

April 11, 2024

MACUNGIE BOROUGH AUTHORITY
AGENDA

Thursday, April 11, 2024
7:00 P.M.

1. Call to Order
2. Pledge of Allegiance
3. Public Comments
4. Approval of Minutes, approval at future meeting
 - a. February 8, 2024, minutes
5. Consent Agenda
 - a. Budget vs Actual n/a
 - b. Check Registers (Paid Bills)-n/a
6. Correspondence
 - a. Lehigh Valley Water Suppliers Meeting Minutes 2/202/2024
 - a. Scholarship announcement
 - b. Golf Tournament is scheduled for 5/2/24 at Twin Lakes
 - i. Lehigh Valley Water Suppliers Golf Outing
 - c. HydroMania is scheduled for 5/9/24 at Cedar Crest College.
 - d. Invitation to the Northeast District PA-AWWA & Eastern Section WWOAP_2024 Spring Conference – Thursday, May 23, 8:00 AM – 4:00 PM.
7. Reports
 - a. Water Operator Monthly Report
 - a. Well #2 Well Pump Replacement Status report-update.
 - i. Updated project cost A.C Shultes
 - ii. As of April 3, the project is nearing completion with what should be one or two more days of work.
 - b. Radio Read Issues-update
 - i. Ashley is working with the UB MAX and Ferguson Tech Support to correct the issue.
 - b. Annual reports
 - a. Well No. 1 Sub Facility Report – DEP*
 - b. Well No. 2 Sub Facility Report – DEP*
 - c. Main Facility Report – DEP*
 - d. AWWA Water Audit – Delaware River Basin Commission*
 - e. DEP Water Supply Inspection Report
 - f. Consumer Confidence Report
 - c. Borough Manager's Report
 - a. Financial Audits
 - b. Buttonwood-Water Main Replacement-Project update

April 11, 2024

- i. The staff met with Charley Myers P.E. of Barry Isett and Assoc. to review the proposed drawings and discuss a timeline for the project.
- ii. Revised Project Schedule is attached.
- iii. BIA requesting authorization to advertise project for bids.

8. Unfinished Business

- a None.

9. New Business

- a. DPW request approval of the following:
 - a. New Hillcrest Tank Controller Proposal-LB Water #1937383 for \$ 39,198.03
 - b. New Controller at Shop Proposal -LB Water # 1940006 for \$ 17,309.00
- b. DPW request to purchase additional Stortz hydrant adapters \$3,927.00.
- c. DPW request to purchase "Y" fittings \$427.42
- d. Buttonwood-Water Main Replacement authorization to advertise project for bids.

10. Adjournment

Macungie Borough Authority
Regular Meeting
February 8, 2024
7 P.M.

Authority Members:

Jeffrey Stauffer – Chairman
Robert Bogert – Vice Chairman (absent)
Todd Ritter
Lorraine Walters
Doug McNair
John Brown

Water Operator:

Borough Manager:

Chairman Stauffer called tonight's meeting to order at 7:00 p.m.

Reorganization – Authority member Ritter made a motion to nominate Jeffrey Stauffer as the Borough Authority Chairman. Authority member Walters seconded the motion. Motion passed unanimously. Chairman Stauffer accepts.

Authority Chairman Stauffer made a motion to nominate Robert Bogert as Borough Authority Vice Chairman. Authority member Ritter seconded the motion. Motion passed unanimously.

1. Public Comments – None
2. Approval of Minutes
 - a. December 14, 2023
 - i. Authority member Ritter made a motion to approve the minutes as written. Chairman Stauffer seconded the motion. Motion passed unanimously.
3. Consent Agenda
 - a. Budget vs Actual – n/a
 - b. Check Registers (paid bills) – n/a
4. Correspondence – None
5. Reports
 - a. Water Operator – Monthly Report
 - i. Well #2 status report – update
 1. Meter base was replaced on January 25, 2024
 - ii. Hillcrest Water Level Tank Controller
 1. The original proposed controllers may not fit the needs and may require a step up to the next level controller.
 2. A new proposal will be put together.
 - iii. Well depth
 1. December and January had an increase in rain fall, which improved the well depth level.
 - iv. Water Meters
 1. Great number of red tags for the 3rd quarter
 2. 196 radio read meters were installed in 2023.
 - v. Water Testing
 1. Beginning in 2024 and will be done quarterly.

Macungie Borough Authority
Regular Meeting
February 8, 2024
7 P.M.

vi. DEP

1. DEP conducted their Water Supply Inspection on February 6, 2024. A copy of the results will be provided once completed.

b. Borough Manager – Monthly Report

i. Financial Resource Services LLC update

1. Taking a little bit longer to line the Sewer and Water Funds concentration on General for the upcoming Audit.

ii. Financial Audit

1. We are scheduled to begin working on the financial audits the week of February 26, 2024, and should complete the review by Friday, March 8, 2024.

iii. Buttonwood – Water Main Replacement – LSA Grant

1. Approved in December 2023

- a. \$423,530.00

2. Grant documents executed end of January 2024

3. Working with BIA to scope the project

- a. Chairman Stauffer made a motion to authorize John Brown execute the contract provided by BIA to start the project. Authority member Ritter seconded the motion. Motion passed unanimously.

- b. Authority already approved the required \$75,000 dollar match.

iv. Lower Macungie Fire Department

1. LMFD has been designated as Fire Protection Services for the Borough of Macungie.

2. LMFD met with water operators as a scoping meeting.

- a. The purpose was to get an overview of how the Borough water system works the “can do/please don’t” specifics of the system and what LMFD has to do when they are pulling hard off the system.

- b. Discussed emergency response protocols

- c. Discussed water system status and concerns

- d. Will need to review and update a couple of hydrant adapters to determine public or private.

- i. Do we want to include the school's hydrant adapters in the next round of purchases?

1. All Authority members agreed to include school hydrants.

ii. Parking lot of Allen Organ (off Cedar Street by their tank)

1. Communication will be made with Allen Organ with information needed.

iii. North Fairview just east of Fern (right before you enter the school district property)

iv. Dead end of Parkside Drive

v. 900 block of Vince Street with the old threads

6. Unfinished Business – None

Macungie Borough Authority
Regular Meeting
February 8, 2024
7 P.M.

7. New Business

- a. DPW \$1,000 request – Guttermann Aqua scope \$5,850.00. Discussion and vote.
 - i. Chairman Stauffer made a motion to approve the Guttermann Aqua scope. Authority member Walters seconded the motion. Motion passed unanimously.
- b. Water Service to MVFD building. Discussion and vote

8. Adjournment

- a. Chairman Stauffer made a motion to adjourn tonight's meeting at 7:45 pm. Authority member Walters seconded the motion. Motion passed unanimously.

Respectfully Submitted

Ashley Rinker

Ashley Rinker, Administrative Assistant

Please do not hesitate to ask if you have any questions in regards to the minutes or the organization in general.

Regards,

Doug

CC: T. Smith, M. Smith, Water Operators; J. Brown, Manager; R. Karboski, Council President; & A. Rinker, Auth Sec.

From: Liesel Gross <lieselgross@lehighcountyauthority.org>

Sent: Tuesday, February 20, 2024 2:00 PM

Subject: LVWS Meeting - Minutes & Updates

Hi everyone,

Thanks for a short but productive meeting this morning! I have attached minutes from this discussion. Some highlights for your consideration and calendar:

1. Scholarship announcement & application are attached – please share with any eligible young people or schools you may know. The Scholarship Committee will also distribute to the schools, but sometimes a personal connection goes a long way!
2. Save the Date (part 1) – Golf Tournament is scheduled for 5/2/24 at Twin Lakes. Guaranteed to be a fun day!
3. Save the Date (part 2) – HydroMania is scheduled for 5/9/24 at Cedar Crest College. Be on the lookout for opportunities to volunteer and help us educate students about our important work in WATER!

Our Summer Meeting will be scheduled for sometime in June with an announcement to follow. Please plan to participate, join the water taste test, and nominate a new Vice President.

Thanks everyone, and see you soon!
-Liesel

Liesel M. Gross, Secretary
Lehigh Valley Water Suppliers, Inc.

Chief Executive Officer
Lehigh County Authority
PO Box 3348
Allentown, PA 18106
610-398-2503, ext. 128

LEHIGH VALLEY WATER SUPPLIERS, INC. (LVWS)

Organizational Meeting – 1st Quarter 2024 Meeting Minutes

9 a.m., Tuesday, February 20, 2024
ZOOM Meeting, hosted by Lehigh County Authority

<u>Utility Members Present:</u> <ul style="list-style-type: none">• Borough of Alburtis• Borough of Emmaus• Borough of Macungie• Hellertown Borough Authority• Lehigh County Authority• Lower Saucon Authority• Northampton Borough Municipal Authority• Upper Saucon Township• Whitehall Township Authority	<u>Utility Members Absent:</u> <ul style="list-style-type: none">• Borough of Catasauqua• Borough of Slatington• City of Bethlehem• Easton Suburban Water Authority• Portland Borough Authority• Salisbury Township• South Whitehall Township• Walnutport Authority
<u>Associate Members & Guests Present:</u> <ul style="list-style-type: none">• Ferguson Waterworks• Pa. Department of Environmental Protection	

1. Treasurer's Report

Bill Ross: Provided bank account balances totaling \$ 35,968.69. A \$3500 sponsorship from Core & Main for HydroMania has been received but not deposited yet. Paperwork filing for non-profit status was missed last year and will be updated / addressed.

2. Scholarship Committee

Lauren Sufleta, Bill Ross, Liesel Gross: Noted that Luke Heist is retiring and will stay on golf committee but not the scholarship committee. Scholarship application form is ready to go out – committee will be coordinating contact with the schools. Group agreed to offer 2 scholarships at \$1000 each again in 2024. Note that one of our 2023 scholarship awardees was also awarded a scholarship via PMAA, which is a great achievement for the LVWS program.

3. Golf Outing

Bill Ross, Tim Trout, Steve Kerbacher: **May 2, 2024 (Thursday) at Twin Lakes.**
Committee is working on some details to address increasing costs while keeping cost per

golfer at \$100. Primary focus for the tournament is on the sponsorships, which we were very successful with in 2023. Signage costs may be reduced this year due to keeping prior signs in storage, if some sponsors stay the same.

4. HydroMania

Sue Sampson: **May 9, 2024 (Thursday) at Cedar Crest College**. Reviewed various team member assignments including school registrations (Jim, Salisbury), exhibitor coordination (Mike/Mike, NBMA), volunteer coordination (Lisa, Whitehall), logistics (Trissi/Sue, LCA). Currently have 500 students registered – hoping to increase with direct school outreach. Expecting \$15,500 in sponsorships from Core & Main, Blue Triton, Jacobs, and Niagara. Partnership with Da Vinci discontinued for 2024 due to their new facility opening being scheduled for the same day – LCCD and Penn State Extension are stepping in to provide support for education program and curriculum management.

Side discussion about relationship with Da Vinci. Liesel Gross will reach out to determine if LVWS can play any supportive role in their grand opening or program development, as the organization has been a partner since the late 1980s. It would be beneficial to see if there is a way to continue that relationship and ensure environmental / water resource programming continues to be a priority for the science center.

5. Summer Meeting & Water Taste Test

Liesel Gross: Confirmed the group would like to do the next meeting in the Summer as an opportunity to recap the spring events and conduct the water taste test. Will look for a date and location with a little more space than LCA's conference room, which was a little small for last year's event. Discussion of special topics / speakers the group might be interested in, with the following ideas offered:

- Regulatory Update / DEP Update – PFAS, other topics?
- Social media – utility case studies / lessons learned
- HR Topics – Peter Johnson speaker / review of PMAA/PWEA/AWWA compensation studies

6. Internship Program

Liesel Gross: Reviewed concepts discussed at 2023 summer meeting and work to date to develop a program for LCA. Due to size / breadth of LCA organization, we are thinking about a rotating internship program within various LCA departments, with opportunities for other neighboring utilities to participate in some way – such as a rotation of LCA interns to other utilities, or some portion of the internship candidates directed to other utilities. Program details are behind schedule due to internal resource constraints.

7. LVWS Social Media & Website

Sue Sampson: New LVWS Facebook page has been set up for simple way to put information and photos out about HydroMania, scholarship, sponsor recognition, etc. Visit and follow: [Facebook.com/LVWaterSuppliers](https://www.facebook.com/LVWaterSuppliers). Low-cost option for a new LVWS website discussed. Website and social media tools require additional volunteer support to help post information and photos to keep it current. Volunteers: Bill Ross, Steve Kerbacher (NBMA staff), Lisa Helm, Liesel Gross.

8. President's Report

Steve Kerbacher: LVWS is currently missing a Vice President. At the last meeting, Steve Martinez from Slatington expressed interest. Follow-up prior to the Summer Meeting required so we can fill that position. Appreciate all volunteers' support for the organization and helping these events to continue each year.

9. Meeting Adjourned

THANK YOU!

Golf Outing Schedule

your contribution!

7:00 - 8:00am = Registration

8:00am = Shotgun Start

4 person scramble format

Buffet Style Lunch immediately following golf in the dining room.

The Club at Twin Lakes
3625 Shankweiler Rd,
Allentown, PA 18104

Registration Deadline is April 26th, 2024

Registration and Questions please contact:

Bill Ross

Lower Saucon Authority

3706 Old Philadelphia Pike, Bethlehem, PA 18015

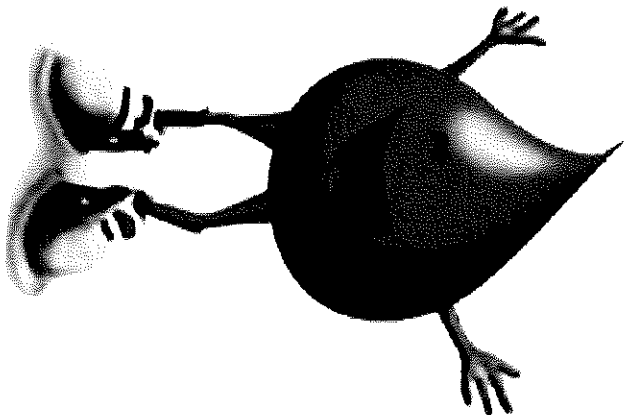
administrator@lowersauconauthority.org

(610) 317-3212 or

Luke Heist

lukehrist@yahoo.com

All proceeds will
directly benefit our
HydroMania and
Scholarship
programs!



Lehigh Valley
Water Suppliers
Golf Outing



Thursday, May 2nd

TWIN
LAKES

Sponsorships

Event Sponsor (\$2500) - Limit of 1 Sponsor

- Title sponsor of the event
- Name and Logo displayed throughout event
- Hole Sponsor
- 4 golfers
- Recognition at lunch

Gold Sponsor (\$1000) - Unlimited

- Name and Logo displayed throughout event
- Hole sponsor
- 4 golfers
- Recognition at lunch

Lunch Sponsor (\$500) - Unlimited

- Hole sponsor
- Company logo at Lunch table
- Recognition at lunch

Beverage Sponsor (\$500) - Unlimited

- Hole sponsor
- Company logo at Lunch table
- Recognition at lunch

Breakfast Sponsor (\$250) - Unlimited

- Hole sponsor
- Company logo at Lunch table
- Recognition at lunch

Hole Sponsor (\$100) - Unlimited

- Company name and sign displayed at tee box
- If you would like a logo displayed, please provide one to us

Sponsorship Deadline is April 23rd, 2024

Event Info

Format: Four-person scramble (limited to 36—four-person teams)

- Additional contests will be available: Closest to the pin, longest drive (men and women) etc...
- Mulligans will be available for sale

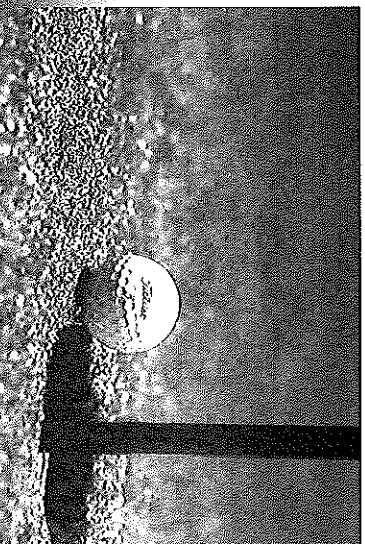
Cutting Includes

- Breakfast—Coffee, Bagels, and Donuts
- Buffet Style Lunch upon completion of round
- Beer/Soda/Iced Tea/Lemonade/Water
- Every player will receive a gift
- NOTE: A 50/50 and other prizes will be awarded via a drawing after lunch. Must be present to win.

Cost: \$100 per person

(received by April 26th, 2024)

Lunch only: \$50



Registration

Golfer #1: _____

Email: _____

Golfer #2: _____

Email: _____

Golfer #3: _____

Email: _____

Golfer #4: _____

Email: _____

Payment Options

1. Detach this portion and mail in with a check (made payable to Lehigh Valley Water Suppliers).

2. Email Bill Ross
administrator@lowersauconauthority.org
with your group members and pay via Venmo @LV-Water-Suppliers

Checks/registration can be mailed to:

LVWS c/o Bill Ross
Lower Saucon Authority
3706 Old Philadelphia Pike
Bethlehem, PA 18015

Please reach out to Bill Ross or Luke Hest if you are interested in one of our sponsorships!

Macungie Borough Authority
Water Operator Notes
April 2024

Items since the last meeting of the Borough Authority held in February 2024, the majority of the reports have been emailed out to the group and have asked the Authority Secretary (Ashley) to include printed copies of most of the reports in your meeting packets. Please forgive my absence from April's meeting, because I am out of town. ***Most of the reports will be reviewed at a future meeting** at which I will be in attendance. (I will sent out a reminder to bring the reports for review and discussion at that time.)

The following Annual reports have been completed and submitted to their respective offices; reports are due by March 31st.

- Well No. 1 Sub Facility Report - DEP*
- Well No. 2 Sub Facility Report - DEP*
- Main Facility Report - DEP*
- AWWA Water Audit - Delaware River Basin Commission*
- Consumer Confidence Report - Submitted to Ashely for publication in the Borough's Spring Newsletter, it is also available on the Borough's Web Site. The report must be distributed by July 1st.*

As reported in the February's Operator Notes:

- On February 6, DEP conducted their Water Supply Inspection which includes review of our operations and the physical inspection of our facilities. DEP will issue a written inspection report. The report was received and have asked the secretary to include a copy with your meeting packets. The inspection went as anticipated, a couple of record keeping corrections on the report are needed.*
- The need for additional Stortz Adaptors for the fire hydrants. The quotes, \$1000 form and cover letter have been prepared for your review. As per the Borough Manager, the order has been placed with Ferguson.
- Hillcrest Tank Water Level Controller - As per the Zoom meeting with LB Water, Rafaa, and the water operators: A new proposal is presented for review and approval. Along with an additional proposal for a controller at the Public Works Office that will work over the cellular communications system. Please see the attached pdf file: OrdAck1937383. The new proposal comes in slightly less at \$39,198.03 than the original proposal at \$40,542.13. The reasoning is to keep the new proposal within the approved

amount of the original proposal. The tradeoff is that it does not include the controller at the Public Works Office, which then could be added to the 2025 budget next year at \$17,309.00. (Attached pdf: Qtel1940006.)

It would however mean that the control would be over the internet until the installation of the controller at the office the following year. Because of this, it does defeat the purpose of avoiding control over the internet until the controller is installed at the office, therefore the water operators recommend the approval for the transfer of funds for the approval for the purchase of the additional controller for the Public Works Office this year along with the approval for the purchase of the main system as presented in the pdf file: OrdAck1937383. (Proposals attached.)

Lehigh Water Supplies Group:

- Attended the zoom meeting held on February 20, 2024. A summary as follows:
 - Scholarship announcement & application are attached - please share with any eligible young people or schools you may know. The Scholarship Committee will also distribute to the schools, but sometimes a personal connection goes a long way!
 - Save the Date (part 1) - Golf Tournament is scheduled for 5/2/24 at Twin Lakes. Guaranteed to be a fun day!
 - Save the Date (part 2) - HydroMania is scheduled for 5/9/24 at Cedar Crest College. Be on the lookout for opportunities to volunteer and help us educate students about our important work in WATER!
 - Our Summer Meeting will be scheduled for some time in June with an announcement to follow. Please plan to participate, join the water taste test, and nominate a new Vice President.

Liesel had mentioned they were looking for a place to hold the summer meeting, which includes the luncheon and water taste competition. On behalf of the Authority, Borough Council has offered the use of the Macungie Institute Auditorium gratis, however, the attendance of the meeting may be more than the capacity of the Auditorium.

Regardless, it was a fine gesture.

I would like permission to attend the Luncheon Meeting and invite any or all the Authority members to attend.

- Invitation to the Lehigh Valley Water Suppliers golf outing. Event Details: Thursday, May 2, 2024 - 8 a.m. Shotgun Start - The Club at Twin Lakes Please see the included Brochure for more info and registration.

Well No. 2.

- Well Pump Replacement - Working with A. C. Shultes, the word is frustration. After numerous times communicating how important this project is and the need for speedy completion as we have only one other water source. It has been 3 months plus since the well has been out service. The good news is (as of April 3), the project is nearing completion with what should be one or two more days of work.

Well Depth:

Well Depths - Water level measured in feet from ground surface.						
	Current: Apr 2024	Historical: Mar 2024	Feb2023	Jan 2023	Dec 2023	Apr 2023
Well No. 1	98	99	102	104	105	103
Well No. 2	*	*	*	*	*	*
draw down is about 6 feet						

The winter months and now into spring had a fair amount of rainfall, which improved the well depth level. A new water level tube will be added during the installation of the pump which will allow us to resume well depth monitoring at Well No 2.

Water Meters:

Ashley is working with the UB MAX and Ferguson Tech Support to correct the issue. I made some screen shots of the UBMax meter set up parameters and we generated a "meter read file" where we found some anomalies, with the help from the techs at UB Max, hopefully we have the issues worked out. The radio read meter needs the GPS to work when reading the meters. With the rainy weather this week April 2, 3, & 4, we have not had the opportunity to collect the quarterly radio read readings.

Water Testing:

- PFAS initial first round of testing was completed at Well No. 1. The results were a Non - Detect. The series of the four tests will be quarterly. We have three more tests to complete at Well No. 1 The testing for Well No. 2 will begin in the second quarter and will continue through the 1st quarter of next year.

Water Leak Repairs:

- 26 E. Main Street - Laundromat. Minor Leak, water service line is on Lea Street. Found pin hole at a dimple in a three-quarter inch copper service line, cut out the pin hole leak, and sleeved in new piece of copper pipe.

S. Buttonwood Street Water Main Replacement Project:

- The staff met with Charley Myers P.E. of Barry Isett and Assoc. to review the proposed drawings and discuss a timeline for the project.

Invitation to the Northeast District PA-AWWA & Eastern Section WWOAP_2024 Spring Conference - Thursday, May 23, 8:00 AM - 4:00 PM.

I wanted to pass along this invitation to the Borough Authority Members and Borough staff who may be interested in attending. All great topics on the agenda: The PFAS Rule, Legislative Updates, Hydraulic Modeling, and Funding for Capital Projects. Historically, the costs are paid from the water budget for the Borough Staff and Authority Members to attend classes, lectures, webinars, etc. The water operators have been granted approval for attendance and are registered. For more information, please see the attachment.

Notes By:

Water Operator McNair

April 3, 2024

Attachments:

Primary Facility Report 2023

Subfacility Report for WELL 1 2023

Subfacility Report for WELL 2 2023

Delaware River Basin Commission Report 2023 - In order to save paper, only print out "Worksheet" tab and the "Dash Board" tab.

CCR 2024

3390033_Inspection_Report_3708643

LVWS Meeting Minutes - 02-20-2024

LVWS Scholarship Announcement - 2024

LVWS Scholarship Application 2024

2024 HydroMania Volunteer Flyer

1. VolunteerSignUpMASTERForm 2024

LVWS 2024 Golf Outing Brochure

1000 form w cover letter for purchase of additional Stortz adaptors 2024

OrdAck1937383

Qte1940006

AGENDA_NEAWWA_WWOAP_2024 Spring Conference_05_23_2024

Attendee Registration_Spring 2024_NE District PA-AWWA_WWOAP_Conference



664 S. Evergreen Ave.
Woodbury Heights, NJ 08097
24 Hour Service
(856) 845-5656 Office
gusiv@acschultes.com
www.acschultes.com

February 6, 2024

Macungie
21 Locust Street
Macungie, PA 18062

Attention: Doug McNair
Email: dgmcnair@macungie.pa.us

Reference: Well #2 Pump
ACS Job #P30920-21

Dear Sir:

A.C. Schultes, Inc. was able to remove the vertical turbine pump that was stuck in the above referenced well. The foundation was partially demolished in order to allow for floor jacks to be maneuvered into position to assist in lifting the pump up. The pumping equipment was inspected at our shop and the following is a complete list of repairs/replacements necessary to return the unit to proper operating condition:

- Standard maintenance of 50hp motor
- Furnish new headshaft with adjustment nut
- Sandblast and paint existing discharge head
- Furnish new 5" top column pipe
- Rework existing stuffing box with new bearing and graphite packing
- Furnish (90') of 5" x 1-1/4" column assembly
- Furnish new 8" pump capable of 450 gpm @ 321' tdh
- Replace concrete foundation

Due to the diameter of the well (8"), pump size, and electric available(230v), duplicating the same pumping equipment is required. The horsepower (50hp) motor requirement is not available in a submersible style, and the desire to not change electric over to 460v limits the options. The column pipe can be downsized to 5" and will provide slightly more room in the well, but please note that installing an 8" pump in this 8" well is going to present the same issues in the future, that were experienced on this project. It is recommended that the pump not remain in service for as long a period of time without preventative maintenance measures.

Costs associated with this project:

Cost for pump removal/inspection:..... \$2,800.00

Additional cost for pump removal efforts: \$7,150.00

Well Television Camera Inspection:..... \$800.00

Cost for new pumping equipment, including installation: \$55,426.00

If you have any additional questions regarding this project, please feel free to contact this office.

Sincerely,

A.C. SCHULTES, INC.

Jeff Schultes

Jeff Schultes
Project Manager

JS/ck J: JOBS P/P30920-21/011224

Subfacility Report for WELL 1 (8857)
REPORT FOR CALENDAR YEAR JAN 1 TO DEC 31, 2023

Client: MACUNGIE BORO AUTH LEHIGH CNTY

Primary Facility: MACUNGIE WATER DEPT

MEASURING/METERING OF WATER

Measure Method	METERED
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Last Date Tested 04/04/2022 (mm/dd/yyyy)

Tested By LAWCO INC, 383 SAMPLE BRIDGE RD. ENOLA, PA 17025

WITHDRAWALS OR USE FOR REPORTING YEAR 2023

<u>Month</u>	<u>Total Gallons</u>	<u>Month</u>	<u>Days</u>
Jan Gallons	5,527,190	Jan Days	31
Feb Gallons	4,291,390	Feb Days	28
Mar Gallons	4,435,700	Mar Days	31
Apr Gallons	4,353,750	Apr Days	30
May Gallons	4,943,000	May Days	31
Jun Gallons	4,673,950	Jun Days	30
Jul Gallons	5,130,160	Jul Days	31
Aug Gallons	4,088,380	Aug Days	31
Sep Gallons	3,967,220	Sep Days	30
Oct Gallons	4,160,420	Oct Days	31
Nov Gallons	4,098,200	Nov Days	30
Dec Gallons	4,015,010	Dec Days	31
Total Gallons	53,684,370	Total Days	365

FOR PUBLIC WATER SUPPLIERS

Double Counted:	N
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If changed, Explain why:

DATA ENTRY INFORMATION

Entered By: Douglas McNair

Last Data Entry Date: 02/06/2024

Email: dgmcnair@macungie.pa.us

Subfacility Report for WELL 2 (8858)
REPORT FOR CALENDAR YEAR JAN 1 TO DEC 31, 2023

Client: MACUNGIE BORO AUTH LEHIGH CNTY

Primary Facility: MACUNGIE WATER DEPT

MEASURING/METERING OF WATER

Measure Method METERED
 Last Date Tested 05/06/2022 (mm/dd/yyyy)
 Tested By LAWCO INC, 383 SAMPLE BRIDGE RD. ENOLA, PA 17025

WITHDRAWALS OR USE FOR REPORTING YEAR 2023

<u>Month</u>	<u>Total Gallons</u>	<u>Month</u>	<u>Days</u>
Jan Gallons	2,348,000	Jan Days	31
Feb Gallons	2,833,000	Feb Days	28
Mar Gallons	3,452,000	Mar Days	31
Apr Gallons	3,463,000	Apr Days	30
May Gallons	3,714,000	May Days	31
Jun Gallons	4,070,000	Jun Days	30
Jul Gallons	3,469,000	Jul Days	31
Aug Gallons	3,294,000	Aug Days	31
Sep Gallons	3,006,000	Sep Days	30
Oct Gallons	3,070,000	Oct Days	31
Nov Gallons	3,013,000	Nov Days	30
Dec Gallons	3,180,000	Dec Days	31
Total Gallons	38,912,000	Total Days	365

FOR PUBLIC WATER SUPPLIERS

Double Counted: N

If changed, Explain why:

DATA ENTRY INFORMATION

Entered By: Douglas McNair
 Last Data Entry Date: 02/06/2024
 Email: dgmcnair@macungie.pa.us

Primary Facility Report for MACUNGIE WATER DEPT (19312)
REPORT FOR CALENDAR YEAR JAN 1 TO DEC 31, 2023

Client: MACUNGIE BORO AUTH LEHIGH CNTY

PRIMARY FACILITY NAME AND MAILING ADDRESS

Name and Address: MACUNGIE WATER DEPT
21 LOCUST ST
MACUNGIE, PA 18062-1105

Contact Information: DOUGLAS MCNAIR
WATERWORKS OPERATOR

Phone: 610-966-2503

Facility e-mail: DGMCAIR@MACUNGIE.PA.US

PEAK DAY WATER USE FOR REPORT YEAR 2023

Date: 04/12/2023 (mm/dd/yyyy)

Gallons Per Day: 493,110

MINIMUM DAY WATER USE FOR REPORT YEAR 2023

Date: 04/13/2023 (mm/dd/yyyy)

Gallons Per Day: 121,100

POPULATION SERVED

Population Served: 3,257

AVERAGE DAILY WATER USE

Type	Metered Connections		Unmetered Connections	
	Number	Water Use (GPD)	Number	Water Use (GPD)
Domestic	1,096	137,470	0	0
Commercial	81	21,849	0	0
Industrial	0	0	0	0
Institutional	10	11,656	0	0
Bulk Sales to other PWS	0	0	0	0
Oil and Gas	0	0	0	0
Other	0	0	0	0
Water Losses				82,714
Total	1,187	170,975	0	82,714

Explain 'Other' Connections:

BREAKDOWN OF WATER LOSSES FOR THE SYSTEM

Type	Water Use (GPD)
Apparent Losses	No Information reported.
Real Losses	No Information reported.

PRESENT NUMBER OF CONNECTIONS SERVED

Municipality Name	Present Number of Connections						% Pop Served	Multiple Unit Connections	
	Dom	Comm	Ind	Inst	Oil Gas	Other		No. Conn	No. Units
LOWER MACUNGIE TWP (LEHIGH)	9	0	0	2	0	0	.01	0	0
MACUNGIE BORO	1086	81	0	8	0	0	100	49	453

PRESENT NUMBER OF CONNECTIONS SERVED

Municipality Name	Present Number of Connections						% Pop Served	Multiple Unit Connections	
	Dom	Comm	Ind	Inst	Oil Gas	Other		No. Conn	No. Units
(LEHIGH)									
UPPER MILFORD TWP (LEHIGH)	1	0	0	0	0	0	.01	0	0
TOTAL	1096	81	0	10	0	0		49	453

METERING, WATER CONSERVATION AND DISTRIBUTION SYSTEM

What is the average age of existing meters? 9 Years

Are you currently installing meters at new connections? YES

Are you currently installing meters at unmetered connections? NO

Is there an active meter replacement program for your water system? YES

How many meters did you replace during the report year? 196

Did you provide water conservation information to your customers during the report year? NO

What is the type, size (inches), and length of new pipe installed as an extension to your present system during the report year?

What is the frequency of flushing the distribution system during the past year? 1

Did you work your hydrants during the report year? NO

Did you work the valves in the system during the report year? NO

Does your system have an active leak detection program? NO

What type of equipment or methods do you use for leak detection?
Heath Aqua Scope, Guterman Aqua Scan 600 Correlator, Dave Bonkovich Utility Services, Shoemakersville, PA.

Does your system have a cross-connection control program? YES

Has the water pressure been inadequate in any part of the system? NO

If yes, explain

Service Area Boundary Map: The box contains the date of the latest submitted service area boundary map for your system. If this date is older than 5 years, blank, or there has been a change in the area since then, please use the online service area boundary mapping tool to review and submit a current map. (See Instructions) 06/15/2023

Describe major system changes such as purchases and transfers:

REPORT CONTACT INFORMATION

Report Preparer: DOUGLAS MCNAIR
MACUNGIE WATER DEPT
555 N. 2ND. ST.
EMMAUS, PA 18049
Phone: 610-965-4011
Email
Address: DGMCAIR@MACUNGIE.PA.US

REPORT SUBMISSION INFORMATION

Submitted By: Douglas McNair
Submitted On: 02/29/2024
Submitted By Email: dgmcnair@macungie.pa.us



AWWA Free Water Audit Software: Worksheet

FWAS v6.0
American Water Works Association
Copyright © 2020. All Rights Reserved.

Water Audit Report for: **Macungie Borough Authority**
Audit Year: **2023** Jan 01 2023 - Dec 31 2023 Calendar

Click 'n' to add notes

Click 'g' to determine data validity grade

To edit water system info: [go to start page](#)

To access definitions, click the input name

All volumes to be entered as: MILLION GALLONS (US) PER YEAR

Water Supplied Error Adjustments

choose entry option:

WATER SUPPLIED

	Volume from Own Sources:	n	g	4	92.596	MG/Yr	n	g	4	1.60%	percent
VOS	Water Imported:	n	g	n/a	0.000	MG/Yr					
WI	Water Exported:	n	g	3	0.066	MG/Yr	n	g	3	0.00%	percent
WE											

over-registration VOSEA
WIEA
WEEA

WATER SUPPLIED: **91.072** MG/Yr

AUTHORIZED CONSUMPTION

	Billed Metered:	n	g	7	62.406	MG/Yr
BMAC	Billed Unmetered:	n	g	n/a		MG/Yr
BUAC	Unbilled Metered:	n	g	n/a		MG/Yr
UMAC	Unbilled Unmetered:	n	g	3	0.156	MG/Yr
UUAC						

choose entry option:
0.25% default
5.00% percent
0.25% default

Default option selected for Unbilled Unmetered, with automatic data grading of 3

AUTHORIZED CONSUMPTION: **62.562** MG/Yr

WATER LOSSES

28.510 MG/Yr

Apparent Losses

Default option selected for Systematic Data Handling Errors, with automatic data grading of 3

	Systematic Data Handling Errors:	n	g	3	0.156	MG/Yr
SDHE	Customer Metering Inaccuracies: <td>n<th>g</th><th>2</th><th>3.285</th><th>MG/Yr</th></td>	n <th>g</th> <th>2</th> <th>3.285</th> <th>MG/Yr</th>	g	2	3.285	MG/Yr
CMI	Unauthorized Consumption: <td>n<th>g</th><th>3</th><th>0.156</th><th>MG/Yr</th></td>	n <th>g</th> <th>3</th> <th>0.156</th> <th>MG/Yr</th>	g	3	0.156	MG/Yr
UC						

choose entry option:
0.25% default
5.00% percent
0.25% default

under-registration

Default option selected for Unauthorized Consumption, with automatic data grading of 3

Apparent Losses: **3.597** MG/Yr

Real Losses

Real Losses: **24.913** MG/Yr

WATER LOSSES: **28.510** MG/Yr

NON-REVENUE WATER

NON-REVENUE WATER: **28.666** MG/Yr

SYSTEM DATA

	Length of mains:	n	g	6	14.3	miles
Lm	Number of service connections: <td>n<th>g</th><th>5</th><th>1,187</th><th></th></td>	n <th>g</th> <th>5</th> <th>1,187</th> <th></th>	g	5	1,187	
Nc	Service connection density: <td></td> <td></td> <td></td> <td>83</td> <td>conn./mile main</td>				83	conn./mile main

(including fire hydrant lead lengths)
(active and inactive)

Are customer meters typically located at the curbside/property line? **No**

Lp Average length of (private) customer service line: **30.0** ft (average distance between property line and meter)

AOP Average Operating Pressure: **80.0** psi

COST DATA

	Customer Retail Unit Charge:	n	g	9	\$14.29	\$/1000 gallons (US)
CRUC	Variable Production Cost: <td>n<th>g</th><th>4</th><th>\$247.24</th><th>\$/Million gallons</th></td>	n <th>g</th> <th>4</th> <th>\$247.24</th> <th>\$/Million gallons</th>	g	4	\$247.24	\$/Million gallons
VPC						

Total Annual Operating Cost: **\$640,812** \$/yr (optional input)

WATER AUDIT DATA VALIDITY TIER:

*** The Water Audit Data Validity Score is In Tier II (26-50). See Dashboard tab for additional outputs. ***

[go to dashboard](#)

A weighted scale for the components of supply, consumption and water loss is included in the calculation of the Water Audit Data Validity Score

PRIORITY AREAS FOR ATTENTION TO IMPROVE DATA VALIDITY:

Based on the information provided, audit reliability can be most improved by addressing the following components:

- 1: Volume from Own Sources (VOS)
- 2: Customer Metering Inaccuracies (CMI)
- 3: Billed Metered (BMAC)

KEY PERFORMANCE INDICATOR TARGETS:

OPTIONAL: If targets exist for the operational performance indicators, they can be input below:

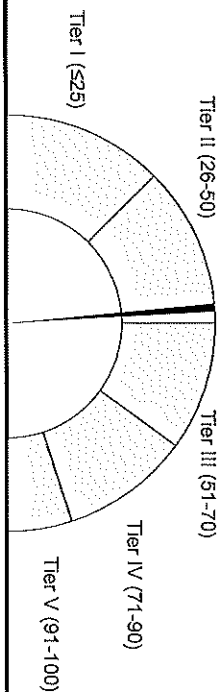
	Unit Total Losses:		gal/conn/day
	Unit Apparent Losses:		gal/conn/day
	Unit Real Losses*:		gal/conn/day
	Unit Real Losses*:		gal/mile/day

If entered above by user, targets will display on KPI gauges (see Dashboard)

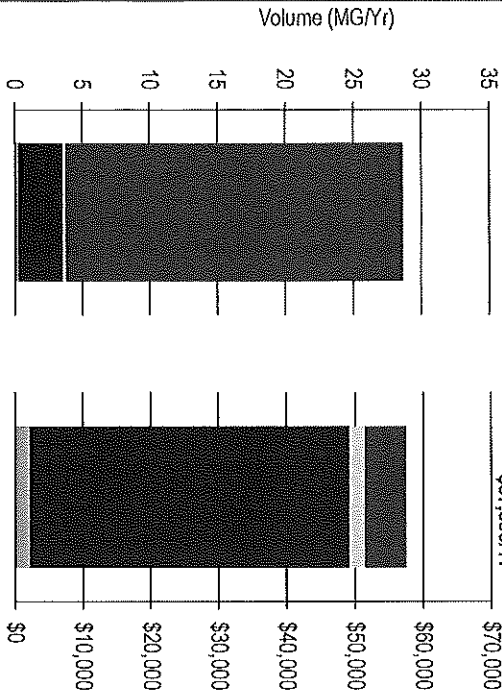
Data Validity

Data Validity Score: **47** Data Validity Tier: **Tier II (26-50)**

See Loss Control Planning for Tier Details



NRW Components Summary
Total Volume of NRW = 29 MG/yr
Total Cost of NRW = \$57,593/yr

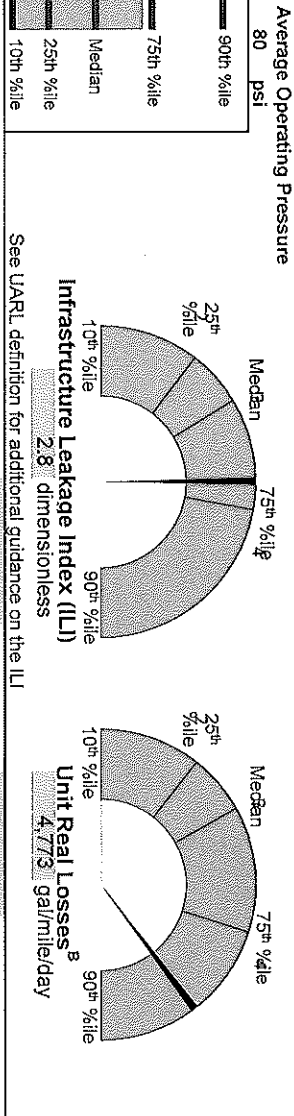
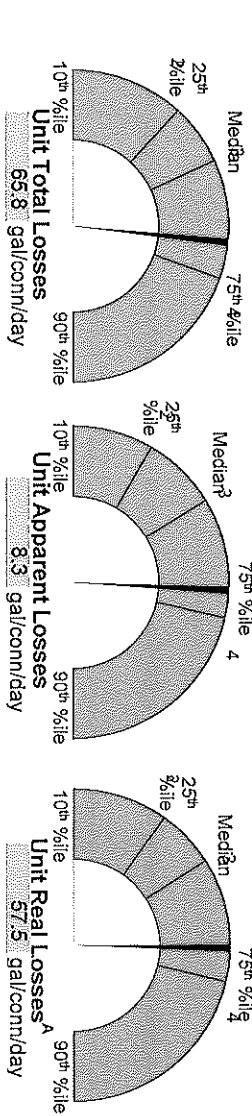
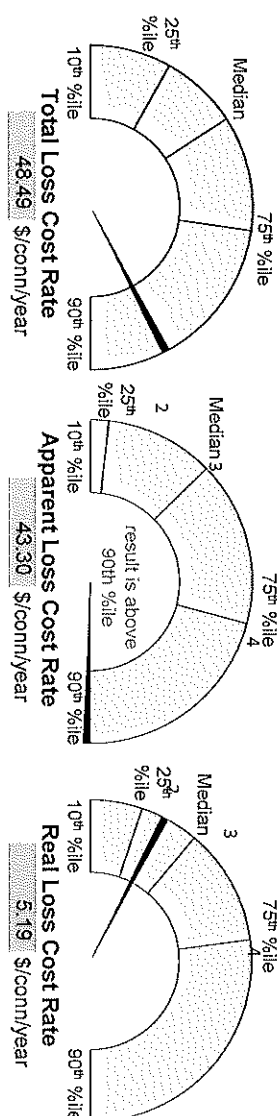


Category	Volume (MG/yr)	Value (\$/yr)	Basis of Valuation
Real Losses	24.9	\$51,395	CRUC
Unauthorized Consumption	4.1	\$6,160	VPC
Systematic Data Handling Errors	0.2	\$39	VPC
Customer Metering Inaccuracies	28.7	\$57,593	Blended

Key Performance Indicators

Actual KPI result gauge %iles per validated industry ranges²

Target (see Worksheet)



(UARL) Unavoidable Annual Real Losses

Guidance Information for Key Performance

The eight indicators shown are the recommended suite per the AWWA Water Loss Control Committee 2020 Position on KPIs¹. A suite of KPIs is necessary, as no single KPI can holistically communicate water loss performance for a given water system.

See Table 1 below for Uses and Limitations for each KPI, excerpted from the AWWA Water Loss Control Committee Report (2020)², with naming conventions updated. Percentiles (%iles) shown on KPI gauges come from Level 1 validated data in the AWWA WLC Reference Water Audit Dataset (2020)².

KPI %iles shown above are not segregated by cohorts. Limited

Table 1 Source: AWWA Water Loss Control Committee Report (2020)¹, with naming conventions updated
2020 AWWA Water Audit Method – Water Audit Outputs and Key Performance Indicators: Uses and Limitations

Type	Indicator	Description	Suitable Purposes					Uses and Limitations	Principal Users
			Assessment	Bench-Marking	Target-Setting	Planning	Tracking		
Attribute	Apparent Loss Volume	Calculated by Free Water Audit Software	✓				✓	Assess loss level	Utility, Regulators
	Apparent Loss Cost	Calculated by Free Water Audit Software	✓				✓	Assess cost loss level	Utility, Regulators
	Real Loss Volume	Calculated by Free Water Audit Software	✓				✓	Assess loss level	Utility, Regulators
	Real Loss Cost	Calculated by Free Water Audit Software	✓				✓	Assess loss cost level	Utility, Regulators
Volume	Unavoidable Annual Real Loss (UARL)	Calculated by Free Water Audit Software	✓				✓	Reveal theoretical technical low level of leakage	Utility, Regulators
	Unit Apparent Losses (vol/conn/day)	Strong and understandable indicator for multiple users.	✓	✓	✓	✓	✓	Used for performance tracking and target-setting	Utility, Regulators
	Unit Real Losses ^a (vol/conn/day)	Strong and understandable indicator for multiple users.	✓	✓	✓	✓	✓	Used for performance tracking and target-setting	Utility, Regulators, Policy Makers
	Unit Real Losses ^a (vol/pipeline length/day)	Strong and understandable indicator for use by utilities with low connection density.	✓	✓	✓	✓	✓	Data collection and assessment of systems with "low" connection density	Utility, Regulators, Policy Makers
Value	Unit Total Losses (vol/conn/day)	Strong and understandable indicator, suitable for high-level performance measurement.	✓				✓	High level indicator for trending analysis. Not appropriate for target-setting or benchmarking	Utilities, Customers
	Infrastructure Leakage Index (ILI)	Robust, specialized ratio KPI; can be influenced by pressure and connection density.	✓	✓			✓	Benchmarking after pressure management is implemented	Utilities
	Apparent Loss Cost Rate (value/conn/year)	Indicators with sufficient technical rigor. Provide the unit financial value of each type of loss, which is useful for planning and assessment of cost efficiency of water loss reduction and control interventions and programs.	✓			✓	✓	Data collection and assessment on AWWA indicators or contextual parameters to use in conjunction with Loss Cost Rates	Utilities, Regulators, Customers
	Real Loss Cost Rate (value/conn/year)		✓			✓	✓		Utilities, Regulators, Customers
Validity	Data Validity Tier (DVT)	Strong indicator of water loss audit data quality, if data has been validated. Tier provides guidance on priority areas of activity.	✓	✓		✓	✓	Assess caliber of data inputs of the water audit	Regulators, Utilities



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SAFE DRINKING WATER

WATER SUPPLY INSPECTION REPORT

Facility Name MACUNGIE BOROUGH AUTHORITY	PWSID No 3390033	Inspection Date 2024-02-06
Facility Location 21 LOCUST ST MACUNGIE, PA 18062-1105	County Lehigh	Municipality Macungie
Responsible Officials Name ROBERT H GLISSON	Telephone: (610) 966-3705	
	System Type: Community	Population: 3039
Certified Operator Name	Field Order Number: -----	
	Issue Date (mm/dd/yy): -----	

Person(s) Interviewed

Name: Doug McNair	Title: Operator
-------------------	-----------------

eFACTS info

Inspection ID: 3708643	Inspection Type RTNC
------------------------	----------------------

Minor Deficiencies

2J - CHLORINE DISINFECTION GASEOUS CHLORINE DISINFECTION CHEMICALS AND EQUIPMENT WTP-301-WELL 1 GAS CHLORINE Remarks: The date of the last chlorine leak detector alarm test is not known, this information should be indicated on the plant's operating reports or maintenance records.
2J - CHLORINE DISINFECTION GASEOUS CHLORINE DISINFECTION CHEMICALS AND EQUIPMENT WTP-302-WELL 2 GAS CHLORINE Remarks: There is no automatic chlorine leak detector with an alarm.

3 - DISTRIBUTION SYSTEM

PIPE MATERIALS

DS-001-MACUNGIE BOROUGH

Remarks: The distribution system contains lead pipes, lead service lines, and/or lead goosenecks.**3 - DISTRIBUTION SYSTEM**

OPERATIONS

DS-001-MACUNGIE BOROUGH

Remarks: Distribution system flushing is not unidirectional.**3 - DISTRIBUTION SYSTEM**

PIPE MATERIALS

DS-002-LOWER MACUNGIE TWP

Remarks: The distribution system contains lead pipes, lead service lines, and/or lead goosenecks.**General Comments**

Inspection conducted with system operator Doug McNair. During inspection previous deficiencies were reviewed. The system has approved on certain elements. All operations appeared well maintained and any open deficiencies are countered by well trained and well responsive staff.

Signatures**Received by(Print Name):**

Doug McNair

Unable To Receive Signature:

Completed offsite

Investigator (Print Name):

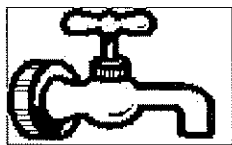
CASTOR J AYALA

Consumer Confidence Report

March 2024

Macungie, PA. 18062

PWSID No. 3390033



About Your Drinking Water

This Report contains water quality information for the consumers of water provided by your public water supplier, the Borough of Macungie. You will find basic information on where your water comes from, the number of detected contaminants that we test for, information of our compliance with drinking water regulations, and where to find further information about drinking water. Our goal is to help you have a better understanding about the water you use every day.

The source of your tap water is from two groundwater wells. Well No. 1 is located at the Municipal Garage. The well was drilled to a depth of 300 feet. Well No. 2 is located on Lehigh Street, 1,750 feet from N. Church St. The well was drilled to a depth of 430 feet. The water is pumped from the geological region known as the Leithsville Formation. As water is pumped from the wells and allowed to enter the distribution system, chlorine is added to the water to protect the water against microbial contamination.

Monitoring Your Water

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

All sources of drinking water, including bottled water, are subject to potential contamination by constituents that are naturally occurring or man-made. Those constituents can be microbes, organic or inorganic chemicals, or radioactive materials. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

We are pleased to report that our water meets or exceeds federal and state requirements. If you would like additional information about your water, you may contact Douglas McNair, Borough of Macungie, 610-966-2503. Public concerns and comments may be expressed at any of the Authority's meetings. The Authority meets at the Macungie Institute, 510 E. Main Street, Macungie, PA on the second Thursday of the month beginning at 7:00 p.m.

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda. (This report contains important information about your drinking water. Have someone translate it for you or speak with someone who understands it.)

Consumer Confidence Reports will be issued by July 1st of every year.

Water Quality Test Results

As a public water supplier, we are required to test our water on a regular basis to ensure its safety. The Table below lists only the drinking water contaminants that we detected. **The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk.** Unless otherwise noted, the data presented in the table is from testing done January 1, through December 31, 2023. The Commonwealth allows us to monitor for certain contaminants less than once per year because the concentration of these contaminants is not expected to vary significantly from year to year.

TYPE OF CONTAMINANTS (UNITS)	MCL or MRDL	MCLG or MRDLG	TEST RESULTS	RANGE OF DETECTION	SAMPLE DATE	VIOLATION	TYPICAL SOURCE OF CONTAMINANTS
DISINFECTANTS & DISINFECTION BY-PRODUCTS:							
Chlorine (ppm)	4	4	0.73	0.66 - 0.73	Weekly	No	Water additive used to control microbes.
Trihalomethanes (THM's) (ppb)	80	n/a	14.10	14.10 – 14.10	August 1, 2023	No	By-product of drinking water chlorination.
Haloacetic Acids (HAA5) (ppb)	60	n/a	3.35	3.35 – 3.35	August 1, 2023	No	By-product of drinking water disinfection.
ENTRY POINT DISINFECTANT RESIDUALS:							
Chlorine (ppm)	4	[^] MinRDL 0.60	0.60	0.60 – 1.10	Daily	No	Water additive used to control microbes.
INORGANIC CHEMICALS:							
Nitrates (ppm)	10	10	3.30	2.84 – 3.30	Annually	No	Runoff from fertilizer use; leaching from septic systems; erosion from natural deposits.
Lead (ppb)	*A.L. = 15	0	3.0	No sites exceeded the A.L. out of the 10 sites sampled	June, 2022	No	Corrosion of household plumbing systems.
Copper (ppm)	*A.L.=1.3	1.3	0.142	No sites exceeded the A.L. out of the 10 sites sampled	June, 2022	No	Corrosion of household plumbing systems.

We had no detection of Synthetic Organic Compounds (SOC's).

We had no detection of Volatile Organic Compounds (VOC'S).

[^]Minimum Residual Disinfectant Level (MinRDL)

*Action Levels (A.L.) are in place of Maximum Contaminate Levels (MCL's).

Terms and Abbreviations

In this table, you will find terms and abbreviations with which you might not be familiar. To help you better understand these terms, we've provided the following definitions:

Action Level (AL) - The concentration of a contaminant which if exceeded triggers treatment or other requirements which a water system must follow.

n/a - not applicable.

Level 1 Assessment - A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment - A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and /or why total coliform bacteria have been found in our water system on multiple occasions.

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The "Goal" is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Residual Disinfectant Level (MRDL) - The highest level of a drinking water disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfection Level Goal (MRDLG) - The level of a drinking water disinfected below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Minimum Residual Disinfectant Residual (MinRDL) - The minimum amount of free chlorine in the water we must maintain at each entry point where the water from our wells is pumped into the distribution system.

Parts per billion (ppb) or micrograms per liter - one part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.

Parts per million (ppm) or milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

PWSID - Our Pennsylvania Water Supply Identification Number.

Total Trihalomethanes (TTHMs) - A group of four chemicals that are formed along with other disinfection byproducts when chlorine or other disinfectants used to control microbial contaminants in drinking water react with naturally occurring organic and inorganic matter in water.

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.



Source Water Assessment

A "Source Water Assessment" of our source(s) was completed by the PA Department of Environmental Protection (Pa. DEP). A summary report of the Assessment was not yet available at time of printing of this report on the source water assessment & protection web page but will be available in the future at,

"<https://www.dep.state.pa.us/dep/deputate/watermgt/wc/Subjects/SrceProt/SourceAssessment/default.htm>". Complete reports were distributed to municipalities, water suppliers, local planning agencies and PADEP offices. Copies of the complete report are available for review at the Pa. DEP Northeast Regional Office, Records Management Unit at 2 Public Square, Wilkes-Barre, PA 18711-0790.

Lead in Drinking Water

National events about lead exposure have generated new concerns for Pennsylvanians related to the safety of their homes and water. The Macungie Borough Authority takes the issue of lead exposure very seriously by adhering to all federal and state regulations pertaining to the lead and copper rule, which requires that public drinking water suppliers regularly test for contaminants such as lead.

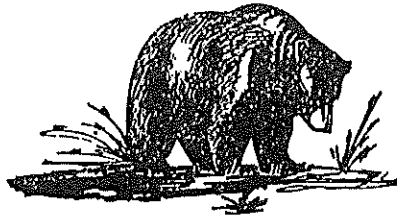
We also want you to know that infants and young children are typically more vulnerable to lead in drinking water than the general population. It is possible that lead levels at your home may be higher than at other homes in the community as a result of materials used in your home's plumbing. If you are concerned about elevated lead levels in your home's water, you may wish to have your water tested and flush your tap for 30 seconds to 2 minutes before using tap water. Additional information is available from the Safe Drinking Water Hotline (800-426-4791).

The purpose of the Lead and Copper Rule is to protect public health by minimizing lead and copper levels in drinking water, primarily by making water less corrosive. When water is corrosive, the lead and copper found in plumbing materials can leach into your drinking water. Pennsylvania's Lead and Copper Rule establishes an action level of 0.015 mg/L for lead and 1.3 mg/L for copper. An action level exceedance is not a violation but can trigger other requirements that include water quality parameter monitoring, corrosion control treatment, source water monitoring/treatment.

The Borough of Macungie is very fortunate to have quality sources of water. The water is naturally neutral, meaning it does not have corrosive properties. As a result, the borough's lead, and copper test results (see the "Water Quality Test Results" table) are well below the action levels as specified in the Lead and Copper rule. To ensure a true representation of our drinking water, the samples are drawn from taps at homes throughout the borough. These homes must meet certain criteria such as having pipes with leaded soldered joints. Another requirement is that the water is left to stand in the pipes for a minimum of 6 hours before drawing the water out to be tested. For more information on lead in drinking water please see the following link on the internet: "<https://extension.psu.edu/lead-in-drinking-water>".

The Authority has a billing system that will allow you to view and print your utilities bills over the internet. They also have added the ability to pay your bill online, although there is a convenience fee that is charged by the online bill paying service.

To learn more about the water and sewer services provided by the Borough of Macungie please visit the Borough's web pages, "http://www.macungie.pa.us/ws_about.html", and "http://www.macungie.pa.us/online_billing.html".



**Macungie Borough Authority
Buttonwood Street Water Replacement Project
Projected Schedule and Key Milestones and Dates
Updated 4/4/2024.**

	<i>Projected Dates</i>
Begin Field Survey and Design	February 12, 2024 (started 2/9/2024)
Initial Submission to PennDOT	March 22, 2024 (submitted 3/21/2024)
Complete Design & Bid Documents	April 8, 2024 (on Schedule)
Authority Authorization to Bid	April 11, 2024
Advertise for Bids:	April 17 & 24, 2024*
Response from PennDOT on HOPs	<i>by April 21, 2024</i>
Pre-Bid Meeting:	April 26, 2024
Receive Bids:	May 6, 2024
Award Bid:	May 9, 2024
Execute Contract Agreement	May 23, 2024
Pre-Construction Meeting	May 28, 2024
Notice to Proceed:	May 29, 2024
Commence Construction:	June 10, 2024
Construction Completion:	September 9, 2024
Project Closeout:	December 1, 2024

* - East Penn Press is weekly paper published on Wednesday's

Cover Sheet
\$1000.00 Request Form
Additional Stortz Adaptors for the Fire Hydrants
March 2024

To: Macungie Borough Authority, & Macungie Borough Council:

From: Macungie Borough Department of Public Works

In July of 2022 in response to the Macungie Fire Department concerns of the hose connections to the fire hydrants and the need for the universal Stortz hose connections on the fire hydrants, Borough Council had asked the Water Authority to outfit all the hydrants in the Borough with the appropriate Stortz connections.

The Department of Public Works began the conversions with the assistance of the Macungie Fire Department in 2023. The initial order did not include private fire hydrants at the East Penn Schools, Allen Organ, & Brookside Country Club. During the installation of the adaptors the Fire Department staff mounted some of the adaptors on the school's fire hydrants, thus fell short of completion for ones in the Borough. This was discussed at the February Authority Meeting and was agreed on as to leave the Stortz adaptors on the school fire hydrants and order more to complete the Borough's fire hydrants. It was also noted by Chief Nosel of the Lower Macungie Fire Dept. A few more hydrants that need the Stortz Adaptors that were missed during the initial order.

A second inventory yielded the need for:

Six - 4.5-inch Stortz adaptors.

Seven - 3.5-inch Stortz adaptors.

Attached:

\$1000.00 Request Form

Quotes from Ferguson, L.B. Water, & Exeter Supply Co.

Date: March 25, 2024

Council Decision:

Template for getting approval on Items greater than \$1000.00

Fill in sections as appropriate.

What is the money being spent on & why is this needed:

To purchase additional Fire Hydrant Stortz Connection adaptors.

Six – 4.5 Inch Stortz Adaptors, Seven – 3.5 Inch Stortz Adaptors

The adaptors will attach to the existing threaded hose connections on the fire hydrants and adapt them to the 5-Inch Stortz hose couplings currently used by the Macungie Fire Dept.

How much money will be spent in total across the whole project or purchase:

\$3,927.00 plus freight (Figure about \$100 for freight but won't have exact amount until they ship).

Where are funds coming from account, descriptions, and amount:

Line-Item Distribution 6448249

The funding sources:

Water Budget

Was this what the money was budgeted for (yes/no):

No

If not budgeted, what is no longer funded:

Items by prioritization from the Line Items in Distribution 6448249

Is a budget transfer needed (yes/no): To be determined by the Authority / Manger If needed.

From account:

To account:

Amount:

From account:

To account:

Amount:

Is there anything else council should know about this purchase?

More information has been provided on the cover sheet. Competing quotes have been included.



FEL WATERWORKS #022
840 FRONT STREET
WHITEHALL, PA 18062-0000

Phone: 610-264-2231
Fax: 610-264-2285

Deliver To:
From: Both Styer
Comments:

11:59:30 MAR 21 2024

Page 1 of 1

FERGUSON WATERWORKS #020

Price Quotation
Phone: 610-264-2231
Fax: 610-264-2285

Bld No: B486772
Bld Date: 03/20/24
Quoted By: BS

Cust Phone: 610-966-2503
Terms: NET 10TH PROX

Customer: MACUNGIE BOROUGH
21 LOCUST STREET
MACUNGIE, PA 18062

Ship To: MACUNGIE BOROUGH
21 LOCUST STREET
MACUNGIE, PA 18062

Cust PO#:

Job Name: STORZ ADAPTERS

Item	Description	Quantity	Net Price	UM	Total
HPHA5045NHCAP	5X4.5 NH NST STRZ W/ CAP	6	259.000	EA	1554.00
SP-IHPHA5035NHCAP	5X3-1/2 STORTZ ADPT	7	339.000	EA	2373.00
2 WEEKS TO SHIP FROM THE MANUFACTURE					
YOUR PRICE IS DELIVERED					

Net Total: \$3927.00
Tax: \$0.00
Freight: \$0.00
Total: \$3927.00

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTRACTOR CUSTOMERS: IF YOU HAVE DBE/MBE/WBE/VBE/SDVBE/SBE GOOD FAITH EFFORTS DIVERSITY GOALS/ REQUIREMENTS ON A FEDERAL, STATE, LOCAL GOVERNMENT, PRIVATE SECTOR PROJECT, PLEASE CONTACT YOUR BRANCH SALES REPRESENTATIVE IMMEDIATELY PRIOR TO RECEIVING A QUOTE/ORDER.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with "NP" in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.



HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

Scan the QR code or use the link below to
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=922&on=16436>

QUOTATION

L/B Water Service, Inc.
1440 SLEEPY HOLLOW ROAD
QUAKERTOWN, PA 18951
267-875-2056



Quote Number	
1935923	
Quote Date	Page
03/19/2024	1 of 2

Quote Expires On: 03/26/2024

Proposal Submitted to: 13961
BOROUGH OF MACUNGIE
21 LOCUST STREET
MACUNGIE, PA 18062

Ship To:
BOROUGH OF MACUNGIE- SHOP
301 SPRUCE STREET
(CORNER OF SPRUCE AND CHURCH)
MACUNGIE, PA 18062

610-966-2503

Requested By: Doug McNair

PO/Job Name	Salesperson	Entered By
STORZ ADAPTORS	Chris Wilson	CHRIS_WILSON

Quantity	Item	Unit	Extended
Quoted	Item Description	Price	Price

Customer Note: Deliveries to be made from the hours of 7:00 AM. through 1:00 PM.

Delivery Instructions: 3.5 x 5in Storz have a two week lead time plus freight.

DUE TO CONTINUOUSLY CHANGING SUPPLY CHAIN CONDITIONS, MATERIALS ARE SUBJECT TO PRICING AT TIME OF SHIPMENT. MATERIAL AVAILABILITY AND TIMELINESS OF SHIPMENTS CANNOT BE GUARANTEED. THIS TERM SUPERSEDES ALL OTHER CONTRACTUAL PROVISIONS.

6.00	EA	4.5X5STORZ-H 4-1/2IN NST FEMALE X 5IN STORZ METAL FACE PERMANENT NON-LOCKING HYDRANT ADAPTER W/ CAP, CABLE, SET SCREWS DARK ANODIZED (HPHA50-45NH/CAP)(HARRINGTON)	\$300.00	\$1,800.00
7.00	EA	MSC-10220191 ***NON-STOCK*** 3-1/2"FEMALE NH X 5"STORZ ADAPT WITH CAP & CABLE. PART# HPHA50-35NH/CAP	\$350.00	\$2,450.00

Total Lines: 2

SUB-TOTAL: 4,250.00

TAX: 0.00

Estimated Freight In: 0.00

Estimated Freight Out: 50.00

ESTIMATED FREIGHT 50.00

Freight is estimated. Actual freight charges may vary.

EXTENDED QUOTE \$\$: 4,300.00

QUOTATION

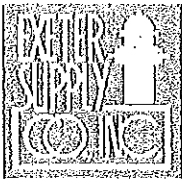
L/B Water Service, Inc.
1440 SLEEPY HOLLOW ROAD
QUAKERTOWN, PA 18951
267-875-2056



Quote Number	
1935923	
Quote Date	Page
03/19/2024	2 of 2

Quote Expires On: 03/26/2024

Quantity	Unit	Item Description	Unit Price	Extended Price
L/B Water Service, Inc. TERMS AND CONDITIONS OF SALE				
<p>Please see full terms and conditions at www.lbh2o.com. These terms and conditions (these "Terms") apply to the purchase and sale of products ("Goods") from L/B Water Service, Inc. (the "Seller") and are subject to change by Seller without prior written notice at any time, at Seller's sole discretion. Any purchases by Purchaser after written notice by Seller of such changes either via its website or other writing will constitute Purchaser's acceptance of and agreement to the Terms.</p>				
<p>I/we, _____, hereby agree to purchase the goods presented on this quotation and to accept the terms and conditions listed above.</p>				
Signature		Title	Date	



117 Prospect Street
Reading, PA 19606
Phone: 610-779-4230
Fax: 610-779-0981

QUOTE

Page 1

Quote Date	Expires	Authorization	Salesperson	Cust #	Terms
3/19/24		DOUG McNAIR	Greg Brizek	130110	Net 30 Days
Quote #	P.O. Number	Quoted By	Ship Via	Prod/Col	Shipped From
01/714855		Dave Maillie	CHOOSE ONE		Reading, PA

Sold To DOUG McNAIR
MACUNGIE BOROUGH
21 LOCUST ST
MACUNGIE PA 18062

Ship To MACUNGIE BOROUGH
21 LOCUST ST
MACUNGIE PA 18062

Phone/Fax 610-966-3705 / 610-966-2788

Job Info STORZ ADAPTER

Quantity	Our Stock #/Description/Your Part #	Unit Price	UM	Extended Price
6	HARR-NHTXSTORZ 4 1/2" FEMALE NATIONAL STANDARD THREAD X 5" STORZ W/ CAP	285.00	EA	1,710.00
7	*HPHA50-35NH/Cap Metal Face Storz Adapter * 5" Storz x 3.5" NH Female * with Storz cap & reflective * stainless steel aircraft cable * Dark Anodized FREIGHT WILL APPLY LEAD TIME : ~ 2 WEEKS <div>1710. 2660 <hr/>4,370.</div>	380.00	EA	2,660.00
DUE TO CURRENT SUPPLY CHAIN DISRUPTIONS, MATERIALS ARE SUBJECT TO PRICING AT TIME OF SHIPMENT. MATERIAL AVAILABILITY AND TIMELINESS OF SHIPMENTS CANNOT BE GUARANTEED. THIS QUOTATION REPRESENTS PRICING BASED ON CURRENT MARKET CONDITIONS. THANK YOU FOR YOUR PATIENCE AND UNDERSTANDING.				16 4,370.00
Products that have an (*) at the beginning of the 'Stock Number' are non-stock products and therefore not returnable. Due to possible revisions, addendums, site conditions, etc. this take off is for our pricing only. The customer is to verify product, quantities and specifications.		Locations In:		SubTotal
		Reading 610-779-4230 Manheim 717-898-2467 Williamsport 670-329-2100 York 717-792-0811 Nazareth 610-759-7301 Skippack 610-684-6431		Freight
				Sales Tax
				Quote Total
Note: PVC pipe and copper tubing prices subject to change based on order and ship date. Prices good for 30 days except as noted. Applicable sales tax will apply. This quote is valid for customers who have an account in good standing with Exeter Supply Co., Inc.		Orders charged to a credit card are subject to a 4% credit card processing fee. Exeter Supply Co., Inc. is not responsible for quantities or types of materials quoted. It is the responsibility of the customer to check local specifications for each job. We appreciate your business!		

From: Douglas McNair
To: Jeff Stauffer; Bob Bogert (cbogert@ptd.net); Todd Ritter (toddritter1962@gmail.com);
lorraine.walters@freseniusmedicalcare.com; John Brown; Ashley Rinker
Cc: Tracy Smith; Michael Smith; Chris Wilson (Chris.Wilson@lbh2o.com)
Subject: New Proposals for Hillcrest Tank Water Level Controller
Date: Tuesday, April 2, 2024 11:57:06 AM
Attachments: [OrdAck1937383.pdf](#)
[Qte1940006.pdf](#)

April 2, 2024

Greetings:

RE: New Tank Controller Proposals from L B Water (Attached). John and Ashley, Please include this note and the attachment's in the packets for discussion and possible approvals at their next Authority meeting. Thank you.

As reported at February's Authority Meeting (for your reference below is the item as reported in the Water Operator's Notes.)

After a Zoom meeting with Chris Wilson of Exeter Supply and the Rafa Team, We had come to the realization that the original proposal specified controllers that would not be capable of direct control through the cellular communications network, but the control would be through the internet and the cell system. We thought we had made this clear to the Rafea Team that we wanted to use only the cellular system only for control. Apparently they had thought that it was clear to us that control would be over the internet in combination with cellular communication to the remote stations.

As per the Zoom meeting: A new proposal was presented for review and approval. Along with a additional proposal for a controller at the Public Works Office that will work over the cellular communications system.

Please see the attached pdf file: OrdAck1937383. The new proposal comes in slightly less at \$39,198.03 then the original proposal at \$40,542.13.

The reasoning is to keep the new proposal within the approved amount of the original proposal. The tradeoff is that it does not include the controller at the shop, which then could be added to the 2025 budget next year at \$17,309.00. (Attached pdf: Qte1940006.)

It would however mean that the control would be over the internet until the installation of the controller at the office the following year.

Because of this, it does defeat the purpose of avoiding control over the internet until the controller is installed at the office, therefore the water operators recommends the approval for the transfer of funds for the purchase of the additional controller for the Public Works Office

this year along with the approval for the main system as presented in the pdf file:
OrdAck1937383.

Thank you for your time and consideration in this matter.

Regards,

Water Operators T. Smith, M. Smith & D. McNair

From the:
Macungie Borough Authority
Water Operator Notes
February 2024

Maintenance:

Hillcrest Water Level Tank Controller:

- On February 5, the water operators, Jason from Rafa Systems and Chris Wilson of Exeter supply had a video conference to review and discuss the proposed Rafa Control System for the Hillcrest Water Storage Tank.

After discussing the proposed system, it was determined the original proposed controllers may not fit our needs and may require a step up to the next level controllers.

Jason is putting together a revised proposal and will work with us in minimizing cost increases.

It does mean we may have to go through the approval process again.

We will keep you posted when we receive the revised proposal.

ORDER ACKNOWLEDGEMENT

L/B Water Service, Inc.
1440 SLEEPY HOLLOW ROAD
QUAKERTOWN, PA 18951
267-875-2056



Order Number	
1937383	
Order Date	Page
03/29/2024	1 of 3

**** COSTARS ** #016-E22-212**

Bill To: 13961
BOROUGH OF MACUNGIE
21 LOCUST STREET
MACUNGIE, PA 18062

Ship To:
BOROUGH OF MACUNGIE- SHOP
301 SPRUCE STREET
(CORNER OF SPRUCE AND CHURCH)
MACUNGIE, PA 18062

610-966-2503

Ordered By: Doug McNair

PO/Job Name	Salesperson	Entered By
REVISED RAFA CONTROLLERS	Chris Wilson	CHRIS_WILSON

Quantities			UOM	Disp.	Item ID Item Description	Unit Price	Extended Price
Ordered	Allocated	Remaining					

Customer Note: Deliveries to be made from the hours of 7:00
AM, through 1:00 PM.

DUE TO CONTINUOUSLY CHANGING SUPPLY CHAIN CONDITIONS, MATERIALS ARE SUBJECT TO PRICING AT TIME OF SHIPMENT. MATERIAL AVAILABILITY AND TIMELINESS OF SHIPMENTS CANNOT BE GUARANTEED. THIS TERM SUPERSEDES ALL OTHER CONTRACTUAL PROVISIONS.

HILLCREST TANK

1.00	0.00	1.00	EA	B	MSC-10210188 ***NON-STOCK*** RAFALTE600EN RAFA 600 CONTROLLER: 6 DIGITAL INPUTS, 2 ANALOG INPUTS, 2 PULSE RELAYS, 4 POWER RELAYS, BUILT-IN DATALOGGING AND TOUCHSCREEN (ADDITIONAL ANALOG AND SENSOR CARDS AVAILABLE)	\$6,127.00	\$6,127.00
------	------	------	----	---	---	------------	------------

1.00	0.00	1.00	EA	B	MSC-10207025 ***NON-STOCK*** R110-001-0 RAFA 1 ACTIVATION AND SUBSCRIPTION RENEWAL 1YEAR FOLLOWING FIRST MONTH OF SERVICE, INCLUDES PLATFORM ACCESS TO THE RAFA SYSTEM WITH REAL TIME CELLULAR COMUNICATION.	\$500.00	\$500.00
------	------	------	----	---	--	----------	----------

VINE ST. PUMP STATION 2 PUMPS

1.00	0.00	1.00	EA	B	MSC-10238719 ***NON-STOCK*** RAFALTE900EN 12 DIGITAL INPUTS, 6 ANALOG INPUTS, 4 RELAYS, BUILTIN DATALOGGING AND TOUCH-SCREEN (ADDITIONAL ANALOG, SENSOR, AND 4-20MA OUTPUT CARDS AVAILABLE) NEMA 4X BOX, MOUNTED	\$8,565.14	\$8,565.14
1.00	0.00	1.00	EA	B	MSC-10220964 ***NON-STOCK***	\$220.00	\$220.00

Signature _____

ORDER ACKNOWLEDGEMENT

L/B Water Service, Inc.
1440 SLEEPY HOLLOW ROAD
QUAKERTOWN, PA 18951
267-875-2056



Order Number	
1937383	
Order Date	Page
03/29/2024	2 of 3

**** COSTARS ** #016-E22-212**

Quantities					Item ID Item Description	Unit Price	Extended Price
Ordered	Allocated	Remaining	UOM	Disp.			
EXTERNAL ANTENNA TO MOUNT ON POLE							
1.00	0.00	1.00	EA	B	MSC-10207025 ***NON-STOCK*** R110-001-0 RAFA 1 ACTIVATION AND SUBSCRIPTION RENEWAL 1YEAR FOLLOWING FIRST MONTH OF SERVICE, INCLUDES PLATFORM ACCESS TO THE RAFA SYSTEM WITH REAL TIME CELLULAR COMUNICATION.	\$500.00	\$500.00
MAPLE ST. PUMP STATION							
1.00	0.00	1.00	EA	B	MSC-10238719 ***NON-STOCK*** RAFALTE900EN RAFA 900 CONTROLLER: 12 DIGITAL INPUTS, 6 ANALOG INPUTS, 4 RELAYS, BULTIN DATALOGGING AND TOUCH-SCREEN (ADDITIONAL ANALOG, SENSOR, AND 4-20MA OUTPUT CARDS AVAILABLE) Ordered As: RAFALTE900EN	\$8,565.14	\$8,565.14
1.00	0.00	1.00	EA	B	MSC-10220964 ***NON-STOCK*** EXTERNAL ANTENNA TO MOUNT ON POLE	\$220.00	\$220.00
1.00	0.00	1.00	EA	B	MSC-10207025 ***NON-STOCK*** R110-001-0 RAFA 1 ACTIVATION AND SUBSCRIPTION RENEWAL 1YEAR FOLLOWING FIRST MONTH OF SERVICE, INCLUDES PLATFORM ACCESS TO THE RAFA SYSTEM WITH REAL TIME CELLULAR COMMUNICATION.	\$500.00	\$500.00
3.00	0.00	3.00	EA	B	MSC-10200781 ***NON-STOCK*** RAFA-SU-TR SETUP - TRAINING INCLUDES INITIAL PROGRAMMING AND SETUP OF CONTROLLERS. TRAINING OF OPERATORS AND SETUP PROGRAMMING DURING INSTALLATION. INCLUDES FOLLOW-UP TRAINING AND PROGRAMMING AFTER THE SALE.	\$500.00	\$1,500.00
1.00	0.00	1.00	EA	B	MSC-10200786 ***NON-STOCK*** RAFA-IN RAFASTM600 INSTALLATION, TRAVEL EXP, INSTALLATION REQUIRES CONDUITS, EXISTING WIRING TO BE CONNECTED, AND 120V RECEPTACLE WITHIN 8' OF RAFA SYSTEM INSTALL PLACEMENT***	\$12,200.75	\$12,200.75
1.00	0.00	1.00	EA	B	MSC-10247380 ***NON-STOCK*** RAFA FREIGHT	\$300.00	\$300.00

Total Lines: 14

SUB-TOTAL: 39,198.03

TAX: 0.00

AMOUNT TENDERED : 0.00

Signature _____

ORDER ACKNOWLEDGEMENT

L/B Water Service, Inc.
1440 SLEEPY HOLLOW ROAD
QUAKERTOWN, PA 18951
267-875-2056



Order Number	
1937383	
Order Date	Page
03/29/2024	3 of 3

** COSTARS ** #016-E22-212

Quantities				Item ID Item Description	Unit Price	Extended Price
Ordered	Allocated	Remaining	UOM			

AMOUNT DUE: 39,198.03

L/B Water Service, Inc.
TERMS AND CONDITIONS OF SALE

Please see full terms and conditions at www.lbh2o.com. These terms and conditions (these "Terms") apply to the purchase and sale of products ("Goods") from L/B Water Service, Inc. (the "Seller") and are subject to change by Seller without prior written notice at any time, at Seller's sole discretion. Any purchases by Purchaser after written notice by Seller of such changes either via its website or other writing will constitute Purchaser's acceptance of and agreement to the Terms.

I/we, _____, hereby agree to purchase the goods presented on this quotation and to accept the terms and conditions listed above.

Signature

Title

Date

Signature _____

QUOTATION

L/B Water Service, Inc.
35 PLEASANT VALLEY ROAD
EPHRATA, PA 17522
717-738-0389



Quote Number	
1940006	
Quote Date	Page
03/29/2024	1 of 2

Quote Expires On: 04/05/2024

Proposal Submitted to: 13961
BOROUGH OF MACUNGIE
21 LOCUST STREET
MACUNGIE, PA 18062

Ship To:
BOROUGH OF MACUNGIE- SHOP
301 SPRUCE STREET
(CORNER OF SPRUCE AND CHURCH)
MACUNGIE, PA 18062

610-966-2503

Requested By: Doug McNair

PO/Job Name	Salesperson	Entered By
RAFA WELL #1/OFFICE	Chris Wilson	CHRIS_WILSON

Quantity	UOM	Item ID	Item Description	Unit Price	Extended Price
Quoted					

Customer Note: Deliveries to be made from the hours of 7:00 AM. through 1:00 PM.

DUE TO CONTINUOUSLY CHANGING SUPPLY CHAIN CONDITIONS, MATERIALS ARE SUBJECT TO PRICING AT TIME OF SHIPMENT. MATERIAL AVAILABILITY AND TIMELINESS OF SHIPMENTS CANNOT BE GUARANTEED. THIS TERM SUPERSEDES ALL OTHER CONTRACTUAL PROVISIONS.

1.00	EA	MSC-10207017	***NON-STOCK*** RAFAALTE900 RAFA900 CONTOLLER 12 DIGITAL INPUTS 6 ANALOG INPUTS, 4 RELAY AND PULSE OUTPUTS BUILT IN DATA LOGGINS AND TOUCH SCREEN, SURGE PROTECTION AND NAMA 4X OUTDOOR BOX MONTED ON PLY BACKER BOARD 5M CALLULAR ANTENNA (2 YEAR WARRANTY ON CONTROLLER AND LIFETIMER ON COMMUNICATION COMPONENTS	\$10,909.00	\$10,909.00
1.00	EA	MSC-10200781	***NON-STOCK*** RAFA-SU-TR SETUP - TRAINING INCLUDES INITIAL PROGRAMMING AND SETUP OF CONTROLLERS. TRAINING OF OPERATORS AND SETUP PROGRAMMING DURING INSTALLATION. INCLUDES FOLLOW-UP TRAINING AND PROGRAMMING AFTER THE SALE.	\$500.00	\$500.00
1.00	EA	MSC-10200793	***NON-STOCK*** R110-001-0 RAFA 1 ACTIVATION & SUBSCRIPTION -PROVIDES PLATFORM ACCESS TO THE RAFA SYSTEMS WITH REAL-TIME CELLULAR COMMUNICATIONS. RENEWAL DATE WILL BEGIN 1 YEAR FROM THE 1ST OF THE MONTH AFTER INSTALLATION. INCLUDES DATA AND ACCESS TO ALL RAFA SYSTEM LOCATIONS.	\$500.00	\$500.00
1.00	EA	MSC-10247693	***NON-STOCK*** RAFA-IN RAFA INSTALLATION MATERIALS TRAVEL AND EXPENSES	\$5,325.00	\$5,325.00

QUOTATION

L/B Water Service, Inc.
35 PLEASANT VALLEY ROAD
EPHRATA, PA 17522
717-738-0389



Quote Number	
1940006	
Quote Date	Page
03/29/2024	2 of 2

Quote Expires On: 04/05/2024

Quantity		Item ID Item Description	Unit Price	Extended Price
Quoted	UOM			

Total Lines: 4

SUB-TOTAL: 17,234.00

TAX: 0.00

Estimated Freight In: 0.00

Estimated Freight Out: 75.00

ESTIMATED FREIGHT 75.00

Freight is estimated. Actual freight charges may vary.

EXTENDED QUOTE \$\$: 17,309.00

L/B Water Service, Inc.
TERMS AND CONDITIONS OF SALE

Please see full terms and conditions at www.lbh2o.com. These terms and conditions (these "Terms") apply to the purchase and sale of products ("Goods") from L/B Water Service, Inc. (the "Seller") and are subject to change by Seller without prior written notice at any time, at Seller's sole discretion. Any purchases by Purchaser after written notice by Seller of such changes either via its website or other writing will constitute Purchaser's acceptance of and agreement to the Terms.

I/we, _____, hereby agree to purchase the goods presented on this quotation and to accept the terms and conditions listed above.

Signature

Title

Date

Cover Sheet
*\$1000.00 Request Form
Brass Service Line "Y" fittings
March 2024

To: Macungie Borough Authority, & Macungie Borough Council:

From: Macungie Borough Department of Public Works

*Although this purchase is under \$1000.00. As a courtesy, and a first-time purchase that was not a consideration in the 2024 budget, a \$1000.00 form was submitted for your review and approval.

During the recent service line repairs at 26 E. Main Street, it was noted that a "Y" type of water service lateral connection was used to join two three quarter inch service lines into one larger service water lateral that serves the Laundromat. The Department of Public Works does not keep these replacement parts on the shelf for emergency or sudden replacements. As some of the sizes are not kept in stock at the supply houses, and the current lead times from the manufacturer are 12 weeks or longer.

Using two three quarter inch taps to supply a larger water lateral must have been a common practice years ago. For known connection that exist (past and present) in the Borough that we are aware of:

- Laundromat (Main & Lea St.)
- Macungie Veterinary Building
- Macungie Fire Department Building.
- Service line on Thorn St. (past)
- 144 E. Main St. (potential)
- 550 E. Main St. (potential)

The Dept. finds it pertinent to add the "Y" fittings into the "on the shelf" repair inventory.

Attached:

\$1000.00 Request Form

Cost Comparison Matrix.

Quotes from Ferguson, Core & Main, L.B. Water, & Exeter Supply Co.

Specification Product Sheets

Date: March 25, 2024

Council Decision:

Template for getting approval on items greater than \$1000.00

Fill in sections as appropriate.

What is the money being spent on & why is this needed:

To purchase "Y" water service line replacement fittings to keep "on the shelf" for emergency repairs. This is a first-time purchase for "on the shelf" inventory.

One of each: $\frac{3}{4}$ X $\frac{3}{4}$ in., $\frac{3}{4}$ X 1 $\frac{1}{2}$ in., & $\frac{3}{4}$ X 2 in. fittings.

Is it broken or new? new

How much money will be spent in total across the whole project or purchase:

\$427.42 plus freight

Where are funds coming from account, descriptions, and amount:

Line-Item Distribution 6448249

The funding sources:

Water Budget

Was this what the money was budgeted for (yes/no):

Money is allocated for the purchase of replacement fittings annually; however, these items are a first-time purchase to keep "on the shelf" for emergency repairs.

If not budgeted, what is no longer funded:

Items by prioritization from the Line Items in Distribution 6448249

Is a budget transfer needed (yes/no): To be determined by the Authority / Manager if needed.

From account:

To account:

Amount:

From account:

To account:

Amount:

Is there anything else council should know about this purchase?

Detailed information has been provided on the cover sheet. Competing quotes have been included.

Water Service "Y" Fitting Cost Comparison Matrix

	3/4 X 3/4	3/4 X 1 1/2	3/4 X 2.0	Lead Time
Supply House:				
LB Water	not available	188.76	304.43	14 weeks
Exeter	66.48	145.01	not available	13 weeks
Core & Main	69.53	151.69	331.30	25 weeks
Ferguson	63.09	142.63	221.70	12 weeks
Best Buy Total	427.42			

freight not included



FEL WATERWORKS #922
849 FRONT STREET
WHITEHALL, PA 18062-0000

Phone: 610-264-2231
Fax: 610-264-2285

Deliver To:
From: Bath Styer
Comments:

14:29:24 MAR 25 2024

Page 1 of 2

FERGUSON WATERWORKS #920

Price Quotation
Phone: 610-264-2231
Fax: 610-264-2285

Bid No: B487171
Bid Date: 03/25/24
Quoted By: BS

Cust Phone: 610-966-2503
Terms: NET 10TH PROX

Customer: MACUNGIE BOROUGH
21 LOCUST STREET
MACUNGIE, PA 18062

Ship To: MACUNGIE BOROUGH
21 LOCUST STREET
MACUNGIE, PA 18062

Cust PO#:

Job Name: BRASS Y BRANCHES

Item	Description	Quantity	Net Price	UM	Total
SP-A708YSQQ3/4X3/4	3/4 X 3/4 Y BRANCH BRASS NL	1	63.090	EA	63.09
SP-A708YSQQ11/2X3/4	1 1/2 X 3/4 Y BRANCH BRASS NL	1	142.630	EA	142.63

	THE 2" WITH (2) 3/4"				
	BRANCHES WILL NEED (3)				
	FITTINGS TO MAKE (1)				

M708YSQQKG	LF 2X1 COMP X COMP Y BRCH	1	163.790	EA	163.79
SP-M74892QL1X3/4	1X3/4 COMP NUT X 1 CTS Q COMP	2	28.955	EA	57.91

	OFFERING AY McDONALD BRASS				

	CURRENTLY ALL ARE IN STOCK				
	AT AY McDONALD EXCEPT THE				
	1 1/2 X 3/4 Y BRANCH WHICH				
	IS APPROX 12 WEEKS TO SHIP				
	FROM THE MANUFACTURE				

Net Total: \$427.42
Tax: \$0.00
Freight: \$0.00
Total: \$427.42



HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

Scan the QR code or use the link below to
complete a survey about your bids:
<https://survey.medallia.com/?bidsorder&fc=922&on=16436>



FERGUSON WATERWORKS #920
Price Quotation

Fax: 610-264-2285

14:29:24 MAR 25 2024

Reference No: B487171

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

CONTRACTOR CUSTOMERS: IF YOU HAVE DBE/MBE/WBE/VBE/SDVBE/SBE GOOD FAITH EFFORTS DIVERSITY GOALS/ REQUIREMENTS ON A FEDERAL, STATE, LOCAL GOVERNMENT, PRIVATE SECTOR PROJECT, PLEASE CONTACT YOUR BRANCH SALES REPRESENTATIVE IMMEDIATELY PRIOR TO RECEIVING A QUOTE/ORDER.

Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>
Govt Buyers: All items are open market unless noted otherwise.

LEAD LAW WARNING: It is illegal to install products that are not "lead free" in accordance with US Federal or other applicable law in potable water systems anticipated for human consumption. Products with "NP" in the description are NOT lead free and can only be installed in non-potable applications. Buyer is solely responsible for product selection.



HOW ARE WE DOING? WE WANT YOUR FEEDBACK!

Scan the QR code or use the link below to
complete a survey about your bids:

<https://survey.medallia.com/?bidsorder&fc=922&on=16436>



Bid Proposal for Brass

CUSTOMER	MACUNGIE BOROUGH 301 S CHURCH ST MACUNGIE, PA 18062	Job Brass allentown, PA Bid Date: 03/19/2024 Bid #: 3433113
	Sales Representative Angellque Ferrentino (T) 610-481-9979 (F) 610-481-9863 Angellque.Ferrentino@coreandmain.com	Core & Main 615 Grammes Lane Allentown, PA 18104 (T) 6104819979
	25 week lead time per Ford*****	
CONTACT		
NOTES		



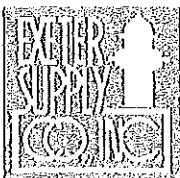
Bid Proposal for Brass

MACUNGIE BOROUGH
Job Location: allentown, PA
Bid Date: 03/19/2024
Core & Main 3433113

Core & Main
615 Grammes Lane
Allentown, PA 18104
Phone: 6104819979
Fax: 6104819863

Seq#	Qty	Part Number	Description	Units	Price	Ext Price
10	1	391007Y44233QNL	Y44-233QNL 3/4 WYE Q-NUT (CTS) (NO LEAD)	EA	69.53	69.53
20	1	391507Y44263QNL	Y44-263-Q-NL 1-1/2X3/4X3/4 WYE CTS QJ NO LEAD	EA	151.69	151.69
30	1	NS	Y44-273-AWT-QNL 2"X3/4 WYE	EA	331.30	331.30
					Sub Total	552.52
					Tax	0.00
					Total	552.52

UNLESS OTHERWISE SPECIFIED HEREIN, PRICES QUOTED ARE VALID IF ACCEPTED BY CUSTOMER AND PRODUCTS ARE RELEASED BY CUSTOMER FOR MANUFACTURE WITHIN THIRTY (30) CALENDAR DAYS FROM THE DATE OF THIS QUOTATION. CORE & MAIN LP RESERVES THE RIGHT TO INCREASE PRICES TO ADDRESS FACTORS, INCLUDING BUT NOT LIMITED TO, GOVERNMENT REGULATIONS, TARIFFS, TRANSPORTATION, FUEL AND RAW MATERIAL COSTS. DELIVERY WILL COMMENCE BASED UPON MANUFACTURER LEAD TIMES. ANY MATERIAL DELIVERIES DELAYED BEYOND MANUFACTURER LEAD TIMES MAY BE SUBJECT TO PRICE INCREASES AND/OR APPLICABLE STORAGE FEES. THIS BID PROPOSAL IS CONTINGENT UPON BUYER'S ACCEPTANCE OF SELLER'S TERMS AND CONDITIONS OF SALE, AS MODIFIED FROM TIME TO TIME, WHICH CAN BE FOUND AT: <https://coreandmain.com/TandC/>



117 Prospect Street
Reading, PA 19606
Phone: 610-779-4230
Fax: 610-779-0981

QUOTE

Page 1

Quote Date	Expires	Authorization	Salesperson	Cust #	Terms
3/22/24		DOUG McNAIR	Greg Brizek	130110	Net 30 Days
Quote #	P.O. Number	Quoted By	Ship Via	Ppd/Col	Shipped From
01/714944		STEPH KENSIL	CHOOSE ONE		Reading, PA

Sold To DOUG McNAIR
MACUNGIE BOROUGH
21 LOCUST ST
MACUNGIE PA 18062

Ship To MACUNGIE BOROUGH
21 LOCUST ST
MACUNGIE PA 18062

Phone/Fax 610-966-3705 / 610-966-2788

Job Info COMPRESSION Y-BRANCHES

Quantity	Our Stock #/Description/Your Part #	Unit Price	UM	Extended Price
1	*5127-447 MODEL #708YS22 3/4"x3/4" Y-BRANCH * CTS x (TWO) CTS - NL - IN STOCK AT MANUFACTURER - PLUS FREIGHT	66.48	EA	66.48
1	*5127-470 MODEL #708YS22 1-1/2"x3/4" * Y-BRANCH CTS x (TWO) CTS - NL - EST 13 WEEK LEAD TIME - PLUS FREIGHT NO QUOTE ON 2"x3/4" STEPH KENSIL 484-334-2955 steph@exetersupply.com FOR ANY PROJECTS THAT MUST BE AMERICAN IRON AND STEEL (AIS) COMPLIANT, YOU MUST NOTIFY US PRIOR TO QUOTING BECAUSE PRICING ON THOSE PRODUCTS IS HIGHER. CERTS FOR THESE PROJECTS MUST BE REQUESTED PRIOR TO THE MATERIAL SHIPPING. CERTS CANNOT AND WILL NOT BE SUPPLIED AFTER MATERIAL IS SHIPPED.	145.01	EA	145.01
<p>Products that have an (*) at the beginning of the 'Stock Number' are non-stock products and therefore not returnable. Due to possible revisions, addendums, site conditions, etc. this take off is for our pricing only. The customer is to verify product, quantities and specifications.</p> <p>Locations In: Reading 610-779-4230 Manheim 717-898-2467 Williamsport 570-329-2100 York 717-792-0611 Nazareth 610-769-7301 Skippack 610-584-6431</p>		SubTotal		
		Freight		
		Sales Tax		
		Quote Total		**Continued**
<p>Note: PVC pipe and copper tubing prices subject to change based on order and ship date. Prices good for 30 days except as noted. Applicable sales tax will apply. This quote is valid for customers who have an account in good standing with Exeter Supply Co., Inc.</p>		<p>Orders charged to a credit card are subject to a 4% credit card processing fee. Exeter Supply Co., Inc. is not responsible for quantities or types of materials quoted. It is the responsibility of the customer to check local specifications for each job. We appreciate your business!</p>		



117 Prospect Street
Reading, PA 19606
Phone: 610-779-4230
Fax: 610-779-0981

QUOTE

Page 2

Quote Date	Expires	Authorization	Salesperson	Cust #	Terms
3/22/24		DOUG McNAIR	Greg Brizek	130110	Net 30 Days
Quote #	P.O. Number	Quoted By	Ship Via	Pnd/Col	Shipped From
01/714944		STEPH KENSIL	CHOOSE ONE		Reading, PA

Sold To DOUG McNAIR
MACUNGIE BOROUGH
21 LOCUST ST
MACUNGIE PA 18062

Ship To MACUNGIE BOROUGH
21 LOCUST ST
MACUNGIE PA 18062

Phone/Fax 610-966-3705 / 610-966-2788

Job Info COMPRESSION Y-BRANCHES

Quantity	Our Stock #/Description/Your Part #	Unit Price	UM	Extended Price
DUE TO CURRENT SUPPLY CHAIN DISRUPTIONS, MATERIALS ARE SUBJECT TO PRICING AT TIME OF SHIPMENT. MATERIAL AVAILABILITY AND TIMELINESS OF SHIPMENTS CANNOT BE GUARANTEED. THIS QUOTATION REPRESENTS PRICING BASED ON CURRENT MARKET CONDITIONS. THANK YOU FOR YOUR PATIENCE AND UNDERSTANDING.				
Products that have an (*) at the beginning of the 'Stock Number' are non-stock products and therefore not returnable. Due to possible revisions, addendums, site conditions, etc. this take off is for our pricing only. The customer is to verify product, quantities and specifications. Locations In: Reading 610-779-4230 Manheim 717-898-2467 Williamsport 570-329-2100 York 717-792-0611 Nazareth 610-759-7301 Skippack 610-584-5431		SubTotal		211.49
		Freight		
		Sales Tax		0.00
		Quote Total		211.49
Note: PVC pipe and copper tubing prices subject to change based on order and ship date. Prices good for 30 days except as noted. Applicable sales tax will apply. This quote is valid for customers who have an account in good standing with Exeter Supply Co., Inc.		Orders charged to a credit card are subject to a 4% credit card processing fee. Exeter Supply Co., Inc. is not responsible for quantities or types of materials quoted. It is the responsibility of the customer to check local specifications for each job. We appreciate your business!		

QUOTATION

L/B Water Service, Inc.
35 PLEASANT VALLEY ROAD
EPHRATA, PA 17522
717-738-0389



Quote Number	
1936689	
Quote Date	Page
03/20/2024	1 of 2

Quote Expires On: 03/27/2024

Proposal Submitted to: 13961
BOROUGH OF MACUNGIE
21 LOCUST STREET
MACUNGIE, PA 18062

Ship To:
BOROUGH OF MACUNGIE
21 LOCUST STREET
MACUNGIE, PA 18062

610-966-2503

Requested By: Doug McNair

PO/Job Name	Salesperson	Entered By
Y-BRANCH FITTINGS	Chris Wilson	ISAIAH_STAUFFER
Quantity Unit	Item ID Item Description	Unit Price Extended Price

Customer Note: Deliveries to be made from the hours of 7:00 AM. through 1:00 PM.

Delivery Instructions: FREIGHT IS ESTIMATED, ACTUAL FREIGHT TO BE CHARGED

12-14 WEEK TIME PER THE VENDOR

DUE TO CONTINUOUSLY CHANGING SUPPLY CHAIN CONDITIONS, MATERIALS ARE SUBJECT TO PRICING AT TIME OF SHIPMENT. MATERIAL AVAILABILITY AND TIMELINESS OF SHIPMENTS CANNOT BE GUARANTEED. THIS TERM SUPERSEDES ALL OTHER CONTRACTUAL PROVISIONS.

1.00	EA	MSC-10247210 708YSQQ 1-1/2" X 3/4" Y-BRANCH COMPRESSION FITTING	***NON-STOCK***	\$188.76	\$188.76
------	----	---	-----------------	----------	----------

----BELOW TWO FITTINGS TOGETHER CREATE THE 2" X 3/4" Y-BRANCH FITTING----

1.00	EA	MSC-10247211 2X1 Y-BRANCH FITTINGS 2" X 1" Y-BRANCH COMP FITTING	***NON-STOCK***	\$224.63	\$224.63
2.00	EA	MSC-10247213 74692QL 1X3/4 1" X 3/4" Q NUT ADAPTERS TO CREATE 2X3/4 Y-BRANCH FITTING	***NON-STOCK***	\$39.72	\$79.44

Total Lines: 4

SUB-TOTAL: 492.83
TAX: 0.00

Estimated Freight In: 0.00

Estimated Freight Out: 25.00

ESTIMATED FREIGHT 25.00

Freight is estimated. Actual freight charges may vary.

EXTENDED QUOTE \$\$: 517.83

QUOTATION

L/B Water Service, Inc.
35 PLEASANT VALLEY ROAD
EPHRATA, PA 17522
717-738-0389



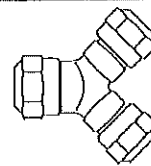
Quote Number	
1936689	
Quote Date	Page
03/20/2024	2 of 2

Quote Expires On: 03/27/2024

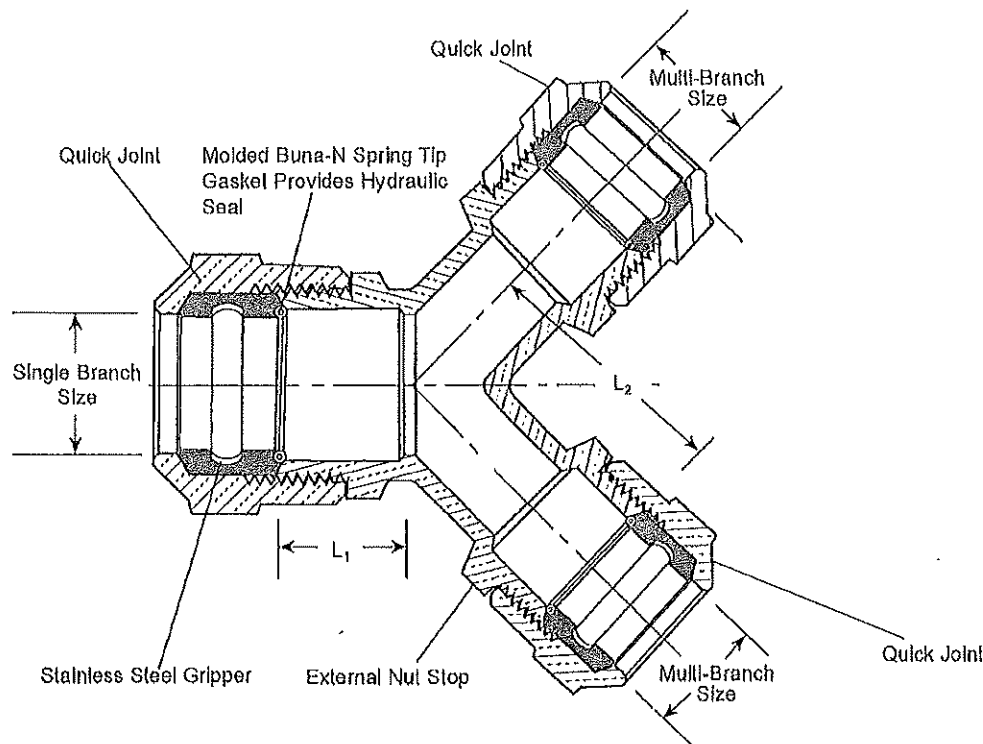
Quantity	Unit	Description	Unit Price	Total Price
<p align="center">L/B Water Service, Inc. TERMS AND CONDITIONS OF SALE</p> <p>Please see full terms and conditions at www.lbh2o.com. These terms and conditions (these "Terms") apply to the purchase and sale of products ("Goods") from L/B Water Service, Inc. (the "Seller") and are subject to change by Seller without prior written notice at any time, at Seller's sole discretion. Any purchases by Purchaser after written notice by Seller of such changes either via its website or other writing will constitute Purchaser's acceptance of and agreement to the Terms.</p> <p>I/we, _____ hereby agree to purchase the goods presented on this quotation and to accept the terms and conditions listed above.</p> <p>_____ Signature Title Date</p>				

SUBMITTAL INFORMATION

Quick Joint 'Y' Branch - (Y44-2xx-Q-NL style)



QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS) BOTH ENDS



SINGLE BRANCH END	MULTI-BRANCH END	SINGLE BRANCH LENGTH (L ₁)	MULTI-BRANCH LENGTH (L ₂)	APPROX. WT. LBS.	PART NUMBER	✓ SUBMITTED ITEM(S)
3/4"	Two - 3/4"	1-3/32"	2-3/64"	1.7	Y44-233-Q-NL	
1"	Two - 3/4"	1-1/16"	2"	1.8	Y44-243-Q-NL	

Note: Ford recommends Insert stiffeners when using plastic pipe or tubing.

FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)

The Ford Meter Box Company considers the information in this submittal form to be correct at the time of publication. Item and option availability, including specifications, are subject to change without notice. Please verify that your product information is current.



The Ford Meter Box Company, Inc.
P.O. Box 443, Wabash, Indiana U.S.A. 46992-0443
Phone: 260-563-3171 / Fax: 800-826-3487
Overseas Fax: 260-563-0167
www.fordmeterbox.com

05/01/14

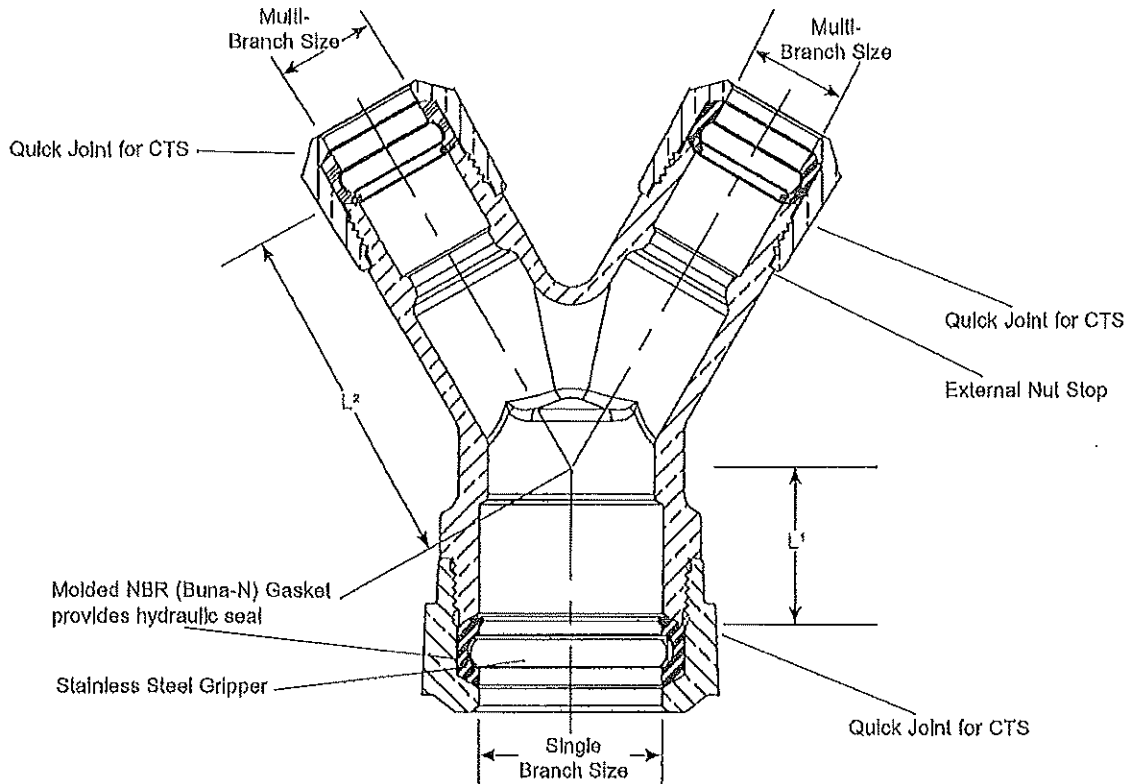
Submitted By:

SUBMITTAL INFORMATION

Quick Joint 'Y' Branch - (Y44-2xx-Q-NL style)



QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS) BOTH ENDS



SINGLE BRANCH END	MULTI-BRANCH END	SINGLE BRANCH LENGTH (L ₁)	MULTI-BRANCH LENGTH (L ₂)	APPROX. WT. LBS.	PART NUMBER	✓ SUBMITTED ITEM(S)
1-1/2"	Two 3/4"	1-25/64"	3-1/16"	3.2	Y44-263-Q-NL	
1-1/2"	Two 1"	1-25/64"	3-1/16"	3.6	Y44-264-Q-NL	

Note: Ford recommends insert stiffeners when using plastic pipe or tubing.

FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Certified to NSF/ANSI Standard 61 and NSF/ANSI Standard 372 where applicable
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)

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09/22/17

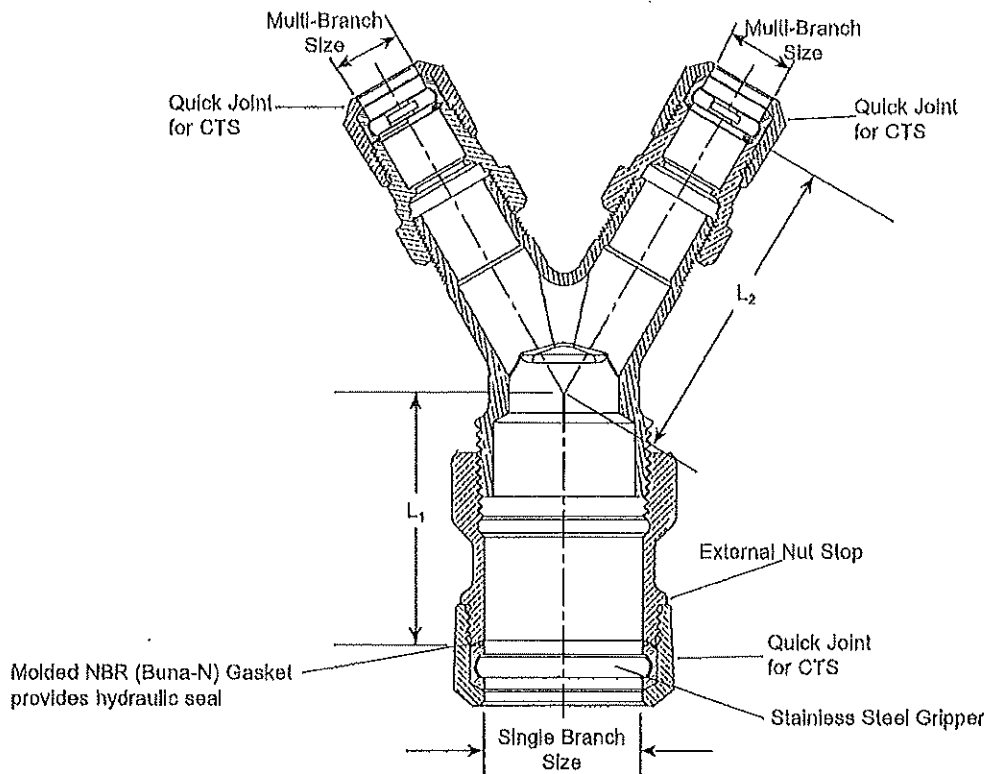
Submitted By:

SUBMITTAL INFORMATION

Quick Joint 'Y' Branch - (Y44-273-AWT-Q-NL style)



QUICK JOINT FOR COPPER OR PLASTIC TUBING (CTS) BOTH ENDS - ASSEMBLED WATERTIGHT



SINGLE BRANCH END	MULTI-BRANCH END	SINGLE BRANCH LENGTH (L ₁)	MULTI-BRANCH LENGTH (L ₂)	APPROX. WT. LBS.	PART NUMBER	✓ SUBMITTED ITEM(S)
2"	Two - 3/4"	3-13/64"	4-15/64"	5.3	Y44-273-AWT-Q-NL	

Note: Ford recommends using Insert stiffeners with plastic pipe or tubing.

FEATURES

- All brass that comes in contact with potable water conforms to AWWA Standard C800 (ASTM B584, UNS C89833)
- The product has the letters "NL" cast into the main body for lead-free identification
- Brass components that do not come in contact with potable water conform to AWWA Standard C800 (ASTM B62 and ASTM B584, UNS C83600, 85-5-5-5)
- Ends are integral or secured with adhesive to prevent unintentional disassembly

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07/11/18

Submitted By: