



June 19, 2024

Carl R. Ray, Water and Wastewater Director

111 S. Ranney St.

Craig, CO 81625

Carl;

On June 12, 2024, at approximately 1:00 pm, our water distribution system experienced an apparent pressure event of unknown origin that caused concurrent water main breaks in the 800 block of Colorado Street, the 900 block of Sloan Circle, and on East 9th Street at Colby Circle. Distribution staff was in the midst of placing a pressure reducing valve (PRV) on 12th Street at Lincoln Street at the time, which was an urgent matter as it stood. A portion of staff was able to leave that site and assess the water main breaks and get water mains valved off to stop water loss. Doing so led to a widespread water outage.

While staff continued to install the PRV so that water service in the area could be restored, other staff members began excavation of water main breaks. A lone water main break can be cumbersome, but having 3 of them concurrently was a massive undertaking.

The workday continued until 11:00 pm, and then resumed early the next day, with staff making repairs and returning water service in the individual areas as they progressed. By 7:00 pm on June 13th, all main breaks had been repaired, and service had been restored to all affected customers.

I was impressed with the amount of work staff accomplished under stressful circumstances, and proud of the diligence they showed in doing so. Without the help of so many of our Distribution, Water and Wastewater staff, the process would have been overwhelming. I want to recognize the efforts of all our staff involved in making the repairs:

Dustin Willey, Distribution and Collection Foreman

Matt Lanning, Distribution Tech

Lane Gonzalez, Distribution Tech

James Rogers, Distribution Tech

Tim Kulp, Water and Wastewater Maintenance Tech

Todd Smilanich, Wastewater Operator

Aaron Resch, Wastewater Operator

Margaret Hurst, Wastewater Operator

We are blessed to have staff members across our departments that are so dedicated and willing to lend a hand under difficult circumstances. The citizens of our city are fortunate to have competent staff members in place to address urgent situations like this. I am proud to work alongside each of them and want to recognize them for their work during this time.

Regards,

Gerard Geis

Water Treatment and Distribution Manager

Water Department Monthly Report
May, 2024

Operations

1. During monthly operations, the Water Plant remained in compliance with both federal and state water quality and reporting requirements.
2. Distribution systems pressures and flows met the needs of fire suppression and consumer needs.
3. We continue to gather information to identify service lines for the Lead Service Line Inventory.

Maintenance and Improvements

1. Water Plant and Distribution staff performed required maintenance tasks throughout the month.
2. Staff performed tasks at Elkhead Reservoir that include routine maintenance as well as controlled release changes to accommodate run-off.
3. Distribution staff repaired 1 water main break in a problematic area of 7th Avenue West and completed 3 hydrant repairs. They continued the process of unidirectional flushing and also hosted a Kennedy Fire Hydrant Training session.

Water Production Statistics

Effluent Total Flow (gallons)	41,767,000
Backwash Total Flow (gallons)	1,234,400
Total Gallons	43,001,400

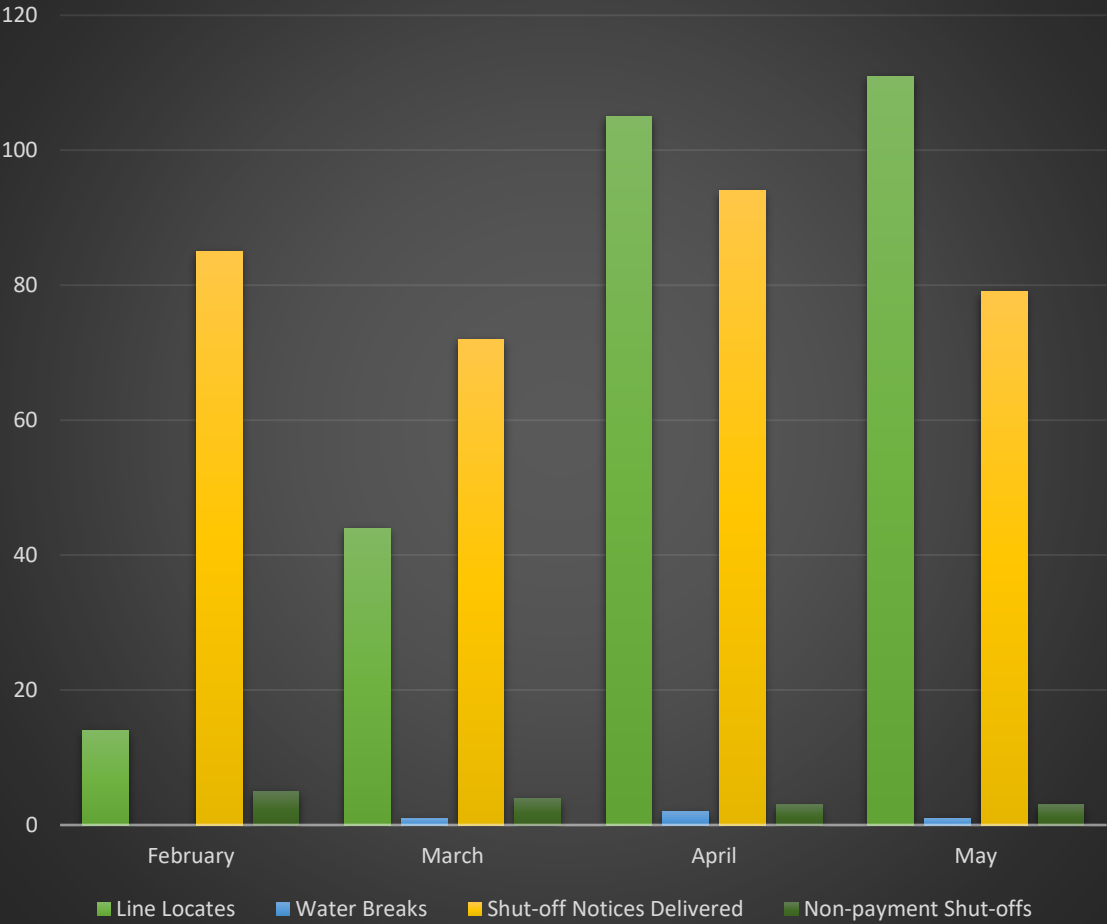
Total Chemical Cost	\$16,772.47
Total Chemical Cost/MG	\$390.05
ACH and Soda Ash Cost/MG*	\$203.96

Backwash % of Total Flow = 2.960%

Average Daily Production = 1,592,644

ACTIVITY	May, 2024	YTD
Distribution System Operation		
Line Locates	111 (55.5 Man Hrs)	288 (144 Man Hrs)
Hydrants Flushed	21	42
Valves Worked	36	86
Service Turn On/Offs	14	56
Distribution System Maintenance		
Water Breaks	1 - 7th Ave W	5
Service Line Repairs	-	6
Meters Replaced	3 Upgrade / 1 Frozen	22 Upgrades / 8 Frozen
MXUs Replaced	5	21
Hydrant Repairs	3 - Victory & Breeze, Victory & Taylor, N Yampa	5
Taps	-	0
Other		
Final Reads	24	72
Shut Off Notices Delivered	79 (3.95 Man Hrs)	346 (17.3 Man Hrs)
Non-Payment Shut Offs	2	17
Unidirectional Flushing		
Kennedy Hydrant Training		

Distribution Trends



Water Department Monthly Report
June, 2024

Operations

1. During monthly operations, the Water Plant remained in compliance with both federal and state water quality and reporting requirements.
2. Distribution systems pressures and flows met the needs of fire suppression and consumer needs.
3. We continue to gather information to identify service lines for the Lead Service Line Inventory.

Maintenance and Improvements

1. Water Plant and Distribution staff performed required maintenance tasks throughout the month.
2. Staff performed tasks at Elkhead Reservoir that include routine maintenance as well as controlled release changes to accommodate run-off.
3. Distribution staff, with assistance from Water and Wastewater staff, made repairs to 3 significant water main breaks that occurred simultaneously. The cause of the breaks is still unknown. (see attached letter of recognition).
4. Distribution staff installed a Pressure Reducing Valve at the intersection of 11th Street and Lincoln Street to remedy pressure zone issues.

Water Production Statistics

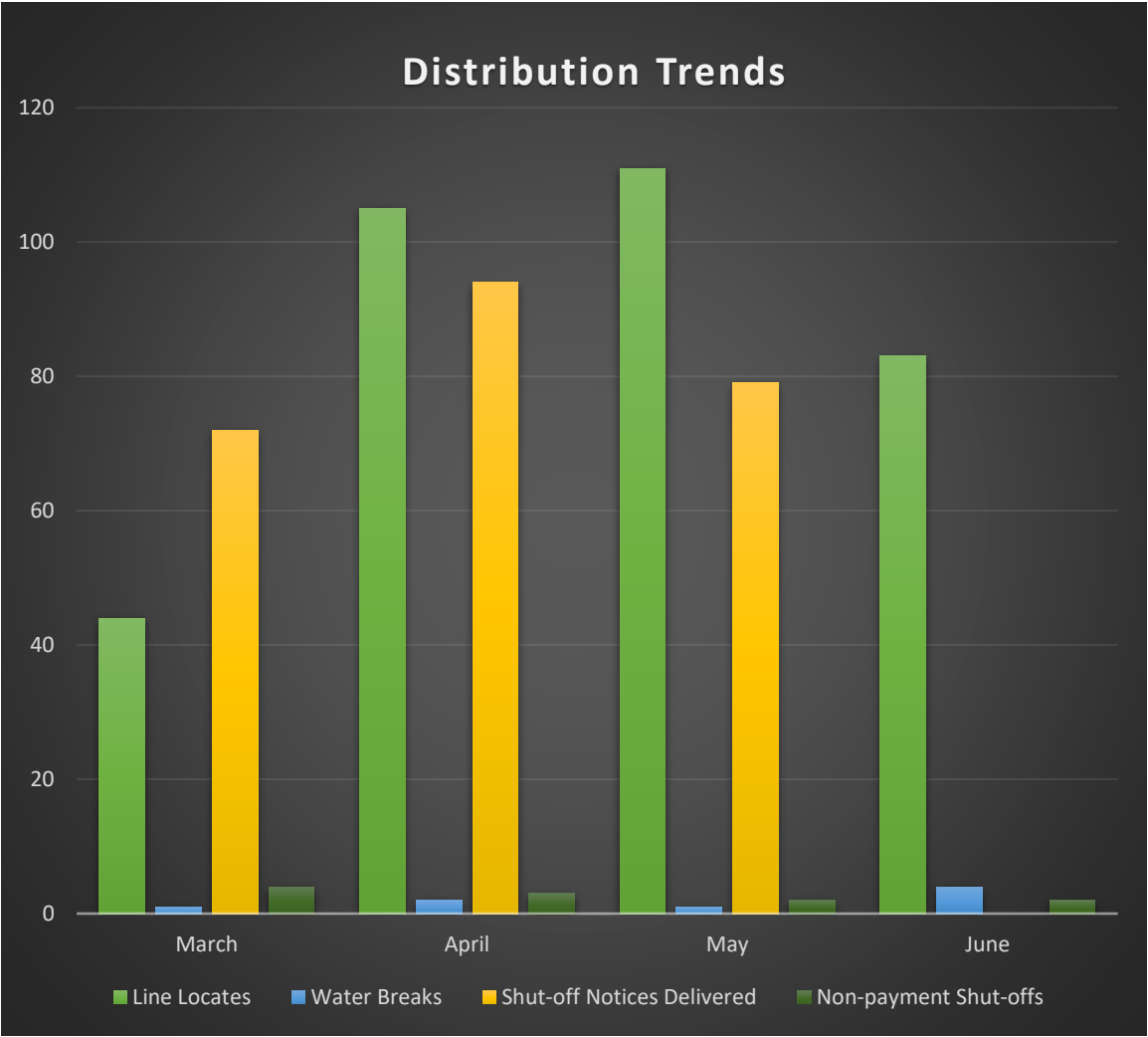
Effluent Total Flow (gallons)	81,795,000
Backwash Total Flow (gallons)	1,956,500
Total Gallons	83,751,500

Total Chemical Cost	\$32,841.12
Total Chemical Cost/MG	\$392.12
ACH and Soda Ash Cost/MG*	\$236.11

Backwash % of Total Flow = 2.390%

Average Daily Production = 2,791,717

ACTIVITY	June, 2024	YTD
Distribution System Operation		
Line Locates	83 (41.5 Man Hrs)	371 (185.5 Man Hrs)
Hydrants Flushed	27	69
Valves Worked	33	119
Service Turn On/Offs	34	90
Distribution System Maintenance		
Water Breaks	4 - 1100 Colorado, 800 Colorado, 9th & Colby, Sloan	9
Service Line Repairs	1 - Tennis Courts	7
Meters Replaced	5 Upgrade / 2 Frozen	27 Upgrades / 10 Frozen
MXUs Replaced	4	25
Hydrant Repairs	1 - 9th & Yampa Ave	6
Taps	1 - 8th St Project Irrigation	1
Other		
Final Reads	26	98
Shut Off Notices Delivered	0	346 (17.3 Man Hrs)
Non-Payment Shut Offs	17	34
Unidirectional Flushing		
PRV Install 11th & Lincoln St		



Monthly Report

Wastewater

May, 2024

A. Treatment – Operation:

1. Operated treatment plant to comply with State and Federal regulations.
2. Performed daily, weekly, and monthly maintenance as recommended in the manufacturer's manuals.
3. Treated average of 1,045,000gallons/day of wastewater.
4. Received and treated 10,450 gallons of hauled waste.

B. Collection – Operation:

1. 56 man hours used to perform 111 locates.
2. 36 man hours used to hydraulically clean 0.75 miles of sewer main as part of routine (every 5 weeks) maintenance.
3. 58.5 man hours used to hydraulically clean 2.85 miles of sewer main as part of an annual cleaning program.

c. Collection – Correction

1. 1 man hour used to respond to a backup complaint at 767 Breeze St. Homeowner reported slow drains. The main was inspected and found to be flowing well. The main was hydraulically cleaned and encountered no obstruction. Determined to be homeowner's issue.

D. Other:

1. Assisted other departments, local plumbers, and contractors as needed.
2. Analyzed Maybell's Wastewater Plant monthly samples.

Monthly Report

Wastewater

June, 2024

A. Treatment – Operation:

1. Operated treatment plant to comply with State and Federal regulations.
2. Performed daily, weekly, and monthly maintenance as recommended in the manufacturer's manuals.
3. Treated average of 1,000,000 gallons/day of wastewater.
4. Received and treated 11,000 gallons of hauled waste.
5. Biosolids are drying in preparation of land application.

B. Collection – Operation:

1. 42 man hours used to perform 83 locates.
2. 36 man hours used to hydraulically clean 0.75 miles of sewer main as part of routine (every 5 weeks) maintenance.
3. 72 man hours used to hydraulically clean 3.62 miles of sewer main as part of an annual cleaning program.

c. Collection – Correction

1. 1 man hour used to respond to a backup complaint at 573 Barclay St. Local plumber called it in and reported slow drains. Operator inspected main and found it to be flowing well. For good measure, operator hydraulically cleaned the line and encountered no obstructions. Determined to be homeowner's issue.

D. Other:

1. Assisted other departments, local plumbers, and contractors as needed.
2. Analyzed Maybell's Wastewater Plant monthly samples.

RH Borden Priority List - May 2024

Location	Priority	Corrective Action	Date	RH Borden Notes	Manhole #s	Operator Notes	Man Hours	Operators	Approx Footage
Colorado/Victory		Jetted	5/5/2024		N150-N151	BU Complaint Video Inspect	4	JS/TS/MH	250
6th/Barclay	Black/Block	Jetted	5/10/2024	659 10/11/23	B86-B87		2.5	MH/JS	650
Steele/W 8th	Red/Poor	Jetted	5/10/2024	281ft 10/10/23	C66-C67	Sand	2	JS/MH	300
Steele/9th	Red/Poor	Jetted	5/10/2024	419ft 10/10/23	C69-C70		2	JS/MH	400
W. 8th/Steele	Yellow/Fair	Jetted	5/10/2024	410ft 10/10/23	C67-C69		2	JS/MH	400
East Kum & Go		Jetted	5/10/2024		P2-P3	Blocked	1.5	JS/MH	300
8th/ Steele		Jetted	5/10/2024		C68-C71		1	JS/MH	250
8th/ Steele		Jetted	5/10/2024		C67-C68		1	JS/MH	300
Steele/9th		Jetted	5/10/2024		C68-C70		1	JS/MH	300
Barclay/10th	Red/Poor	Jetted	5/11/2024	498ft 10/11/23	B92-B93		1.5	JS	450
Barclay/10th		Jetted	5/11/2024		B92-B93	B-U Complaint	1.5	JS	450
6th/Taylor	Black/Block	Jetted	5/12/2024	662ft 10/11/23	B98-B100		2	JS/TS	650
7th/Ranney	Black/Block	Jetted	5/13/2024	663ft 10/10/23	B101-B102		2	TS/AR	350
9th/Ashley	Black/Block		5/13/2024	377/10/5/23	P58-P59-P60	Known root issues	2	TS/AR	350
8th/Rose	Black/Block	Inspected- No	5/13/2024	173ft 10/17/23	N127-B124	No connection between MH	0.5	TS	
7th /Russell	Black/Block	Jetted	5/13/2024	303ft 11/1/23	B51-B52		1	TS/AR	275
Ashley/9th		Jetted	5/13/2024		P58-P64	Roots	1	TS/AR	300
Jeremiah	Black/Block	Jetted	5/16/2024	399 10/9/23	P94-P95	Heavy Root 50ft	2	JS/TS	400
Rose/9th		Jetted	5/16/2024		N30-N31		1.5	JS/MH	400
7th/Russell	Black/Block	Jetted	5/20/2024	658ft 11/1/23	B50-B51	Roots	1	TS	650
6h/Russell	Black/Block	Jetted	5/20/2024	422ft 10/18/23	B49-B50a		1	TS	500
9th/Yampa	Black/Block	Jetted	5/21/2024	314ft	B58-B59-B60		2	TS/AR	500
7th/Yampa	Black/Block	Jetted	5/21/2024	669ft 11/1/23	B55-B56		2	TS/AR	650
6th/Yampa	Black/Block	Jetted	5/21/2024	518ft 10/17/23	B54-B55	Sand	2	TS/AR	600
5th/Yampa	Black/Block	Jetted	5/21/2024	361ft 10/17/23	B53-B54	Sand	2	TS/AR	400
Yampa/16th	Red/Poor	Jetted	5/21/2024	303 10/16/23	M37-M38	Sand	2	TS/AR	350
Yampa/15th	Red/Poor	Jetted	5/21/2024	334ft 10/16/23	M36-M37	Sand	2	TS/AR	300
Yampa/14th	Red/Poor	Jetted	5/22/2024	410ft 10/16/23	M29-M31-M33-M35	Sand/Roots	4	TS/AR	800
Ranney/7th	Red/Poor	Jetted	5/24/2024	615ft 10/11/23	B100-B100A	Roots	1	TS/AR	650
Pershing/8th	Red/Poor	Jetted	5/24/2024	406ft 10/10/23	B102-B103	Roots	1	TS/AR	450
Taylor/5th	Red/Poor	Jetted	5/24/2024	491ft 10/11/23	B85-B86		1	AR	500
9th/Tucker	Black/Block	Jetted	5/28/2024	595ft 10/17/23	N184-N186	Roots	2	TS/AR	600
7th/ Tucker	Black/Block	Jetted	5/28/2024	658ft 10/18/23	B115-B116		1	TS/AR	600
8th/Yampa	Black/Block	Jetted	5/28/2024	345ft/11/1/23	B57-B58		1	TS/AR	300
8th/Yampa	Black/Block	Jetted	5/28/2024	305ft 11/1/23	B56-B57		1	TS/AR	350
Green/8th	Red/Poor	Jetted	5/28/2024	497ft 10/10/23	C49-C49.5		1	TS/AR	350
Breeze/7th		Jetted	5/29/2024		B66-B67	B-U Complaint	1.5	JS/MH	450
Trouble Spots		Jetted					36		5350

96.5

Hours

Totals

15,725

Feet

Completed Percentages

29.30%

14.70%

1.22%

RH Borden Priority List - June 2024

Location	Priority	Corrective Action	Date	RH Borden Notes	Manhole #s	Operator Notes	Man Hours	Operators	Approx Footage
2nd/Ranney		Jetted	6/3/2024		B5-B6		1.5	JS/AR	200
2nd/Ranney		Jetted	6/3/2024		B4-B5		1.5	JS/AR	400
2nd/Ranney		Jetted	6/3/2024		B3-B4		1.5	JS/AR	450
Steele/Victory	Red/Poor	Jetted	6/5/2024	182ft 10/11/23	C9-C10		1	TS/AR	160
Marianna Way	Red/Poor	Jetted	6/5/2024	331ft 10/3/23	D7-D9	Grease	1	TS/AR	330
Tucker/4th	Red/Poor	Jetted	6/5/2024	498ft 10/31/23	B27-B33		2	JS/MH/AR/TS	500
Steele/Victory		Jetted	6/5/2024		C9-C17		1	TS/AR	160
Barclay/5th	Red/Poor	Jetted	6/7/2024	420ft 10/17/23	B81-B82	B81-B83	2	JS	800
Steele/W. 3rd	Red/Poor	Jetted	6/10/2024	99ft 10/31/23	C5-North	Heavy Flow/Clear	1	AR/MH	350
Rose/7th	Red/Poor	Jetted	6/10/2024	645ft 10/18/23	B121-B122	Clear	1	AR/MH	600
Rose/6th	Red/Poor	Jetted	6/10/2024	589 10/18/23	B120-B121	Light Sand	1	AR/MH	650
Rose/5th	Red/Poor	Jetted	6/11/2024	540 10/18/23	B119-B120	Light Debris	1	AR/MH	550
Post Office/Pershing	Yellow/Fair	Jetted	6/12/2024	264ft 10/11/23	C36-C37		2	AR/MH	275
4th/Ranney	Black/Block	Jetted	6/18/2024	520ft 10/31/23	B14-B15	Jet/video	4	MH/TS/AR	500
6th/Legion	Black/Block	Jetted	6/18/2024	443 10/19/23	N19-N85	Possible Roots/Video	2	MH/AR	450
Legion/5th	Red/Poor	Jetted	6/18/2024	595ft 10/19/23	N158-N19	Roots	1	AR/MH	600
Tucker/7th	Red/Poor	Jetted	6/18/2024	575ft 10/18/23	B116-B117	Light Sand	1	AR/MH	550
Tucker/5th	Red/Poor	Jetted	6/18/2024	542ft 10/18/23	B114-B115	Light Sand	1	AR/MH	550
Park Ct./ Lenox	Yellow/Fair	Jetted	6/18/2024	411ft 9/11/23	K46-K49	Roots	1	AR/MH	400
Green/7th	Red/Poor	Jetted/Vac	6/19/2024	330ft 11/1/23	C38-C39	Sand /Debris	2	AR/MH	520
Steele/W 4th - East	Red/Poor	Jetted	6/19/2024	231ft 11/1/23	C7-C8		1	AR/MH	250
West dr (car wash)	Red/Poor	Jet/Vac	6/19/2024	238ft 10/2/23	G39-G40	Heavy Sand	1	AR/MH	250
Center/Hwy40	Red/Poor	Jet/Vac	6/20/2024	162ft 10/30/23	R20-R21	Heavy Debris	2	AR/MH	350
Westridge/Crescent	Yellow/Fair	Jetted	6/20/2024	318ft 10/10/23	K19-K21		1	AR/MH	625
Mcroy/Hwy40	Red/Poor	Jetted	6/24/2024	281ft 11/1/23	P100-P71		1	TS/AR	300
1st/Commerce	Yellow/Fair	Jetted	6/24/2024	590ft 9/14/23	J31-J39		2	AR/MH	600
4th/Yampa	Black/Block	Jetted	6/25/2024	501 10/31/23	B23-B63		2.5	TS/AR/MH	500
4th/Taylor	Black/Block	Jetted/Vac	6/25/2024	497ft 10/31/23	B17-B39	Sand	2	TS/MH/AR	500
Barclay/4th	Red/Poor	Jetted	6/25/2024	498ft 10/31/23	B21-B38		2.5	JS/TS/MH/AR	500
School/4th	Red/Poor	Jetted	6/25/2024	502ft 10/31/23	B22-B37		2.5	TS/AR/MH	500
4th/Yampa	Yellow/Fair	Jetted	6/25/2024	352ft 10/31/23	B23-B24		2	TS/MH/AR	350
4th/Breeze	Yellow/Fair	Jetted	6/25/2024	326ft 10/31/23	B21-B22		1	TS/MH/AR	350
4th/Taylor	Yellow/Fair	Jetted	6/25/2024	170ft 10/31/23	B17-B18	Sand	1	TS/MH/AR	200
4th/Yampa		Jetted	6/25/2024		B23-B30		2.5	TS/MH/AR	600
4th/Breeze		Jetted	6/25/2024		B22-South	Roots	2.5	TS/JS/AR/MH	600
4th/School		Jetted	6/25/2024		B21-South		2.5	TS/AR/MH/JS	550
4th/Barclay		Jetted	6/25/2024		B18-B21		2	JS/AR	350
4th /Barclay		Jetted	6/25/2024		B18-B19		1.5	JS/AR	500
4th/Barclay - West		Jetted	6/25/2024		B19-East		1	JS/AR	125
Steele/Industrial	Red/Poor	Jetted/Vac	6/27/2024	311ft 10/11/23	C6A-C7	Sand	2	TS	300
Hwy40/E Victory	Red/Poor	Jetted/Vac	6/27/2024	1038ft 10/19/23	P4-P7	Sand	3	TS	1000
Trouble Spots		Jetted					36		5350

104		23,645
Hours	Totals	Feet

Completed Percentages
6.90%
29.41%
8.54%