BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

Michele Goad,	)	
	)	
Complainant,	)	
	)	
v.	)	File No. WC-2023-0142
	)	
Missouri-American Water Company,	)	
	)	
Respondent.	)	

MISSOURI-AMERICAN WATER COMPANY'S
RESPONSE TO STAFF'S REPORT AND RECOMMENDATION

COMES NOW the Respondent, Missouri-American Water Company ("MAWC" or "Company) and for its Response to Staff's Report and Recommendation, respectfully states as follows:

1. Ms. Goad filed a formal complaint ("Complaint") with the Commission on October 25, 2022.
2. On November 28, 2022, the Company until November 28, 2022 to file its Answer. This filing complies with that Order.
3. On February 21, 2023, the Staff of the Commission filed its Staff Report and Recommendation.
4. The Commission granted the Company's Request for Extension of Time to File a Response until April 24, 2023.
5. Please find the Company's Response to Staff's Report and Recommendation attached and incorporated herein as Appendix A.

WHEREFORE, MAWC submits this Response to the Commission for consideration and any other relief it deems appropriate or just.

Respectfully submitted,

MISSOURI-AMERICAN WATER COMPANY
/s/ Rachel L. Niemeier
Tim Luft, #40506
Rachel Niemeier, #56073
Corporate Counsel
Missouri-American Water Company
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St. Louis, MO 63141
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CERTIFICATE OF SERVICE

The undersigned certifies that a true and correct copy of the foregoing document was sent by electronic mail or U.S. Mail on April 24, 2023, to the following:

Office of the Staff Counsel
Governor Office Building
Jefferson City, MO 65101
staffcounselservice@psc.mo.gov

Office of the Public Counsel
Governor Office Building
Jefferson City, MO 65101
opcservice@opc.mo.gov

Ms. Michele Goad
8407 Eulalie Ave
St. Louis, MO 63144
michele.goad@gmail.com

/s/ Rachel L. Niemeier

MEMORANDUM in RESPONSE TO STAFF'S RECOMMENDATION
Goad v. Missouri-American Water Company
Case No. WC-2023-0142

PROCEDURAL BACKGROUND

On October 25, 2022, Complainant, Michele Goad ("Ms. Goad" or "Complainant") filed a Complaint with the Missouri Public Service Commission ("Commission") regarding a main break that occurred at or near her property located at 8407 Eulalie Ave, St. Louis, MO. On November 28, 2022, Missouri-American Water Company ("MAWC" or "Missouri-American") filed its Answer to the Complaint. On February 21, 2023, the Staff of the Commission ("Staff") filed Staff's Report and Recommendation ("Staff's Report") in this matter.

Staff's Report concludes "the placement of the speed limit sign in the loose, rocky soil was the most likely cause for the main break … and it likely compromised the integrity of the pipe".[1] Alternatively, Staff further concludes that if the cause of the leak was corrosion, then the corrosion should have been visible to the naked eye when the pipe was exposed a few months earlier during a previous excavation."[2] Staff ends its Report by stating, "Staff believes this failure to maintain the system infrastructure led to a very unsafe situation for the residents and for motorists which is in violation of RSMo 386.310.1 and RSMo 393.130."[3]

On March 6, 2023, the Commission granted MAWC's request for an extension of time to file its response until April 24, 2023. As described below, Staff's conclusions are not supported by the evidence and MAWC did not violate any Commission rule, statute or tariff as alleged in Ms. Goad's Complaint. Further, Ms. Goad is not entitled to any relief from the Commission. The Company establishes an accurate record and analysis of the evidence involved in this case.

SUMMARY OF MAWC'S RESPONSE.

Staff's conclusions are not supported by the facts of this case, including the photographic evidence Staff attached to Staff's Report. The Company provides the Commission and its Staff a timeline of two projects done in proximity to Ms. Goad's property at different times and for different reasons. The first location is identified as Mary Kay Ct. ("Mary Kay Ct.") and involved a scheduled main replacement. The second location, and subject of this complaint, is 8407 Eulalie Ave. ("Eulalie") where a main break occurred on May 19, 2022. MAWC will place the "extensive collection of photographs"[4] in the proper context with the work that was being performed for each project to the best of the Company's ability so that the chronological order is clear. The Company is only providing substantive information on the first project because it appears there is confusion on the Company's activity and it is appropriate to use that project for context. The Complaint involves only the main break in May 2022 and the Company's response to that break.

[1] Staff's Report, p. 7.
[2] *Id.*
[3] *Id.*
[4] Staff's Report, p. 1.

MAWC believes that Staff should reconsider its recommendation because their conclusions are not supported by the evidence Staff relied upon. Further, even if Staff does not reconsider its position, the Commission should determine that MAWC did not violate any statute, Commission Rule or tariff provision in is handling of the water main break at 8407 Eulalie Ave, and further find that Ms. Goad is not entitled to any relief from the Commission.

THE PROJECTS

The water main along Mari Kay Ct. was replaced in late 2021 into 2022. This section of pipe had been considered for replacement for 2 years prior to construction. Multiple factors contributed to it being targeted for replacement including the high number of actual breaks in its history (i.e., five breaks at the time) along the small cul-de-sac roadway, the break rate of 0.56 per 100-ft of pipe, and the high break rate for pipes of the same material and vintage across the system.[5]

On November 15, 2021, MAWC began construction on Mary Kay Ct. using contractor, Bommarito Construction ("Bommarito") as supported by Attachment A. to this Response. On November 19, 2021, Bommarito finished constructing the water main and set a fire hydrant. Bommarito Construction did not return for any construction related activities for the project on Mary Kay C. until June 20, 2022. This lengthy delay to the project was due to materials necessary to complete the project being unavailable.

On May 19, 2022, there was a main break in front of the service address of 8407 Eulalie Ave. This break occurred between the start and finish of the Mary Kay Ct. project and at a different location. The Company repaired the main leak as quickly as possible after it occurred, approximately 4 hours after the main break was first reported.[6] The water main along Eulalie Ave. was previously replaced in 1990 and currently has a low number of actual breaks in its history (i.e., two breaks) and the low break rate for pipes of the same material and vintage across the system; based on these and other values the current main in Eulalie is not targeted for replacement.[7] This demonstrates that the Company did not have prior knowledge of any corrosion in a way that it could prevent this break from occurring. Attachment B attached to this Response details the main replacement.

It is important to carefully analyze the undated pictures that Staff relied on in its investigation and view them in an accurate order to understand the sequence of events before and after the main break. Much of Staff's analysis and conclusions focus on the street sign[8] and Staff's Report goes into great length to identify the amount of mud on the sign in comparison to a cone in the pictures to support this theory that the sign was reinstalled incorrectly and caused the main break that started this Complaint.[9] Staff concludes, "While the Company claims that it did not dig in the area of the street sign, it is apparent from the photographs that work was performed there and that the sign, which had been there prior to the excavation was removed and replaced." Staff's

[5] MAWC's Response to Staff DR 15.
[6] MAWC's Response to Staff DR 06.
[7] MAWC's Response to Staff DR 16.
[8] Staff Report, pp. 4-6.
[9] Staff Report, Attachment F.

focus on the street sign creates inaccurate conclusions based on the facts involved in this Complaint case. MAWC did not move or replace the street sign until it was pushed out of its location as a result of the main break in August. The Company's work on the Mary Kay Ct. project did not involve the street sign and was not close to the street sign's location.

In preparation for this Response, MAWC employees have reviewed the undated photographs closely to put them in the proper context so the parties and the Commission can better understand what occurred in this area. Staff's Attachment D includes two images – the first one was provided by the Company in response to Data Requests (DRs) and shows a Google Earth image of the area where the main break occurred that is the cause of this Complaint. Staff indicates that it "appears to have been taken in January 2022" and while MAWC did not provide a date it does not dispute that the photograph was taken within that time period.[10] The image MAWC provided clearly shows the trench where the water main for the project on Mary Kay Ct. was installed (to the left of the green trash can) and the street sign undisturbed after construction work started and completed in November of 2021 (to the left of the trench). The picture was taken before the main break in May as there are no signs that a main break has occurred or been addressed near the street sign at the time of the photograph. This supports Staff's January 2022 dating of the image and is reasonable. The image Staff presented in Attachment D, Image 2 is a different view of the residence at a different time, as it has a date of August 2021, which is prior to both the Mary Kay Ct. project and the Eulalie main break. There is no dispute that a sign was present. In both images the street sign is apparent and undisturbed during the time period for the Mary Kay Ct. Project. The sign remained intact after the Mary Kay Ct work in November 2021. The Company did not move it prior to the main break and the pictures do not support that finding.

On May 19, 2022, the water main broke in front of Ms. Goad's house, 8407 Eulalie Ave., St. Louis, MO. When the main broke, it caused the street sign to be moved. This is best demonstrated in Staff's Attachment A, Images 1-4 where the street sign is close to the hole where the main break occurred. This is the first time any contractor or employee of Missouri-American had any reason to touch the sign in order to do their necessary work. When the main broke on May 19, 2022, some of the sidewalk slabs were damaged as a result and were removed. This work is documented in Staff's Attachment C Image 2. This image is undated but it clearly shows the sidewalk area after the main break was repaired, but before any restoration activities had begun. The sign remained on the ground in the area until after restoration activities caused by the main break were complete. As further explained below, Staff's attachment C also shows the location of the sign on the ground during construction activity in June and July of 2022, after the May main break. While it has been placed in close proximity to the prior, yet-unfinished work on Mary Kay Ct. it was placed there as a result of the main break, not the prior project.

On June 30, 2022, Bommarito Construction returned to complete the work on Mary Kay Ct. following a delay of several months while they waited for materials as shown in Attachment A. Over the next several workdays Bommarito transferred customers' services from the old water

[10] Staff Report p. 5.

main on Mary Kay Ct. to the new main that was installed in November. This work is entirely unrelated to the main brake on Eulalie.

On July 15, 2022, Bommarito Construction "retired" the old water main serving Mary Kay Ct. MAWC believes the first undated photo in Staff's Attachment C Image 1 was taken on or near that day because you can see the cones, plywood and steel plate are covering the excavation in preparation to disconnect the old water main. In addition, the tools are staged and you can see the trucks on the street. In this image you can see where the water main broke on May 19, 2022 and is the cause of this Complaint. In this photo, the concrete sidewalk has already been replaced where it was damaged from the water main break. The street sign is laying on the ground in between the work projects and it is there because the part of the street where it belongs is still in the repair phase from the main break. It is not in that location because it is related to the Mary Kay Ct project.

Staff's Attachment E Image 1 shows workers moving the street sign. While this image is not dated, a close analysis is informative to determine a general time period it was taken. This image shows green grass, green trees, flowers, and the workers are in short-sleeve shirts and are dressed for a warmer period of time based on the evidence in this picture. These details demonstrate that the image was not taken in November 2021. The trench where the new water main was installed in November is also visible and appears complete with vehicles and equipment parked over the trench. The next time any workers would have returned to this vicinity was in May when the water main broke. The image does not show water flowing or debris from the break so it does not appear that workers are there to address the main break. This picture was most likely taken just before Attachment C Image 1 described in the prior paragraph, as the workers prepared for the July 15, 2022 work on the Mary Kay Ct. project, after the main break, not before.

The only picture of an exposed water main is found in Staff's Attachment G. MAWC did not provide this image. Without it being dated, it is difficult to ascertain the date it was taken, however MAWC has reviewed Attachment G thoroughly. MAWC believes Staff's Attachment G is a photograph of the water main on Eulalie Ave at the point of connection to the main on Mary Kay Ct. and that image shows a properly installed water main in good condition. Further, the Company believes, based on the steel plate in the top left of the picture that this is a picture of the retirement related to the Mary Kay Ct. project, not the main break on Eulalie. The retirement was in July of 2022, after the May 19, 2022. When asked, Staff did not identify any corrosion in this picture.[11] This contradicts Staff's assertion that the work on Mary Kay Ct. should have lead MAWC to discover the corrosion down the street that cause the main break in May. Staff suggests that if corrosion "was bad enough for the pipe to rupture and leave a "baseball size hole" then Staff

[11] Data Request 31: Staff's conclusion includes, "Staff believes the Company should take the opportunity to check the condition of the exterior of water mains while they are uncovered since the pipes are not able to be seen any other time." Using the image of the water main in Attachment G, please identify any and all visible signs of corrosion or any other deficiency in the main observed by Staff. Please also identify Staff's observations in the photograph that suggest failure to the water main could occur. Staff's response: Staff did not indicate that corrosion was shown in Attachment G. The Company response to Staff DR 3 was, "The field crew indicated that the cause of the leak was corrosion."

concludes that it should have been "visible to the naked eye when the pipe was exposed a few months earlier."[12] This image does not support such a conclusion.

In fact, in addition to Staff's Attachment G demonstrating a main in good condition, without corrosion, polywrap is visible on the 1990 era water main. Polywrap is a corrosion barrier intended to stop or slow the corrosion of buried ductile iron pipe. This image demonstrates a properly installed water main by MAWC construction crews utilizing the best available technology at the time and taking precautions to maximize the useful life of a water main.

Upon investigation into the main break and subject of this Complaint, the crew identified corrosion as the reason the main failed on its leak report.[13] The crew witnessed a hole in a 30-year old pipe after the water was stopped and the main was excavated. This is supported by Confidential Attachment B. There were no other external factors at play when that crew arrived. For example, the crew did not see anyone else digging and breaking the main, and unexplainable failures like this are typically labeled as "corrosion" by MAWC and labeled as such for consideration of future replacement. Breaks are unavoidable and are a part of running a water system. According to the U.S. Environmental Protection Agency, 240,000 occurring annually nationwide.[14] The Company's conclusion in this case is based on the crew's experience and evaluation of the scene, when there are no external reasons it is determined to be "corrosion", as is the case here.

As evidenced above these events took place and two different locations. Failures like the one on Eulalie Ave. are due to conditions specific to that exact location. The excavations performed down the street and information, or conditions observed, in that location would in no way have provided the Company any indication that a water main was likely to fail in the area. Corrosion like this on ductile iron pipe is sporadic in nature and localized. Especially when it has polywrap designed to protect the main from corrosion, like this main does. (See above explanation of Staff's Attachment G.)

To repair the water main at the location of the May 19, 2022 main break, the repair crew replaced three feet of water main by removing the damaged section.[15] Removing only three feet of pipe is a small repair and shows that there was only localized corrosion. If the main was in such poor condition that it should have been detectable fifty or more feet away during the construction project as Staff concludes, one would expect a much larger and more complicated repair. Sometimes 10 to 20 feet of pipe at a time must be removed or replaced to find pipe in good enough condition to install sleeves and a new piece of pipe. Water mains in poor condition often times require the Company to make much larger repairs that take significantly more time than the one involved in this Complaint.

It is clear that the work done on Mary Kay Ct. did not cause the break on 8407 Eulalie Ave. and Staff's focus on the street sign is misplaced. It is clear that MAWC did not have any advance

[12] Staff's Report p. 7.
[13] Company's response to Staff DR 3.
[14] https://www.epa.gov/waterfinancecenter/about-water-infrastructure-and-resiliency-finance-center
[15] Company's response to Staff DR 6.

warning or knowledge that the main would fail. The evidence Staff reviewed does not support Staff's conclusions. MAWC has used the same photographs Staff attached to its Report to demonstrate that the street sign was not moved prior to the main break and that it is not possible that it was the cause of the main break. In fact, it is clear in reviewing Staff's Attachment A that the street sign was pushed out of place during the main break. The main break was caused by corrosion, not a Company employee or contractor. The sign was not touched nor was it disturbed by MAWC until the water main broke.

Even assuming Staff's conclusion that the sign did touch the water main when it was placed in the ground is true, it would be nearly impossible to damage a ductile iron water main with a street sign. The sign is mounted on a metal "u-channel" post. Posts such as this are designed to fail or break away or bend in the event of a vehicle accident. For someone to drive a post like the one on the street sign with enough force to damage the water main would most likely result in a bent or damaged post before the water main would fail. Ductile Iron Pipe has a 42,000 pound per square inch (PSI) yield strength according to the Ductile Iron Pipe Research Association (DIPRA). The water main is also round. Any impact would result in the post deflecting to one side or another unless the post was perfectly centered. And *if* all that was not true, and *if* the post damaged the main, MAWC would expect reports of leaks immediately after the sign was installed, and that did not occur. Staff's Attachment D supports this since the sign was present before and after the work on Mary Kay Ct. There is no evidence MAWC placed that sign or removed it before the main break.

Finally, Staff included the list of damages Ms. Goad provided to Staff as Exhibit G to Staff's Report. This list of damages is irrelevant to this proceeding as the Commission has no authority to award damages to any resident or customer.

CONCLUSION

The Company responded to the main break that occurred at or near 8407 Eulalie Ave. on May 19, 2022 appropriately. MAWC adhered to the applicable statutes, Commission Rules and its tariffs in responding to this matter that occurred on May 19, 2022. There is no evidence to support Staff's assertion that MAWC failed to act appropriately or violated any statutes, tariff or Commission Rules. In fact, the facts relied upon by Staff support the Company's position as demonstrated above. Specifically, MAWC did not fail to maintain its system infrastructure and MAWC's actions did not lead to a "very unsafe situation" for the residents and for motorist in violation of Section 386.310.1 RSMo and 393.130 RSMo, as concluded in Staff's Report. Ms. Goad is not entitled to relief from the Commission based on her desire to obtain damages as a result of this Complaint.

Attachment A
WC-2023-0142
PUBLIC

INSPECTOR'S DAILY LOG – Contractor Lay Jobs

PROJECT NAME: Macy Kay Ct
DATE: 11-15-21 mon
REPORT # _____ OF _____
Weather: Sunny
PROJECT #: WBS R17-02R2.16-P0081
INSPECTOR: INP Paul Caldwell HRS: 10
INSPECTOR: _____ HRS: _____
Hours Worked: 7Am-5pm AM-PM
Hours Worked: _____ AM-PM

Work Force:

Employee/Title	With	Equipment	Hours Worked: Total/AM-PM
Jasan Foreman	Bommerillo	Truck	7Am-5pm
2 Laborers	Bommeritta	Truck	7Am-5pm
2 Operators	Bommeritta	Excavator-Skid	7Am-5pm

Materials Delivered @ Site:

QTY.	SIZE	MAKE	TYPE	CLASS	DESC.

Remarks/Problems:

Caught Jasan Turning Valves to pressurize unrestrained Main Reported to bob, Caught Jasan dumping concrete slurry down Storm drain on Newcastle

Work Accomplished:

Daily Footage: 100'

Valves/Fittings Laid: Drug pattern tap, Set pattern tap sleeve, tapped Old main Laid 100' 8" PVC

_____ Customers notified @ _____ AM/PM For shutdown @ _____ AM/PM For ____ HRS.

_____ FRCC Notified (618-239-3227) Hydrants _____ Called "out" @ _____ AM/PM Called "In" @ _____ AM/PM

- ☐ Checked As Built
- ☐ Esmt/R/W/Street C Staked
- ☐ Rock Ticket Filled Out
- ☐ Site to Grade or Staked
- ☐ Material Delivery Tickets
- ☐ Fire Hydrant Ticket Signed by Developer & Fire Chief
- ☐ FRCC & DLCC (St. Louis) Notified
- ☐ Sewers in or Staked
- ☐ Hyd. Caps Painted
- ☐ Hyd. Wrapped in Plastic
- ☐ Point Sheet Received from Surveyor
- ☐ Valve Location
- ☐ Valve Exercised for Shutdown
- ☐ Fitting Location
- ☐ Main Location
- ☐ Scheduled Pat Tap w/Const. Dept. (IF REQD.)

Surveying By: _____

INSPECTOR: _____

Attachment A
WC-2023-0142 PUBLIC

INSPECTOR'S DAILY LOG – Contractor Lay Jobs

PROJECT NAME: Mari Kay
REPORT # _____ OF _____
PROJECT #: WBS R17-02R2.18-P-00081

DATE: 11-16-22 tue.
Weather: Sunny
INSPECTOR: INP Paul Caldwell HRS: 11
INSPECTOR: _____ HRS: _____
Hours Worked: 7Am- 6pm AM-PM
Hours Worked: _____ AM-PM

Work Force:

Employee/Title	With	Equipment	Hours Worked: Total/AM-PM
Jason Foreman	Bommeritto	Truck	7Am-6pm
3 Laborers	Bommeritto	Truck	7Am-6pm
2 Operators	Bommeritto	Excavator / Skidster	7Am-6pm

Materials Delivered @ Site:

QTY.	SIZE	MAKE	TYPE	CLASS	DESC.

Remarks/Problems:
Setlane drop, Handdug utilitys, Laid 140' PVC, Only had 2 trucks,

Work Accomplished:
Daily Footage: 140 8" PVC
Valves/Fittings Laid:

_____ Customers notified @ _____ AM/PM For shutdown @ _____ AM/PM For ____ HRS.

_____ FRCC Notified (618-239-3227) Hydrants _____ Called "out" @ _____ AM/PM Called "in" @ _____ AM/PM

- ☐ Checked As Built
- ☐ Esmt/R/W/Street C Staked
- ☐ Rock Ticket Filled Out
- ☐ Site to Grade or Staked
- ☐ Material Delivery Tickets
- ☐ Fire Hydrant Ticket Signed by Developer & Fire Chief
- ☐ FRCC & DLCC (St. Louis) Notified
- ☐ Sewers in or Staked
- ☐ Hyd. Caps Painted
- ☐ Hyd. Wrapped in Plastic
- ☐ Point Sheet Received from Surveyor
- ☐ Valve Location
- ☐ Valve Exercised for Shutdown
- ☐ Fitting Location
- ☐ Main Location
- ☐ Scheduled Pat Tap w/Const. Dept. (IF REQD.)

Surveying By: _____

INSPECTOR: _____

INSPECTOR'S DAILY LOG – Contractor Lay Jobs

PROJECT NAME: Mari Kay Ct
REPORT # _____ OF _____
PROJECT #: WBS R17-0282-18-P-0081

DATE: Wednesday 11-17-2021
Weather: Clear
INSPECTOR (INP) Gary Fritz HRS: 9.5
INSPECTOR: _____ HRS: _____
Hours Worked: 7:00AM - 4:30 AM-PM
Hours Worked: _____ AM-PM

Work Force:

Employee/Title	With	Equipment	Hours Worked: Total/AM-PM
JASON - FORMAN	Boomarito	1-CREW-TRUCK	7:00 am 5pm
3 LABORS	Boomarito	1-SKID LOADER	7:00 AM 5 pm
2 - OPERATORS	Boomarito	1-EXCAVATOR	7:00 AM 5pm

Materials Delivered @ Site:

QTY.	SIZE	MAKE	TYPE	CLASS	DESC.

Remarks/Problems:

Work Accomplished:

Daily Footage: Laid - 200' - 6" 900 - PVC
Valves/Fittings Laid: Backfilled & general Cleanup

_____ Customers notified @ _____ AM/PM For shutdown @ _____ AM/PM For ____ HRS.

_____ FRCC Notified (618-239-3227) Hydrants _____ Called "out" @ _____ AM/PM Called "In" @ _____ AM/PM

- ☐ Checked As Built
- ☐ Esmt/R/W/Street C Staked
- ☐ Rock Ticket Filled Out
- ☐ Site to Grade or Staked
- ☐ Material Delivery Tickets
- ☐ Fire Hydrant Ticket Signed by Developer & Fire Chief
- ☐ FRCC & DLCC (St. Louis) Notified
- ☐ Sewers in or Staked
- ☐ Hyd. Caps Painted
- ☐ Hyd. Wrapped in Plastic
- ☐ Point Sheet Received from Surveyor
- ☐ Valve Location
- ☐ Valve Exercised for Shutdown
- ☐ Fitting Location
- ☐ Main Location
- ☐ Scheduled Pat Tap w/Const. Dept. (IF REQD.)

Surveying By: _____

INSPECTOR: [signature]

Attachment A
WC-2023-0142
PUBLIC

INSPECTOR'S DAILY LOG – Contractor Lay Jobs

PROJECT NAME: Mari Kay CT
REPORT #_____ OF _____
PROJECT #: WBS R17-02B2.18-P-0081

DATE: 11-18-21 Thur
Weather: Sunny
INSPECTOR: SND Paul Caldwell HRS: 9
INSPECTOR:_____ HRS:_____
Hours Worked: 7Am-4pm AM-PM
Hours Worked:_____ AM-PM

Work Force:

Employee/Title	With	Equipment	Hours Worked: Total/AM-PM
Jason Foreman	Bonnecitta	Truck	7Am-4pm
2 Laborers	Bonnecitta	Truck	7Am-4pm
2 Operator	Bonnecitta	Excavator/Skidsteer	7Am-4pm

Materials Delivered @ Site:

QTY.	SIZE	MAKE	TYPE	CLASS	DESC.

Remarks/Problems:

Work Accomplished:

Daily Footage: 34' DIP 8"
Valves/Fittings Laid: Set Lane drop dug cross block set Solid Sleave, set 90° Bend, 8"x6" Tee, Set Valve, and Hydrant, set plates

_____ Customers notified @_____ AM/PM For shutdown @_____ AM/PM For____ HRS.

_____ FRCC Notified Hydrants_____ Called "out" @_____ AM/PM Called "in" @_____ AM/PM
(618-239-3227)

- ☐ Checked As Built
- ☐ Esmt/R/W/Street C Staked
- ☐ Rock Ticket Filled Out
- ☐ Site to Grade or Staked
- ☐ Material Delivery Tickets
- ☐ Fire Hydrant Ticket Signed by Developer & Fire Chief
- ☐ FRCC & DLCC (St. Louis) Notified
- ☐ Sewers in or Staked
- ☐ Hyd. Caps Painted
- ☐ Hyd. Wrapped in Plastic
- ☐ Point Sheet Received from Surveyor
- ☐ Valve Location
- ☐ Valve Exercised for Shutdown
- ☐ Fitting Location
- ☐ Main Location
- ☐ Scheduled Pat Tap w/Const. Dept. (IF REQD.)

Surveying By:_____

INSPECTOR: [signature]

Attachment A
WC-2023-0142
PUBLIC

INSPECTOR'S DAILY LOG – Contractor Lay Jobs

PROJECT NAME: Mari Kay Ct
REPORT # _____ OF _____
PROJECT #: WBS R17-0282.18-P-0081

DATE: 11-19-21
Weather: Sunny
INSPECTOR: IDP Paul Caldwell HRS: 8
INSPECTOR: _____ HRS: _____
Hours Worked: 7Am-3pm AM-PM
Hours Worked: _____ AM-PM

Work Force:

Employee/Title	With	Equipment	Hours Worked: Total/AM-PM
Jason Foreman	Bonnecitto	Truck	7Am-3pm
2 Laborers	Bonnecitto	Truck	7Am-3pm
2 Operators	Bonnecitto	Excavator/skidster	7Am-3pm

Materials Delivered @ Site:

QTY.	SIZE	MAKE	TYPE	CLASS	DESC.

Remarks/Problems:

Work Accomplished:

Daily Footage:

Valves/Fittings Laid: Set Lane drop, poured crossblock, and thrust Block, Set Hydrant and Clean up

_____ Customers notified @ _____ AM/PM For shutdown @ _____ AM/PM For ____ HRS.

_____ FRCC Notified (618-239-3227) Hydrants _____ Called "out" @ _____ AM/PM Called "in" @ _____ AM/PM

- ☐ Checked As Built
- ☐ Esmt/R/W/Street C Staked
- ☐ Rock Ticket Filled Out
- ☐ Site to Grade or Staked
- ☐ Material Delivery Tickets
- ☐ Fire Hydrant Ticket Signed by Developer & Fire Chief
- ☐ FRCC & DLCC (St. Louis) Notified
- ☐ Sewers In or Staked
- ☐ Hyd. Caps Painted
- ☐ Hyd. Wrapped in Plastic
- ☐ Point Sheet Received from Surveyor
- ☐ Valve Location
- ☐ Valve Exercised for Shutdown
- ☐ Fitting Location
- ☐ Main Location
- ☐ Scheduled Pat Tap w/Const. Dept. (IF REQD.)

Surveying By: _____

INSPECTOR: _____

Attachment A
WC-2023-0042

INSPECTOR'S DAILY LOG – Contractor Lay Jobs

~~Friday~~ Thursday

PROJECT NAME: Mari Kay Court
DATE: 6-30-22
REPORT # _____ OF _____
Weather: clear
PROJECT #: WBS R17-02B2.21-P-0453
INSPECTOR: Joe Kingry HRS: 3
INSPECTOR: _____ HRS: _____
Hours Worked: 12:00 / 3:00 AM-PM
Hours Worked: _____ AM-PM

Work Force:

Employee/Title	With	Equipment	Hours Worked: Total/AM-PM
Morgan	Bommarito	Excavator	7:00 / 3:00
1 operator		Mini-Ex	
2 Laborers		Dump Truck	

Materials Delivered @ Site:

QTY.	SIZE	MAKE	TYPE	CLASS	DESC.

Remarks/Problems: Dig th prep for Service Installation.

Work Accomplished:

Daily Footage:
Valves/Fittings Laid:

_____ Customers notified @ _____ AM/PM For shutdown @ _____ AM/PM For ____ HRS.

_____ FRCC Notified (618-239-3227) Hydrants _____ Called "out" @ _____ AM/PM Called "In" @ _____ AM/PM

- ☐ Checked As Built
- ☐ Esmt/R/W/Street C Staked
- ☐ Rock Ticket Filled Out
- ☐ Site to Grade or Staked
- ☐ Material Delivery Tickets
- ☐ Fire Hydrant Ticket Signed by Developer & Fire Chief
- ☐ FRCC & DLCC (St. Louis) Notified
- ☐ Sewers in or Staked
- ☐ Hyd. Caps Painted
- ☐ Hyd. Wrapped in Plastic
- ☐ Point Sheet Received from Surveyor
- ☐ Valve Location
- ☐ Valve Exercised for Shutdown
- ☑ Fitting Location
- ☑ Main Location
- ☐ Scheduled Pat Tap w/Const. Dept. (IF REQD.)

Surveying By: _____

INSPECTOR: _____

Attachment A
WC-2023-0042

Final

INSPECTOR'S DAILY LOG – Contractor Lay Jobs

PROJECT NAME: Mari Kay Court
DATE: 7-1-22
REPORT # _____ OF _____
Weather: Clear
PROJECT #: WBS R17-02B2.21-P-0453
INSPECTOR: Joe Kingry HRS: 8
INSPECTOR: _____ HRS: _____
Hours Worked: 7:00 / 3:00 AM-PM
Hours Worked: _____ AM-PM

Work Force:

Employee/Title	With	Equipment	Hours Worked: Total/AM-PM
Morgan	Bommarito	Excavator	7:00 / 3:00
Operator		Mini-Excav.	
Laborer		Dump Truck	
Linek plumbing			

Materials Delivered @ Site:

QTY.	SIZE	MAKE	TYPE	CLASS	DESC.

Remarks/Problems: Install Services on Mari Kay Court GPS meter Pits & Tapping Saddles For 2403, 2400, 2407, 2408, 2411, 2412, 2415, 2416, 2419, 2420

Work Accomplished:

Daily Footage:
Valves/Fittings Laid:

_____ Customers notified @ _____ AM/PM For shutdown @ _____ AM/PM For ____ HRS.

_____ FRCC Notified (618-239-3227) Hydrants _____ Called "out" @ _____ AM/PM Called "In" @ _____ AM/PM

- ☐ Checked As Built
- ☐ Esmt/R/W/Street C Staked
- ☐ Rock Ticket Filled Out
- ☐ Site to Grade or Staked
- ☐ Material Delivery Tickets
- ☐ Fire Hydrant Ticket Signed by Developer & Fire Chief
- ☐ FRCC & DLCC (St. Louis) Notified
- ☐ Sewers in or Staked
- ☐ Hyd. Caps Painted
- ☐ Hyd. Wrapped in Plastic
- ☐ Point Sheet Received from Surveyor
- ☐ Valve Location
- ☐ Valve Exercised for Shutdown
- ☑ Fitting Location
- ☑ Main Location
- ☐ Scheduled Pat Tap w/Const. Dept. (IF REQD.)

Surveying By: _____

INSPECTOR: _____

Attachment A
WC-2023-0142
PUBLIC

INSPECTOR'S DAILY LOG – Contractor Lay Jobs Tues

PROJECT NAME: Mari Kay Court
DATE: 7-5-22
REPORT # _____ OF _____
Weather: Clear, Warm
PROJECT #: WBS R17-02B2.21-P-0453
INSPECTOR: Joe Gregory HRS: 1
INSPECTOR: _____ HRS: _____
Hours Worked: 3:00 / 4:00 AM-PM
Hours Worked: _____ AM-PM

Work Force:

Employee/Title	With	Equipment	Hours Worked: Total/AM-PM
Morgan	Bommarito		7/300

Materials Delivered @ Site:

QTY.	SIZE	MAKE	TYPE	CLASS	DESC.

Remarks/Problems: Dig & prep for concrete tomorrow, Back Fill Main Ditch & Meter Pits, 2403, 2407, 2411, 2415, 2419, 2423, 2427, 2429, 2424, 2422, 2420, 2416, 2412, 2408, 2400 Mari Kay Ct

Work Accomplished:

Daily Footage:
Valves/Fittings Laid:

_____ Customers notified @ _____ AM/PM For shutdown @ _____ AM/PM For ____ HRS.

_____ FRCC Notified Hydrants _____ Called "out" @ _____ AM/PM Called "In" @ _____ AM/PM
(618-239-3227)

- ☐ Checked As Built
- ☐ Esmt/R/W/Street C Staked
- ☐ Rock Ticket Filled Out
- ☐ Site to Grade or Staked
- ☐ Material Delivery Tickets
- ☐ Fire Hydrant Ticket Signed by Developer & Fire Chief
- ☐ FRCC & DLCC (St. Louis) Notified
- ☐ Sewers in or Staked
- ☐ Hyd. Caps Painted
- ☐ Hyd. Wrapped in Plastic
- ☐ Point Sheet Received from Surveyor
- ☐ Valve Location
- ☐ Valve Exercised for Shutdown
- ☐ Fitting Location
- ☐ Main Location
- ☐ Scheduled Pat Tap w/Const. Dept. (IF REQD.)

Surveying By: _____

INSPECTOR: Joe Gregory

INSPECTOR'S DAILY LOG – Contractor Lay Jobs

Wednes

PROJECT NAME: Mari Kay Court
DATE: 7-6-22
REPORT # _____ OF _____
Weather: Clear
PROJECT #: WBS R17-07.32.21-P-0453
INSPECTOR: Joe Knapp HRS: 1
INSPECTOR: _____ HRS: _____
Hours Worked: 3:00/4:00 AM-PM
Hours Worked: _____ AM-PM

Work Force:

Employee/Title	With	Equipment	Hours Worked/Total/AM-PM
Morgan	Bommarito	Excavator	7:00/4:00
		Skid Steer	
1 operator		Dump Truck	
2 Laborer			

Materials Delivered @ Site:

QTY.	SIZE	MAKE	TYPE	CLASS	DESC.

Remarks/Problems: Dig & Expose Main For Servide Tapping Saddles on Mari Kay Court.

Work Accomplished:

Daily Footage:
Valves/Fittings Laid:

_____ Customers notified @ _____ AM/PM For shutdown @ _____ AM/PM For ____ HRS.

_____ FRCC Notified Hydrants _____ Called "out" @ _____ AM/PM Called "In" @ _____ AM/PM
(618-239-3227)

- ☐ Checked As Built
- ☐ Esmt/R/W/Street C Staked
- ☐ Rock Ticket Filled Out
- ☐ Site to Grade or Staked
- ☐ Material Delivery Tickets
- ☐ Fire Hydrant Ticket Signed by Developer & Fire Chief
- ☐ FRCC & DLCC (St. Louis) Notified
- ☐ Sewers in or Staked
- ☐ Hyd. Caps Painted
- ☐ Hyd. Wrapped in Plastic
- ☐ Point Sheet Received from Surveyor
- ☐ Valve Location
- ☐ Valve Exercised for Shutdown
- ☑ Fitting Location
- ☑ Main Location
- ☐ Scheduled Pat Tap w/Const. Dept. (IF REQD.)

Surveying By: _____

INSPECTOR: _____

INSPECTOR'S DAILY LOG – Contractor Lay Jobs

PROJECT NAME: MARI KAY CT
REPORT #_____ OF _____
PROJECT #: WBS R17-0282.18-P-0081

DATE: 8/2/22
Weather:_____
INSPECTOR: KAREN LIEBMANN HRS: 4
INSPECTOR:_____ HRS:_____
Hours Worked:_____ AM-PM
Hours Worked:_____ AM-PM

Work Force:

Employee/Title	With	Equipment	Hours Worked: Total/AM-PM

Materials Delivered @ Site:

QTY.	SIZE	MAKE	TYPE	CLASS	DESC.

Remarks/Problems: COMPILE AND CONFIRM INFORMATION
EDITS TO PAPERWORK / FIELD NOTES / GPS

Work Accomplished:

Daily Footage:
Valves/Fittings Laid:

_____ Customers notified @_____ AM/PM For shutdown @_____ AM/PM For____ HRS.

_____ FRCC Notified Hydrants_____ Called "out" @_____ AM/PM Called "In" @_____ AM/PM
(618-239-3227)

- ☐ Checked As Built
- ☐ Esmt/R/W/Street C Staked
- ☐ Rock Ticket Filled Out
- ☐ Site to Grade or Staked
- ☐ Material Delivery Tickets
- ☐ Fire Hydrant Ticket Signed by Developer & Fire Chief
- ☐ FRCC & DLCC (St. Louis) Notified
- ☐ Sewers in or Staked
- ☐ Hyd. Caps Painted
- ☐ Hyd. Wrapped in Plastic
- ☐ Point Sheet Received from Surveyor
- ☐ Valve Location
- ☐ Valve Exercised for Shutdown
- ☐ Fitting Location
- ☐ Main Location
- ☐ Scheduled Pat Tap w/Const. Dept. (IF REQD.)

Surveying By:_____

INSPECTOR: Karen L. Liebmann

MISSOURI AMERICAN WATER

Water and Wastewater Project Materials/Asset List - Installations

External Inspector

Internal Inspector

Pipe Footage/Asset Summary (Laying pipe plus laying fittings total - hydrant laterals listed individually)	**Proposed installation summary (pre-filled by project manager):**
	Actual installation summary: Installed 322 LF of 8" PVC C900, 3 LF of 6" DIP, 35 LF of 8" DIP and 5 LF of 6" DIP Hydrant Lateral.
WBS Element:	R17-02B2.21-P-0453 — **Project Name: Mary Kay Ct**
SAP Work Order:	

Type (pipe, valve, hydrant, fitting, manhole, cleanout, etc.)	QTY	Size	Description (Manufacturer, number of turns, restraint type, etc.)	Install Date	Tax Code (Project Manager)	Latitude (Hydrants/Valves)	Longitude (Hydrant/Valves)	Object ID	Asset number (hydrant /valve ID)	SAP Equipment ID
Pipe	322	8"	PVC C900 SDR 14							
Pipe	3	6"	DIP Class 52							
Pipe	35	8"	DIP Class 54							
Valve	1	6"	MJ Mueller Valve RS, 21 Turns, Opens Left	11/16/2021		38.61802123	-90.33873436	304		
Hydrant Lateral	5	6"	DIP Class 52							
Hydrant Valve	1	6"	MJ Mueller Valve RS, 21 Turns, Opens Left	11/19/2021		38.61707515	-90.33860903	105		
Hydrant	1	6"	MJ Mueller	11/19/2021		38.61706749	-90.33860784	145		
Valve Box	2	5 1/4	Type A Complete							
Fitting	1	8"	MJ 90							
Fitting	1	6"	MJ Cap							
Fitting	1	8"x6"	MJ Tee							
Fitting	1	6"x6"	Tapping Sleeve							
Fitting	2	6"	Hymax							
Fitting	1	8"	Solid Sleeve							
Fitting	1	8"x6"	MJ Reducer							

MISSOURI AMERICAN WATER

Water and Wastewater Project Materials/Asset List - Retirements

Pipe Footage/Asset Summary (Laying pipe plus laying fittings total - hydrant laterals listed individually)							
Type (Valve, hydrant, main, manhole, etc.)	Qty.	Size	Removed or Left in Place?	Notes	Date Retired	Tax Code (Project Manager)	SAP ID or Hydrant/Valve Number
Pipe	380	6"	Left in Place		7/15/2022		
Hydrant	1	6"	Removed		7/15/2022		HBD-77
Valve	1	6"	Removed		7/15/2022		VBD-262
Valve	1	6"	Left in Place		7/15/2022		VBD-290

Attachment B

Confidential in its Entirety pursuant to 20 CSR 4240-2.135 2(A) 7.