/replaced-19
7. Meter boxes replaced for AMR project-5
8. Meter leak repairs-13
9. Water leak calls-33
10. Distribution main leak repaired-7
11. Curb stops replaced-25
12. Valve truck crew exercised 24 valves for the month, bringing the total to 158 for 2019
13. Water system service requests-121
14. Cleaned and restored yards after water line repairs-32
15. Fire hydrants replaced-3
16. Fire hydrants repaired-2
17. Main lines flushed to address water quality issues-0
18. Valves repaired-1
19. Service crossings installed-0
20. Flushed dead end lines at 39 locations
21. Five water quality concern calls-108,750 gallons flushed
22. Total gallons flushed to improve water quality-estimated 7,312,625 gallons
23. Repaired 2" service line for Parks Department
24. Repaired 3" service line for Central Park swimming pool
25. Cleaned yard for DEQ inspection

Water Reclamation-David Marlow, Wastewater Collection Supervisor

Lines-

1. Service request calls-37
2. Sewer line locates-53
3. Sewer line blockages relieved-5
4. After hour calls-13
5. Manholes cleaned/raised/repared-5
6. Sewer lines cleaned-5,715 ft.
7. Sewer lines repaired/replaced/installed-66 ft.
8. Sewer lines root cut-82 ft.
9. CCTV inspections done-5,962 ft.
10. Sinkholes-1
11. Sanitary Sewer Overflows (SSO's) reported to ODEQ-7
12. Assist other departments-1
13. Cleaned and restored yards after sewer line repairs-20

Booster and Lift Stations-

1. Routine station visits (29 lift stations and 4 booster stations)-483
2. Check valves/pumps cleaned at stations-4
3. Groundskeeping-7

4. Booster station calls-0
5. Pump station maintenance and repairs-9
 - Park Lane-repaired vacuum pump
 - Old Adams Creek-replaced rotating assembly
 - ISSC-replaced flapper on #2 pump
 - Park Lane-replaced starter breaker
 - The Greens-replaced parts in check valve
 - Stone Horse-cleaned out vacuum bowls and probes
 - Old Adams Creek-switched out rotating assembly
 - Old Adams Creek-replaced vacuum pump
 - Cambridge-replaced 3 way valve

Meter Reading-Derriell Bynum, Meter Reading Supervisor

1. Replaced meters-96
2. Placed door hangers for bad checks-46
3. Turn Ons for nonpayment-246
4. Turn Offs for nonpayment-270
5. New account service initiated-559
6. Accounts finaled-599
7. Meters read-39,034
8. Rereads/leak tests-210
9. Misreads verified-27
10. Boxes replaced-8
11. Met with residents to discuss their high bill/water usage concerns-0
12. AMR Project
 - Retrieved water use history from AMR radio devices and provided the 90 day graphs to the customers-7
 - AMR registers-174
 - AMR meter body-83
 - Dead AMR registers replaced-12
 - Meter boxes replaced-28
 - AMR antennas replaced-5
 - Risers replaced-22
 - Curb stop replaced-2
 - UME chambers-3

Utilities Construction-Tommy Kimbrough, Construction Supervisor

1. Angus Acres water line project (W/L 1902)-installed 120' of 6" C-900 water pipe and made 28 service connections
2. Jasper, Olive, Gardenia water line project (W/L 1901)-started construction
3. Assisted water division with clean ups-9
4. 101st St water tower and maintenance center-clean up for DEQ inspection
5. 605 E Houston St-searched for sewer service
6. Tulsa Ditch Witch-training on new equipment
7. Events Park- operator testing
8. Line locates-30
9. Taps-28
10. Fire hydrants installed-8
11. Valves installed-14
12. Service crossings installed-12

Water Quality-Diana Flora, Water Quality Technician

1. Tested chlorine levels near auto flushers to verify all are working-18
2. Bac-T samples collected-100
3. Collected 2 chlorine samples (am/pm) daily-60 total
4. Distribution system-352 onsite tests at 12 distribution locations and 4 water tower locations

Verdigris WTP-Jimmy Helms, Plant Manager

1. Cleaned pre-treatment trains #1-4
2. Rebuilt leaking #3 hypochlorite metering pump CPVC discharge manifold assembly, mounted on feed panel and installed new floor brace
3. Fabricated a mounting base for second Endress & Hauser pH probe flow cell
4. Replaced leaking ½” sample valve on #3 hypochlorite generator
5. Replaced all hypochlorite sample funnels on generators and installed new ¾” hose to drain
6. Installed new CPVC crossover pipe for hypochlorite flow meter
7. Repaired leaks on permanganate feed panel
8. Cleaned Y-strainer on hypochlorite transfer pumps
9. Repaired 1 ½” water line on pre-treatment basin
10. Cleaned color cell on Hach 510 soft water meter
11. Installed new membrane module on rack #10
12. Replaced flow meter on #3 raw water pump
13. Installed, calibrated and commissioned new Endress & Hauser pH probe in high service
14. Repaired leak on hypochlorite injection spear in pipe chase
15. Assembled coolant transfer pump setup
16. Added coolant to Cummins generator #1
17. Tested spare diode modules for hypochlorite generators
18. Repaired front gate, replaced sensor lenses and realigned
19. Installed low bay led light in maintenance hallway
20. Water Plant conducted 3,787 analyses for the month
21. High service pump station online pH probe was validated on April 29th (factory calibrated)
22. Online turbidity meters were factory calibrated by Hach on July 3, 2018 service agreement

Lynn Lane and Haikey Creek WWTP Industrial Pretreatment Program Summary- Lauren Wilson, Pretreatment Coordinator

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

1. Food Handling Establishment Inspections:

- Pretreatment staff performed 76 food handling establishment 6-month inspections. Staff reviewed manifests for grease interceptor maintenance, inspected the interceptors, and discussed best management practices with management. There were 18 establishments with interceptors that were improperly maintained that were given 15 days to correct the deficiency. There were 12 facilities re-checked for non-compliance issues.

Industrial Pretreatment Activities

1. Self-monitoring 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 \$13,327.54. Surcharges will resume next month per the consent order agreement.
- Unifirst –No deficiencies were noted. Monthly surcharges for conventional pollutants above residential thresholds were calculated in the amount of \$1,186.44 and submitted to the Finance Department for billing.

- Mullin Plumbing –Mullin Plumbing certified that there was no discharge from the residential septic system dewatering station during this month. No self-monitoring was performed.
- Flight Safety International– No deficiencies were noted.
- Russelectric – No deficiencies were noted.
- CSI Aerospace – No deficiencies were noted.
- Broken Arrow Powder Coating – No deficiencies were noted.

2. Public Awareness

- Pretreatment staff hosted a water conservation/water quality booth at the Rose District Farmer's Market each Saturday in April. A rain barrel was given away each week to promote water-wise irrigation and encourage Broken Arrow residents to take the Mayor's Challenge for Water Conservation. Broken Arrow came in 12th place in the challenge, which was a friendly contest against cities from across the nation.
- Pretreatment staff distributed 5,200 water conservation/water quality activity books to Kindergarten, First, and Second-grade students in Broken Arrow Public Schools, Union Public Schools, and Bixby Public Schools within Broken Arrow city limits.
- Pretreatment staff hosted a water conservation/water quality presentation for 2nd grade students at Country Lane Elementary School.

2. GENERAL CORRESPONDENCE / NOTIFICATION



PRESS RELEASE

Contact: Krista Flasch
Director of Communications
City of Broken Arrow
Phone: (918) 259-2400, ext. 5309
Mobile: (918) 409-7771

Broken Arrow crews collecting storm debris from areas in tornado's path

Pickup begins June 10

Broken Arrow, Okla. (06/01/2019) – The Streets and Stormwater Department will begin collecting green storm debris, such as branches and limbs, in Broken Arrow starting Monday, June 10. The City will be divided into four quadrants (See Attached Map). Crews will begin in the Northeast Quadrant, followed by Southeast, Southwest and Northwest Quadrants. Crews will only make one pass for pickups.

Instructions for pickup:

- Debris must be placed curbside by the morning of Sunday, June 9.
- Limbs must be cut into lengths of 8 feet or less.
- Do not place debris next to mailboxes, fire hydrants, gas meters or over water meters.
- Separate tree limbs and branches from other debris such as fencing or roofing materials. Crews will **NOT** collect debris unless green waste is separated from building materials.

Cleanup of minor twigs and small branches will be the resident's responsibility.

After storm debris pickup is completed, any further debris pickup will have to be scheduled through the City's Action Center and will be charged as a normal bulky pickup.

Residents who do not want to wait for the free curbside debris pickup have several options:

- Residents may take their green waste storm debris to the Tulsa Mulch Site, located at 2100 N. 145th E. Ave. Drop-off is free with a driver's license or recent utility bill showing a Broken Arrow address.

(continued)

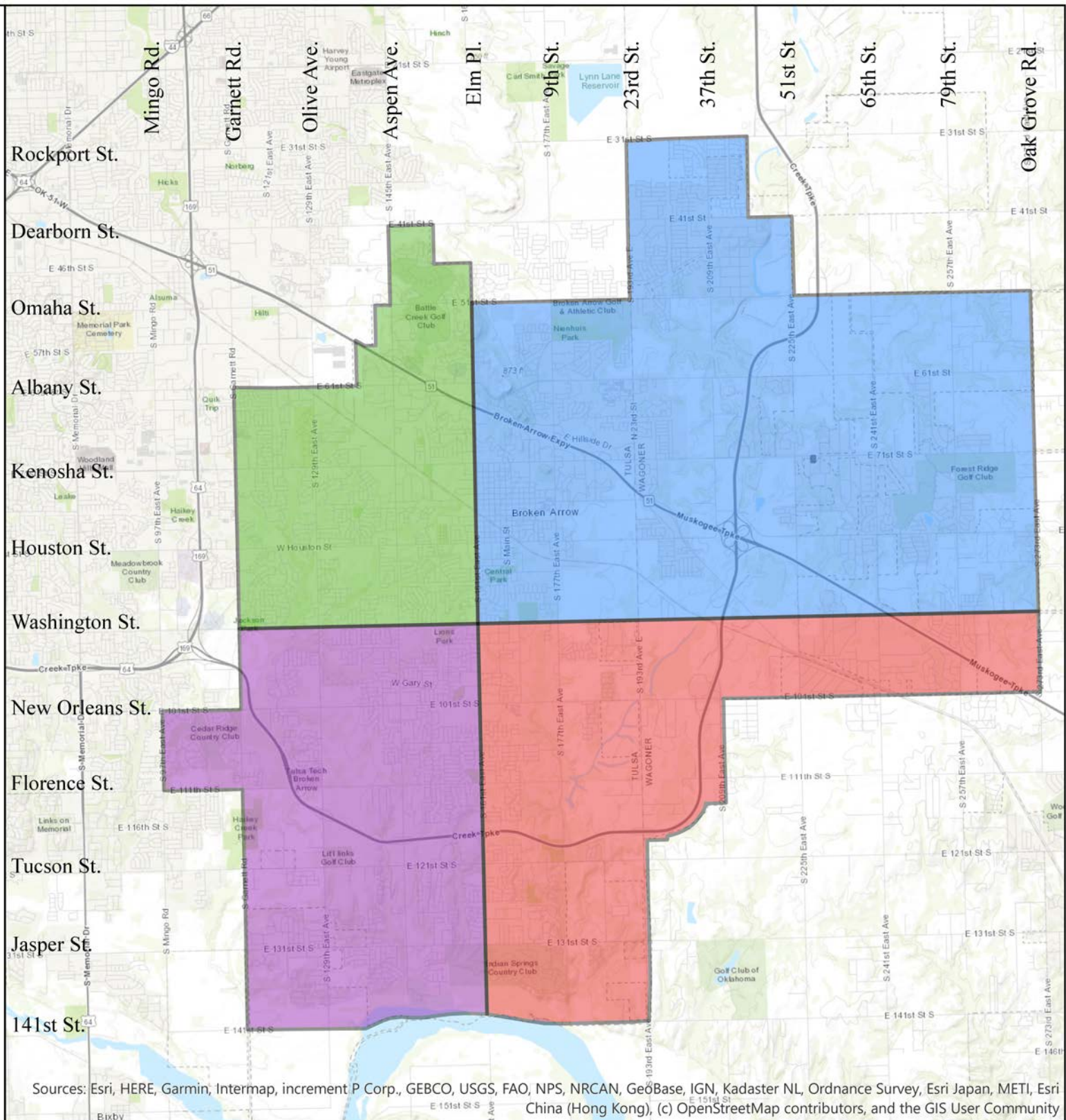
- Tree limbs may be set out with the normal, twice-weekly trash pickup; however, limbs and brush must be cut into 4-foot lengths and tied into 1-foot diameter bundles.
- Call the Action Center at 918-258-3587 to schedule a bulky waste pickup. Bulky pickup occurs weekly and costs depend on the size of the load. Paid bulky pickups will be given first priority over the above free storm debris pickup. Cost is \$36 up to 5 cubic yards and \$75 for 6-15 cubic yards.
- Residents can haul their storm debris to the Waste Management Quarry Landfill, located at 13740 E. 46th St. N. Standard landfill rates will apply.

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**Streets & Stormwater
Storm Debris Pickup
June 2019
Published 5-30-2019**

- NorthEast
- NorthWest
- SouthEast
- SouthWest



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeöBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community



To: Crickett Moore
From: Christina Denton
CC: Rocky Henkel, Kenny Schwab, Krista Flasch
Subject: Streets and Stormwater Department
Date: May 31, 2019

Please include these items in your notes to council for the next meeting:

Severe Weather/Flooding Response

The Streets and Stormwater Department responded to flooding issues that resulted from severe weather event that occurred on May 20, 2019, and has been ongoing since that time. On Sunday May 26, 2019, at approximately 7:00 Am., the Streets and Stormwater Department dispersed a crew of ten (10) individuals, utilizing seventy-seven and a half (77.5) personnel hours. Eight (8) trucks, one (1) Excavator and two (2) saws were utilized while the crew was out monitoring the radio, and responding to down trees, responded to calls from PD, removed storm debris from sidewalks and arterial roadways, provided residents with sand and sand bags, reinstalled street signs, and repaired damaged signal lights. On May 27, twelve (12) personnel worked from 11:00 am. - 4:00 pm. utilizing 60 hours. Six (6) trucks were utilized to bring two (2) loads of sand to the water plant to help protect operations from flood water, and one (1) load of sand to Liberty Trails to replenish the sand for residents to use for sand bags. The remainder of the week all personal worked diligently to remove vegetation storm debris from arterial roadways, sidewalks, and repair damaged traffic signal lights and damaged road signs.

3. SPECIAL EVENTS / ACTIVITIES

