

## Processing Materials

- Work copies of applicant-submitted information
- Deficiency letter
- Deficiency response
- Correct & complete determination
- Any correspondence with the applicant after application receipt and prior to sending the Draft PD

# Processing Materials



Missoula Water Resources Regional Office  
PO Box 5004  
2705 Spurgin Road, Bldg. C  
Missoula, MT 59806-5004  
(406) 721-4284

May 28, 2026

Town of Alberton  
PO Box 115  
Alberton, MT 59820-0115

Subject: Correct and Complete Application for Beneficial Water Use Permit No. 76M  
30165209

Dear Applicant,

The Department of Natural Resources and Conservation (Department) has determined that your application is correct and complete pursuant to ARM 36.12.1601. Please remember that correct and complete **does not mean that your application will be granted.** The purpose of this letter is to indicate that the Department has enough information to analyze your water right application.

The Department will issue a Draft Preliminary Determination within 60 days of the date of this letter per §85-2-307(2)(b), MCA.



Following issuance of the Draft Preliminary Determination, you (Applicant) will have 15 business days to request an extension of time to submit additional information, if desired pursuant to §85-2-307(3)(a), MCA.

If no extension of time is requested and the Draft Preliminary Determination decision is to grant your application or grant your application in modified form, the Department will prepare a notice of opportunity to provide public comment, per §85-2-307(4)(a), MCA.

If no extension of time is requested and the Draft Preliminary Determination decision is to deny your application, the Department will adopt the Draft Preliminary Determination as the final determination per §85-2-307(3)(d)(ii), MCA.

If you have any questions or concerns about the application process, please contact me.

Best,



Alex Dalglish  
Water Resource Specialist II  
Missoula Regional Office  
(406)-542-5886  
[Alexander.dalglish@mt.gov](mailto:Alexander.dalglish@mt.gov)

CC:

Water and Environmental Technologies  
c/o Christina Eggensperger  
480 E Park St  
Butte, MT 59701-1923



**From:** [Dalglish, Alex](#)  
**To:** "Christina Eggensperger"  
**Cc:** [Pat Thomson](#)  
**Subject:** RE: RE: Deficiency letter for Beneficial Water Use Permit Application No. 76M 30165209  
**Date:** Wednesday, May 13, 2026 11:12:00 AM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)

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Yes, I can access and save it. Thank you.



**Alex Dalglish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C  
**DESK:** 406-542-5886 **EMAIL:** [alexander.dalglish@mt.gov](mailto:alexander.dalglish@mt.gov)  
[Website](#) | [Facebook](#) | [X \(Twitter\)](#) | [Instagram](#)  
**How did we do? Let us know here:** [Feedback Survey](#)

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**From:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>  
**Sent:** Wednesday, May 13, 2026 10:51 AM  
**To:** Dalglish, Alex <[Alexander.Dalglish@mt.gov](mailto:Alexander.Dalglish@mt.gov)>  
**Cc:** Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>  
**Subject:** [EXTERNAL] RE: RE: Deficiency letter for Beneficial Water Use Permit Application No. 76M 30165209

Hi Alex,

I just shared the document via OneDrive. Please let me know that you are able to open/view/etc. Thank you!!

Christina Eggensperger, P.E., MS  
[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)  
406-531-9486

Have a great day!

*\*I understand that my working hours/time zone may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule.*

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**From:** Dalglish, Alex <[Alexander.Dalglish@mt.gov](mailto:Alexander.Dalglish@mt.gov)>  
**Sent:** Tuesday, May 12, 2026 2:59 PM  
**To:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>  
**Cc:** Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>

**Subject:** RE: RE: Deficiency letter for Beneficial Water Use Permit Application No. 76M 30165209

**WARNING** - This email originated from an EXTERNAL SOURCE. Do not reply, click any link or open attachments unless you can confirm the sender. *Please report suspicious emails to itsupport*

Christina,

Thanks for sending these over. I cannot save the reduced Application document. If you could send a OneDrive link, that would be great.

Sincerely,



**Alex Dalgleish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C

**DESK:** 406-542-5886 **EMAIL:** [alexander.dalgleish@mt.gov](mailto:alexander.dalgleish@mt.gov)

[Website](#) | [Facebook \[facebook.com\]](https://www.facebook.com) | [X \(Twitter \[twitter.com\]\)](https://twitter.com) | [Instagram \[instagram.com\]](https://www.instagram.com)

How did we do? Let us know here: [Feedback Survey \[forms.office.com\]](https://forms.office.com)

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**From:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>

**Sent:** Friday, May 8, 2026 3:17 PM

**To:** Dalgleish, Alex <[Alexander.Dalgleish@mt.gov](mailto:Alexander.Dalgleish@mt.gov)>

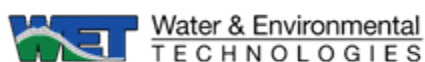
**Cc:** Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>

**Subject:** [EXTERNAL] RE: Deficiency letter for Beneficial Water Use Permit Application No. 76M 30165209

Hi Alex,

Attached please find the updated Form 600 and a letter with some corresponding narrative responses. I had to reduce the file size to send via email but I could also share as a OneDrive link if that works better. Thank you so much and have a great weekend!

Christina



**Christina Eggensperger, P.E., MS**

Project Engineer / Grant Administrator  
C: (406) 531-9486  
[waterenvtech.com](http://waterenvtech.com)

*\*I understand that my working hours/time zone may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule.*

[Book time with Christina Eggensperger \[outlook.office.com\]](#)

[!\[\]\(eafc244b53721dd1ec133f0772f70fc7\_img.jpg\) \[facebook.com\]](#) [!\[\]\(cb741e910ae1fce3b15fcd4605753ff5\_img.jpg\) \[instagram.com\]](#) [!\[\]\(7db78e01f48713b9a2242a4e52c8494a\_img.jpg\) \[twitter.com\]](#) [!\[\]\(fac5b4ae95a83ca5438f440b384c5905\_img.jpg\) \[youtube.com\]](#) [!\[\]\(a93ebadef8f96389d8858fdf1c78064a\_img.jpg\) \[linkedin.com\]](#)

May 5, 2026

Alex Dagleish  
Montana DNRC  
Missoula Regional Office

**Subject: RE: Deficiency letter for Beneficial Water Use Permit Application No. 76M 30165209**

Dear Alex,

The following letter and attachments are provided in response to the Montana Department of Natural Resources and Conservation (DNRC) information request regarding Montana Water Right Form 600 submitted on behalf of the Town of Alberton. For ease of cross-reference, the bold, italicized, underlined text below is taken directly from the email.

- **Question 18:** The volume of 80.86 Ac-ft has been removed from the table.
- **Question 20:** (1) has been added to POD#1, column "Lot"
- **Question 22:** The table below describes Place of Use as depicted on Figure 1, attached to Form 600. Additionally, DEQ approval is also attached to Form 600.

Acres	Gov. Lot	1/4	1/4	1/4	Sec.	Twp.	Rge	County
17.62516	10	NE	S2SWNE		2	14N	23W	MINERAL
10.00369	16	SE	NWNESE		2	14N	23W	MINERAL
33.64017	5	NW	S2NWNW		2	14N	23W	MINERAL
33.81043	6	NE	S2NENE		3	14N	23W	MINERAL
19.15819	12	NW	N2SWNW		2	14N	23W	MINERAL
37.41884	11	NW	SENW		2	14N	23W	MINERAL
18.87593	15	SE	N2NWSE		2	14N	23W	MINERAL

- **Question 23.a:** answered on Form 600.
- **Question 24:** answered on Form 600.
- **Question 30:** Answer has been amended to "Yes".
- **Question 30.a:** answered on Form 600.
- **Question 31:** Answer has been amended to "Yes".
- **Question 31.a:** answered on Form 600.
- **Question 34: (From Section 3.3.8 of the Town's Wastewater PER)** The Town's current distribution system is fed by a new 12-inch PVC water main from the storage tank. At Railroad Avenue and Meadow View Lane the 12-inch transmission main connects to a new 10-inch PVC main that extends east to 3rd Street. West of Meadowview, the new PVC watermain in Railroad Ave is 8". The 10" and 8" mains then connect to a network of 6, 4", 2", 1¼" and ¾" lines. The older 4 and 6-inch pipes are cast iron while the newer 4 and 6-inch pipes are PVC, all pipes 2-inch and smaller are galvanized steel. New 8" PVC mains in Meadowview, Rockledge, Apple, Orchard and 2nd St. extend north from their connections to the new watermain in Railroad Ave. and are looped at their north ends in order to minimize water stagnation and to enhance fire flow delivery. There are 21 fire hydrants in Alberton -

12 of which are new in 2025. The laterals north of Railroad Avenue, at the east end of Adams Street and the west end of Parkway Drive are generally 2-inch dead-end lines with no looping. The water storage tank capacity is 300,000 gallons.

- **Question 35:** Answer has been amended on Form 600.
- **Question 36:** Answer has been amended on Form 600.
- **Question 39:** Answer has been amended to "Yes".
- **Question 39.a:** answered on Form 600.

If you require any additional information to finalize your review, I may be reached at (406) 531-9486 or [ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com).

Sincerely,



Christina Eggensperger, PE  
Permitting Technical Service Lead



Pat Thomson, PG  
Geosciences Group

**Attachments**

Attachment 1 – Conveyance Infrastructure Information





**APPLICATION FOR  
BENEFICIAL WATER USE  
PERMIT**

§ 85-2-302, MCA

Form No. 600 (10/2025)

For Department Use Only

**FILING FEE**

**\$2900/\$1600 – Inside a Basin Closure Area, Controlled Groundwater Area or Compact Closure; without/with filing fee reduction.**

**\$2500/\$1200 – Outside a Basin Closure Area; Controlled Groundwater Area or Compact Closure; without/with filing fee reduction.**

**INFORMATION**

An application will be eligible for a filing fee reduction and expedited timelines if the applicant completes a preapplication meeting with the Department (ARM 36.12.1302(1)), which includes submitting any follow-up information identified by the Department (ARM 36.12.1302(3)(c)) and receiving either Department-completed technical analyses or Department review of applicant-submitted technical analyses (ARM 36.12.1302(4) and (5)). An application for the proposed project also must be submitted within 180 days of delivery of Department technical analyses or scientific credibility review and no element on the submitted application can be changed from the completed preapplication meeting form (ARM 36.12.1302(6)). If application is eligible for a filing fee reduction, \$500 paid for Form 600P-B will be credited toward filing fees shown above.

Application # \_\_\_\_\_ Basin \_\_\_\_\_  
Priority Date \_\_\_\_\_ Time \_\_\_\_\_ AM/PM  
Rec'd By \_\_\_\_\_  
Fee Rec'd \$ \_\_\_\_\_ Check # \_\_\_\_\_  
Deposit Receipt # \_\_\_\_\_  
Payor \_\_\_\_\_  
Refund \$ \_\_\_\_\_ Date \_\_\_\_\_

**Applicant Information: *Add more as necessary.***

Applicant Name \_\_\_\_\_  
Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone Numbers: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell \_\_\_\_\_  
Email Address \_\_\_\_\_

Applicant Name \_\_\_\_\_  
Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone Numbers: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell \_\_\_\_\_  
Email Address \_\_\_\_\_

Applicant Name \_\_\_\_\_  
Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone Numbers: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell \_\_\_\_\_  
Email Address \_\_\_\_\_

**Contact/Representative Information: *Add more as necessary.***

Contact/Representative is: Applicant    Consultant    Attorney    Other  
Contact/Representative Name \_\_\_\_\_  
Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone Numbers: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell \_\_\_\_\_  
Email Address \_\_\_\_\_

**NOTE:** If a contact person is identified as an attorney, all communication will be sent only to the attorney unless the attorney provides written instruction to the contrary (ARM 36.12.122(2)). If a contact person is identified as a consultant, employee, or lessee, the individual filing the water right form or objection form will receive all correspondences, and a copy may be sent to the contact person (ARM 36.12.122(3)).



Answer every question and applicable follow-up questions. Use the checkboxes to denote yes (“Y”), no (“N”), or not applicable (“NA”). Questions that require items to be submitted to the Department have a submitted (“S”) checkbox, which is marked when the required item is attached to the Application. Label all submitted items with the question number for which they were submitted. Narrative responses that are larger than the space provided can be answered in an attachment. If an attachment is used, specify “see attachment” on this form, and label the attachment with the question number. Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Responses in the form of a table may be entered into the table provided on this form or in an attachment. If an attachment is used, the table must have the exact headings found on this form, and “see attachment” must be entered as a response to the relevant question. Clearly label all units in tables and narrative responses.

**PREAPPLICATION AND TECHNICAL ANALYSES INFORMATION**

- 1.  Y  N Do you elect for Department technical analyses to be used for criteria assessment?
- 2.  Y  N Did you have a preapplication meeting AND complete a Permit Preapplication Meeting Form Part A and Part B (Form 600P-A and 600P-B)?

**IF QUESTION 2 IS NO, answer 2.a and 2.b:**

- 2.a.  S Submit the Technical Analyses Addendum (Form 600-TAA).
- 2.b.  S  NA Submit the technical analyses, if you elected in question 1 for Applicant technical analyses to be used for criteria assessment. Select “NA” if you elected for Departmental technical analyses.

**IF QUESTION 2 IS YES, answer 2.c, 2.d, and 2.e:**

- 2.c.  Y  N Has any element of the project described in this application changed from the mandatory elements of the project described in the completed form 600P? **If yes:**  
2.c.i. Please explain.

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- 2.c.ii.  S Submit the Technical Analyses Addendum (Form 600-TAA).

- 2.d.  Y  N Are the technical analyses to be used for criteria assessment exactly the same as those completed during the preapplication process? **If no:**  
2.d.i. Please explain.

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- 2.d.ii.  S Submit the Technical Analyses Addendum (Form 600-TAA).

- 2.e.  Y  N Did you elect in Question 1 for Department technical analyses to be used for criteria assessment? **If no:**  
2.e.i.  S Submit the technical analyses.



## **APPLICATION ADDENDA AND REVIEW**

3.  **S**  **NA** If your application is for groundwater, not surface water, and one or more of your points of diversion are in a Basin Closure Area, then submit the Basin Closure Area Addendum (Form 600-BCA).
4.  **S**  **NA** If your application is for groundwater and one or more points of diversion are in a Basin Closure Area, then your project must have a Hydrogeologic Report that conforms with MCA 85-2-361 to comply with the requirements of § 85-2-360, MCA. A Hydrogeologic Report Addendum (Form 600-HRA) or Department Technical Analyses may be used to meet these requirements. Please mark the box below that best applies, then select “S” if submitting a Hydrogeologic Report or “NA” if one is not required. This question does not apply to surface water points of diversion in a Basin Closure Area.
- If you elected to conduct Technical Analyses, you must submit the Hydrogeologic Report Addendum (Form 600-HRA).
  - If you elected for DNRC to conduct Technical Analyses but did not have a preapplication meeting AND complete a Form 600P Permit Preapplication Meeting Form (or changes have occurred since the completed Form 600P), you must submit the Hydrogeologic Report Addendum (Form 600-HRA).
  - If you elected for DNRC to conduct Technical Analyses, had a preapplication meeting, completed a Form 600P, and the Technical Analyses remain unchanged since the preapplication meeting, you do not need to submit Form 600-HRA because the Department’s Technical Analyses meet the report requirements of § 85-2-360 and § 85-2-361, MCA.
5.  **S**  **NA** If the project is for one or more groundwater points of diversion located in a Controlled Groundwater Area, then submit the Controlled Groundwater Area Addendum (Form 600-CGWA).
6.  **S**  **NA** If the project involves an appropriation that is greater than 5.5 CFS and 4,000 acre-feet, then submit a Criteria Addendum Application for Beneficial Water Use Permit for Appropriations Greater than 5.5 CFS and 4,000 AC-FT (Form 600-B).
7.  **S**  **NA** If the project involves out-of-state water use, then submit the Out-of-State Use Addendum (Form 600/606-OSA).
8.  **S**  **NA** If you require mitigation water to meet the criteria of issuance, then submit a Mitigation Purpose Addendum (Form 600/606-MIT).
9.  **S**  **NA** If the proposed purposes include marketing or selling water, (not marketing for mitigation/aquifer recharge), then submit the Marketing Purpose Addendum (Form 600/606-WMA).
10.  **S**  **NA** If the project involves one or more places of storage, then submit a Permit Storage Addendum (Form 600-SA). This does not include reservoirs, pits, pit-dams, or ponds with a capacity less than 0.1 AF; water tanks; or cisterns (ARM 36.12.113(6)).
11.  **S**  **NA** If the project is in designated sage grouse habitat, then submit a review letter from the Montana Sage Grouse Habitat Conservation Program.
12.  **S**  **NA** If the project includes a point of diversion and/or place of use on State of Montana Trust Land, submit documentation of consent from the DNRC Trust Lands Management Division.
13.  **S**  **NA** You must provide a written notice of the application to each owner of an appropriation right sharing a point of diversion or means of conveyance (e.g., canal, ditch, flume, pipeline, or constructed waterway) pursuant to §85-2-302(4)(c), MCA. Submit a copy of this notice and the recipient list.



**PURPOSE AND DIVERSION INFORMATION**

14.  Y  N Is the proposed use temporary?

14.a. If yes, when will the appropriation cease? \_\_\_\_\_

15. Is the proposed source surface water or groundwater? \_\_\_\_\_

16. What is the source name? \_\_\_\_\_

17.  S Attach a map utilizing an aerial photograph or topographic map that shows the following: section corners; township and range; north arrow; scale bar; all proposed points of diversion labeled with a unique Point of Diversion (POD) ID number and, if applicable, GWIC number; all proposed places of use; all proposed conveyance facilities and or routes; all proposed places of storage labeled with a unique Storage ID number; and places of use (POU) for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.

18. Fill out the table below. Means of diversion for surface water includes headgate, pump, dam, and others. Means of diversion for groundwater includes well, developed spring, pit pond, and others.

Purpose	Means of Diversion	Acres Irrigated (if appl.)	Period of Diversion (Month/Day - Month/Day)	Period of Use (Month/Day - Month/Day)	Flow Rate		Volume (Acre-Feet)	
					<input type="checkbox"/> GPM	<input type="checkbox"/> CFS		
Total Flow Rate and Volume Required								

19.  Y  N Does the proposed use include on or more of the following purposes: domestic, multiple domestic, stock, or irrigation? If yes, fill out the table below, where applicable.

Purpose	Requested Information	Response
Domestic or multiple domestic	Number of households and bedrooms served per household	
Stock	Number of animal units	
Irrigation	Method of irrigation type (sprinkler or flood) and subtype (if flood: level border, graded border, furrow, contour ditch, or other; if sprinkler: center pivot, wheel line, or other)	
Irrigation (flood only)	Design slope	





**SUPPLEMENTAL AND OVERLAPPING WATER RIGHTS**

23.  Y  N Will other water rights supplement or overlap the place of use to contribute to the purpose(s)?

23.a. If yes, summarize how the supplemental and proposed water rights will be operated as a whole to serve the purpose(s).

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24. For each supplemental or overlapping water right, please list the water right number, typical period of diversion and use (MM/DD-MM/DD), flow rate (GPM or CFS), and the volume of water (AF) contributed to the shared place of use.

Water Right #	Average Period of Diversion	Average Period of Use	Flow Rate	Volume Contributed

25.  Y  N Will this application supplement contract water from a Federal Project, ditch company, or other source?

25.a. If yes, explain.

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**ADVERSE EFFECT**

26. Explain how you can control your diversion in response to a call being made.

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27. Describe any plans you have for ensuring existing water rights will be satisfied during times of water shortage.

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28.  Y  N Are you aware of any calls that have been made on the source of supply or, if groundwater, on nearby surface water sources?

28.a. If yes, explain.

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29.  Y  N Does a water commissioner distribute water or oversee water distribution on your proposed source?

29.a. If yes, list the source(s).

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30.  Y  N Do other water rights share any of the proposed points of diversion?

30.a. If yes, describe how the proposed project will not adversely affect these water rights.

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31.  Y  N Do other water rights share any conveyance infrastructure associated with the proposed project?

31.a. If yes, describe how the proposed project will not adversely affect these water rights.

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**ADEQUATE MEANS OF DIVERSION AND OPERATION**

32.  **S** Submit a diagram of how you will operate your system from all proposed points of diversion to all proposed places of use.

33. Describe specific information about the capacity of all proposed diversionary structures. This may include, where applicable: pump curves and total dynamic head calculations, headgate design specifications, and dike or dam height and length.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**See Attached.** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

34. Describe the size, materials, capacity, and configuration of infrastructure to convey water from all proposed points of diversion to all proposed places of use. This may include but is not limited to, pipelines and ditches. Include a description of any losses related to the proposed conveyance. Ditch conveyance losses may be estimated numerous ways, which include a ditch loss rate or Department standard methods.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
**See Attached Pipe** \_\_\_\_\_  
**Distribution Sizes.** \_\_\_\_\_  
\_\_\_\_\_

35. Describe how the proposed diversion and conveyance infrastructure can provide the required flow and volume, for the purposes plus any conveyance losses and storage, throughout the proposed period of diversion.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



36. Provide a plan of operations, which includes specific information about how water is delivered within the place of use. This may include, where applicable, the range of flow rates needed for a pivot.

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37.  Y  N Does the proposed conveyance require easements?

37.a. If yes, explain.

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38.  Y  N Do you own the land where all proposed points of diversion are located?

38.a.  S If no, submit documentation to show you have the right to use all points of diversion located on each property you do not own. This may include, but is not limited to, a well agreement, an easement, or permission of the party that owns the property where the proposed point(s) of diversion are located.

39.  Y  N Will your system be designed to discharge water from the project?

**IF YES,**

39.a. Explain the wastewater disposal method.

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39.b.  Y  N  NA Have the necessary permits been obtained to comply with §§ 75-5-410 and 85-2-364, MCA?

40.  Y  N Do you have any plans to measure your diversion and use?

40.a. If yes, describe the plan and the type of measurements you will take.

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**POSSESSORY INTEREST**

**45.**  **Y**  **N** Do you meet one of the exceptions to possessory interest requirements, pursuant to ARM 36.12.1802? Exceptions include cases where the application is for sale, rental, distribution, or is a municipal use, or in any other context in which water is being supplied to another and it is clear that the ultimate user will not accept the supply without consenting to the use of water on the user's place of use.

**45.a.** If yes, explain.

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**46.**  **Y**  **N**  **NA** Do you own all proposed places of use? Mark "NA" if you meet one of the exceptions to the possessory interest requirement.

IF NO,

**46.a.**  **S** Explain and submit documentation that shows you either have possessory interest or written permission of the parties with possessory interest of the place of use.

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**46.b.**  **Y**  **N** Would you like the water right to be appurtenant to the land? Please note that if your water right is not appurtenant to land it will not transfer by default with the conveyance of the property, pursuant to § 85-2-403, MCA.

**46.b.i.** If no, explain.

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**PROPOSED COMPLETION PERIOD**

**47.** How much time will be needed to complete this project and to submit to the DNRC a Project Completion Notice (Form 617)? \_\_\_\_\_

**48.** Please describe why this amount of time is needed to complete this project.

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**AFFIDAVIT & CERTIFICATION**

Read carefully before you sign and review with legal counsel if you have any questions. All owners (or trustees) must sign the form. *\*\*If the owner is a business or trust, include the title of the representative(s) signing the form (i.e., president, trustee, managing partner, etc.) and provide documentation that establishes the authority of the representative to sign the application.*

I affirm the information provided for this application is to the best of my knowledge true and correct. If a preapplication meeting form was submitted, I am aware that my application for this project will not qualify for a discounted filing fee and expedited timelines if upon submittal of the application to the Department, I changed any element of the proposed application from the preapplication meeting form and follow-up materials (ARM 36.12.1302(6)(a)).

I affirm I have possessory interest, or the written consent of the person with the possessory interest, in the property where the water is to be put to beneficial use, unless this application meets an exception to the possessory interest requirements in ARM 36.12.1802(1)(b).

I understand that making a false statement under oath or affirmation in this application and official proceedings throughout the examination of my application may subject me to prosecution under § 45-7-202, MCA, a misdemeanor punishable by a jail term not to exceed 6 months or a fine not to exceed \$500, or both. I have read this Affidavit and understand the terms and conditions.

I declare under penalty of perjury and under the laws of the state of Montana that the foregoing is true and correct.

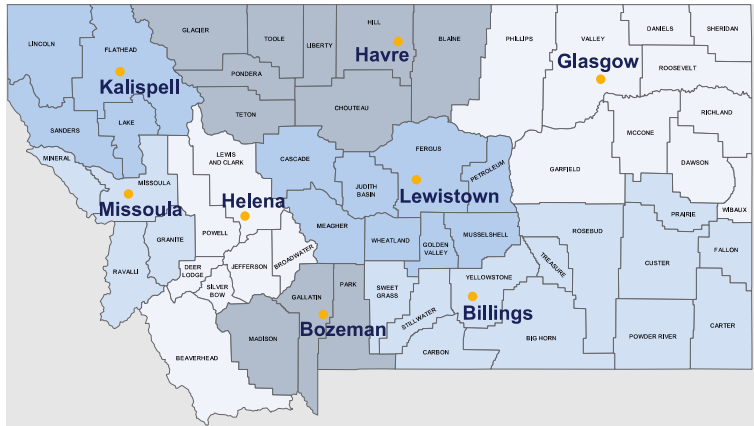
Printed Name Loreen M. Felstet, Mayor  
Applicant Signature Loreen M. Felstet Date: 1-6-2026

Printed Name Timothy K. Fox, Councilor  
Applicant Signature Tim Fox Date: 1-6-2026

Printed Name Marvin J. Garding  
Applicant Signature Marvin J. Garding Date: 1/6/26



## WATER RESOURCES REGIONAL OFFICES



### **BILLINGS**

Airport Industrial Park, 1371 Rimtop Dr  
Billings, MT 59105-9702

PHONE 406-247-4415 FAX 406-247-4416

EMAIL [DNRCBillingsWater@mt.gov](mailto:DNRCBillingsWater@mt.gov)

*Big Horn, Carbon, Carter, Custer, Fallon, Powder River, Prairie, Rosebud, Stillwater, Sweet Grass, Treasure, and Yellowstone Counties*



### **BOZEMAN**

2273 Boot Hill Court, Suite 110  
Bozeman, MT 59715-7249

PHONE 406-586-3136 FAX 406-587-9726

EMAIL [DNRCBozemanWater@mt.gov](mailto:DNRCBozemanWater@mt.gov)

*Gallatin, Madison, and Park Counties*



### **GLASGOW**

222 6th Street South, PO Box 1269  
Glasgow, MT 59230-1269

PHONE 406-228-2561

EMAIL [DNRCGlasgowWater@mt.gov](mailto:DNRCGlasgowWater@mt.gov)

*Daniels, Dawson, Garfield, McCone, Phillips, Richland, Roosevelt, Sheridan, Valley, and Wibaux Counties*



### **HAVRE**

210 6th Ave., PO Box 1828  
Havre, MT 59501-1828

PHONE 406-265-5516

EMAIL [DNRCHavreWater@mt.gov](mailto:DNRCHavreWater@mt.gov)

*Blaine, Chouteau, Glacier, Hill, Liberty, Pondera, Teton, and Toole Counties*



### **HELENA**

1424 9th Ave., PO Box 201601,  
Helena, MT 59620-1601

PHONE 406-444-6999 FAX 406-444-9317

EMAIL [DNRCHelenaWater@mt.gov](mailto:DNRCHelenaWater@mt.gov)

*Beaverhead, Broadwater, Deer Lodge, Jefferson, Lewis and Clark, Powell, and Silver Bow Counties*



### **KALISPELL**

655 Timberwolf Parkway, Suite 4  
Kalispell, MT 59901-1215

PHONE 406-752-2288

EMAIL [DNRCKalispellWater@mt.gov](mailto:DNRCKalispellWater@mt.gov)

*Flathead, Lake, Lincoln, and Sanders Counties*



### **LEWISTOWN**

613 Northeast Main St., Suite E  
Lewistown, MT 59457-2020

PHONE 406-538-7459

EMAIL [DNRCLewistownWater@mt.gov](mailto:DNRCLewistownWater@mt.gov)

*Cascade, Fergus, Golden Valley, Judith Basin, Meagher, Musselshell, Petroleum, and Wheatland Counties*



### **MISSOULA**

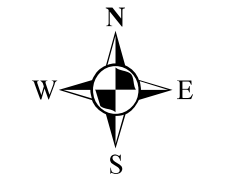
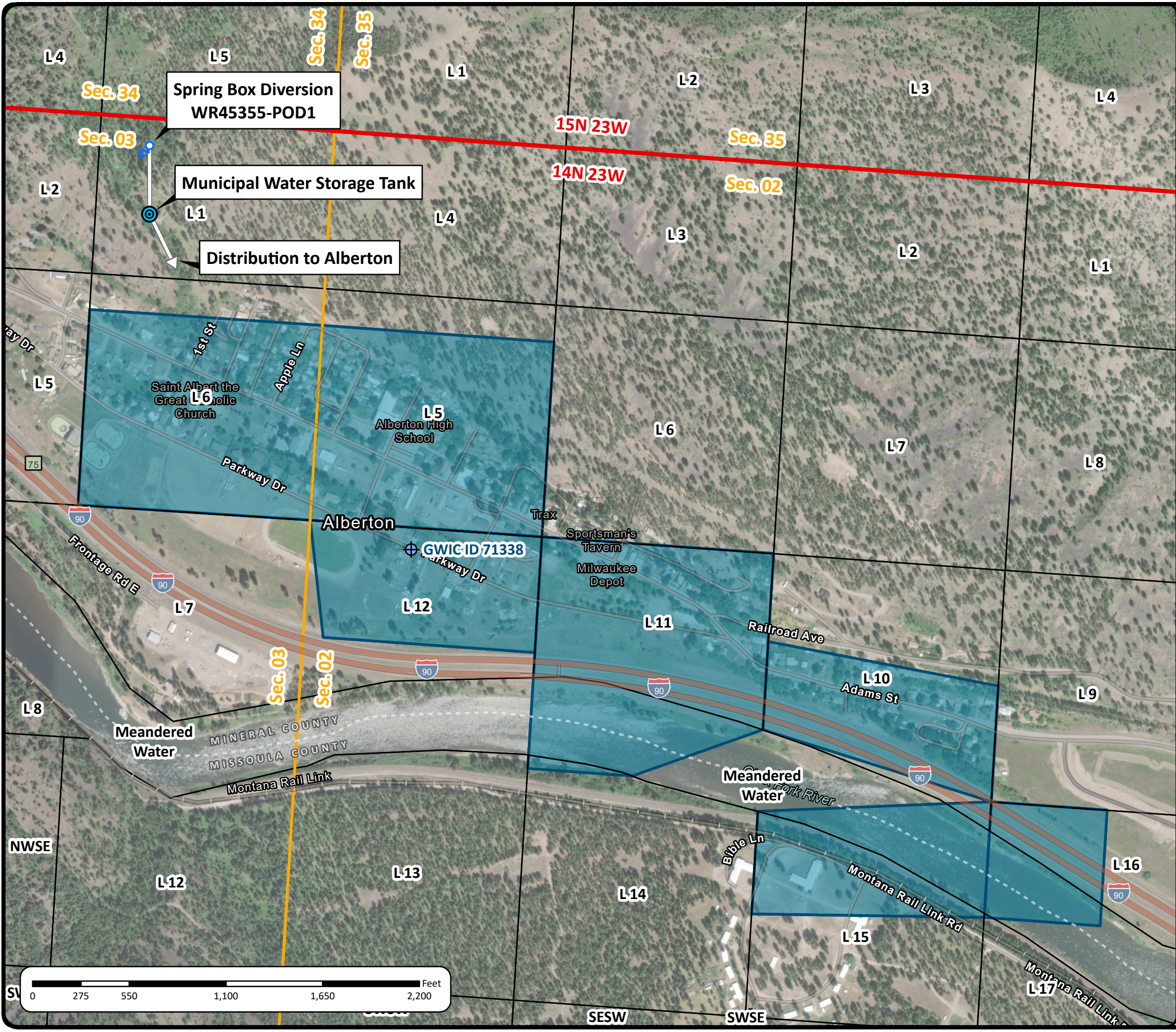
2705 Spurgin Rd. Bldg. C, PO Box 5004  
Missoula, MT 59806-5004

PHONE 406-721-4284 FAX 406-542-5899

EMAIL [DNRCMissoulaWater@mt.gov](mailto:DNRCMissoulaWater@mt.gov)

*Granite, Mineral, Missoula, and Ravalli Counties*

# Question 17



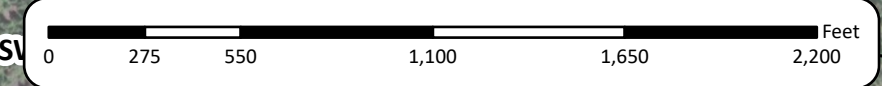
NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/25	LG	CE
2	ADD TANK AND WATER LINE	5/28/25	LG	CE
3	ADD WATER RIGHTS	6/2/25	EL	CE
4				
5				

NOTES

SPRING LOCATION  
 ALBERTON, MINERAL COUNTY, MT  
 JOB#: AMCEM01  
 DATE: 12/22/2025  
 Path: M:\AMCEM01\GIS\WaterRight\WaterRight.aprx, Author: jgeorge

**FIGURE 1**

- Spring
- Water Storage Tank
- GWIC Well
- Water Line (Approximate Location)
- 76M 45355 00 and 76M 13904 00 Places of Use
- PLSS Township & Range
- PLSS First Division
- PLSS Second Division



# Question 22



February 15, 2024

Paul Montgomery, PE  
Anderson-Montgomery Consulting Engineers  
1064 N. Warren Street  
Helena, MT 59601

**RE: E.Q. 24-1150: Town of Alberton Water System Improvements Phase II  
(PWSID No. MT0000015)**

Dear Mr. Montgomery:

Construction documents and project manuals were received February 8, 2024, for the above-referenced project and have been reviewed for the SRF program. Approval is hereby given based on documents received under the seal of you, **Paul W. Montgomery (No. 9265 PE)**. One set of documents bearing the approval stamp of the Department of Environmental Quality (DEQ) is enclosed. DEQ will retain the second set and the third set will be sent to the county sanitarians.

This project has three bid schedules. Base Bid A includes significant upgrades to the distribution system. The base bid will include approximately 1,420 LF of 12-inch C900 PVC water main; 1,725 LF of 10-inch C900 PVC water main; 1,110 LF of 8-inch C900 PVC water main; and 3,275 LF of 6-inch C900 PVC water main. The project will also include 50 LF of 12-inch HDPE water main; 51 LF of 8-inch HDPE water main, and 213 LF of 6-inch HDPE water main. All of the HDPE pipe will be installed using trenchless methods. The base bid project will include all associated valves, hydrants, fittings, and surface restoration as shown on the plans and indicated in the specifications. All of the project work will occur within existing Town rights-of-way.

Additive alternative B includes the replacement and installation of water meters and associated meter reading and billing capability. The meter sizing and installation shall be completed as shown on the plans and indicated in the specifications and will include any necessary surface restoration, seeding, and fertilization.

Additive Alternative C consists of spring source improvements. The project will include installation of a 60-inch concrete spring structure, fencing, surface

restoration, seeding, and fertilization, as shown in the plans and indicated in the specifications.

Four deviation requests were submitted for this project:

1. DEQ-1, 7.0.1.a & b. Finished Water Storage Sizing. The deviation was approved.
2. DEQ-1, 8.4.4.4.c-Hydrant Drain. The deviation was approved.
3. DEQ-1, 8.8.2-Parallel Installation. The deviation was approved.
4. DEQ-1, 8.8.3-Crossings. The deviation was approved.

Approval is given with the understanding that any deviation from the approved plans and specifications, other than any deviations previously approved, will be submitted to the Department for reappraisal and approval. Prior to operation of the water system components affected by the project, certification must be submitted to the Department that the work was completed in substantial accordance with the approved plans and specifications. This certification must state there are no deviations from the design standards other than those previously approved by the Department. Within 90 days following completion of the project, a complete set of "as-built" record drawings must be signed, stamped, and certified to be constructed in accordance with approved plans and specifications and submitted to the department by the project engineer.

The applicant is responsible for compliance with all applicable federal, state, local, and tribal law, regulations, and ordinances, including but not limited to, the Montana Water Use Act, Mont. Code Ann. Title 85, Chapter 2. Approval in this document is limited solely to the matters therein specifically contained and does not constitute approval, implied or otherwise, for the purposes of any other law, regulation, or ordinance.

It is further understood that construction will be completed within three years of this date. If more than three years elapse before construction is complete, it shall be necessary to resubmit the plans and specifications before construction may continue.

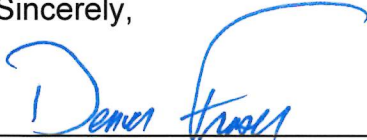
This project may now be advertised, and bids opened. As soon as possible, please notify us of the date on which bids will be opened.

At this time, the Department has received an application for financing of the project through the Drinking Water State Revolving Fund (DWSRF). In order to assure continued eligibility for the full amount of the loan, the recipient must have DEQ authorization to award the contract. **DWSRF Policy Statement No.1 (enclosed) itemizes documentation that must be submitted to the Department after bids have been received.** Please note that a loan recipient must assure implementation and documentation of affirmative steps taken to solicit participation by Minority Business Enterprises (MBE) and Women Business Enterprises (WBE). The MBE/WBE requirements must be met before DEQ authorizes an award to any bidder.

Also, enclosed is a list of project performance standards that the recipient must satisfy by construction and operation of the project. The engineer and the recipient must certify, one year after completion of the project, that the project performance standards have been met.

I look forward to working with you and wish you good luck with this project. If you have any questions, please don't hesitate to call.

Sincerely,



---

Denver Fraser, P.E.  
Drinking Water SRF Loan Program  
Engineering Bureau  
dfraser@mt.gov  
406.444.5118

Cc: Anna LeDuc, Town of Alberton Mayor (email)  
Anna Miller, DNRC (email)  
Cid Sivils, DNRC (email)  
Samantha Treu, DNRC (email)  
Lindsey Siebrasse, DOC (email)

Encls: Policy Statement No. 1  
Project Performance Standards

One-Year Project Performance Standards for the  
Town of Alberton Water System Improvements  
PWSID No. MT0000015 (EQ No. 24-1150)

This project consists of three bid schedules. The base bid schedule consists of water main installation and replacement and looping installation. Bid alternative B consists of the installation of meters and associated meter reading capability. Bid alternative C consists of improving the Town's spring source and providing fencing for security at the spring site.

**Water Distribution System**

1. All improvements shall be constructed according to the approved plans and specifications and, where applicable, in accordance with Circular DEQ 1, Standards for Water Works.
2. The water distribution system improvements shall operate as specified. Backfill shall conform to the specifications and there shall be no evidence of excessive settling due to improper construction, bedding, or compaction.
3. All water distribution system appurtenances, including valves, shall be installed and operate as specified.
4. The water distribution system improvements, including appurtenances, shall consist of the materials specified, unless subsequently approved otherwise, and be constructed and operated in accordance with the approved design and in accordance with DEQ-1 Standards for Water Works Chapter 8. This shall include bedding, cover, blocking, pressures, and flows. There shall be no evidence of excessive leakage.
5. There shall be no unprotected cross-connections created by the distribution system improvements.

**Water Meters**

6. The water meter installations, water meter pits, and meter reading equipment shall be constructed, installed, and operating as designed.
7. All surface restoration will be completed in accordance with the plans and specifications.

**Spring Source Improvements**

8. The new 60" concrete spring structure shall be constructed and operating in accordance with the approved plans and specifications in accordance with DEQ-10 requirements.
9. All surface restoration will be completed in accordance with the plans and specifications.

The above performance standards are minimum criteria that do not address all of the features of this project that will be inspected at the end of one year of operation. It is expected that the contractor(s) will construct the project in accordance with the plans and specifications. Defects in materials or workmanship shall be corrected to the full satisfaction of the owner.

One-Year Project Performance Standards for the  
Town of Alberton Water System Improvements  
PWSID No. MT0000015 (EQ No. 24-1150)

This project consists of three bid schedules. The base bid schedule consists of water main installation and replacement and looping installation. Bid alternative B consists of the installation of meters and associated meter reading capability. Bid alternative C consists of improving the Town's spring source and providing fencing for security at the spring site.

**Water Distribution System**

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4. The water distribution system improvements, including appurtenances, shall consist of the materials specified, unless subsequently approved otherwise, and be constructed and operated in accordance with the approved design and in accordance with DEQ-1 Standards for Water Works Chapter 8. This shall include bedding, cover, blocking, pressures, and flows. There shall be no evidence of excessive leakage.
5. There shall be no unprotected cross-connections created by the distribution system improvements.

**Water Meters**

6. The water meter installations, water meter pits, and meter reading equipment shall be constructed, installed, and operating as designed.
7. All surface restoration will be completed in accordance with the plans and specifications.

**Spring Source Improvements**

8. The new 60" concrete spring structure shall be constructed and operating in accordance with the approved plans and specifications in accordance with DEQ-10 requirements.
9. All surface restoration will be completed in accordance with the plans and specifications.

The above performance standards are minimum criteria that do not address all of the features of this project that will be inspected at the end of one year of operation. It is expected that the contractor(s) will construct the project in accordance with the plans and specifications. Defects in materials or workmanship shall be corrected to the full satisfaction of the owner.

# DWSRF POLICY STATEMENT NO. 1

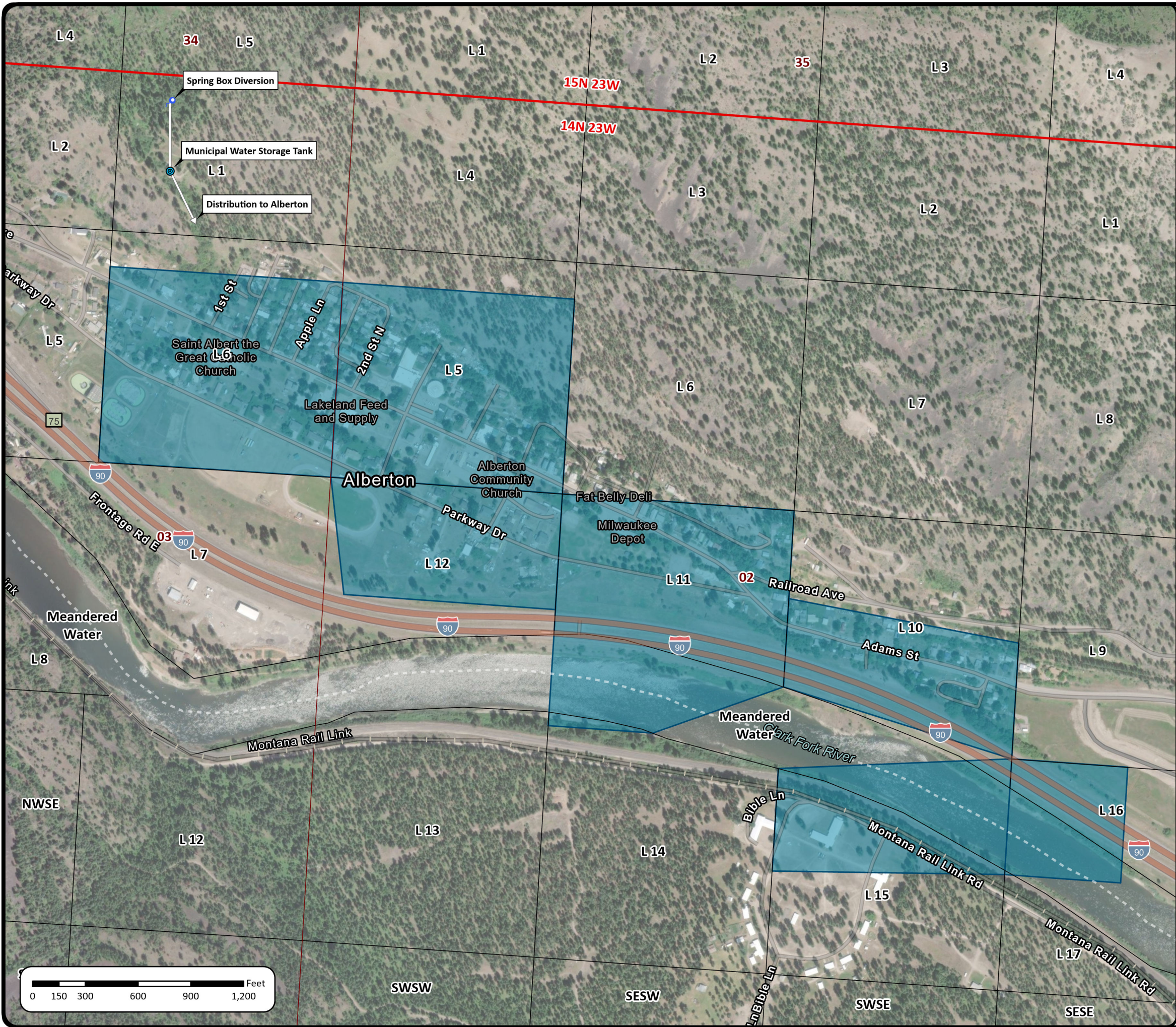
**DATE:** February 15, 2024  
**TO:** Town of Alberton (PWSID No. MT0000015)  
**FROM:** Drinking Water SRF Program  
**SUBJECT:** Bidding Documents (E.Q. 24-1150)

This policy statement lists documentation that must be provided to the Drinking Water State Revolving Fund (DWSRF) Program prior to award of construction contracts. The DWSRF program will review bids, bidding procedures and related documentation to assess compliance with applicable regulations and program requirements. Ensuring that contracts are awarded to the lowest responsive and responsible bidder is an important part of this review. Contracts are not to be awarded until authorized by the DWSRF Program.

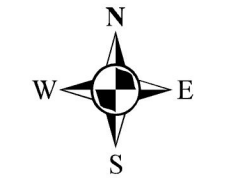
The following documents must be submitted to the DWSRF program for review prior to award of construction contracts:

1.  Site Title Opinion (if not previously obtained).
2.  Certified tabulation of all bids received.
3.  Proposal/bid form, bid bond and debarment form from the selected bidder.
4.  A copy of each addendum issued during the bidding period and acknowledgment of receipt of each addendum by all bidders.
5.  Proof of bid advertising indicating circulation dates and time for receipt of bids.
6.  Demonstration of compliance with MBE/WBE requirements as contained in the Project Specifications Section 00900 Funding Agency Special Provisions for Montana Public Facility Projects.
7.  A statement from the authorized representative giving names of the bidders to whom the loan recipient wishes to award contracts and the amount of each contract.
8.  If an award is proposed to be made to other than the low bidder, a justification from the applicant as to why the lower bidders are not responsive or responsible.
9.  If a loan increase is needed because bids are greater than the original cost estimate, a revised project budget.

# Question 32



- Spring
- Water Storage Tank
- Water Line (Approximate Location)
- PLSS Township & Range
- PLSS First Division
- PLSS Second Division
- 76M 45355 00 and 76M 13904 00 Place of Use



NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/25	LG	CE
2	ADD TANK AND WATER LINE	5/28/25	LG	CE
3	ADD WATER RIGHTS	6/2/25	EL	CE
4				
5				

NOTES

SPRING LOCATION  
 ALBERTON, MINERAL COUNTY, MT  
 JOB#: AMCEM01  
 DATE: 6/2/2025  
**FIGURE 1**  
 Path: M:\AMCEM01\GIS\WaterRight\WaterRight.aprx, Author: ealhey



# Question 33



### Ultra Mag® Sensor



### ProComm Converter



Ultra Mag models UM06 and UM08 flanged tube flow meters are manufactured to the highest standard available for mag meters.

The flanged end tube design permits use in a wide range of applications with up to 300 PSI working pressure.

The fabricated tube is stainless steel with steel or stainless steel flanges and is lined with UltraLiner™, an NSF approved, fusion bonded epoxy material.

### INSTALLATION

Ultra Mag flow meter installation is similar to placing a short length of flanged end pipe in the line. The meter can be installed vertically, horizontally, or inclined on suction or discharge lines. The meter must have a full pipe of liquid for proper operation. Fluid must be grounded to the downstream flange of the sensor either via internal grounding electrodes (4 - 12") or using McCrometer 316 SS grounding rings.

For best performance, grounding rings are recommended for all sizes. Any 90 or 45 degree elbows, valves, partially opened valves, etc. should not be placed closer than one pipe diameters upstream and zero pipe diameters downstream.

All blending and chemical injection should be done early enough so the flow media is thoroughly mixed prior to entering the measurement area.

### PROCOMM CONVERTER

The signal converter is the reporting, input and output control device for the sensor. The converter allows the measurements, functional programming, control of the sensor and data recording to be communicated through the display and inputs/outputs.

The microprocessor-based signal converter has a curve-fitting algorithm to improve accuracy, dual 4-20mA analog outputs, an optional RS485 communication port, an 8 line graphical backlit LCD display with 6-key touch programming, and a rugged enclosure that meets IP67.

In addition to a menu-driven self-diagnostic test mode, the converter continually monitors the microprocessor's functionality. The converter will output rate of flow and total volume. The converter also comes standard with password protection and many more features.

### AVAILABLE ULTRA MAG FLANGED MODELS

#### UM06

Steel AWWA Class "D" flat face flanges (150 PSI)

#### UM08 2", 3", AND ≥14"

Steel AWWA Class "F" raised face flanges (300 PSI)

#### UM08 4" TO 12"

Steel ANSI 300 lb. Raised Face Flanges

### PERFORMANCE ADVANTAGES

- Needs only 1 pipe diameter upstream of most flow disturbers
- No obstruction to the flow
- No moving parts to wear or break
- Maintenance free
- Worry-free accurate measurement
- Debris or solids will not clog the meter
- No head loss
- Bi-directional flow
- Empty pipe detection
- Unaffected by changes in density and viscosity
- No risk of liner delamination or separation
- Wide flow range
- Separated power and signal cables

### TYPICAL APPLICATIONS

#### Industrial

Raw Water	Process Control
Chilled Water	Effluent Wastewater
Cooling Water	

#### Clean Water

Well Water	Rate-of-Flow Control
Potable Water	Raw Water Transmission
Pump Stations	

#### Wastewater

Influent	Waste Activated
Effluent	Sludge
Reclaimed	Return Activated
Lift Stations	Sludge

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### Ultra Mag Part Number Matrix

UM		-	-	-	-	-	-	-	-	-	-
SINGLE DIRECTION/DIRECTIONAL											
150 PSI Service Pressure		06									
300 PSI Service Pressure		08									
NOMINAL LINE SIZE											
	2 in	02									
	3 in	03									
	4 in	04									
	6 in	06									
	8 in	08									
	10 in	10									
	12 in	12									
	14 in	14									
	16 in	16									
	18 in	18									
	20 in	20									
	24 in	24									
	30 in	30									
	36 in	36									
	42 in	42									
	48 in	48									
END CONNECTION OPTIONS											
AWWA Flat Face Flanges (Class D or F)		W									
ANSI Raised Face Flanges (150# or 300#)		A									
ELECTRODE MATERIAL OPTIONS											
S316 Stainless Steel (Standard)		S									
Hastelloy		H									
CONVERTER MOUNTING AND CABLE CONNECTOR OPTIONS											
Strain Relief [Remote Mount (Standard)]		R									
Quick Connect [Remote Mount]		Q									
Meter Mount Converter		M									
REMOTE CABLE LENGTH OPTIONS											
25 feet (Standard)		025									
50 feet		050									
75 feet		075									
100 feet		100									
125 feet		125									
150 feet		150									
175 feet		175									
200 feet		200									
500 feet		500									
Custom Length Cable [User Specified]		CST									
Meter Mount Converter [No Remote Cable]		000									
CONVERTER POWER OPTIONS											
AC Power		A									
DC Power		D									
Battery Power [25ft remote cable max]		B									
CONVERTER OUTPUT OPTIONS											
Dual 4-20mA Analog, Dual Digital (Standard)		1									
Modbus + STD (Two 4-20, two Dig)		2									
Hart + STD (Two 4-20, two Dig)		3									
Datalogger/BIV + STD (Two 4-20, two Dig)		4									
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)		5									
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)		6									
AMI Smart Output + STD (Two 4-20, two Dig)		7*									
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)		8*									
AMI Smart Output + Dig Out + Datalogger (Battery power only)		9*									
Digital Out + Datalogger (Standard Battery Power only)		0									
SMART OUTPUT PROTOCOL OPTIONS (*7 OR 8 OUTPUT OPTION REQUIRED)											
No AMI Outputs		-									
Sensus Protocol (6ft cable, Nicor Connector hardwired only)		SEN									
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)		ITR6									
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)		ITR9									
NON STANDARD LENGTH OPTIONS											
McCrometer Length (Standard)		-									
Competitor Meter Replacement Length		\$									
Special Length [Customer Specified]		XL									



# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### ISOLATED POWER AND SIGNAL


The power and signal between the converter and sensor are isolated and placed in separate cables giving superior resistance to electrical signal noise compared to single cable designs. An added benefit from the dual cable design is a maximum cable length of up to 500ft.

### FLOW METER SPECIFICATIONS

<b>Pipe Sizes</b>	
2", 3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"	
<b>Flow Direction Measurement</b>	
Forward and reverse flow indication and forward, reverse, net totalization are standard with all meters	
<b>Accuracy</b>	
Plus or minus 0.5% of actual flow (battery powered is $\pm 1\%$ of flow) <b>IMPORTANT NOTICE ON FLOW METER ACCURACY:</b> The flow meter, the cable and the electronics are factory calibrated for accuracy as a single unit. Changing the cable length with the Splice Kit changes the accuracy of the meter and invalidates the calibration certificate.	
<b>Accuracy Tests</b>	
5-point wet flow calibration of every complete flow tube with its signal converter. If desired, the tests can be witnessed by the customer. The McCrometer test facilities are traceable to the National Institute of Standards & Technology. Uncertainty relative to flow is $\pm 0.15\%$	
<b>Repeatability</b>	
$\pm 0.05\%$ or $\pm 0.0008\text{ft/s}$ ( $\pm 0.25\text{mm/s}$ ), whichever is greater	
<b>Conductivity</b>	
5 $\mu\text{s/cm}$	
<b>Liner</b>	
UltraLiner NSF approved, fusion bonded epoxy	
<b>Electrodes</b>	
Type 316 stainless steel, others optional	
<b>Electrical Connections</b>	
<ul style="list-style-type: none"> <li>• Compression gland seals</li> <li>• Quick-Connect</li> </ul>	
<b>IP Rating</b>	
<b>Standard model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (NEMA 6P/IP68 with remote converter)</li> <li>• Compression gland seals (NEMA 6P/IP68 with remote converter)</li> </ul>
<b>HL model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (IP67)</li> <li>• Compression gland seals (IP67)</li> </ul>
<b>Sensor Submersibility Depth</b>	
<b>With standard strain relief cable</b>	9 m (30 ft.)
<b>With optional quick connect cable</b>	1.8 m (6 ft.)

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

<b>Head Loss</b>	
None. No obstruction in line and no moving parts	
<b>Warranty</b>	
<b>Meter</b>	2 year warranty
<b>Liner</b>	Lifetime guarantee
<b>Pressure Range</b>	
150 PSI maximum working pressure (UM06); 300 PSI maximum working pressure (UM08)	
<b>Velocity Range</b>	
.2 to 32 FPS	
<b>Temperature Range</b>	
Sensor Operating: -10 to 60°C (14 to 140°F) Sensor Storage: -15 to 60°C (5 to 140° F)	
<b>Certifications and Approvals</b>	
<b>Standard Model</b>	<ul style="list-style-type: none"> <li>ISO 9001:2015 certified quality management system</li> <li>Certified by MET to UL 61010-1</li> </ul>
<b>HL Model</b>	<ul style="list-style-type: none"> <li>ISO 9001:2015 certified quality management system</li> <li>Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04                             <ul style="list-style-type: none"> <li>Class I, Division 2, Groups A-D, T5</li> <li>Class I, Zone 2, IIC T5</li> </ul> </li> </ul>
	
<b>System Options</b>	
<ul style="list-style-type: none"> <li>Hastelloy® electrodes</li> <li>Additional sensor cable up to 475'</li> <li>Annual verification / calibration</li> <li>Stainless steel ID tag</li> </ul>	
<b>Meter Options</b>	
<ul style="list-style-type: none"> <li>DC powered converter (10-35 VDC, 21 W)</li> <li>Meter mounted converter</li> <li>Extended warranty</li> <li>Hastelloy® electrodes</li> <li>ANSI or DIN flanges</li> <li>Quick Connect cable fittings</li> <li>Special lay lengths, including ISO standard lay lengths</li> </ul>	<ul style="list-style-type: none"> <li>Converter sun shield</li> <li>HART® Converter</li> <li>Smart Output™ (Sensus or Itron compatible)</li> <li>Battery or battery-solar powered converter (Not MET approved, ±1% accuracy)</li> </ul>

# Specification Sheet

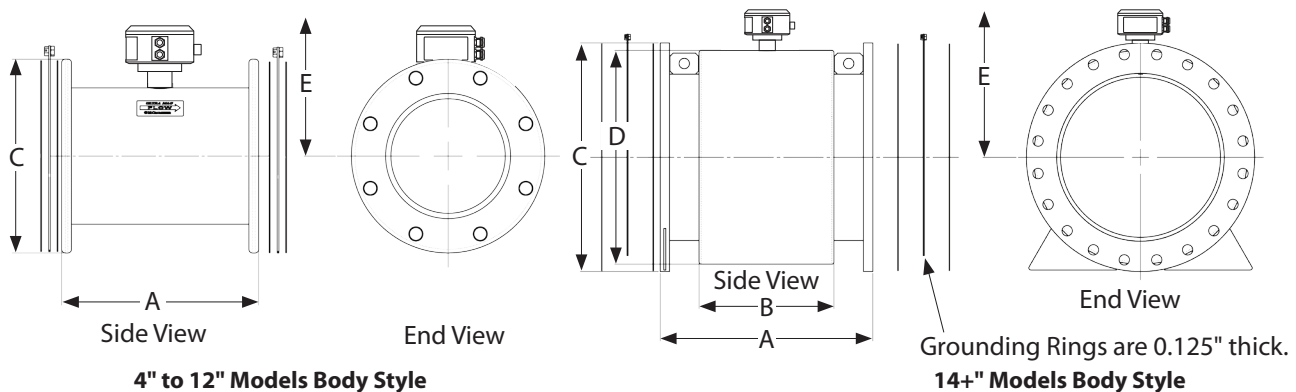
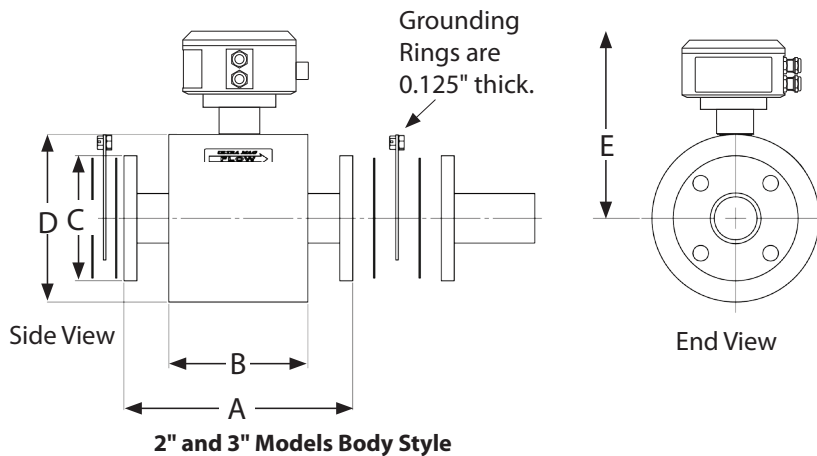
## Ultra Mag Flow Meter with ProComm Converter

### FLOW METER PIPE SIZES AND FLOW RANGES

Pipe Size (Nominal)	Meter Pipe ID	Flow Ranges GPM Standard .2 to 32 FPS Min - Max	DIMENSIONS (Lay Lengths)							Estimated Shipping Weight (lbs.)	
			A*		B	C		D	E	UM06	UM08
			UM06	UM08		UM06	UM08				
2"	2.117	2 - 340	11.00	11.00	6.70	6.00	6.50	7.90	9.26	93	107
3"	3.220	5 - 730	13.40	13.40	6.70	7.50	8.25	9.40	10.01	97	111
4"	3.720	8 - 1,140	13.40	13.40	n/a	9.00	10.00	n/a	8.06	78	108
6"	5.692	19 - 2,660	14.60	14.60	n/a	11.00	12.50	n/a	9.06	82	138
8"	7.692	33 - 4,870	16.10	17.25	n/a	13.50	15.00	n/a	10.06	115	195
10"	9.682	52 - 7,670	18.50	18.50	n/a	16.00	17.50	n/a	10.46	144	247
12"	11.682	74 - 11,180	19.70	19.70	n/a	19.00	20.50	n/a	12.31	193	342
14"	13.440	90 - 16,070	21.70	22.75	12.00	21.00	23.00	20.30	15.46	321	476
16"	15.440	118 - 20,900	23.60	25.25	14.20	23.50	25.50	21.10	16.21	390	645
18"	17.440	150 - 26,480	23.60	25.25	14.20	25.00	28.00	21.10	17.21	446	750
20"	19.440	185 - 32,720	25.60	28.25	16.20	27.50	30.50	24.80	18.26	588	874
24"	23.440	270 - 47,180	30.70	35.75	21.70	32.00	36.00	29.60	20.11	769	1,568
30"	29.190	420 - 73,620	35.80	41.75	26.50	38.75	43.00	35.90	23.26	1,261	2,317
36"	35.190	610 - 105,930	46.10	46.10	28.20	46.00	50.00	42.70	26.66	1,696	2,915
42"	41.190	830 - 144,370	48.05	**	32.10	52.75	**	48.35	29.99	**	**
48"	47.190	1,080 - 188,430	50.00	**	36.00	59.50	**	54.00	33.31	**	**

\* Laying lengths for meters with ANSI Class 150 Flanges are equal to UM08 laying lengths

\*\* Consult factory



# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### PROCOMM CONVERTER PART NUMBER MATRIX

PC -					
<b>CONVERTER MOUNTING OPTIONS</b>					
Remote Mount	R				
Meter Mount	M				
<b>CONVERTER POWER OPTIONS</b>					
AC Power	A				
DC Power	D				
Battery Power [25ft remote cable max]	B				
<b>CONVERTER OUTPUT OPTIONS</b>					
Dual 4-20mA Analog, Dual Digital (Standard)		1			
Modbus + STD (Two 4-20, two Dig)		2			
Hart + STD (Two 4-20, two Dig)		3			
Datalogger/BIV + STD (Two 4-20, two Dig)		4			
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)		5			
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)		6			
AMI Smart Output + STD (Two 4-20, two Dig)		7*			
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)		8*			
AMI Smart Output + Dig Out + Datalogger (Battery power only)		9*			
Digital Out + Datalogger (Standard Battery Power only)		0			
<b>SMART OUTPUT PROTOCOL OPTIONS (*7, 8, OR 9 OUTPUT OPTION REQUIRED)</b>					
No AMI Outputs				-	
Sensus Protocol (6ft cable, Nicor Connector hardwired only)				SEN	
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)				ITR6	
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)				ITR9	

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### PROCOMM CONVERTER SPECIFICATIONS

<b>Power Source</b>		
<b>AC</b>	100-240 VAC / 45-66 Hz (10 W) *	* AC or DC must be specified at time of ordering.
<b>DC</b>	10-35 VDC (10 W) *	
<b>Standard Outputs</b>		
Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability)		
Two separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings.		
<ul style="list-style-type: none"> <li>• Volumetric Pulse</li> <li>• Flow Rate (Frequency)</li> <li>• Hardware Alarm</li> <li>• High/Low Flow Alarms</li> <li>• Empty Pipe</li> <li>• Directional Indication</li> </ul>	<ul style="list-style-type: none"> <li>• Range Indication</li> <li>• Maximum switching voltage: 40 VDC</li> <li>• Maximum switching current: 100mA</li> </ul>	<ul style="list-style-type: none"> <li>• Maximum switching frequency: 1250 Hz</li> <li>• Insulation from other secondary circuits: 500V</li> </ul>
<b>Optional Outputs</b>		
<ul style="list-style-type: none"> <li>• Modbus</li> <li>• HART</li> </ul>	<ul style="list-style-type: none"> <li>• Smart Output™ (Sensus, Itron 6, Itron 9)</li> </ul>	<ul style="list-style-type: none"> <li>• Datalogger</li> <li>• Built-in verification</li> </ul>
<b>Galvanic Isolation</b>		
All inputs / outputs are galvanically isolated from power supply up to 500 V		
<b>Engineering Units</b>		
<ul style="list-style-type: none"> <li>• Cubic Meter</li> <li>• Cubic Centimeter</li> <li>• Milliliter</li> <li>• Liter</li> <li>• Cubic Decimeter</li> <li>• Decaliter</li> <li>• Hectoliter</li> <li>• Cubic Inches</li> </ul>	<ul style="list-style-type: none"> <li>• US Gallons</li> <li>• Imperial Gallons</li> <li>• Cubic Feet</li> <li>• Kilo Cubic Feet</li> <li>• Standard Barrel</li> <li>• Oil Barrel</li> <li>• US Kilogallon</li> <li>• Ten Thousands of Gallons</li> </ul>	<ul style="list-style-type: none"> <li>• Imperial Kilogallon</li> <li>• Acre Feet</li> <li>• Megagallon</li> <li>• Imperial Megagallon</li> <li>• Hundred Cubic Feet</li> <li>• Megaliters</li> </ul>
<b>Conductivity</b>		
Minimum conductivity of 5µS/cm		
<b>Electrical Connections</b>		
<b>Connection options</b>	<ul style="list-style-type: none"> <li>• Compression gland seals for 0.24" to 0.47" diameter round cable</li> <li>• Conduit option: 1/2" NPT threaded connections</li> </ul>	
<b>Sensor Cable Lengths</b>		
<b>Standard</b>	25' McCrometer supplied submersible cable with each remote mount unit.	
<b>Optional</b>	Up to 500 feet, or 25 feet max for battery powered.	
<b>Quick Connect</b>	Available in standard cable lengths: 25', 50', 75', 100', 125', 150', 175, 200', and 500'. Custom cable lengths at additional cost.	
<b>IP Rating</b>		
IP67 Die cast aluminum converter (only when connected using compression gland seals)		

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### Certifications and Approvals

<b>Standard Model</b>	<ul style="list-style-type: none"> <li>• ISO 9001:2015 certified quality management system</li> <li>• CE</li> <li>• Certified by MET to UL 61010-1</li> </ul>
<b>HL Model</b>	<ul style="list-style-type: none"> <li>• ISO 9001:2015 certified quality management system</li> <li>• CE</li> <li>• Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04               <ul style="list-style-type: none"> <li>• Class I, Division 2, Groups A-D, T5</li> <li>• Class I, Zone 2 IIC T5</li> </ul> </li> </ul>



### System Options

<ul style="list-style-type: none"> <li>• Hastelloy® electrodes</li> <li>• DC power</li> <li>• Additional sensor cable up to 475' (500' max for model 395 and 200' max for model 394)</li> </ul>	<ul style="list-style-type: none"> <li>• Extension to hardware clearance</li> <li>• Annual verification / calibration</li> <li>• Sensor insertion tool</li> <li>• Stainless steel ID tag</li> </ul>
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### Temperature Range

<b>Operating and storage</b>	-20° to 60° C (-4° to 140° F)
------------------------------	-------------------------------

### Converter Dimensions

<b>Remote mount</b>	<ul style="list-style-type: none"> <li>• Height: 7.3" (18.5 cm)</li> <li>• Width: 8.5" (21.6 cm)</li> <li>• Depth: 4.3" (10.9 cm)</li> </ul>
<b>Meter mount</b>	<ul style="list-style-type: none"> <li>• Height: 6.9" (17.5 cm)</li> <li>• Width: 7.2" (18.25 cm)</li> <li>• Depth: 6.2" (15.7 cm)</li> </ul>

### Keypad and Display

Can be used to access and change set-up parameters using six membrane keys and an LCD display

**Note regarding cable length:** McCrometer recommends minimizing cable length. Electromagnetic flow meters may have unfavorable signal strength to noise ratio in electrically noisy environments. Longer lengths of cable increase the likelihood of interference. In those cases where the meter's signal must be transmitted a long distance, or where the environment may be particularly noisy, we suggest using the converter's analog output(s). That allows locating the converter as close as possible to the metering location.

# Specification Sheet

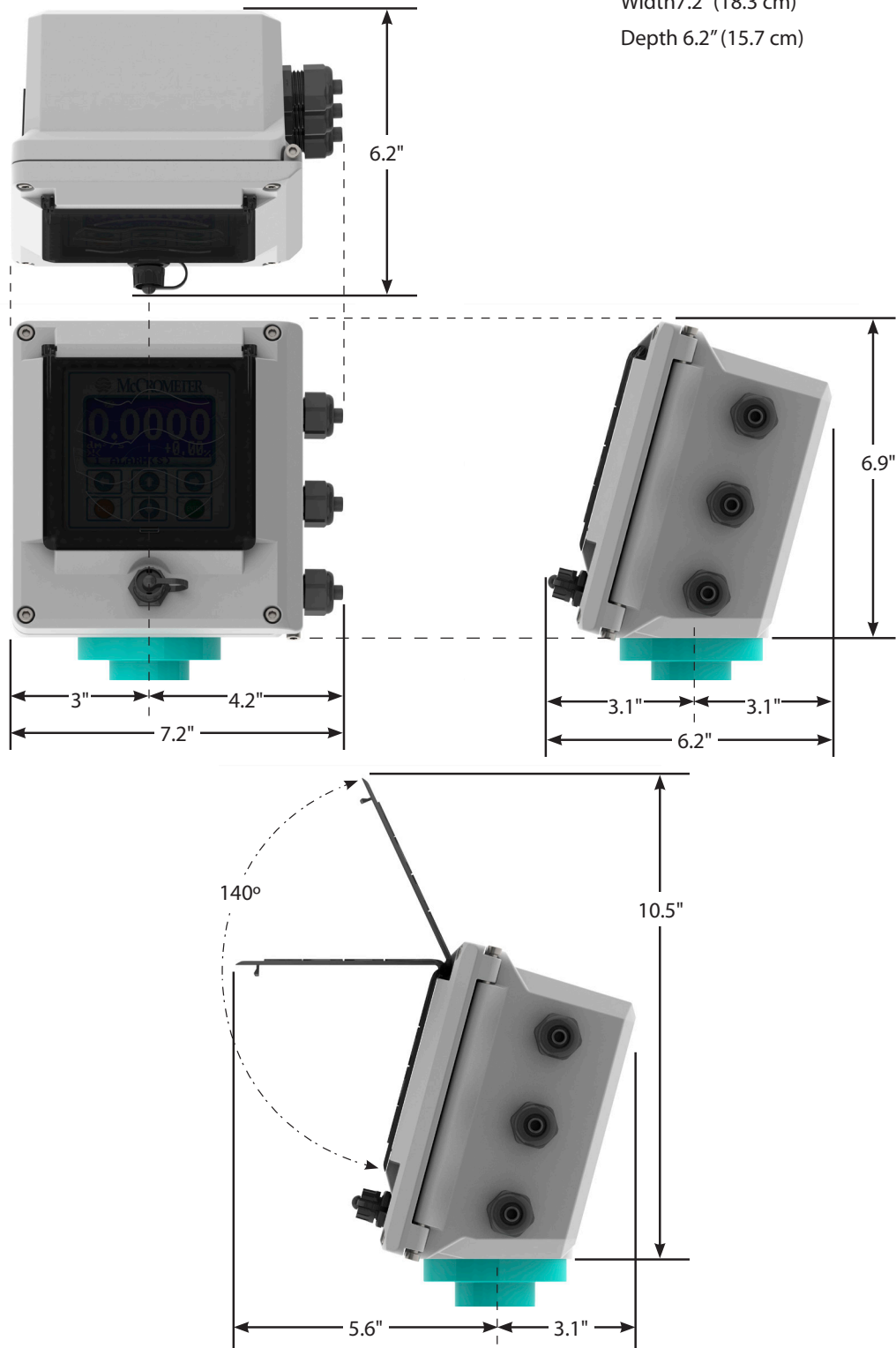
## Ultra Mag Flow Meter with ProComm Converter

### METER MOUNT CONVERTER DIMENSIONS

Height 6.9" (20.1 cm)

Width 7.2" (18.3 cm)

Depth 6.2" (15.7 cm)



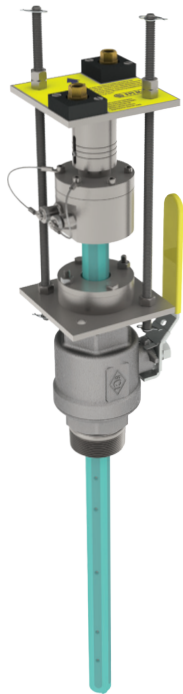
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[www.mccrometer.com](http://www.mccrometer.com)





## FPI Mag® Sensor



## ProComm® Converter



The FPI Mag® (Full Profile Insertion) electromagnetic flow meter is the only hot tap full profile insertion flow meter available on the market. The FPI Mag installs without service interruption making it ideal for retrofits, upgrades and maintenance projects and sites never metered before. The hot tap installation significantly reduces installation time eliminating the need to de-water lines or cut pipe.

The multi-electrode sensor delivers an accurate measurement of the full pipe profile rivaling the performance of a full-bore mag meter. The repeatable, stable measurement across the entire flow profile compensates for variable flow profiles, including swirl and turbulent conditions.

The FPI Mag is the industry's most economical flow metering solution offering unbeatable value in the cost of installation and ownership reducing installed costs by more than 45 percent in medium and large line sizes. The compact insertion design fits in confined spaces and offers complete accessibility. The flow meter can be removed in pipes under pressure for easy inspection, cleaning, calibrating, or verification. Installation costs are reduced by eliminating the need for heavy equipment and extensive manpower.

The innovative flow meter comes pre-calibrated from McCrometer's NIST traceable calibration labs and requires no recalibration in the field. With no moving parts and a single-piece design, the FPI Mag's sensor contains nothing to wear or break and is generally immune to clogging by sand, grit, or other debris. The electrodes are encased in a heavy-duty 316 stainless steel sensor body for maximum structural integrity and coated with a NSF certified 3M™ fusion-bonded epoxy coating for operational longevity.

## MUNICIPAL WATER AND WASTEWATER

The FPI Mag Full Profile Insertion mag meter supports the following water and wastewater treatment applications:

**Water**

- Distribution
- Effluent
- Filter balancing and backwash
- Pumping stations
- UV dosing
- Wells and booster stations

**Wastewater**

- Effluent
- Recycle / reclaim

The FPI Mag is ideal for chilled water in campus style facilities, hospitals, airports, hotels, casinos, etc.

## INDUSTRIAL FACILITIES

The FPI Mag is also suitable for a variety of industrial facilities: power plants (including cogeneration), paper mills, chemical & petrochemical plants, metals & mining, and food & beverage.

**Applications Include**

- Cooling water
- Fire water
- Feed water
- Raw water
- Inlet to surge basin
- Effluent wastewater

**Benefits:**

- **Hot Tap Installation** - No service interruption
- **Accurate** – Measures the full flow profile
- **Lower Cost** – Installed savings more than 45%
- **Robust** – No moving parts to wear or break
- **Versatile** – Great for plant maintenance, upgrades and retrofits
- **Accessible** – Insertion design provides easy access
- **Virtually No Maintenance** – No field calibration required



**FPI MAG PART NUMBER MATRIX**

<b>39</b>		-	-	-	-	-	-	-	-	-	-
<b>SINGLE DIRECTION / BIDIRECTIONAL</b>											
→	<b>394 - Bidirectional</b>	<b>4</b>									
	<b>395 - Single Direction</b>	<b>5</b>									
<b>STOCK BODY OR CUSTOM LENGTH</b>											
→	<b>Stock Body Length (4-24")</b>	<b>S</b>									
	<b>Custom Body Length</b>	<b>C</b>									
<b>NOMINAL LINE SIZE</b>											
	4 in	<b>004</b>									
	6 in	<b>006</b>									
→	<b>8 in</b>	<b>008</b>									
	10 in	<b>010</b>									
	12 in	<b>012</b>									
	14 in	<b>014</b>									
	16 in	<b>016</b>									
	18 in	<b>018</b>									
	20 in	<b>020</b>									
	22 in	<b>022</b>									
	24 in	<b>024</b>									
	30 in	<b>030</b>									
	36 in	<b>036</b>									
	42 in	<b>042</b>									
	48 in	<b>048</b>									
	54 in	<b>054</b>									
	60 in	<b>060</b>									
	66 in	<b>066</b>									
	72 in	<b>072</b>									
<b>Contact Factory for Larger Line Sized</b>		<b>Larger</b>									
<b>ELECTRODE MATERIAL OPTIONS</b>											
→	<b>S316 Stainless Steel (Standard)</b>	<b>S</b>									
	<b>Hastelloy</b>	<b>H</b>									
<b>CABLE CONNECTOR OPTIONS</b>											
→	<b>Quick Connect (Standard)</b>	<b>Q</b>									
	<b>Strain Relief</b>	<b>R</b>									
<b>REMOTE CABLE LENGTH OPTIONS</b>											
→	<b>25 feet (Standard) *</b>	<b>025</b>									
	50 feet	<b>050</b>									
	75 feet	<b>075</b>									
	100 feet	<b>100</b>									
	125 feet	<b>125</b>									
	150 feet	<b>150</b>									
	175 feet	<b>175</b>									
	200 feet *	<b>200</b>									
	500 feet *	<b>500</b>									
<b>Custom Length Cable [User Specified]</b>		<b>CST</b>									

\* Maximum cable lengths:  
 Battery powered converter cable: 25 feet  
 Model 394: 200 feet  
 Model 395: 500 feet

continued next page





FPI Mag Flow Meter with ProComm Converter

CONVERTER POWER OPTIONS	
AC Power	A
DC Power	D
Battery Power [25ft remote cable max]	B
Solar Power, Battery Backup [25ft remote cable max]	S
CONVERTER OUTPUT OPTIONS	
Dual 4-20mA Analog, Dual Digital (Standard)	1
Modbus + STD (Two 4-20, two Dig)	2
Hart + STD (Two 4-20, two Dig)	3
Datalogger/BIV + STD (Two 4-20, two Dig)	4
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)	5
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)	6
AMI Smart Output + STD (Two 4-20, two Dig)	7
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)	8
AMI Smart Output + Dig Out + Datalogger (Battery power only)	9
Digital Out + Datalogger (Standard Battery Power only)	0
BALL VALVE OPTIONS	
2" NPT SS Ball Valve	N
2" BSP Brass Ball Valve	B
No Valve, NPT Hardware	X
No Valve, BSP Hardware	Y
SMART OUTPUT PROTOCOL OPTIONS*	
No AMI Outputs	-
Sensus Protocol (6ft cable, Nicor Connector hardwired only)	SEN
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR6
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR9
HAZARDOUS LOCATION	
Class I, Division 2, Groups A-D, T5	HL

\* Smart Output protocol options require selection of converter output option 7, 8, or 9.



## FPI Mag Flow Meter with ProComm Converter

## FLOW METER SPECIFICATIONS

The full pipe averaging flow meter comes complete with Mounting Hardware, AC Converter with Dual 4-20mA output, 25 Feet of Dual Submersible Cables with quick connects at sensor, Stainless Steel Body, 316 Stainless Steel Electrodes, NSF Approved Fusion Bonded Epoxy Coating, 2" Stainless Steel Ball Valve (minimum of 1-7/8" port I.D.), 2" x Close Stainless Steel Nipple, 2-Year Warranty.

## Measurement

Volumetric flow in filled flow conduits 4" (100 mm) to 138" (3,500 mm) utilizing insertable electromagnetic averaging sensor. Flow indication in English Standard or Metric units.

## Flow Measurement

<b>Method</b>	Electromagnetic
<b>Calibrated accuracy for forward and bidirectional sensors</b>	<ul style="list-style-type: none"> <li>• <math>\pm 0.5\%</math> from 1 f/s to max velocity (on next page), up to <math>\pm 1\%</math> for 0.3 to 1 f/s</li> <li>• <math>\pm 1\%</math> for reverse flow</li> </ul>
<b>Linearity</b>	0.3% of Range
<b>Repeatability</b>	0.2% of Reading
<b>Direction measurement</b>	<ul style="list-style-type: none"> <li>• 395 sensor - Forward flow measurement and reverse flow indication</li> <li>• 394 sensor - bidirectional flow measurement</li> </ul>

## Materials

<b>Coating</b>	Fusion bonded epoxy (NSF 61 approved) coated 316 stainless steel
<b>Insertion hardware</b>	316 Stainless Steel
<b>Compression seal</b>	Silicone Rubber
<b>Sensor electrodes</b>	316 Stainless Steel

## Temperature Range

<b>Operation</b>	-10 to 60°C (14 to 140°F) up to 250 PSI
<b>Storage</b>	-15 to 60°C (5 to 140°F)
	Note regarding storage: During freezing conditions and when meter is not in use, sensor must be removed from pipe and stored in dry conditions.
	<b>NOTE: Damage to the sensor caused by allowing the sensor freeze in the pipe is not covered by the warranty.</b>

## Electrical Connections

- Quick Connect
- Compression gland seals

## IP Rating

<b>Standard model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (IP68)</li> <li>• Compression gland seals (IP68)</li> </ul>
<b>HL model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (IP67)</li> <li>• Compression gland seals (IP67)</li> </ul>

## Sensor Submersibility Depth

<b>With standard quick connect</b>	1.8 m (6 ft.)
<b>With optional strain relief cable</b>	9 m (30 ft.)



**Certifications and Approvals**

**Standard Model**

- ISO 9001:2015 certified quality management system
- NSF/ANSI/CAN 61 & NSF/ANSI 372
- Certified by MET to UL 61010-1

**HL Model**

- ISO 9001:2015 certified quality management system
- NSF/ANSI/CAN 61 & NSF/ANSI 372
- Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04
  - Class I, Division 2, Groups A-D, T5
  - Class I, Zone 2, IIC T5



**System Options**

- Hastelloy® electrodes
- Additional sensor cable up to 475' (500' max for model 395 and 200' max for model 394)
- Extension to hardware clearance
- Annual verification / calibration
- Sensor insertion tool
- Stainless steel ID tag

Preliminary



## FLOW METER PIPE SIZES AND FLOW RANGES

Pipe Size (Nominal)	Pipe ID Range		Flow Ranges (GPM Standard)		Standard Program Defaults <sup>1</sup>	Minimum Clearance Required During Installation <sup>2</sup>	Velocity Range <sup>3</sup> (f/s)	
	Min Pipe ID	Max Pipe ID	Min (GPM) <sup>1</sup>	Max (GPM) <sup>1</sup>	20mA			
<b>S</b> = Standard (Available in 395 models Pipe Sizes 4" - 24" as shown in table below) <b>C</b> = Custom (Available in all 394 and 395L models Pipe Sizes 4" - 138") Standard Length Hardware and Installation Clearance Dimensions are based on a 4" Maximum Height Coupling and Pipe Schedule Standard								
4"	3.63	4.99	12	1280	600 GPM	51"	0.3 - 32	
6"	5.00	6.99	26	2800	1300 GPM	51"	0.3 - 32	
8"	7.00	8.99	47	5000	2350 GPM	55"	0.3 - 32	
10"	9.00	10.99	80	8000	4000 GPM	55"	0.3 - 32	
12"	11.00	12.99	110	11000	5500 GPM	59"	0.3 - 32	
14"	13.00	14.99	150	15000	7500 GPM	59"	0.3 - 32	
16"	15.00	16.75	190	20000	9500 GPM	59"	0.3 - 32	
18"	16.76	18.80	240	26000	12000 GPM	63"	0.3 - 32	
20"	18.81	20.99	300	28000	15000 GPM	63"	0.3 - 28	
22"	21.00	22.49	400	30000	20000 GPM	67"	0.3 - 25	
24"	22.50	25.99	410	33000	20500 GPM	67"	0.3 - 23	
30"	26.00	31.99	600	44000	30000 GPM	71.25"	0.3 - 20	
36"	32.00	37.99	1000	48000	50 KGPM	77.25"	0.3 - 15	
42"	38.00	43.99	1300	56000	65 KGPM	83.25"	0.3 - 13	
48"	44.00	49.99	1700	62000	85 KGPM	89.25"	0.3 - 11	
54"	50.00	55.99	2200	79000	110 KGPM	95.25"	0.3 - 11	
60"	56.00	61.99	2600	97000	130 KGPM	101.25"	0.3 - 11	
66"	62.00	67.99	3200	106000	160 KGPM	107.25"	0.3 - 10	
72"	68.00	73.99	3800	127000	190 KGPM	113.25"	0.3 - 10	
78"-138"	74.00	138.00	Available - Call Factory at 1-800-220-2279					

<sup>1</sup> Default totalizer units measured as KGAL.

<sup>2</sup> Hardware clearance after installation for all sizes is 28".

<sup>3</sup> Flow temperature range -10° to 60° C (14° to 140° F) up to 250 PSI, max pressure is 250 psi.

### ! Required Information

At the time of ordering, please be prepared to provide the following information:

1. Pipe ID and Pipe OD
2. Unit of Measure (US Gallons is Default)
3. Maximum pressure
4. FPI Specification Data Sheet for custom length sensors

Consult factory if any chemicals are in use.



**PROCOMM CONVERTER PART NUMBER MATRIX**

PC		-	-	-	-	-
<b>CONVERTER MOUNTING OPTIONS</b>						
Meter Mount	M					
Remote Mount	R					
<b>CONVERTER POWER OPTIONS</b>						
AC Power	A					
DC Power	D					
Battery Power [25ft remote cable max]	B					
Solar Power, Battery Backup [25ft remote cable max]	S					
<b>CONVERTER OUTPUT OPTIONS</b>						
Dual 4-20mA Analog, Dual Digital (Standard)	1					
Modbus + STD (Two 4-20, two Dig)	2					
Hart + STD (Two 4-20, two Dig)	3					
Datalogger/BIV + STD (Two 4-20, two Dig)	4					
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)	5					
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)	6					
AMI Smart Output + STD (Two 4-20, two Dig)	7					
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)	8					
AMI Smart Output + Dig Out + Datalogger (Battery power only)	9					
Digital Out + Datalogger (Standard Battery Power only)	0					
<b>SMART OUTPUT PROTOCOL OPTIONS *</b>						
No AMI Outputs	-					
Sensus Protocol (6ft cable, Nicor Connector hardwired only)	SEN					
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR6					
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR9					
<b>HAZARDOUS LOCATION</b>						
Class I, Division 2, Groups A-D, T5	HL					

\* Smart Output protocol options require selection of converter output option 7, 8, or 9.



## PROCOMM CONVERTER SPECIFICATIONS

### Power Source

<b>AC</b>	100-240 VAC / 45-66 Hz (10 W)	Note: AC or DC must be specified at time of ordering.
<b>DC</b>	10-35 VDC (10 W)	

### Standard Outputs

Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability)

Two separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings.

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>• Volumetric Pulse</li> <li>• Flow Rate (Frequency)</li> <li>• Hardware Alarm</li> <li>• High/Low Flow Alarms</li> <li>• Empty Pipe</li> <li>• Directional Indication</li> </ul> | <ul style="list-style-type: none"> <li>• Range Indication</li> <li>• Maximum switching voltage: 40 VDC</li> <li>• Maximum switching current: 100mA</li> </ul> | <ul style="list-style-type: none"> <li>• Maximum switching frequency: 1250 Hz</li> <li>• Insulation from other secondary circuits: 500V</li> </ul> |
|---|---|--|

### Optional Outputs

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>• Modbus</li> <li>• HART</li> </ul> | <ul style="list-style-type: none"> <li>• Smart Output™ (Sensus, Itron 6, Itron 9)</li> </ul> | <ul style="list-style-type: none"> <li>• Datalogger</li> <li>• Built-in verification</li> </ul> |
|--|--|---|

### Galvanic Isolation

All inputs / outputs are galvanically isolated from power supply up to 500 V

### Engineering Units

- |  |   |   |
|--|---|---|
| <ul style="list-style-type: none"> <li>• Cubic Meter</li> <li>• Cubic Centimeter</li> <li>• Milliliter</li> <li>• Liter</li> <li>• Cubic Decimeter</li> <li>• Decaliter</li> <li>• Hectoliter</li> <li>• Cubic Inches</li> </ul> | <ul style="list-style-type: none"> <li>• US Gallons</li> <li>• Imperial Gallons</li> <li>• Cubic Feet</li> <li>• Kilo Cubic Feet</li> <li>• Standard Barrel</li> <li>• Oil Barrel</li> <li>• US Kilogallon</li> <li>• Ten Thousands of Gallons</li> </ul> | <ul style="list-style-type: none"> <li>• Imperial Kilogallon</li> <li>• Acre Feet</li> <li>• Megagallon</li> <li>• Imperial Megagallon</li> <li>• Hundred Cubic Feet</li> <li>• Megaliters</li> </ul> |
|--|---|---|

### Conductivity

Minimum conductivity of 5µS/cm

### Electrical Connections

- Connection options**
- Compression gland seals for 0.24" to 0.47" diameter round cable
  - Conduit option: 1/2" NPT threaded connections

### Sensor Cable Lengths

<b>Standard</b>	25' McCrometer supplied submersible cable with each remote mount unit.
<b>Optional</b>	Up to 500 feet, or 25 feet max for battery powered.
<b>Quick Connect *</b>	Available in standard cable lengths: 25', 50', 75', 100', 125', 150', 175, 200', and 500'. Custom cable lengths at additional cost.

### IP Rating

IP67 Die cast aluminum converter (only when connected using compression gland seals)

\* Not available with SPI Mag



**Certifications and Approvals**

**Standard Model**

- ISO 9001:2015 certified quality management system
- CE
- Certified by MET to UL 61010-1

**HL Model**

- ISO 9001:2015 certified quality management system
- CE
- Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04
  - Class I, Division 2, Groups A-D, T5
  - Class I, Zone 2 IIC T5



**IMPORTANT:**

Electrical safety certifications above do not apply to model 282L Single Point Insertion (SPI Mag) Electromagnetic Flow Meter.

**System Options**

- Hastelloy® electrodes\*
- DC power
- Additional sensor cable up to 475' (500' max for FPI Mag)
- Extension to hardware clearance
- Annual verification / calibration
- Sensor insertion tool\*
- Stainless steel ID tag

**Temperature Range**

**Operating and storage**

-20° to 60° C (-4° to 140° F)

**Converter Dimensions**

**Remote mount\***

- Height: 7.3" (18.5 cm)
- Width: 8.5" (21.6 cm)
- Depth: 4.3" (10.9 cm)

**Meter mount**

- Height: 6.9" (17.5 cm)
- Width: 7.2" (18.25 cm)
- Depth: 6.2" (15.7 cm)

**Keypad and Display**

Can be used to access and change set-up parameters using six membrane keys and an LCD display

\* Not available with SPI Mag

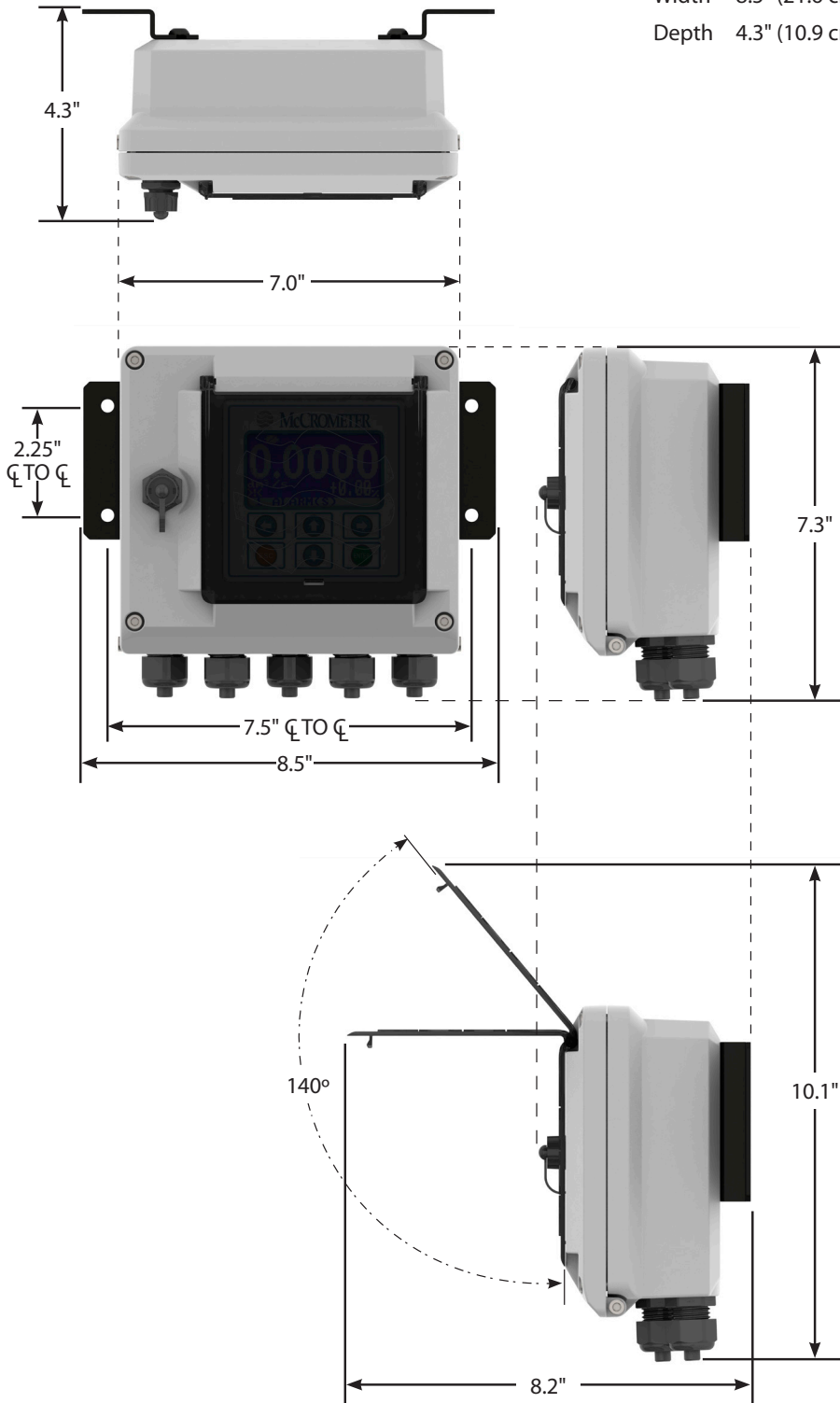
**Note regarding cable length:** McCrometer recommends minimizing cable length. Electromagnetic flow meters may have unfavorable signal strength to noise ratio in electrically noisy environments. Longer lengths of cable increase the likelihood of interference. In those cases where the meter's signal must be transmitted a long distance, or where the environment may be particularly noisy, we suggest using the converter's analog output(s). That allows locating the converter as close as possible to the metering location.

# Specification Sheet

## FPI Mag Flow Meter with ProComm Converter

### CONVERTER DIMENSIONS

Height 7.3" (18.5 cm)  
Width 8.5" (21.6 cm)  
Depth 4.3" (10.9 cm)



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3255 WEST STETSON AVENUE • HEMET, CALIFORNIA 92545 USA  
TEL: 951-652-6811 • 800-220-2279 • FAX: 951-652-3078  
[www.mccrometer.com](http://www.mccrometer.com)

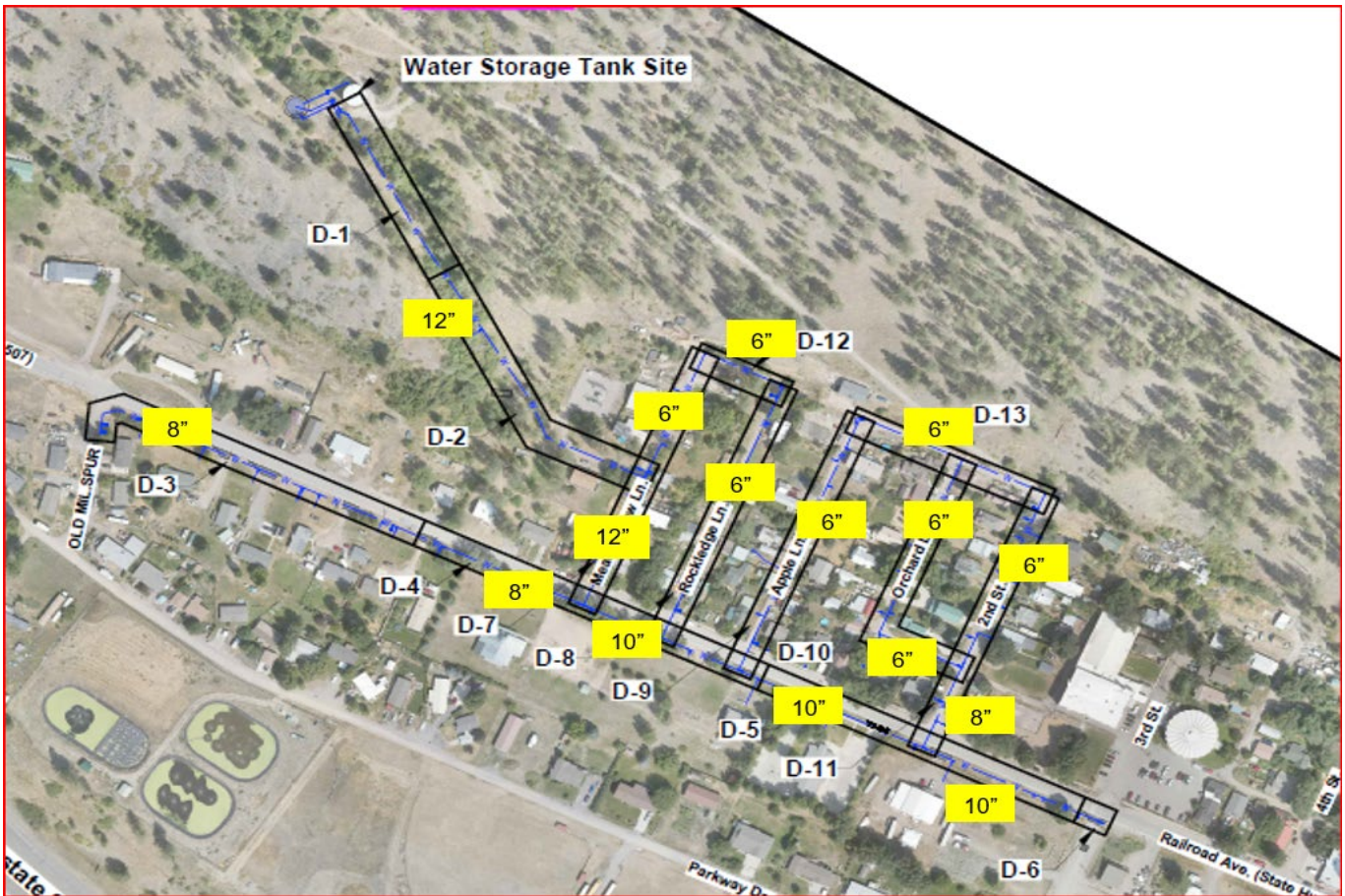


# Question 34

MAX DAY DEMAND						
Label	Pump 1 and 2 Running		Pump 1 Running, Pump 2 Off		Both Pumps Off, System Pressure Based on Tank Full Level	
	Fire Flow (Available) (gpm)	Pressure (Calculated Residual) (psi)	Fire Flow (Available) (gpm)	Pressure (Calculated Residual) (psi)	Fire Flow (Available) (gpm)	Pressure (Calculated Residual) (psi)
H-1	1,725	42	1,518	43	1,463	43
H-2	2,773	47	2,271	47	2,148	47
H-3	3,812	39	2,762	45	2,582	46
H-4	5,000	62	4,353	50	4,127	50
H-5	2,474	20	2,232	20	2,184	20
H-6	2,417	20	2,248	20	2,168	20
H-7	2,246	20	2,157	20	2,046	20
H-8	1,907	20	1,897	20	1,769	20
H-9	2,343	20	2,338	20	2,123	20
H-10	1,237	43	1,126	43	1,095	44
H-11	1,044	42	955	43	930	43
H-12	1,026	20	919	20	907	20
H-13	1,127	30	1,021	32	994	33
H-14	1,127	21	1,021	27	994	29
H-15	1,122	32	1,017	33	990	34
H-16	4,831	33	3,350	42	3,156	43
H-17	5,000	50	4,651	35	4,414	36
H-18	1,127	26	1,021	31	994	32
H-19	3,809	20	3,202	20	3,144	20
H-20	3,434	20	2,822	20	2,768	20
H-21	3,353	20	2,709	20	2,637	20
H-22	3,430	20	2,873	20	2,788	20
H-23	3,149	20	2,659	20	2,587	20
H-24	4,062	21	3,046	21	2,958	21
H-25	2,096	20	1,889	20	1,838	20
H-26	1,814	20	1,668	20	1,629	20
H-27	2,831	27	2,409	29	2,322	29
H-28	4,127	43	2,884	48	2,700	49
H-29	1,120	20	1,017	23	990	24

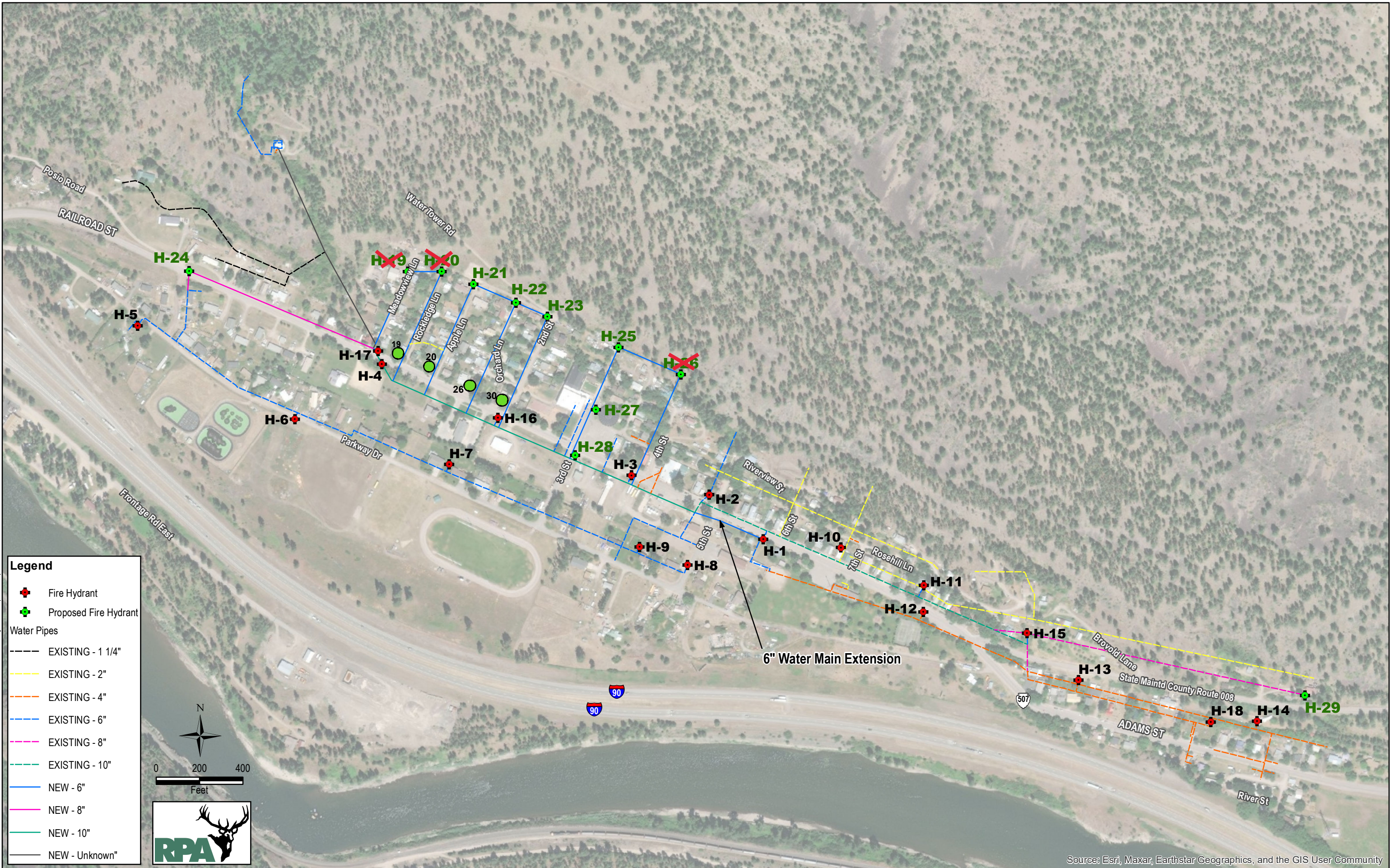
The following pipe sizes and types were used for modeling fire flow.

Nominal pipe size (inches)	Interior Diameter (inches)	
	C900 PVC	DR13.5 HDPE
6	6.08	5.584
8	7.97	7.27
10	9.78	9.062
12	11.63	10.749



Hydrant Label	Available Fire Flow (gpm)
H-1	1,736
H-2	2,714
H-3	3,703
H-4	5,000
H-5	2,469
H-6	2,410
H-7	2,238
H-8	1,899
H-9	2,330
H-10	1,258
H-11	1,072
H-12	962
H-13	1,154
H-14	1,148
H-15	1,148
H-16	4,728
H-17	5,000
H-18	1,154
H-19	3,794
H-20	3,420
H-21	3,517
H-22	3,826
H-23	3,526
H-24	4,045
H-25	2,083
H-26	1,805
H-27	2,803
H-28	4,018
H-29	1,148

existing hydrant
new hydrant



**From:** [Dalglish, Alex](#)  
**To:** [Pat Thomson](#); [Christina Eggensperger](#)  
**Subject:** RE: Alberton  
**Date:** Friday, March 27, 2026 4:44:00 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)

---

Pat,

Sounds good, thank you for clarifying.



**Alex Dalglish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C  
**DESK:** 406-542-5886 **EMAIL:** [alexander.dalglish@mt.gov](mailto:alexander.dalglish@mt.gov)  
[Website](#) | [Facebook](#) | [X \(Twitter\)](#) | [Instagram](#)  
**How did we do? Let us know here:** [Feedback Survey](#)

---

**From:** Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>  
**Sent:** Friday, March 27, 2026 2:30 PM  
**To:** Dalglish, Alex <[Alexander.Dalglish@mt.gov](mailto:Alexander.Dalglish@mt.gov)>; Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>  
**Subject:** [EXTERNAL] RE: Alberton

Alex,

Yes, the permit is for municipal use and irrigation is not being requested. I apologize for the inquiry, as it originated from a review note, as opposed to the specifics of Question 22.

Thanks for your response and we'll be sure to include the PWS approval.

Pat

---

**From:** Dalglish, Alex <[Alexander.Dalglish@mt.gov](mailto:Alexander.Dalglish@mt.gov)>  
**Sent:** Friday, March 27, 2026 2:17 PM  
**To:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>

**Cc:** Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>

**Subject:** RE: Alberton

**WARNING** - This email originated from an EXTERNAL SOURCE. Do not reply, click any link or open attachments unless you can confirm the sender. *Please report suspicious emails to itsupport*

Hi Christina,

This proposed permit is for municipal use and for Question 22, I was seeking to have the Government Lots included in the place of use legal land description.

I am confused since this permit does not propose to use any water for lawn and garden irrigation. Does the spring provide water for lawn and garden/irrigation purposes?

Also, Application question 43 asks if the proposed project is subject to DEQ requirements for a public water supply (PWS) system or Certificate of Subdivision Approval (COSA). I did not address this in the deficiency letter, but because this is a PWS, can you please provide a copy of the existing (PWS) approval from DEQ?

Thanks,



**Alex Dagleish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C

**DESK:** 406-542-5886 **EMAIL:** [alexander.dagleish@mt.gov](mailto:alexander.dagleish@mt.gov)

[Website](#) | [Facebook \[facebook.com\]](https://www.facebook.com) | [X \(Twitter \[twitter.com\]\)](https://twitter.com) | [Instagram \[instagram.com\]](https://www.instagram.com)

**How did we do? Let us know here:** [Feedback Survey \[forms.office.com\]](https://forms.office.com)

---

**From:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>

**Sent:** Friday, March 27, 2026 1:42 PM

**To:** Dagleish, Alex <[Alexander.Dagleish@mt.gov](mailto:Alexander.Dagleish@mt.gov)>

**Cc:** Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>

**Subject:** [EXTERNAL] Alberton

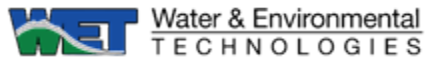
Hi Alex,

We are close to submittal of the amended Form 600 but want to clarify on Question 22. Would you like irrigated acres added for Question 22? This is not specified in the original

water right but we could do a rough estimate on GIS.

Thank you!

Christina



**Christina Eggensperger, P.E., MS**

Project Engineer / Grant Administrator

C: (406) 531-9486

[waterenvtech.com](http://waterenvtech.com)

*\*I understand that my working hours/time zone may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule.*

[Book time with Christina Eggensperger \[outlook.office.com\]](#)



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[\[instagram.com\]](https://www.instagram.com)



[\[twitter.com\]](https://www.twitter.com)



[\[youtube.com\]](https://www.youtube.com)



[\[linkedin.com\]](https://www.linkedin.com)



Missoula Water Resources Regional Office  
PO Box 5004  
2705 Spurgin Road, Bldg. C  
Missoula, MT 59806-5004  
(406) 721-4284

January 30, 2026

Town of Alberton  
PO Box 115  
Alberton, MT 59820

Subject: Deficiency letter for Beneficial Water Use Permit Application No. 76M 30165209

Dear Applicant,

The Department of Natural Resources and Conservation (DNRC or Department) has begun reviewing your application. This letter is to notify you of the deficiencies in your application as required in ARM 36.12.1501(1) and §85-2-302(5)(b), MCA. An Applicant is required to submit substantial and credible information addressing the rules and statutes that are relative to your application. You must provide the information specified below for your application to be considered correct and complete. "Correct and complete" means all of the information provided is substantial and credible and provides all of the information as required by applicable rules and statutes. The application as submitted contains deficiencies in the following section(s):

- Question 18: Fill out the table below. Means of diversion for surface water includes headgate, pump, dam and others. Means of diversion for groundwater includes well, developed spring, pit pond, and others.**

The Permit Application lists a requested a volume of 80.86 AF. This contradicts the preapplication materials, where only an additional flow rate of 20 GPM was proposed.



Specifically, Question 9 on Form No. 600P stated that *“this proposed permit will be utilized to increase flow rate diverted from the spring. No additional volume will be required. Volume under 76M 45355 00 is sufficient for the town’s needs”*. Please confirm that this Application is not requesting any additional volume (as later stated in Question 26 on the Application Form).

- Question 20: Describe the proposed location of the point(s) of diversion to the nearest ¼ ¼ ¼ Section.**

The developed spring point of diversion is in Government Lot 1. Please include this information in the Table for Question 20.

- Question 22: Describe the legal land description for the proposed place of use and , if applying for irrigation or lawn and garden, list the number of irrigated acres.**

While the map included with the Application shows the proposed place of use, please fill out the table provided on the Application Form. Take note that the place of use legal land descriptions include Government Lots, and that these lot numbers are not described on existing Statement of Claim 76M 45355 00.

- Question 23.a: If yes, summarize how the supplemental and proposed water rights will be operated as a whole to serve the purpose(s).**

In the preapplication Form 600P, you identify water rights 76M 45355 00 and 76M 13904 00 as supplemental or overlapping with the proposed place of use. Please describe all overlapping/supplemental water rights and elaborate how the proposed use under this Application will be used in conjunction with the right(s).

- Question 24: For each supplemental or overlapping water right, please list the water right number, typical period of diversion and use (MM/DD-MM/DD), flow rate (GPM or CFS), and volume of water (AF) contributed to the shared place of use.**

In addition to right 76M 13904 00 listed on the Application, the Town of Alberton also owns overlapping water right 76M 45355 00 from the developed spring. Please list all overlapping water rights in the table.

- Questions 30/30.a: Do other water rights share any of the proposed points of diversion/ If yes, describe how the proposed project will not adversely affect these water rights.**

The answer to Question 30 was “no”, but water right 76M 45355 00 also lists the same point of diversion legal land description (Govt. Lot 1, NWNENE Sec. 3, Twp. 14N, Rge. 23W) and the same spring source as the Application. The answer to Question 30 is inconsistent with information provided on Form 600P. It appears the answer to Question 30 is believed to be “yes”. Please complete Question 30.a and describe how the proposed project will not adversely affect the water rights sharing the spring diversion.



- ❑ ***Questions 31/31.a: Do other water rights share any conveyance infrastructure associated with the proposed project/ If yes, describe how the proposed project will not adversely affect these water rights.***

The answer to Question 31 was marked “no”. However, this is contradictory to Question 9 in the preapplication materials (Form 600P) where it was stated that existing Statement of Claim 76M 45355 00 is supplemental or overlapping to the proposed use. Additionally, Question 9 on the Preapplication Form 600P stated the proposed Application will use the same water distribution and wastewater treatment as Statement of Claim 76M 45355 00. The answer to Question 31 is inconsistent with the information provided on Form 600P. Since the answer to Question 31 appears to be “yes”, please complete Question 31.a and describe how the proposed project will not adversely affect the water rights sharing the conveyance infrastructure.

- ❑ ***Question 34: Describe the size, material, capacity, and configuration of infrastructure to convey water from all proposed points of diversion to all proposed places of use. This may include but is not limited to, pipelines and ditches. Include a description of any losses related to the proposed conveyance. Ditch conveyance losses may be estimated numerous ways, which include a ditch loss rate or Department standard methods.***

Please provide/explain the capacity of the municipal water storage tank as well as the capacity of the Towns water conveyance infrastructure.

- ❑ ***Question 35: Describe how the proposed diversion and conveyance infrastructure can provide the required flow and volume, for the purposes plus any conveyance losses and storage, throughout the proposed period of diversion.***

The Department needs to understand if the infrastructure can convey the additional water requested under this Application. Please explain how the municipal water distribution lines, hydrants, etc. can convey and accommodate the proposed flow rate.

- ❑ ***Question 36: Provide a plan of operations, which includes specific information about how water is delivered within the place of use. This may include, where applicable, the range of flow rates needed for a pivot.***

Further information is needed as to how water is delivered within the place of use. Please explain how water conveyed throughout the place of use, including mainlines, lateral lines, fire hydrants, etc.

- ❑ ***Questions 39/39a: Will your system be designed to discharge water from the project?***

The answer to Question 39 was “no”. However, it is understood that municipal uses generate wastewater. Therefore, the answer to Question 39 is believed to be “yes”. For Question 39.a., please explain the municipal wastewater disposal method (i.e. individual drain fields, a central treatment facility, etc.).



- *Questions 42/42.a/42.b: Does the Department have a volume, period of diversion, or period of use standard for the purposes for which water is proposed? Department standards can be found in the DNRC Water Calculation Guide, ARM 36.12.112, and ARM 36.12.115/ If yes, do all proposed beneficial uses fall within Department standards?/ if no, Department standard exists, of if any proposed beneficial use falls outside of Department standards, explain how the requested flow rate and volume are reasonable for the purpose.*

The answer to Question 42 was “yes”. However, the Department does not have a standard for municipal use listed on the Water Calculation Guide, ARM 36.12.112 or ARM 36.12.115.. Therefore, the answer to Question 42.a is believed to be “no”. For Question 42.a., the proposed beneficial use for municipal purposes does not fall within Department standards and the answer is also understood to be “no”. For Question 42.b., please explain how the requested flow rate and volume are reasonable for the purpose.

As stated above, the information submitted to address the rules and statutes listed in this deficiency letter must be substantial credible information to be acceptable at the correct and complete determination. §§85-2-102 (9) and (26), MCA.

Please submit the information specified above to the Missoula Regional Office by May 30, 2026. This is the only deficiency letter that will be sent. An application not corrected or completed within 120 days from the date of this letter is terminated per ARM 36.12.1501(2) and §85-2-302(6)(a), MCA.

Please let me know if you have any questions.

Best,



Alex Dalglish

Water Resource Specialist II

Missoula Regional Office

(406)-542-5886

[Alexander.dalglish@mt.gov](mailto:Alexander.dalglish@mt.gov)

CC:

Water and Environmental Technologies



c/o Christina Eggensperger  
480 E Park St.  
Butte, MT 59701-1923

---

**IMPORTANT NOTICE:** This will be the final opportunity for you to provide the required information to the Department. If all of the requested information in this letter is not postmarked or submitted within 120 days of this letter, the application will be terminated within 30 days and the application fee will not be refunded.



## Application Materials

- Application
- Any information submitted with Application including maps

# Application Materials

Effective October 1, the transaction fee will be changing from 1.5% with a \$20 maximum to 5% with a \$.50 minimum and a \$10 maximum.

## Montana Department of Natural Resources and Conservation



The Montana Department of  
**Natural Resources  
& Conservation**

### Receipt

01/21/26 12:42 PM MST

**WR#** : 76M 30165209

**Payment Type** : Credit/Debit Card

**Transaction Id** : 11615002581

Description	Price	Quantity	Amount
<b>Water-Filing Fees (All Forms)</b>	\$700.00	1	\$700.00
Surcharge *			\$27.50
<b>TOTAL</b>			<b>\$727.50</b>

#### Billing Information

Nancy Tome  
PO Box 115  
Alberton , MT 59820  
406-722-3404  
townofalberton@blackfoot.net

\* When making a payment, please be aware of the following fees:

1. **Online Payment Fee** – A 5% fee is applied to all online payments (credit card or ACH). This fee helps cover the cost of maintaining the state's online payment system.

- Minimum charge: \$0.50
- Maximum charge: \$10.00

2. **Credit Card Processing Fee** – An additional 2.5% fee applies only to credit card payments. This covers fees charged by credit card networks.

💡 **Tip:** To avoid the extra 2.5% fee, we recommend paying by ACH (bank transfer) when possible.

Thank you for your payment!

**Montana Department of Natural Resources and Conservation**

**From:** [Dalgleish, Alex](#)  
**To:** [townofalberton@blackfoot.net](mailto:townofalberton@blackfoot.net)  
**Cc:** [Christina Eggensperger](#); "Pat Thomson"  
**Subject:** RE: Virtual Payment  
**Date:** Wednesday, January 21, 2026 1:13:00 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[Application 76M 30165209 Fee Receipt.pdf](#)

---

Nancy,

Attached is the Town of Alberton's receipt for Application No. 76M 30165209.

Thank you,



**Alex Dalgleish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C  
**DESK:** 406-542-5886 **EMAIL:** [alexander.dalgleish@mt.gov](mailto:alexander.dalgleish@mt.gov)  
[Website](#) | [Facebook](#) | [X \(Twitter\)](#) | [Instagram](#)  
**How did we do? Let us know here:** [Feedback Survey](#)

---

**From:** Dalgleish, Alex  
**Sent:** Wednesday, January 21, 2026 11:52 AM  
**To:** 'Christina Eggensperger' <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>  
**Cc:** Nancy Tome <[townofalberton@blackfoot.net](mailto:townofalberton@blackfoot.net)>; Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>  
**Subject:** RE: Virtual Payment

Christina,

Currently, we do not have an online portal where applicants can pay fees. Nancy can call me (406-542-5886) and I can process they payment.



**Alex Dalgleish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C  
**DESK:** 406-542-5886 **EMAIL:** [alexander.dalgleish@mt.gov](mailto:alexander.dalgleish@mt.gov)  
[Website](#) | [Facebook](#) | [X \(Twitter\)](#) | [Instagram](#)  
**How did we do? Let us know here:** [Feedback Survey](#)

---

**From:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>

**Sent:** Tuesday, January 20, 2026 2:13 PM

**To:** Dalglish, Alex <[Alexander.Dalglish@mt.gov](mailto:Alexander.Dalglish@mt.gov)>

**Cc:** Nancy Tome <[townofalberton@blackfoot.net](mailto:townofalberton@blackfoot.net)>; Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>

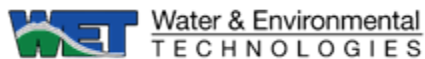
**Subject:** [EXTERNAL] Virtual Payment

Hi Alex,

Is it still possible to pay online or over the phone? Nancy (from Town of Alberton) is interested in paying the submittal fee online – would you be able to point her in the direction of the payment portal?

I have CC'd her on this email. Thank you!!

Christina



**Christina Eggensperger, P.E., MS**

Project Engineer / Grant Administrator

C: (406) 531-9486

[waterenvtech.com](http://waterenvtech.com)

*\*I understand that my working hours/time zone may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule.*

[Book time with Christina Eggensperger \[outlook.office.com\]](#)



[\[facebook.com\]](https://www.facebook.com)



[\[instagram.com\]](https://www.instagram.com)



[\[twitter.com\]](https://www.twitter.com)



[\[youtube.com\]](https://www.youtube.com)



[\[linkedin.com\]](https://www.linkedin.com)



APPLICATION FOR BENEFICIAL WATER USE PERMIT

§ 85-2-302, MCA

Form No. 600 (10/2025)

For Department Use Only RECEIVED

JAN 21 2023

MONTANA D.N.R.C MISSOULA REGIONAL OFFICE

FILING FEE

\$2900/\$1600 - Inside a Basin Closure Area, Controlled Groundwater Area or Compact Closure; without/with filing fee reduction.

\$2500/\$1200 - Outside a Basin Closure Area; Controlled Groundwater Area or Compact Closure; without/with filing fee reduction.

INFORMATION

An application will be eligible for a filing fee reduction and expedited timelines if the applicant completes a preapplication meeting with the Department (ARM 36.12.1302(1)), which includes submitting any follow-up information identified by the Department (ARM 36.12.1302(3)(c)) and receiving either Department-completed technical analyses or Department review of applicant-submitted technical analyses (ARM 36.12.1302(4) and (5)). An application for the proposed project also must be submitted within 180 days of delivery of Department technical analyses or scientific credibility review and no element on the submitted application can be changed from the completed preapplication meeting form (ARM 36.12.1302(6)). If application is eligible for a filing fee reduction, \$500 paid for Form 600P-B will be credited toward filing fees shown above.

Application # 30165209 Basin 76M
Priority Date Time AM/PM
Rec'd By AD
Fee Rec'd \$ 700.00 Check # 11615002581
Deposit Receipt # 11615002581 (Transaction ID)
Payor Town of Alberton
Refund \$ Date

Applicant Information: Add more as necessary.

Applicant Name Town of Alberton
Mailing Address PO Box 115 City Alberton State MT Zip 59820
Phone Numbers: Home Work 406-722-3404 Cell
Email Address albertoncouncild2@gmail.com

Applicant Name
Mailing Address City State Zip
Phone Numbers: Home Work Cell
Email Address

Applicant Name
Mailing Address City State Zip
Phone Numbers: Home Work Cell
Email Address

Contact/Representative Information: Add more as necessary.

Contact/Representative is: [ ] Applicant [x] Consultant [ ] Attorney [ ] Other
Contact/Representative Name Christina Eggensperger, Pat Thomson
Mailing Address 480 East Park St City Butte State MT Zip 59701
Phone Numbers: Home Work 406-782-5220 Cell 406-531-9486
Email Address ceggensperger@waterenvtech.com

NOTE: If a contact person is identified as an attorney, all communication will be sent only to the attorney unless the attorney provides written instruction to the contrary (ARM 36.12.122(2)). If a contact person is identified as a consultant, employee, or lessee, the individual filing the water right form or objection form will receive all correspondences, and a copy may be sent to the contact person (ARM 36.12.122(3)).



Answer every question and applicable follow-up questions. Use the checkboxes to denote yes (“Y”), no (“N”), or not applicable (“NA”). Questions that require items to be submitted to the Department have a submitted (“S”) checkbox, which is marked when the required item is attached to the Application. Label all submitted items with the question number for which they were submitted. Narrative responses that are larger than the space provided can be answered in an attachment. If an attachment is used, specify “see attachment” on this form, and label the attachment with the question number. Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Responses in the form of a table may be entered into the table provided on this form or in an attachment. If an attachment is used, the table must have the exact headings found on this form, and “see attachment” must be entered as a response to the relevant question. Clearly label all units in tables and narrative responses.

**PREAPPLICATION AND TECHNICAL ANALYSES INFORMATION**

- 1.  Y  N Do you elect for Department technical analyses to be used for criteria assessment?
- 2.  Y  N Did you have a preapplication meeting AND complete a Permit Preapplication Meeting Form Part A and Part B (Form 600P-A and 600P-B)?

**IF QUESTION 2 IS NO, answer 2.a and 2.b:**

- 2.a.  S Submit the Technical Analyses Addendum (Form 600-TAA).
- 2.b.  S  NA Submit the technical analyses, if you elected in question 1 for Applicant technical analyses to be used for criteria assessment. Select “NA” if you elected for Departmental technical analyses.

**IF QUESTION 2 IS YES, answer 2.c, 2.d, and 2.e:**

- 2.c.  Y  N Has any element of the project described in this application changed from the mandatory elements of the project described in the completed form 600P? **If yes:**  
2.c.i. Please explain.

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- 2.c.ii.  S Submit the Technical Analyses Addendum (Form 600-TAA).

- 2.d.  Y  N Are the technical analyses to be used for criteria assessment exactly the same as those completed during the preapplication process? **If no:**  
2.d.i. Please explain.

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- 2.d.ii.  S Submit the Technical Analyses Addendum (Form 600-TAA).

- 2.e.  Y  N Did you elect in Question 1 for Department technical analyses to be used for criteria assessment? **If no:**  
2.e.i.  S Submit the technical analyses.



## **APPLICATION ADDENDA AND REVIEW**

3.  **S**  **NA** If your application is for groundwater, not surface water, and one or more of your points of diversion are in a Basin Closure Area, then submit the Basin Closure Area Addendum (Form 600-BCA).
  
4.  **S**  **NA** If your application is for groundwater and one or more points of diversion are in a Basin Closure Area, then your project must have a Hydrogeologic Report that conforms with MCA 85-2-361 to comply with the requirements of § 85-2-360, MCA. A Hydrogeologic Report Addendum (Form 600-HRA) or Department Technical Analyses may be used to meet these requirements. Please mark the box below that best applies, then select “S” if submitting a Hydrogeologic Report or “NA” if one is not required. This question does not apply to surface water points of diversion in a Basin Closure Area.
  - If you elected to conduct Technical Analyses, you must submit the Hydrogeologic Report Addendum (Form 600-HRA).
  - If you elected for DNRC to conduct Technical Analyses but did not have a preapplication meeting AND complete a Form 600P Permit Preapplication Meeting Form (or changes have occurred since the completed Form 600P), you must submit the Hydrogeologic Report Addendum (Form 600-HRA).
  - If you elected for DNRC to conduct Technical Analyses, had a preapplication meeting, completed a Form 600P, and the Technical Analyses remain unchanged since the preapplication meeting, you do not need to submit Form 600-HRA because the Department’s Technical Analyses meet the report requirements of § 85-2-360 and § 85-2-361, MCA.
  
5.  **S**  **NA** If the project is for one or more groundwater points of diversion located in a Controlled Groundwater Area, then submit the Controlled Groundwater Area Addendum (Form 600-CGWA).
  
6.  **S**  **NA** If the project involves an appropriation that is greater than 5.5 CFS and 4,000 acre-feet, then submit a Criteria Addendum Application for Beneficial Water Use Permit for Appropriations Greater than 5.5 CFS and 4,000 AC-FT (Form 600-B).
  
7.  **S**  **NA** If the project involves out-of-state water use, then submit the Out-of-State Use Addendum (Form 600/606-OSA).
  
8.  **S**  **NA** If you require mitigation water to meet the criteria of issuance, then submit a Mitigation Purpose Addendum (Form 600/606-MIT).
  
9.  **S**  **NA** If the proposed purposes include marketing or selling water, (not marketing for mitigation/aquifer recharge), then submit the Marketing Purpose Addendum (Form 600/606-WMA).
  
10.  **S**  **NA** If the project involves one or more places of storage, then submit a Permit Storage Addendum (Form 600-SA). This does not include reservoirs, pits, pit-dams, or ponds with a capacity less than 0.1 AF; water tanks; or cisterns (ARM 36.12.113(6)).
  
11.  **S**  **NA** If the project is in designated sage grouse habitat, then submit a review letter from the Montana Sage Grouse Habitat Conservation Program.
  
12.  **S**  **NA** If the project includes a point of diversion and/or place of use on State of Montana Trust Land, submit documentation of consent from the DNRC Trust Lands Management Division.
  
13.  **S**  **NA** You must provide a written notice of the application to each owner of an appropriation right sharing a point of diversion or means of conveyance (e.g., canal, ditch, flume, pipeline, or constructed waterway) pursuant to §85-2-302(4)(c), MCA. Submit a copy of this notice and the recipient list.



**PURPOSE AND DIVERSION INFORMATION**

14.  Y  N Is the proposed use temporary?

14.a. If yes, when will the appropriation cease? \_\_\_\_\_

15. Is the proposed source surface water or groundwater? \_\_\_\_\_

16. What is the source name? \_\_\_\_\_

17.  S Attach a map utilizing an aerial photograph or topographic map that shows the following: section corners; township and range; north arrow; scale bar; all proposed points of diversion labeled with a unique Point of Diversion (POD) ID number and, if applicable, GWIC number; all proposed places of use; all proposed conveyance facilities and or routes; all proposed places of storage labeled with a unique Storage ID number; and places of use (POU) for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.

18. Fill out the table below. Means of diversion for surface water includes headgate, pump, dam, and others. Means of diversion for groundwater includes well, developed spring, pit pond, and others.

Purpose	Means of Diversion	Acres Irrigated (if appl.)	Period of Diversion (Month/Day - Month/Day)	Period of Use (Month/Day - Month/Day)	Flow Rate		Volume (Acre-Feet)	
					<input type="checkbox"/> GPM	<input type="checkbox"/> CFS		
Total Flow Rate and Volume Required								

19.  Y  N Does the proposed use include on or more of the following purposes: domestic, multiple domestic, stock, or irrigation? If yes, fill out the table below, where applicable.

Purpose	Requested Information	Response
Domestic or multiple domestic	Number of households and bedrooms served per household	
Stock	Number of animal units	
Irrigation	Method of irrigation type (sprinkler or flood) and subtype (if flood: level border, graded border, furrow, contour ditch, or other; if sprinkler: center pivot, wheel line, or other)	
Irrigation (flood only)	Design slope	





**SUPPLEMENTAL AND OVERLAPPING WATER RIGHTS**

23.  Y  N Will other water rights supplement or overlap the place of use to contribute to the purpose(s)?

23.a. If yes, summarize how the supplemental and proposed water rights will be operated as a whole to serve the purpose(s).

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24. For each supplemental or overlapping water right, please list the water right number, typical period of diversion and use (MM/DD-MM/DD), flow rate (GPM or CFS), and the volume of water (AF) contributed to the shared place of use.

Water Right #	Average Period of Diversion	Average Period of Use	Flow Rate	Volume Contributed

25.  Y  N Will this application supplement contract water from a Federal Project, ditch company, or other source?

25.a. If yes, explain.

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**ADVERSE EFFECT**

26. Explain how you can control your diversion in response to a call being made.

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27. Describe any plans you have for ensuring existing water rights will be satisfied during times of water shortage.

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28.  Y  N Are you aware of any calls that have been made on the source of supply or, if groundwater, on nearby surface water sources?

28.a. If yes, explain.

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29.  Y  N Does a water commissioner distribute water or oversee water distribution on your proposed source?

29.a. If yes, list the source(s).

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30.  Y  N Do other water rights share any of the proposed points of diversion?

30.a. If yes, describe how the proposed project will not adversely affect these water rights.

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31.  Y  N Do other water rights share any conveyance infrastructure associated with the proposed project?

31.a. If yes, describe how the proposed project will not adversely affect these water rights.

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**ADEQUATE MEANS OF DIVERSION AND OPERATION**

32.  **S** Submit a diagram of how you will operate your system from all proposed points of diversion to all proposed places of use.

33. Describe specific information about the capacity of all proposed diversionary structures. This may include, where applicable: pump curves and total dynamic head calculations, headgate design specifications, and dike or dam height and length.

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34. Describe the size, materials, capacity, and configuration of infrastructure to convey water from all proposed points of diversion to all proposed places of use. This may include but is not limited to, pipelines and ditches. Include a description of any losses related to the proposed conveyance. Ditch conveyance losses may be estimated numerous ways, which include a ditch loss rate or Department standard methods.

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**See Attached.**

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35. Describe how the proposed diversion and conveyance infrastructure can provide the required flow and volume, for the purposes plus any conveyance losses and storage, throughout the proposed period of diversion.

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36. Provide a plan of operations, which includes specific information about how water is delivered within the place of use. This may include, where applicable, the range of flow rates needed for a pivot.

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37.  Y  N Does the proposed conveyance require easements?

37.a. If yes, explain.

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38.  Y  N Do you own the land where all proposed points of diversion are located?

38.a.  S If no, submit documentation to show you have the right to use all points of diversion located on each property you do not own. This may include, but is not limited to, a well agreement, an easement, or permission of the party that owns the property where the proposed point(s) of diversion are located.

39.  Y  N Will your system be designed to discharge water from the project?

**IF YES,**

39.a. Explain the wastewater disposal method.

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39.b.  Y  N  NA Have the necessary permits been obtained to comply with §§ 75-5-410 and 85-2-364, MCA?

40.  Y  N Do you have any plans to measure your diversion and use?

40.a. If yes, describe the plan and the type of measurements you will take.

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**POSSESSORY INTEREST**

**45.**  **Y**  **N** Do you meet one of the exceptions to possessory interest requirements, pursuant to ARM 36.12.1802? Exceptions include cases where the application is for sale, rental, distribution, or is a municipal use, or in any other context in which water is being supplied to another and it is clear that the ultimate user will not accept the supply without consenting to the use of water on the user's place of use.

**45.a.** If yes, explain.

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**46.**  **Y**  **N**  **NA** Do you own all proposed places of use? Mark "NA" if you meet one of the exceptions to the possessory interest requirement.

IF NO,

**46.a.**  **S** Explain and submit documentation that shows you either have possessory interest or written permission of the parties with possessory interest of the place of use.

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**46.b.**  **Y**  **N** Would you like the water right to be appurtenant to the land? Please note that if your water right is not appurtenant to land it will not transfer by default with the conveyance of the property, pursuant to § 85-2-403, MCA.

**46.b.i.** If no, explain.

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**PROPOSED COMPLETION PERIOD**

**47.** How much time will be needed to complete this project and to submit to the DNRC a Project Completion Notice (Form 617)? \_\_\_\_\_

**48.** Please describe why this amount of time is needed to complete this project.

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**AFFIDAVIT & CERTIFICATION**

Read carefully before you sign and review with legal counsel if you have any questions. All owners (or trustees) must sign the form. *\*\*If the owner is a business or trust, include the title of the representative(s) signing the form (i.e., president, trustee, managing partner, etc.) and provide documentation that establishes the authority of the representative to sign the application.*

I affirm the information provided for this application is to the best of my knowledge true and correct. If a preapplication meeting form was submitted, I am aware that my application for this project will not qualify for a discounted filing fee and expedited timelines if upon submittal of the application to the Department, I changed any element of the proposed application from the preapplication meeting form and follow-up materials (ARM 36.12.1302(6)(a)).

I affirm I have possessory interest, or the written consent of the person with the possessory interest, in the property where the water is to be put to beneficial use, unless this application meets an exception to the possessory interest requirements in ARM 36.12.1802(1)(b).

I understand that making a false statement under oath or affirmation in this application and official proceedings throughout the examination of my application may subject me to prosecution under § 45-7-202, MCA, a misdemeanor punishable by a jail term not to exceed 6 months or a fine not to exceed \$500, or both. I have read this Affidavit and understand the terms and conditions.

I declare under penalty of perjury and under the laws of the state of Montana that the foregoing is true and correct.

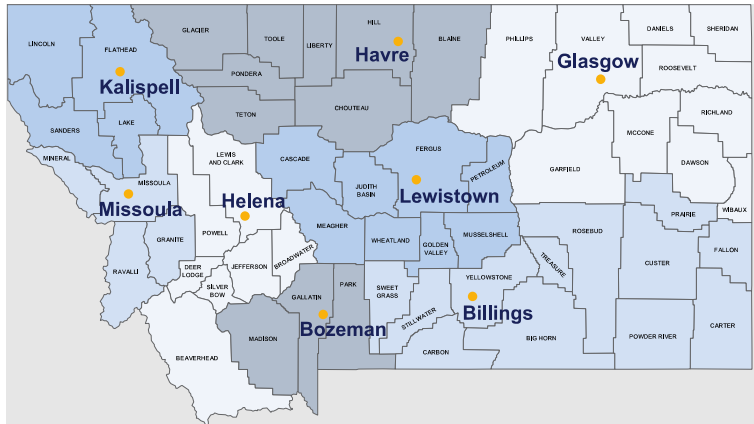
Printed Name Loreen M. Felstet, Mayor  
Applicant Signature Loreen M. Felstet Date: 1-6-2026

Printed Name Timothy K. Fox, Councilor  
Applicant Signature Tim Fox Date: 1-6-2026

Printed Name Marvin J. Garding  
Applicant Signature Marvin J. Garding Date: 1/6/26



## WATER RESOURCES REGIONAL OFFICES



### **BILLINGS**

Airport Industrial Park, 1371 Rimtop Dr  
Billings, MT 59105-9702

PHONE 406-247-4415 FAX 406-247-4416

EMAIL [DNRCBillingsWater@mt.gov](mailto:DNRCBillingsWater@mt.gov)

*Big Horn, Carbon, Carter, Custer, Fallon, Powder River, Prairie, Rosebud, Stillwater, Sweet Grass, Treasure, and Yellowstone Counties*



### **BOZEMAN**

2273 Boot Hill Court, Suite 110  
Bozeman, MT 59715-7249

PHONE 406-586-3136 FAX 406-587-9726

EMAIL [DNRCBozemanWater@mt.gov](mailto:DNRCBozemanWater@mt.gov)

*Gallatin, Madison, and Park Counties*



### **GLASGOW**

222 6th Street South, PO Box 1269  
Glasgow, MT 59230-1269

PHONE 406-228-2561

EMAIL [DNRCGlasgowWater@mt.gov](mailto:DNRCGlasgowWater@mt.gov)

*Daniels, Dawson, Garfield, McCone, Phillips, Richland, Roosevelt, Sheridan, Valley, and Wibaux Counties*



### **HAVRE**

210 6th Ave., PO Box 1828  
Havre, MT 59501-1828

PHONE 406-265-5516

EMAIL [DNRCHavreWater@mt.gov](mailto:DNRCHavreWater@mt.gov)

*Blaine, Chouteau, Glacier, Hill, Liberty, Pondera, Teton, and Toole Counties*



### **HELENA**

1424 9th Ave., PO Box 201601,  
Helena, MT 59620-1601

PHONE 406-444-6999 FAX 406-444-9317

EMAIL [DNRCHelenaWater@mt.gov](mailto:DNRCHelenaWater@mt.gov)

*Beaverhead, Broadwater, Deer Lodge, Jefferson, Lewis and Clark, Powell, and Silver Bow Counties*



### **KALISPELL**

655 Timberwolf Parkway, Suite 4  
Kalispell, MT 59901-1215

PHONE 406-752-2288

EMAIL [DNRCKalispellWater@mt.gov](mailto:DNRCKalispellWater@mt.gov)

*Flathead, Lake, Lincoln, and Sanders Counties*



### **LEWISTOWN**

613 Northeast Main St., Suite E  
Lewistown, MT 59457-2020

PHONE 406-538-7459

EMAIL [DNRCLewistownWater@mt.gov](mailto:DNRCLewistownWater@mt.gov)

*Cascade, Fergus, Golden Valley, Judith Basin, Meagher, Musselshell, Petroleum, and Wheatland Counties*



### **MISSOULA**

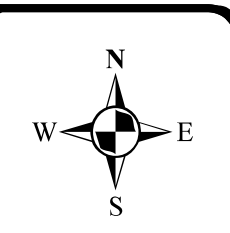
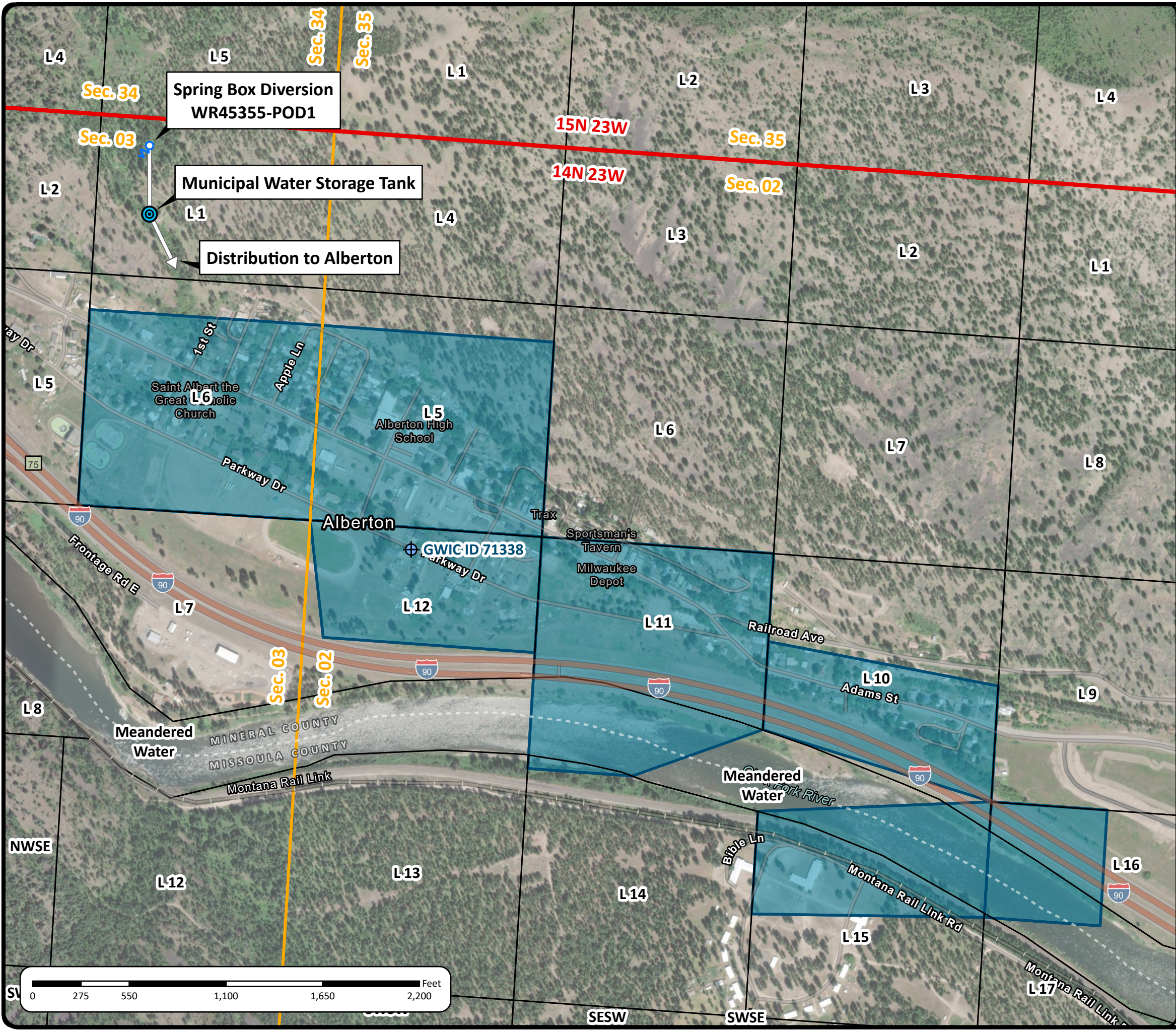
2705 Spurgin Rd. Bldg. C, PO Box 5004  
Missoula, MT 59806-5004

PHONE 406-721-4284 FAX 406-542-5899

EMAIL [DNRCMissoulaWater@mt.gov](mailto:DNRCMissoulaWater@mt.gov)

*Granite, Mineral, Missoula, and Ravalli Counties*

# Question 17



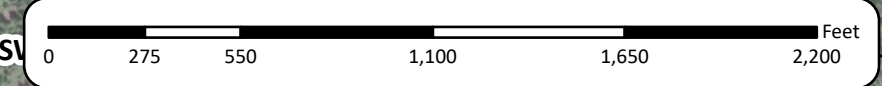
NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/25	LG	CE
2	ADD TANK AND WATER LINE	5/28/25	LG	CE
3	ADD WATER RIGHTS	6/2/25	EL	CE
4				
5				

NOTES

SPRING LOCATION  
 ALBERTON, MINERAL COUNTY, MT  
 JOB#: AMCEM01  
 DATE: 12/22/2025  
 Path: M:\AMCEM01\GIS\WaterRight\WaterRight.aprx, Author: jgeorge

**FIGURE 1**

- Spring
- Water Storage Tank
- GWIC Well
- Water Line (Approximate Location)
- 76M 45355 00 and 76M 13904 00 Places of Use
- PLSS Township & Range
- PLSS First Division
- PLSS Second Division



# Question 22

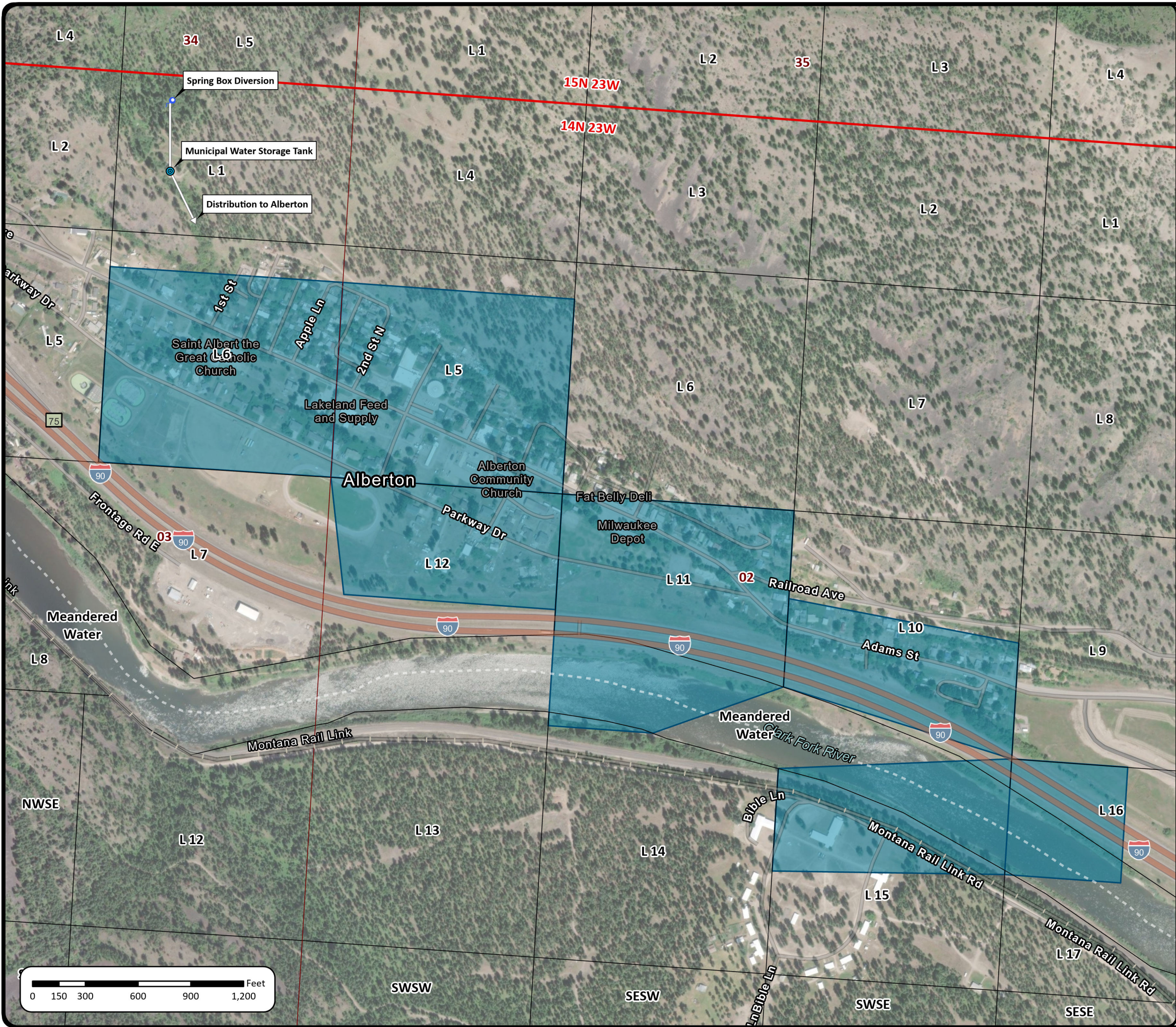
**PLACE OF USE**

22.

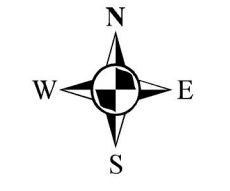
**Place of Use:**

<u>ID</u>	<u>Acres</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1			S2NENE	3	14N	23W	MINERAL
2			S2NWNW	2	14N	23W	MINERAL
3			N2SWNW	2	14N	23W	MINERAL
4			SEnw	2	14N	23W	MINERAL
5			S2SWNE	2	14N	23W	MINERAL
6			N2NWSE	2	14N	23W	MINERAL
7			NWNESE	2	14N	23W	MINERAL

# Question 32



- Spring
- Water Storage Tank
- Water Line (Approximate Location)
- PLSS Township & Range
- PLSS First Division
- PLSS Second Division
- 76M 45355 00 and 76M 13904 00 Place of Use



NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/25	LG	CE
2	ADD TANK AND WATER LINE	5/28/25	LG	CE
3	ADD WATER RIGHTS	6/2/25	EL	CE
4				
5				

NOTES

SPRING LOCATION  
 ALBERTON, MINERAL COUNTY, MT  
 JOB#: AMCEM01  
 DATE: 6/2/2025  
**FIGURE 1**  
 Path: M:\AMCEM01\GIS\WaterRight\WaterRight.aprx, Author: ealhey



# Question 33

# MJD Contracting, LLC.

12 Ponderosa Rd Clancy, MT 59634

## Letter of Transmittal

**To:**

Anderson-Montgomery Consulting En  
 Attn: Paul Montgomery  
 1064 N. Warren St.  
 Helena, MT 59601

REVIEWED <span style="float: right;"><input checked="" type="checkbox"/></span>
REVIEWED & NOTED <span style="float: right;"><input type="checkbox"/></span>
If checked below, fabrication MAY NOT BE UNDERTAKEN
REVISED & RESUBMIT <span style="float: right;"><input type="checkbox"/></span>
Checking is only for conformance with the design concept and compliance with the information given in the Contract Documents. Contractor is responsible for dimensions and quantities, for information that pertains solely to the fabrication and /or construction process, and for coordination of the work of all trades.
ANDERSON - MONTGOMERY CONSULTING ENGINEERS
BY  DATE <b>7-3-20</b>

**Date:**  
July 2, 2020

**Project #**  
 \_\_\_\_\_

**Job Name:**  
Alberton Water System Improvements

**Address:**  
 \_\_\_\_\_

**City/State/Zip:**  
Alberton, MT

**We are sending you:**

- Attached     
  Under Separate Cover     
 Via: E-mail

**The following items:**

- Shop Drawings   
  Plans   
  Samples   
  Specifications   
  Product/Technical Data

Copies	Item Dated	Item No.	Spec Section	Description
1		6	40 71 13	Mag Flowmeter
1		7	40 71 13	Insertion Flowmeter

**The above items are transmitted to you:**

- For approval     
  Approved as submitted     
  Resubmitted for approval     
  For your use

**Remarks:**


Copy To: \_\_\_\_\_

Signed:

By signing, I certify that I have reviewed and check submittals for general conformance to the project specifications and methods to be performed.

### Ultra Mag® Sensor



### ProComm Converter



Ultra Mag models UM06 and UM08 flanged tube flow meters are manufactured to the highest standard available for mag meters.

The flanged end tube design permits use in a wide range of applications with up to 300 PSI working pressure.

The fabricated tube is stainless steel with steel or stainless steel flanges and is lined with UltraLiner™, an NSF approved, fusion bonded epoxy material.

### INSTALLATION

Ultra Mag flow meter installation is similar to placing a short length of flanged end pipe in the line. The meter can be installed vertically, horizontally, or inclined on suction or discharge lines. The meter must have a full pipe of liquid for proper operation. Fluid must be grounded to the downstream flange of the sensor either via internal grounding electrodes (4 - 12") or using McCrometer 316 SS grounding rings.

For best performance, grounding rings are recommended for all sizes. Any 90 or 45 degree elbows, valves, partially opened valves, etc. should not be placed closer than one pipe diameters upstream and zero pipe diameters downstream.

All blending and chemical injection should be done early enough so the flow media is thoroughly mixed prior to entering the measurement area.

### PROCOMM CONVERTER

The signal converter is the reporting, input and output control device for the sensor. The converter allows the measurements, functional programming, control of the sensor and data recording to be communicated through the display and inputs/outputs.

The microprocessor-based signal converter has a curve-fitting algorithm to improve accuracy, dual 4-20mA analog outputs, an optional RS485 communication port, an 8 line graphical backlit LCD display with 6-key touch programming, and a rugged enclosure that meets IP67.

In addition to a menu-driven self-diagnostic test mode, the converter continually monitors the microprocessor's functionality. The converter will output rate of flow and total volume. The converter also comes standard with password protection and many more features.

### AVAILABLE ULTRA MAG FLANGED MODELS

#### UM06

Steel AWWA Class "D" flat face flanges  
(150 PSI)

#### UM08 2", 3", AND ≥14"

Steel AWWA Class "F" raised face flanges  
(300 PSI)

#### UM08 4" TO 12"

Steel ANSI 300 lb. Raised Face Flanges

### PERFORMANCE ADVANTAGES

- Needs only 1 pipe diameter upstream of most flow disturbers
- No obstruction to the flow
- No moving parts to wear or break
- Maintenance free
- Worry-free accurate measurement
- Debris or solids will not clog the meter
- No head loss
- Bi-directional flow
- Empty pipe detection
- Unaffected by changes in density and viscosity
- No risk of liner delamination or separation
- Wide flow range
- Separated power and signal cables

### TYPICAL APPLICATIONS

#### Industrial

Raw Water	Process Control
Chilled Water	Effluent Wastewater
Cooling Water	

#### Clean Water

Well Water	Rate-of-Flow Control
Potable Water	Raw Water Transmission
Pump Stations	

#### Wastewater

Influent	Waste Activated
Effluent	Sludge
Reclaimed	Return Activated
Lift Stations	Sludge

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### Ultra Mag Part Number Matrix

UM		-	-	-	-	-	-	-	-	-	-
SINGLE DIRECTION/DIRECTIONAL											
150 PSI Service Pressure		06									
300 PSI Service Pressure		08									
NOMINAL LINE SIZE											
	2 in	02									
	3 in	03									
	4 in	04									
	6 in	06									
	8 in	08									
	10 in	10									
	12 in	12									
	14 in	14									
	16 in	16									
	18 in	18									
	20 in	20									
	24 in	24									
	30 in	30									
	36 in	36									
	42 in	42									
	48 in	48									
END CONNECTION OPTIONS											
AWWA Flat Face Flanges (Class D or F)		W									
ANSI Raised Face Flanges (150# or 300#)		A									
ELECTRODE MATERIAL OPTIONS											
S316 Stainless Steel (Standard)		S									
Hastelloy		H									
CONVERTER MOUNTING AND CABLE CONNECTOR OPTIONS											
Strain Relief [Remote Mount (Standard)]		R									
Quick Connect [Remote Mount]		Q									
Meter Mount Converter		M									
REMOTE CABLE LENGTH OPTIONS											
25 feet (Standard)		025									
50 feet		050									
75 feet		075									
100 feet		100									
125 feet		125									
150 feet		150									
175 feet		175									
200 feet		200									
500 feet		500									
Custom Length Cable [User Specified]		CST									
Meter Mount Converter [No Remote Cable]		000									
CONVERTER POWER OPTIONS											
AC Power		A									
DC Power		D									
Battery Power [25ft remote cable max]		B									
CONVERTER OUTPUT OPTIONS											
Dual 4-20mA Analog, Dual Digital (Standard)		1									
Modbus + STD (Two 4-20, two Dig)		2									
Hart + STD (Two 4-20, two Dig)		3									
Datalogger/BIV + STD (Two 4-20, two Dig)		4									
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)		5									
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)		6									
AMI Smart Output + STD (Two 4-20, two Dig)		7*									
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)		8*									
AMI Smart Output + Dig Out + Datalogger (Battery power only)		9*									
Digital Out + Datalogger (Standard Battery Power only)		0									
SMART OUTPUT PROTOCOL OPTIONS (*7 OR 8 OUTPUT OPTION REQUIRED)											
No AMI Outputs		-									
Sensus Protocol (6ft cable, Nicor Connector hardwired only)		SEN									
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)		ITR6									
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)		ITR9									
NON STANDARD LENGTH OPTIONS											
McCrometer Length (Standard)		-									
Competitor Meter Replacement Length		\$									
Special Length [Customer Specified]		XL									



# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### ISOLATED POWER AND SIGNAL


The power and signal between the converter and sensor are isolated and placed in separate cables giving superior resistance to electrical signal noise compared to single cable designs. An added benefit from the dual cable design is a maximum cable length of up to 500ft.

### FLOW METER SPECIFICATIONS

<b>Pipe Sizes</b>	
2", 3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"	
<b>Flow Direction Measurement</b>	
Forward and reverse flow indication and forward, reverse, net totalization are standard with all meters	
<b>Accuracy</b>	
Plus or minus 0.5% of actual flow (battery powered is $\pm 1\%$ of flow) <b>IMPORTANT NOTICE ON FLOW METER ACCURACY:</b> The flow meter, the cable and the electronics are factory calibrated for accuracy as a single unit. Changing the cable length with the Splice Kit changes the accuracy of the meter and invalidates the calibration certificate.	
<b>Accuracy Tests</b>	
5-point wet flow calibration of every complete flow tube with its signal converter. If desired, the tests can be witnessed by the customer. The McCrometer test facilities are traceable to the National Institute of Standards & Technology. Uncertainty relative to flow is $\pm 0.15\%$	
<b>Repeatability</b>	
$\pm 0.05\%$ or $\pm 0.0008\text{ft/s}$ ( $\pm 0.25\text{mm/s}$ ), whichever is greater	
<b>Conductivity</b>	
5 $\mu\text{s/cm}$	
<b>Liner</b>	
UltraLiner NSF approved, fusion bonded epoxy	
<b>Electrodes</b>	
Type 316 stainless steel, others optional	
<b>Electrical Connections</b>	
<ul style="list-style-type: none"> <li>• Compression gland seals</li> <li>• Quick-Connect</li> </ul>	
<b>IP Rating</b>	
<b>Standard model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (NEMA 6P/IP68 with remote converter)</li> <li>• Compression gland seals (NEMA 6P/IP68 with remote converter)</li> </ul>
<b>HL model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (IP67)</li> <li>• Compression gland seals (IP67)</li> </ul>
<b>Sensor Submersibility Depth</b>	
<b>With standard strain relief cable</b>	9 m (30 ft.)
<b>With optional quick connect cable</b>	1.8 m (6 ft.)

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

<b>Head Loss</b>	
None. No obstruction in line and no moving parts	
<b>Warranty</b>	
<b>Meter</b>	2 year warranty
<b>Liner</b>	Lifetime guarantee
<b>Pressure Range</b>	
150 PSI maximum working pressure (UM06); 300 PSI maximum working pressure (UM08)	
<b>Velocity Range</b>	
.2 to 32 FPS	
<b>Temperature Range</b>	
Sensor Operating: -10 to 60°C (14 to 140°F) Sensor Storage: -15 to 60°C (5 to 140° F)	
<b>Certifications and Approvals</b>	
<b>Standard Model</b>	<ul style="list-style-type: none"> <li>ISO 9001:2015 certified quality management system</li> <li>Certified by MET to UL 61010-1</li> </ul>
<b>HL Model</b>	<ul style="list-style-type: none"> <li>ISO 9001:2015 certified quality management system</li> <li>Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04                             <ul style="list-style-type: none"> <li>Class I, Division 2, Groups A-D, T5</li> <li>Class I, Zone 2, IIC T5</li> </ul> </li> </ul>
	
<b>System Options</b>	
<ul style="list-style-type: none"> <li>Hastelloy® electrodes</li> <li>Additional sensor cable up to 475'</li> <li>Annual verification / calibration</li> <li>Stainless steel ID tag</li> </ul>	
<b>Meter Options</b>	
<ul style="list-style-type: none"> <li>DC powered converter (10-35 VDC, 21 W)</li> <li>Meter mounted converter</li> <li>Extended warranty</li> <li>Hastelloy® electrodes</li> <li>ANSI or DIN flanges</li> <li>Quick Connect cable fittings</li> <li>Special lay lengths, including ISO standard lay lengths</li> </ul>	<ul style="list-style-type: none"> <li>Converter sun shield</li> <li>HART® Converter</li> <li>Smart Output™ (Sensus or Itron compatible)</li> <li>Battery or battery-solar powered converter (Not MET approved, ±1% accuracy)</li> </ul>

# Specification Sheet

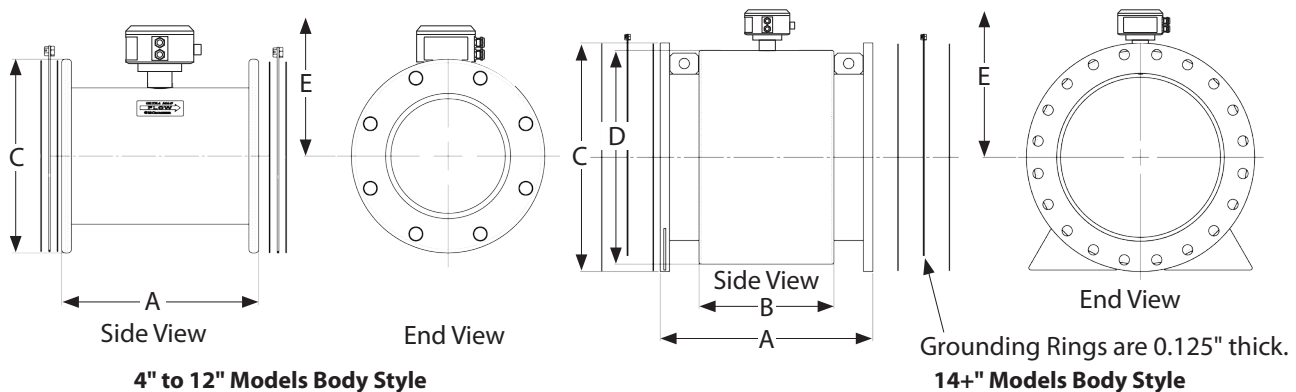
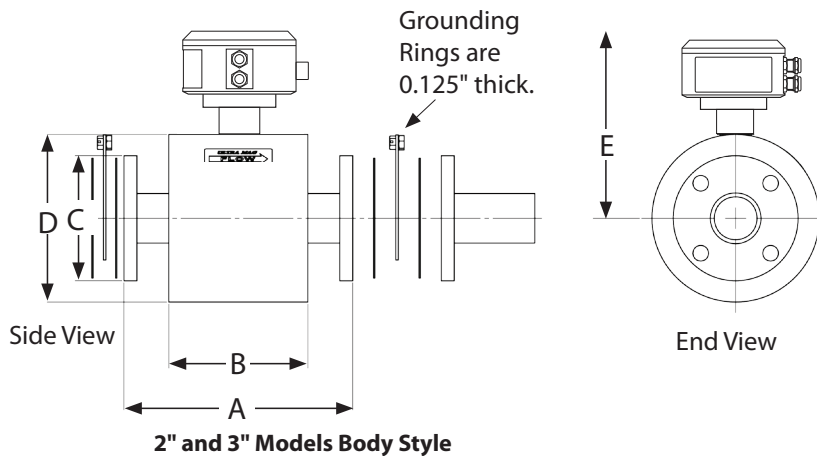
## Ultra Mag Flow Meter with ProComm Converter

### FLOW METER PIPE SIZES AND FLOW RANGES

Pipe Size (Nominal)	Meter Pipe ID	Flow Ranges GPM Standard .2 to 32 FPS Min - Max	DIMENSIONS (Lay Lengths)							Estimated Shipping Weight (lbs.)	
			A*		B	C		D	E	UM06	UM08
			UM06	UM08		UM06	UM08				
2"	2.117	2 - 340	11.00	11.00	6.70	6.00	6.50	7.90	9.26	93	107
3"	3.220	5 - 730	13.40	13.40	6.70	7.50	8.25	9.40	10.01	97	111
4"	3.720	8 - 1,140	13.40	13.40	n/a	9.00	10.00	n/a	8.06	78	108
6"	5.692	19 - 2,660	14.60	14.60	n/a	11.00	12.50	n/a	9.06	82	138
8"	7.692	33 - 4,870	16.10	17.25	n/a	13.50	15.00	n/a	10.06	115	195
10"	9.682	52 - 7,670	18.50	18.50	n/a	16.00	17.50	n/a	10.46	144	247
12"	11.682	74 - 11,180	19.70	19.70	n/a	19.00	20.50	n/a	12.31	193	342
14"	13.440	90 - 16,070	21.70	22.75	12.00	21.00	23.00	20.30	15.46	321	476
16"	15.440	118 - 20,900	23.60	25.25	14.20	23.50	25.50	21.10	16.21	390	645
18"	17.440	150 - 26,480	23.60	25.25	14.20	25.00	28.00	21.10	17.21	446	750
20"	19.440	185 - 32,720	25.60	28.25	16.20	27.50	30.50	24.80	18.26	588	874
24"	23.440	270 - 47,180	30.70	35.75	21.70	32.00	36.00	29.60	20.11	769	1,568
30"	29.190	420 - 73,620	35.80	41.75	26.50	38.75	43.00	35.90	23.26	1,261	2,317
36"	35.190	610 - 105,930	46.10	46.10	28.20	46.00	50.00	42.70	26.66	1,696	2,915
42"	41.190	830 - 144,370	48.05	**	32.10	52.75	**	48.35	29.99	**	**
48"	47.190	1,080 - 188,430	50.00	**	36.00	59.50	**	54.00	33.31	**	**

\* Laying lengths for meters with ANSI Class 150 Flanges are equal to UM08 laying lengths

\*\* Consult factory



# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### PROCOMM CONVERTER PART NUMBER MATRIX

PC -					
<b>CONVERTER MOUNTING OPTIONS</b>					
Remote Mount	R				
Meter Mount	M				
<b>CONVERTER POWER OPTIONS</b>					
AC Power	A				
DC Power	D				
Battery Power [25ft remote cable max]	B				
<b>CONVERTER OUTPUT OPTIONS</b>					
Dual 4-20mA Analog, Dual Digital (Standard)		1			
Modbus + STD (Two 4-20, two Dig)		2			
Hart + STD (Two 4-20, two Dig)		3			
Datalogger/BIV + STD (Two 4-20, two Dig)		4			
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)		5			
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)		6			
AMI Smart Output + STD (Two 4-20, two Dig)		7*			
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)		8*			
AMI Smart Output + Dig Out + Datalogger (Battery power only)		9*			
Digital Out + Datalogger (Standard Battery Power only)		0			
<b>SMART OUTPUT PROTOCOL OPTIONS (*7, 8, OR 9 OUTPUT OPTION REQUIRED)</b>					
No AMI Outputs				-	
Sensus Protocol (6ft cable, Nicor Connector hardwired only)				SEN	
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)				ITR6	
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)				ITR9	

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### PROCOMM CONVERTER SPECIFICATIONS

<b>Power Source</b>		
<b>AC</b>	100-240 VAC / 45-66 Hz (10 W) *	* AC or DC must be specified at time of ordering.
<b>DC</b>	10-35 VDC (10 W) *	
<b>Standard Outputs</b>		
Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability)		
Two separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings.		
<ul style="list-style-type: none"> <li>• Volumetric Pulse</li> <li>• Flow Rate (Frequency)</li> <li>• Hardware Alarm</li> <li>• High/Low Flow Alarms</li> <li>• Empty Pipe</li> <li>• Directional Indication</li> </ul>	<ul style="list-style-type: none"> <li>• Range Indication</li> <li>• Maximum switching voltage: 40 VDC</li> <li>• Maximum switching current: 100mA</li> </ul>	<ul style="list-style-type: none"> <li>• Maximum switching frequency: 1250 Hz</li> <li>• Insulation from other secondary circuits: 500V</li> </ul>
<b>Optional Outputs</b>		
<ul style="list-style-type: none"> <li>• Modbus</li> <li>• HART</li> </ul>	<ul style="list-style-type: none"> <li>• Smart Output™ (Sensus, Itron 6, Itron 9)</li> </ul>	<ul style="list-style-type: none"> <li>• Datalogger</li> <li>• Built-in verification</li> </ul>
<b>Galvanic Isolation</b>		
All inputs / outputs are galvanically isolated from power supply up to 500 V		
<b>Engineering Units</b>		
<ul style="list-style-type: none"> <li>• Cubic Meter</li> <li>• Cubic Centimeter</li> <li>• Milliliter</li> <li>• Liter</li> <li>• Cubic Decimeter</li> <li>• Decaliter</li> <li>• Hectoliter</li> <li>• Cubic Inches</li> </ul>	<ul style="list-style-type: none"> <li>• US Gallons</li> <li>• Imperial Gallons</li> <li>• Cubic Feet</li> <li>• Kilo Cubic Feet</li> <li>• Standard Barrel</li> <li>• Oil Barrel</li> <li>• US Kilogallon</li> <li>• Ten Thousands of Gallons</li> </ul>	<ul style="list-style-type: none"> <li>• Imperial Kilogallon</li> <li>• Acre Feet</li> <li>• Megagallon</li> <li>• Imperial Megagallon</li> <li>• Hundred Cubic Feet</li> <li>• Megaliters</li> </ul>
<b>Conductivity</b>		
Minimum conductivity of 5µS/cm		
<b>Electrical Connections</b>		
<b>Connection options</b>	<ul style="list-style-type: none"> <li>• Compression gland seals for 0.24" to 0.47" diameter round cable</li> <li>• Conduit option: 1/2" NPT threaded connections</li> </ul>	
<b>Sensor Cable Lengths</b>		
<b>Standard</b>	25' McCrometer supplied submersible cable with each remote mount unit.	
<b>Optional</b>	Up to 500 feet, or 25 feet max for battery powered.	
<b>Quick Connect</b>	Available in standard cable lengths: 25', 50', 75', 100', 125', 150', 175', 200', and 500'. Custom cable lengths at additional cost.	
<b>IP Rating</b>		
IP67 Die cast aluminum converter (only when connected using compression gland seals)		

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### Certifications and Approvals

<b>Standard Model</b>	<ul style="list-style-type: none"> <li>• ISO 9001:2015 certified quality management system</li> <li>• CE</li> <li>• Certified by MET to UL 61010-1</li> </ul>
<b>HL Model</b>	<ul style="list-style-type: none"> <li>• ISO 9001:2015 certified quality management system</li> <li>• CE</li> <li>• Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04               <ul style="list-style-type: none"> <li>• Class I, Division 2, Groups A-D, T5</li> <li>• Class I, Zone 2 IIC T5</li> </ul> </li> </ul>



### System Options

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Hastelloy® electrodes</li> <li>• DC power</li> <li>• Additional sensor cable up to 475' (500' max for model 395 and 200' max for model 394)</li> </ul> | <ul style="list-style-type: none"> <li>• Extension to hardware clearance</li> <li>• Annual verification / calibration</li> <li>• Sensor insertion tool</li> <li>• Stainless steel ID tag</li> </ul> |
|---|---|

### Temperature Range

**Operating and storage**     -20° to 60° C (-4° to 140° F)

### Converter Dimensions

- |                     |   |
|---------------------|---|
| <b>Remote mount</b> | <ul style="list-style-type: none"> <li>• Height: 7.3" (18.5 cm)</li> <li>• Width: 8.5" (21.6 cm)</li> <li>• Depth: 4.3" (10.9 cm)</li> </ul>  |
| <b>Meter mount</b>  | <ul style="list-style-type: none"> <li>• Height: 6.9" (17.5 cm)</li> <li>• Width: 7.2" (18.25 cm)</li> <li>• Depth: 6.2" (15.7 cm)</li> </ul> |

### Keypad and Display

Can be used to access and change set-up parameters using six membrane keys and an LCD display

**Note regarding cable length:** McCrometer recommends minimizing cable length. Electromagnetic flow meters may have unfavorable signal strength to noise ratio in electrically noisy environments. Longer lengths of cable increase the likelihood of interference. In those cases where the meter's signal must be transmitted a long distance, or where the environment may be particularly noisy, we suggest using the converter's analog output(s). That allows locating the converter as close as possible to the metering location.

# Specification Sheet

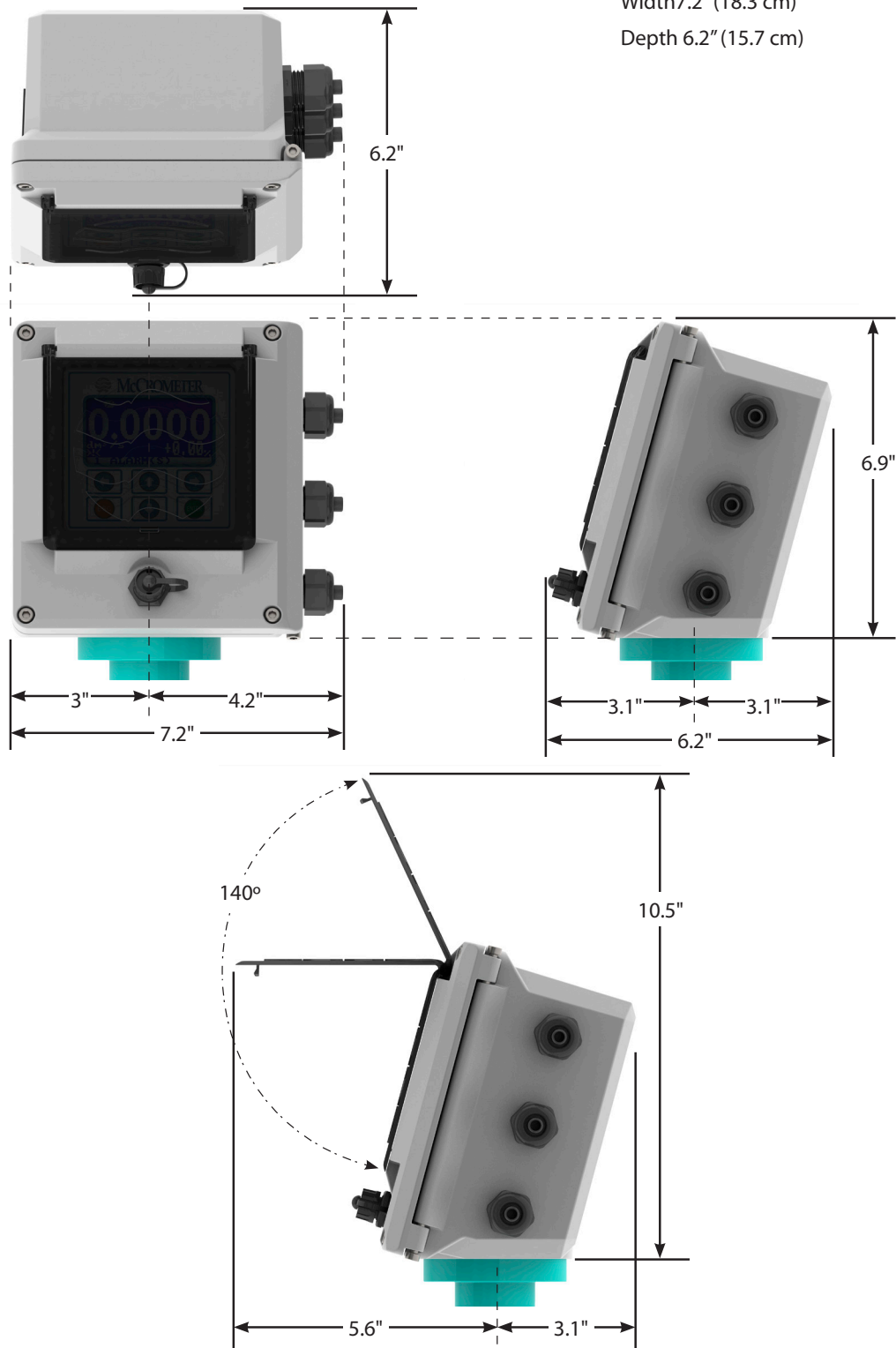
## Ultra Mag Flow Meter with ProComm Converter

### METER MOUNT CONVERTER DIMENSIONS

Height 6.9" (20.1 cm)

Width 7.2" (18.3 cm)

Depth 6.2" (15.7 cm)



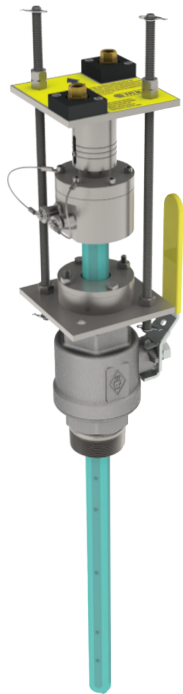
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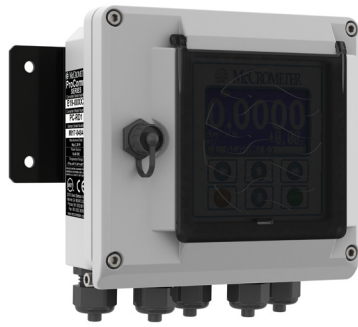




## FPI Mag® Sensor



## ProComm® Converter



The FPI Mag® (Full Profile Insertion) electromagnetic flow meter is the only hot tap full profile insertion flow meter available on the market. The FPI Mag installs without service interruption making it ideal for retrofits, upgrades and maintenance projects and sites never metered before. The hot tap installation significantly reduces installation time eliminating the need to de-water lines or cut pipe.

The multi-electrode sensor delivers an accurate measurement of the full pipe profile rivaling the performance of a full-bore mag meter. The repeatable, stable measurement across the entire flow profile compensates for variable flow profiles, including swirl and turbulent conditions.

The FPI Mag is the industry's most economical flow metering solution offering unbeatable value in the cost of installation and ownership reducing installed costs by more than 45 percent in medium and large line sizes. The compact insertion design fits in confined spaces and offers complete accessibility. The flow meter can be removed in pipes under pressure for easy inspection, cleaning, calibrating, or verification. Installation costs are reduced by eliminating the need for heavy equipment and extensive manpower.

The innovative flow meter comes pre-calibrated from McCrometer's NIST traceable calibration labs and requires no recalibration in the field. With no moving parts and a single-piece design, the FPI Mag's sensor contains nothing to wear or break and is generally immune to clogging by sand, grit, or other debris. The electrodes are encased in a heavy-duty 316 stainless steel sensor body for maximum structural integrity and coated with a NSF certified 3M™ fusion-bonded epoxy coating for operational longevity.

## MUNICIPAL WATER AND WASTEWATER

The FPI Mag Full Profile Insertion mag meter supports the following water and wastewater treatment applications:

**Water**

- Distribution
- Effluent
- Filter balancing and backwash
- Pumping stations
- UV dosing
- Wells and booster stations

**Wastewater**

- Effluent
- Recycle / reclaim

The FPI Mag is ideal for chilled water in campus style facilities, hospitals, airports, hotels, casinos, etc.

## INDUSTRIAL FACILITIES

The FPI Mag is also suitable for a variety of industrial facilities: power plants (including cogeneration), paper mills, chemical & petrochemical plants, metals & mining, and food & beverage.

**Applications Include**

- Cooling water
- Fire water
- Feed water
- Raw water
- Inlet to surge basin
- Effluent wastewater

**Benefits:**

- **Hot Tap Installation** - No service interruption
- **Accurate** – Measures the full flow profile
- **Lower Cost** – Installed savings more than 45%
- **Robust** – No moving parts to wear or break
- **Versatile** – Great for plant maintenance, upgrades and retrofits
- **Accessible** – Insertion design provides easy access
- **Virtually No Maintenance** – No field calibration required



FPI Mag Flow Meter with ProComm Converter

FPI MAG PART NUMBER MATRIX

39		-	-	-	-	-	-	-	-	-
SINGLE DIRECTION / BIDIRECTIONAL		-	-	-	-	-	-	-	-	-
→ 394 - Bidirectional		4	-	-	-	-	-	-	-	-
→ 395 - Single Direction		5	-	-	-	-	-	-	-	-
STOCK BODY OR CUSTOM LENGTH		-	-	-	-	-	-	-	-	-
→ Stock Body Length (4-24")		S	-	-	-	-	-	-	-	-
Custom Body Length		C	-	-	-	-	-	-	-	-
NOMINAL LINE SIZE		-	-	-	-	-	-	-	-	-
4 in		004	-	-	-	-	-	-	-	-
6 in		006	-	-	-	-	-	-	-	-
→ 8 in		008	-	-	-	-	-	-	-	-
10 in		010	-	-	-	-	-	-	-	-
12 in		012	-	-	-	-	-	-	-	-
14 in		014	-	-	-	-	-	-	-	-
16 in		016	-	-	-	-	-	-	-	-
18 in		018	-	-	-	-	-	-	-	-
20 in		020	-	-	-	-	-	-	-	-
22 in		022	-	-	-	-	-	-	-	-
24 in		024	-	-	-	-	-	-	-	-
30 in		030	-	-	-	-	-	-	-	-
36 in		036	-	-	-	-	-	-	-	-
42 in		042	-	-	-	-	-	-	-	-
48 in		048	-	-	-	-	-	-	-	-
54 in		054	-	-	-	-	-	-	-	-
60 in		060	-	-	-	-	-	-	-	-
66 in		066	-	-	-	-	-	-	-	-
72 in		072	-	-	-	-	-	-	-	-
Contact Factory for Larger Line Sized		Larger	-	-	-	-	-	-	-	-
ELECTRODE MATERIAL OPTIONS		-	-	-	-	-	-	-	-	-
→ S316 Stainless Steel (Standard)		S	-	-	-	-	-	-	-	-
Hastelloy		H	-	-	-	-	-	-	-	-
CABLE CONNECTOR OPTIONS		-	-	-	-	-	-	-	-	-
→ Quick Connect (Standard)		Q	-	-	-	-	-	-	-	-
Strain Relief		R	-	-	-	-	-	-	-	-
REMOTE CABLE LENGTH OPTIONS		-	-	-	-	-	-	-	-	-
→ 25 feet (Standard) *		025	-	-	-	-	-	-	-	-
50 feet		050	-	-	-	-	-	-	-	-
75 feet		075	-	-	-	-	-	-	-	-
100 feet		100	-	-	-	-	-	-	-	-
125 feet		125	-	-	-	-	-	-	-	-
150 feet		150	-	-	-	-	-	-	-	-
175 feet		175	-	-	-	-	-	-	-	-
200 feet *		200	-	-	-	-	-	-	-	-
500 feet *		500	-	-	-	-	-	-	-	-
Custom Length Cable [User Specified]		CST	-	-	-	-	-	-	-	-

\* Maximum cable lengths:  
 Battery powered converter cable: 25 feet  
 Model 394: 200 feet  
 Model 395: 500 feet

continued next page





FPI Mag Flow Meter with ProComm Converter

CONVERTER POWER OPTIONS	
AC Power	A
DC Power	D
Battery Power [25ft remote cable max]	B
Solar Power, Battery Backup [25ft remote cable max]	S
CONVERTER OUTPUT OPTIONS	
Dual 4-20mA Analog, Dual Digital (Standard)	1
Modbus + STD (Two 4-20, two Dig)	2
Hart + STD (Two 4-20, two Dig)	3
Datalogger/BIV + STD (Two 4-20, two Dig)	4
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)	5
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)	6
AMI Smart Output + STD (Two 4-20, two Dig)	7
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)	8
AMI Smart Output + Dig Out + Datalogger (Battery power only)	9
Digital Out + Datalogger (Standard Battery Power only)	0
BALL VALVE OPTIONS	
2" NPT SS Ball Valve	N
2" BSP Brass Ball Valve	B
No Valve, NPT Hardware	X
No Valve, BSP Hardware	Y
SMART OUTPUT PROTOCOL OPTIONS*	
No AMI Outputs	-
Sensus Protocol (6ft cable, Nicor Connector hardwired only)	SEN
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR6
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR9
HAZARDOUS LOCATION	
Class I, Division 2, Groups A-D, T5	HL

\* Smart Output protocol options require selection of converter output option 7, 8, or 9.



## FPI Mag Flow Meter with ProComm Converter

## FLOW METER SPECIFICATIONS

The full pipe averaging flow meter comes complete with Mounting Hardware, AC Converter with Dual 4-20mA output, 25 Feet of Dual Submersible Cables with quick connects at sensor, Stainless Steel Body, 316 Stainless Steel Electrodes, NSF Approved Fusion Bonded Epoxy Coating, 2" Stainless Steel Ball Valve (minimum of 1-7/8" port I.D.), 2" x Close Stainless Steel Nipple, 2-Year Warranty.

Measurement	
	Volumetric flow in filled flow conduits 4" (100 mm) to 138" (3,500 mm) utilizing insertable electromagnetic averaging sensor. Flow indication in English Standard or Metric units.
Flow Measurement	
Method	Electromagnetic
Calibrated accuracy for forward and bidirectional sensors	<ul style="list-style-type: none"> <li>±0.5% from 1 f/s to max velocity (on next page), up to ±1% for 0.3 to 1 f/s</li> <li>±1% for reverse flow</li> </ul>
Linearity	0.3% of Range
Repeatability	0.2% of Reading
Direction measurement	<ul style="list-style-type: none"> <li>395 sensor - Forward flow measurement and reverse flow indication</li> <li>394 sensor - bidirectional flow measurement</li> </ul>
Materials	
Coating	Fusion bonded epoxy (NSF 61 approved) coated 316 stainless steel
Insertion hardware	316 Stainless Steel
Compression seal	Silicone Rubber
Sensor electrodes	316 Stainless Steel
Temperature Range	
Operation	-10 to 60°C (14 to 140°F) up to 250 PSI
Storage	-15 to 60°C (5 to 140° F)
	Note regarding storage: During freezing conditions and when meter is not in use, sensor must be removed from pipe and stored in dry conditions.
	<b>NOTE: Damage to the sensor caused by allowing the sensor freeze in the pipe is not covered by the warranty.</b>
Electrical Connections	
	<ul style="list-style-type: none"> <li>Quick Connect</li> <li>Compression gland seals</li> </ul>
IP Rating	
Standard model	<ul style="list-style-type: none"> <li>Quick Connect (IP68)</li> <li>Compression gland seals (IP68)</li> </ul>
HL model	<ul style="list-style-type: none"> <li>Quick Connect (IP67)</li> <li>Compression gland seals (IP67)</li> </ul>
Sensor Submersibility Depth	
With standard quick connect	1.8 m (6 ft.)
With optional strain relief cable	9 m (30 ft.)



**Certifications and Approvals**

**Standard Model**

- ISO 9001:2015 certified quality management system
- NSF/ANSI/CAN 61 & NSF/ANSI 372
- Certified by MET to UL 61010-1

**HL Model**

- ISO 9001:2015 certified quality management system
- NSF/ANSI/CAN 61 & NSF/ANSI 372
- Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04
  - Class I, Division 2, Groups A-D, T5
  - Class I, Zone 2, IIC T5



**System Options**

- Hastelloy® electrodes
- Additional sensor cable up to 475' (500' max for model 395 and 200' max for model 394)
- Extension to hardware clearance
- Annual verification / calibration
- Sensor insertion tool
- Stainless steel ID tag

Preliminary



## FLOW METER PIPE SIZES AND FLOW RANGES

Pipe Size (Nominal)	Pipe ID Range		Flow Ranges (GPM Standard)		Standard Program Defaults <sup>1</sup>	Minimum Clearance Required During Installation <sup>2</sup>	Velocity Range <sup>3</sup> (f/s)	
	Min Pipe ID	Max Pipe ID	Min (GPM) <sup>1</sup>	Max (GPM) <sup>1</sup>	20mA			
<b>S</b> = Standard (Available in 395 models Pipe Sizes 4" - 24" as shown in table below) <b>C</b> = Custom (Available in all 394 and 395L models Pipe Sizes 4" - 138") Standard Length Hardware and Installation Clearance Dimensions are based on a 4" Maximum Height Coupling and Pipe Schedule Standard								
4"	3.63	4.99	12	1280	600 GPM	51"	0.3 - 32	
6"	5.00	6.99	26	2800	1300 GPM	51"	0.3 - 32	
8"	7.00	8.99	47	5000	2350 GPM	55"	0.3 - 32	
10"	9.00	10.99	80	8000	4000 GPM	55"	0.3 - 32	
12"	11.00	12.99	110	11000	5500 GPM	59"	0.3 - 32	
14"	13.00	14.99	150	15000	7500 GPM	59"	0.3 - 32	
16"	15.00	16.75	190	20000	9500 GPM	59"	0.3 - 32	
18"	16.76	18.80	240	26000	12000 GPM	63"	0.3 - 32	
20"	18.81	20.99	300	28000	15000 GPM	63"	0.3 - 28	
22"	21.00	22.49	400	30000	20000 GPM	67"	0.3 - 25	
24"	22.50	25.99	410	33000	20500 GPM	67"	0.3 - 23	
30"	26.00	31.99	600	44000	30000 GPM	71.25"	0.3 - 20	
36"	32.00	37.99	1000	48000	50 KGPM	77.25"	0.3 - 15	
42"	38.00	43.99	1300	56000	65 KGPM	83.25"	0.3 - 13	
48"	44.00	49.99	1700	62000	85 KGPM	89.25"	0.3 - 11	
54"	50.00	55.99	2200	79000	110 KGPM	95.25"	0.3 - 11	
60"	56.00	61.99	2600	97000	130 KGPM	101.25"	0.3 - 11	
66"	62.00	67.99	3200	106000	160 KGPM	107.25"	0.3 - 10	
72"	68.00	73.99	3800	127000	190 KGPM	113.25"	0.3 - 10	
78"-138"	74.00	138.00	Available - Call Factory at 1-800-220-2279					

<sup>1</sup> Default totalizer units measured as KGAL.

<sup>2</sup> Hardware clearance after installation for all sizes is 28".

<sup>3</sup> Flow temperature range -10° to 60° C (14° to 140° F) up to 250 PSI, max pressure is 250 psi.

### ! Required Information

At the time of ordering, please be prepared to provide the following information:

1. Pipe ID and Pipe OD
2. Unit of Measure (US Gallons is Default)
3. Maximum pressure
4. FPI Specification Data Sheet for custom length sensors

Consult factory if any chemicals are in use.



**PROCOMM CONVERTER PART NUMBER MATRIX**

PC		-	-	-	-	-
<b>CONVERTER MOUNTING OPTIONS</b>						
Meter Mount	M					
Remote Mount	R					
<b>CONVERTER POWER OPTIONS</b>						
AC Power	A					
DC Power	D					
Battery Power [25ft remote cable max]	B					
Solar Power, Battery Backup [25ft remote cable max]	S					
<b>CONVERTER OUTPUT OPTIONS</b>						
Dual 4-20mA Analog, Dual Digital (Standard)	1					
Modbus + STD (Two 4-20, two Dig)	2					
Hart + STD (Two 4-20, two Dig)	3					
Datalogger/BIV + STD (Two 4-20, two Dig)	4					
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)	5					
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)	6					
AMI Smart Output + STD (Two 4-20, two Dig)	7					
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)	8					
AMI Smart Output + Dig Out + Datalogger (Battery power only)	9					
Digital Out + Datalogger (Standard Battery Power only)	0					
<b>SMART OUTPUT PROTOCOL OPTIONS *</b>						
No AMI Outputs	-					
Sensus Protocol (6ft cable, Nicor Connector hardwired only)	SEN					
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR6					
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR9					
<b>HAZARDOUS LOCATION</b>						
Class I, Division 2, Groups A-D, T5	HL					

\* Smart Output protocol options require selection of converter output option 7, 8, or 9.



**PROCOMM CONVERTER SPECIFICATIONS**

<b>Power Source</b>		
<b>AC</b>	100-240 VAC / 45-66 Hz (10 W)	Note: AC or DC must be specified at time of ordering.
<b>DC</b>	10-35 VDC (10 W)	
<b>Standard Outputs</b>		
Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability)		
Two separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings.		
<ul style="list-style-type: none"> <li>• Volumetric Pulse</li> <li>• Flow Rate (Frequency)</li> <li>• Hardware Alarm</li> <li>• High/Low Flow Alarms</li> <li>• Empty Pipe</li> <li>• Directional Indication</li> </ul>	<ul style="list-style-type: none"> <li>• Range Indication</li> <li>• Maximum switching voltage: 40 VDC</li> <li>• Maximum switching current: 100mA</li> </ul>	<ul style="list-style-type: none"> <li>• Maximum switching frequency: 1250 Hz</li> <li>• Insulation from other secondary circuits: 500V</li> </ul>
<b>Optional Outputs</b>		
<ul style="list-style-type: none"> <li>• Modbus</li> <li>• HART</li> </ul>	<ul style="list-style-type: none"> <li>• Smart Output™ (Sensus, Itron 6, Itron 9)</li> </ul>	<ul style="list-style-type: none"> <li>• Datalogger</li> <li>• Built-in verification</li> </ul>
<b>Galvanic Isolation</b>		
All inputs / outputs are galvanically isolated from power supply up to 500 V		
<b>Engineering Units</b>		
<ul style="list-style-type: none"> <li>• Cubic Meter</li> <li>• Cubic Centimeter</li> <li>• Milliliter</li> <li>• Liter</li> <li>• Cubic Decimeter</li> <li>• Decaliter</li> <li>• Hectoliter</li> <li>• Cubic Inches</li> </ul>	<ul style="list-style-type: none"> <li>• US Gallons</li> <li>• Imperial Gallons</li> <li>• Cubic Feet</li> <li>• Kilo Cubic Feet</li> <li>• Standard Barrel</li> <li>• Oil Barrel</li> <li>• US Kilogallon</li> <li>• Ten Thousands of Gallons</li> </ul>	<ul style="list-style-type: none"> <li>• Imperial Kilogallon</li> <li>• Acre Feet</li> <li>• Megagallon</li> <li>• Imperial Megagallon</li> <li>• Hundred Cubic Feet</li> <li>• Megaliters</li> </ul>
<b>Conductivity</b>		
Minimum conductivity of 5µS/cm		
<b>Electrical Connections</b>		
<b>Connection options</b>	<ul style="list-style-type: none"> <li>• Compression gland seals for 0.24" to 0.47" diameter round cable</li> <li>• Conduit option: 1/2" NPT threaded connections</li> </ul>	
<b>Sensor Cable Lengths</b>		
<b>Standard</b>	25' McCrometer supplied submersible cable with each remote mount unit.	
<b>Optional</b>	Up to 500 feet, or 25 feet max for battery powered.	
<b>Quick Connect *</b>	Available in standard cable lengths: 25', 50', 75', 100', 125', 150', 175, 200', and 500'. Custom cable lengths at additional cost.	
<b>IP Rating</b>		
IP67 Die cast aluminum converter (only when connected using compression gland seals)		

\* Not available with SPI Mag



### Certifications and Approvals

#### Standard Model

- ISO 9001:2015 certified quality management system
- CE
- Certified by MET to UL 61010-1



#### HL Model

- ISO 9001:2015 certified quality management system
- CE
- Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04
  - Class I, Division 2, Groups A-D, T5
  - Class I, Zone 2 IIC T5



#### IMPORTANT:

Electrical safety certifications above do not apply to model 282L Single Point Insertion (SPI Mag) Electromagnetic Flow Meter.

### System Options

- Hastelloy® electrodes\*
- DC power
- Additional sensor cable up to 475' (500' max for FPI Mag)
- Extension to hardware clearance
- Annual verification / calibration
- Sensor insertion tool\*
- Stainless steel ID tag

### Temperature Range

#### Operating and storage

-20° to 60° C (-4° to 140° F)

### Converter Dimensions

#### Remote mount\*

- Height: 7.3" (18.5 cm)
- Width: 8.5" (21.6 cm)
- Depth: 4.3" (10.9 cm)

#### Meter mount

- Height: 6.9" (17.5 cm)
- Width: 7.2" (18.25 cm)
- Depth: 6.2" (15.7 cm)

### Keypad and Display

Can be used to access and change set-up parameters using six membrane keys and an LCD display

\* Not available with SPI Mag

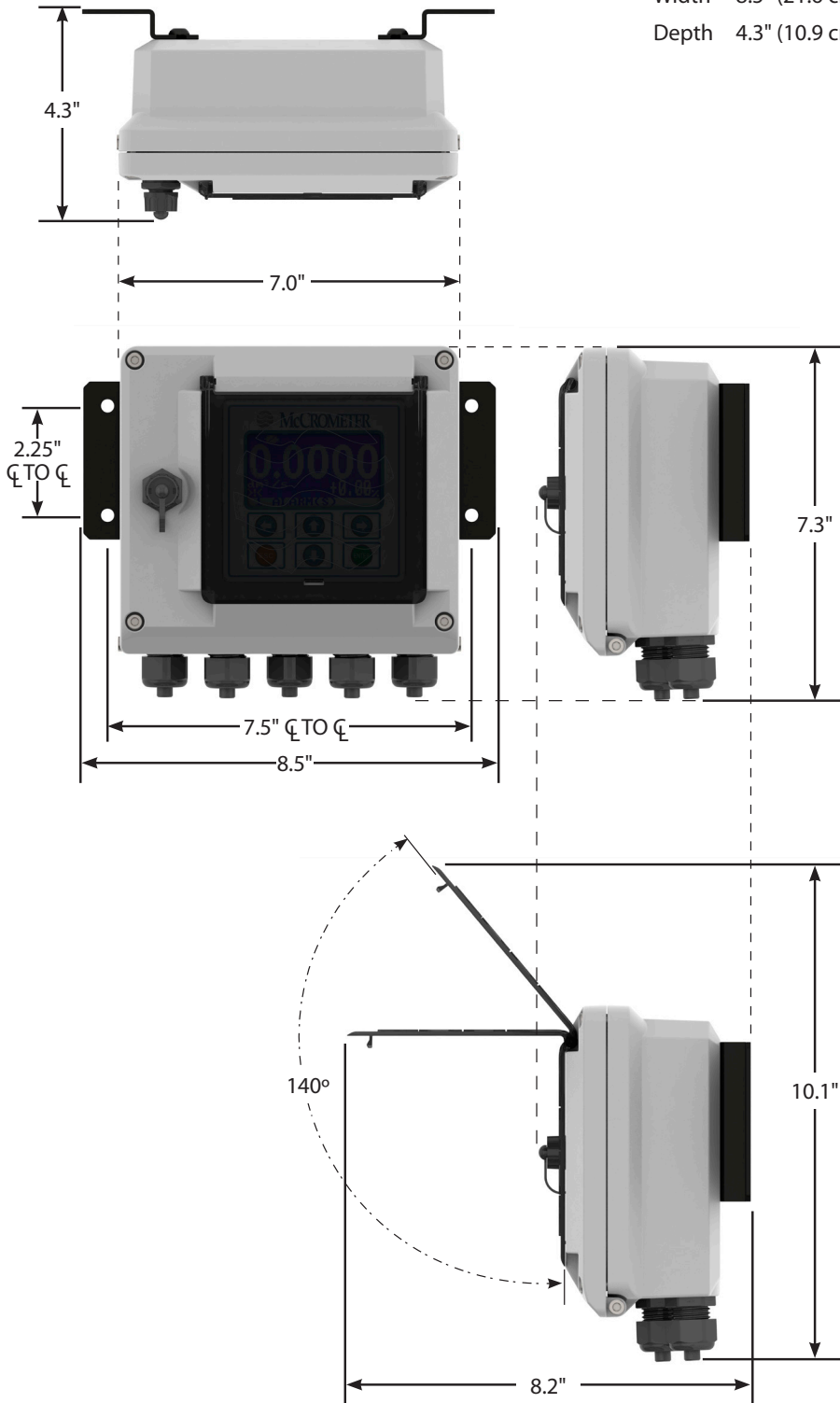
**Note regarding cable length:** McCrometer recommends minimizing cable length. Electromagnetic flow meters may have unfavorable signal strength to noise ratio in electrically noisy environments. Longer lengths of cable increase the likelihood of interference. In those cases where the meter's signal must be transmitted a long distance, or where the environment may be particularly noisy, we suggest using the converter's analog output(s). That allows locating the converter as close as possible to the metering location.

# Specification Sheet

## FPI Mag Flow Meter with ProComm Converter

### CONVERTER DIMENSIONS

Height 7.3" (18.5 cm)  
Width 8.5" (21.6 cm)  
Depth 4.3" (10.9 cm)

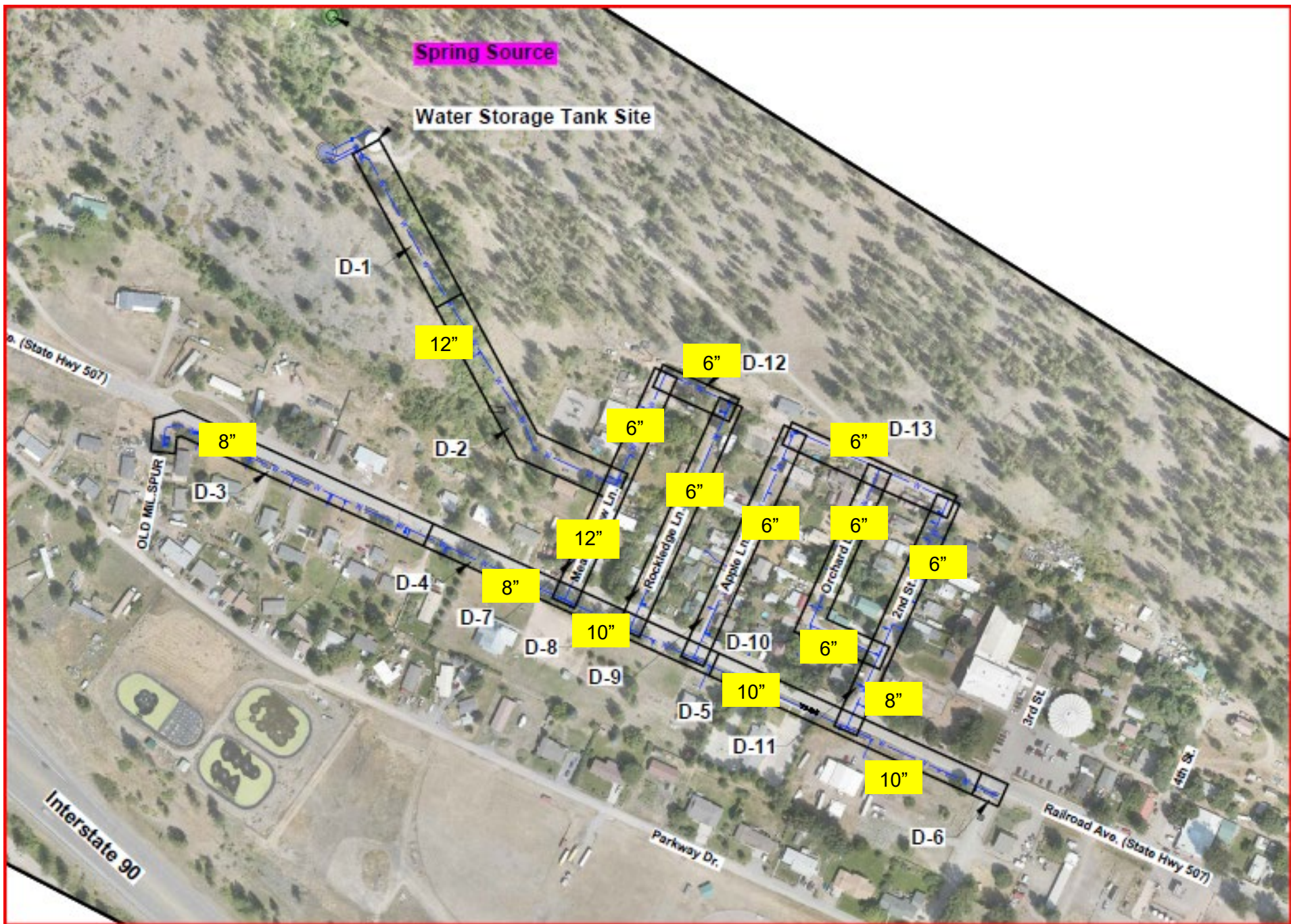


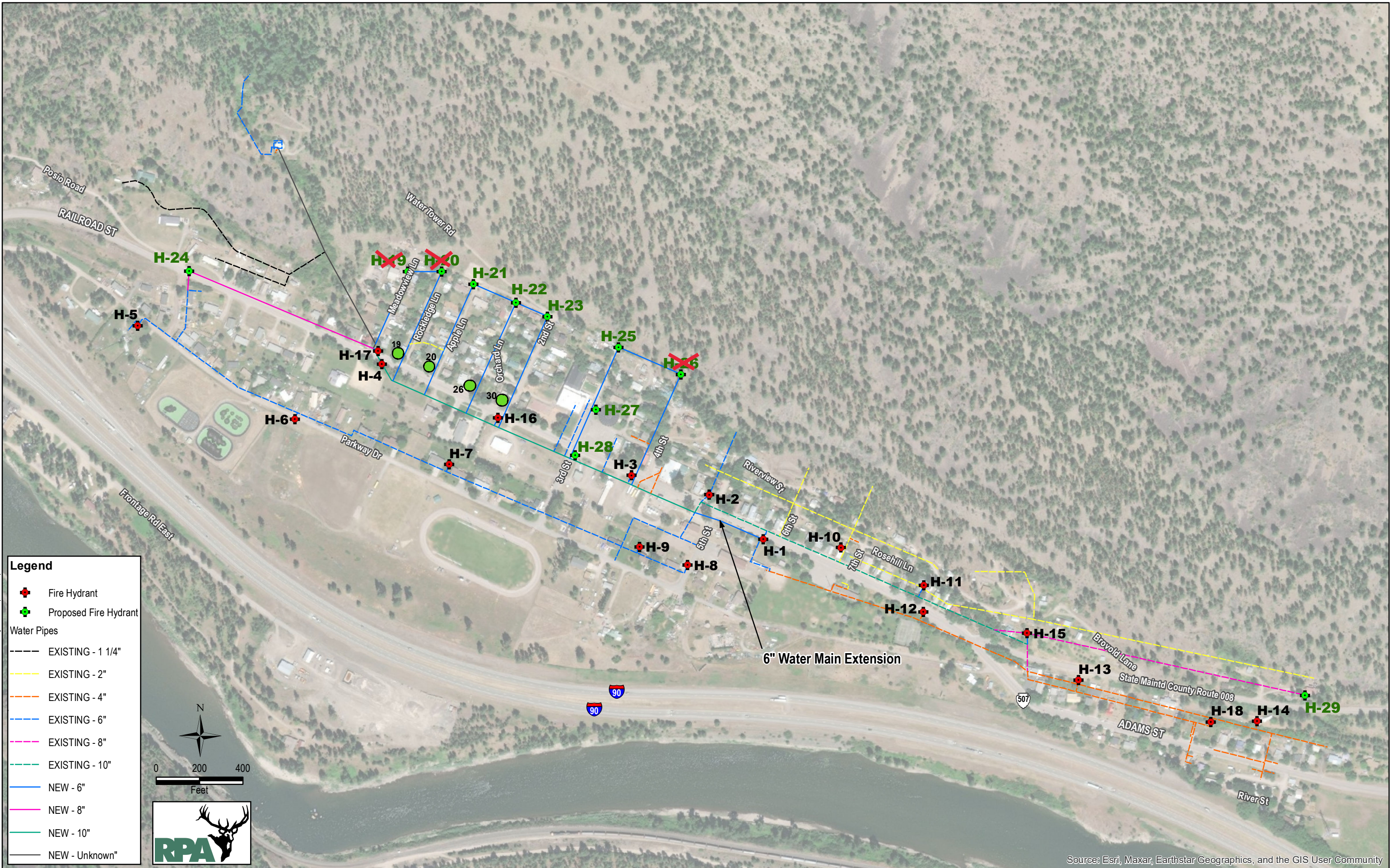
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3255 WEST STETSON AVENUE • HEMET, CALIFORNIA 92545 USA  
TEL: 951-652-6811 • 800-220-2279 • FAX: 951-652-3078  
[www.mccrometer.com](http://www.mccrometer.com)



# Question 34





**From:** [Dalglish, Alex](#)  
**To:** [Christina Eggensperger](#)  
**Cc:** [Pat Thomson](#)  
**Subject:** RE: Alberton  
**Date:** Thursday, January 15, 2026 1:48:00 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)

---

Hey Christina,

No, we have not received the \$700 payment for the Application fee.



**Alex Dalglish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C  
**DESK:** 406-542-5886 **EMAIL:** [alexander.dalglish@mt.gov](mailto:alexander.dalglish@mt.gov)  
[Website](#) | [Facebook](#) | [X \(Twitter\)](#) | [Instagram](#)  
**How did we do? Let us know here:** [Feedback Survey](#)

---

**From:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>  
**Sent:** Thursday, January 15, 2026 8:54 AM  
**To:** Dalglish, Alex <[Alexander.Dalglish@mt.gov](mailto:Alexander.Dalglish@mt.gov)>  
**Cc:** Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>  
**Subject:** [EXTERNAL] RE: Alberton

Hi Alex,

Attached is the Form 600 with the signature page completed by the Town of Alberton. The Town said they would be paying over the phone – have you received payment from them.

Christina Eggensperger, P.E., MS  
[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)  
406-531-9486

Have a great day!

*\*I understand that my working hours/time zone may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule.*

---

**From:** Dalglish, Alex <[Alexander.Dalglish@mt.gov](mailto:Alexander.Dalglish@mt.gov)>

**Sent:** Tuesday, December 23, 2025 8:38 AM  
**To:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>  
**Cc:** Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>  
**Subject:** RE: Alberton

**WARNING** - This email originated from an EXTERNAL SOURCE. Do not reply, click any link or open attachments unless you can confirm the sender. *Please report suspicious emails to itsupport*

Hey Christina,

Thanks for sending the Permit. After a quick look over, the form is not signed. The Department cannot accept an unsigned permit. It can be electronically signed by the Applicant as long as the signature is e-verified. Otherwise, we will need the original inked signature page.

Also, we cannot accept the Permit without the filing fee. Since we had a preapplication meeting and this proposal is outside of a Basin Closure Area, the Applicant qualifies for a discounted filing fee of \$1200. Please let me know if someone paid over the phone with a credit card.

Aside from the signature and filing fee issues, you do not need to submit a physical copy of the permit to our office. An emailed copy is sufficient.

Please reach out with any other questions.

Best,



**Alex Dagleish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C

**DESK:** 406-542-5886 **EMAIL:** [alexander.dagleish@mt.gov](mailto:alexander.dagleish@mt.gov)

[Website](#) | [Facebook \[facebook.com\]](https://www.facebook.com) | [X \(Twitter \[twitter.com\]\)](https://twitter.com) | [Instagram \[instagram.com\]](https://www.instagram.com)

**How did we do? Let us know here:** [Feedback Survey \[forms.office.com\]](https://forms.office.com)

---

**From:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>  
**Sent:** Monday, December 22, 2025 3:47 PM  
**To:** Dagleish, Alex <[Alexander.Dagleish@mt.gov](mailto:Alexander.Dagleish@mt.gov)>

**Cc:** Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>

**Subject:** [EXTERNAL] RE: Alberton

Hi Alex,

Attached, please find the updated form 600. Do we need to submit onto any other platform?

Christina Eggenesperger, P.E., MS

[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)

406-531-9486

Have a great day!

*\*I understand that my working hours/time zone may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule.*

---

**From:** Dalglish, Alex <[Alexander.Dalglish@mt.gov](mailto:Alexander.Dalglish@mt.gov)>

**Sent:** Monday, November 10, 2025 4:32 PM

**To:** Christina Eggenesperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>

**Subject:** RE: Alberton

**WARNING** - This email originated from an EXTERNAL SOURCE. Do not reply, click any link or open attachments unless you can confirm the sender. *Please report suspicious emails to itsupport*

There is an Adequate Means of Diversion and Operation section of the Application Form (questions 32-36). The Department needs to understand how the system is operated, the infrastructure involved, and if it can deliver the requested flow rate. If you don't provide enough detail, we will request additional information through a deficiency letter.



**Alex Dalglish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C

**DESK:** 406-542-5886 **EMAIL:** [alexander.dalglish@mt.gov](mailto:alexander.dalglish@mt.gov)

**Website** | **Facebook** [[facebook.com](https://www.facebook.com)] | **X (Twitter)** [[twitter.com](https://twitter.com)] | **Instagram** [[instagram.com](https://www.instagram.com)]

**How did we do? Let us know here:** [Feedback Survey](https://forms.office.com) [[forms.office.com](https://forms.office.com)]

---

**From:** Christina Eggenesperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>

**Sent:** Monday, November 10, 2025 4:13 PM

**To:** Dalglish, Alex <[Alexander.Dalglish@mt.gov](mailto:Alexander.Dalglish@mt.gov)>

**Subject:** [EXTERNAL] RE: Alberton

Hi Alex,

Thank you. We are also wondering about the depth of detail regarding the distribution system that needs to be included in the application?

Christina Eggensperger, P.E., MS

[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)

406-531-9486

Have a great day!

*\*I understand that my working hours/time zone may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule.*

---

**From:** Dalglish, Alex <[Alexander.Dalglish@mt.gov](mailto:Alexander.Dalglish@mt.gov)>

**Sent:** Monday, November 10, 2025 4:10 PM

**To:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>

**Subject:** RE: Alberton

**WARNING** - This email originated from an EXTERNAL SOURCE. Do not reply, click any link or open attachments unless you can confirm the sender. *Please report suspicious emails to itsupport*

Hey Christina,

The Application submittal deadline is February 25, 2026. To pay the fee, you can call our office with the card information, and we enter it into they payment portal.



**Alex Dalglish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C

**DESK:** 406-542-5886 **EMAIL:** [alexander.dalglish@mt.gov](mailto:alexander.dalglish@mt.gov)

**Website** | [Facebook \[facebook.com\]](https://www.facebook.com) | **X (Twitter [twitter.com])** | [Instagram \[instagram.com\]](https://www.instagram.com)

**How did we do? Let us know here:** [Feedback Survey \[forms.office.com\]](https://forms.office.com)

---

**From:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>

**Sent:** Monday, November 10, 2025 11:37 AM

**To:** Dagleish, Alex <Alexander.Dagleish@mt.gov>

**Subject:** [EXTERNAL] Alberton

Hi Alex,

We are close to the final submittal but wanted to check in about paying the rest of the fee. Is Alberton able to log on to Okta and pay online like they did the last time?

Hope the fall is treating you well!

Christina



**Christina Eggensperger, P.E., MS**

Project Engineer / Grant Administrator

P: (406) 565-4358

C: (406) 531-9486

[waterenvtech.com](http://waterenvtech.com)

*\*I understand that my working hours/time zone may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule.*

[Book time with Christina Eggensperger \[outlook.office.com\]](#)



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## **Technical Analyses Report/ Scientific Credibility Review**

- Departmental Technical Analyses Report/ Scientific Credibility Review
- Any correspondence relating to the Technical Analyses Report

# **Technical Analyses Report / Scientific Credibility Review**



Missoula Water Resources Regional Office  
PO Box 5004  
2705 Spurgin Road, Bldg. C  
Missoula, MT 59806-5004  
(406) 721-4284

August 29, 2025

Town of Alberton  
PO Box 115  
Alberton, MT 59820-0115

Subject: Completed Technical Analyses Report for Beneficial Water Use Permit/ Preapplication  
No. 76M 30165209

Dear Applicant,

As designated on the submitted Preapplication Meeting Form per §85-2-302(3)(b), MCA, the Department of Natural Resources and Conservation (DNRC or Department) has completed the technical analyses for Beneficial Water Use Permit Preapplication No. 76M 30165209 based on the information provided in your Preapplication Meeting Form accepted by the Department on 7/17/2025. The technical analyses can be found in the attached report.

This Technical Analyses Report **IS**: A collection of facts that the DNRC has gathered, including content provided in the Preapplication Meeting Form materials. The Department will use these data to analyze the criteria in §85-2-311, MCA if you submit an application for the project described in the completed Preapplication Meeting Form.

This Technical Analyses Report **IS NOT**: An analysis or discussion of whether the Preapplication Meeting Form as filed meets the criteria (§85-2-311, MCA).



**You have 180 days to submit the Beneficial Water Use Permit Application Form 600 considering the information provided in the technical analyses and Preapplication Meeting Form.** If the Application Form is not submitted to the Missoula Regional Office by February 25, 2026, a new preapplication meeting will be required to process the Application with expedited timelines (ARM 36.12.1302(6)(b)). If any details described in the submitted Application are changed from that of the submitted Preapplication Meeting Form, the discounted filing fee and expedited timelines will not apply (ARM 36.12.1302(6)(a)). Please note that the technical analyses will expire one year from the date of this letter (ARM 36.12.1302(8)).

Please let me know if you have any questions.

Sincerely,



Alex Dagleish  
Water Resource Specialist  
Missoula Regional Office  
(406)-542-5886  
[Alexander.dagleish@mt.gov](mailto:Alexander.dagleish@mt.gov)

CC:

Water & Environmental Technologies  
c/o Christina Eggensperger  
480 E Park St  
Butte, MT 59701-1923





# Groundwater Permit Technical Analyses Report- Developed Spring

Department of Natural Resources and Conservation (DNRC or Department)  
 Water Resources Division

Alex Dagleish, Water Conservation Specialist, Missoula Regional Office

<b>Application No.</b>	76M 30165209	<b>Proposed Point of Diversion</b>	Govt. Lot 1 (NWNENE) Sec. 3, T14N, R23W, Mineral County
<b>Applicant</b>	Town of Alberton		

## Overview

This report analyzes data submitted by the Applicant in support of the above-mentioned water right application. This report provides technical analyses as required under the Administrative Rules of Montana (ARM) 36.12.1303 in support of the water rights criteria assessment as required in §85-2-311, Montana Code Annotated (MCA).

This Groundwater Permit Technical Analyses Report contains the following sections:

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2.0 Physical Availability of the Developed Spring.....	3
2.1 Source Description .....	3
2.2 Method of Estimation.....	3
2.3 Monthly Flow Rate and Volume.....	3
3.0 Area of Potential Impact .....	5
Review .....	5
References.....	5



## 1.0 Application Details

The Town of Alberton (Applicant) proposes to divert water from January 1 to December 31 from a developed spring for municipal purposes, at a rate of 20 gallons per minute. The Applicant is not requesting any volume under this permit proposal, only additional flow rate to supplement Statement of Claim 76M 45355-00, which authorizes 50 gallons per minute (GPM) and 80.86 acre-feet (AF) for municipal purposes from the same source.

The municipal place of use is generally located in the NE of Section 3 and the NW, NE and SE of Section 2, all in T14N, R23W, Mineral County. This proposed place of use coincides with the existing place of use under statement of claim 76M 45355-00. This new water right permit will provide supplemental flow rate to the existing place of use. It will use the same water distribution and wastewater treatment system.

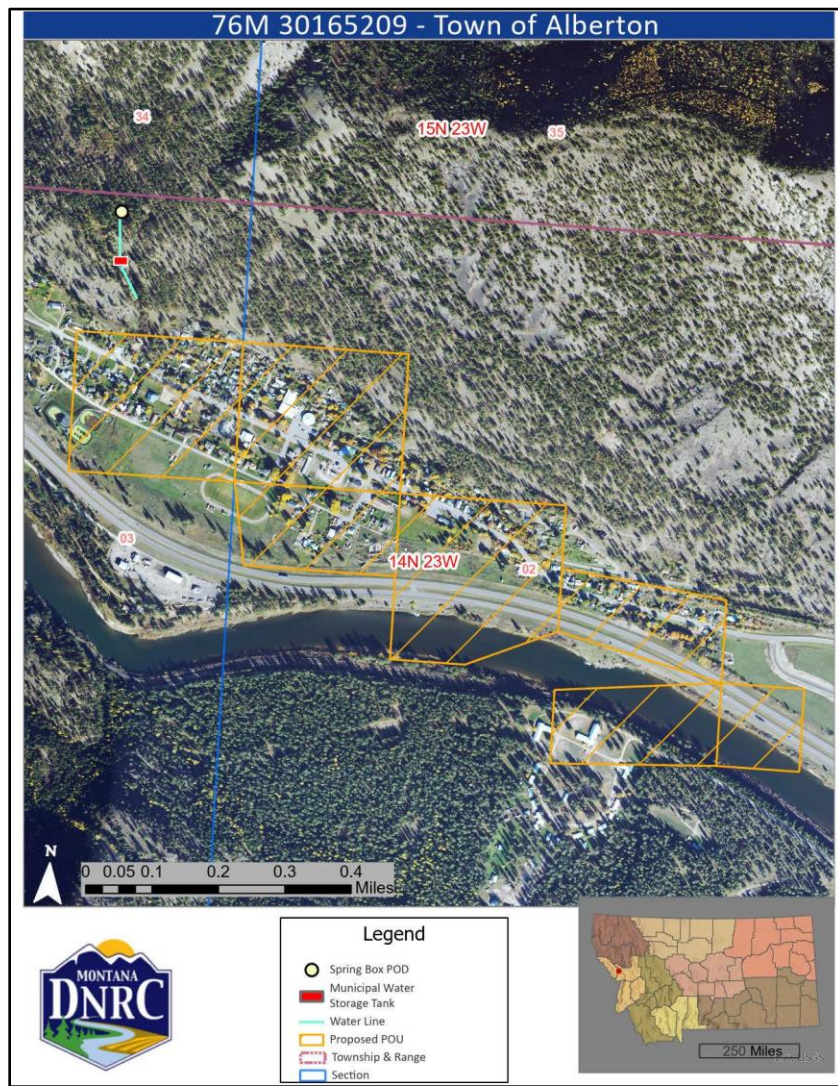


Figure 1: Map of the Applicant's proposed POD on the source and proposed place of use.



## 2.0 Physical Availability of the Developed Spring

### 2.1 Source Description

**Proposed Source of Water:** Spring, unnamed tributary of the Clark Fork River

**Proposed Source Type:** Developed Spring

**Proposed Point of Diversion:** Govt. Lot 1 (referred to on preapplication form as NWNENE) Section 3, Township 14N, Range 23W, Mineral County, Montana.

### 2.2 Method of Estimation

Per ARM 36.12.1703(3), Physical availability of groundwater will be determined using the measurements in ARM 36.12.1703(1) for applications for groundwater from a developed spring. ARM 36.12.1703(1) states, “Applicants for groundwater from a developed spring must provide monthly flow measurements taken at regular intervals or at department approved intervals during the proposed period of diversion. Measurements must be submitted with all information and data necessary for department analysis. The department will determine the acceptability of measurements based on the information submitted. Electronically formatted records may be required. An applicant cannot receive a variance from the monthly measurement requirement for developed spring.”

Physical availability of the developed groundwater spring source was assessed using flow measurement data supplied by the Applicant. Data was collected every five minutes throughout the entire 2024 year using an Ultra Mag in-line flow meter. The flow measurements submitted included over 100,000 values within the dataset.

### 2.3 Monthly Flow Rate and Volume

**Methodology:** Due to the configuration of the water system and the location of the Ultra Mag flowmeter, some measurement values were not representative of the spring’s physical availability. This included values below 1 GPM and values above 67 GPM. To explain why, it is necessary to describe how the water system is configured. Based on a spring schematic diagram from the Applicant, groundwater is captured in three separate but interconnected collection structures. From the lowest structure, water is conveyed through a single pipeline to a shed where the Ultra Mag flow meter and altitude valve are located. Water then continues to a nearby above ground storage tank. When this tank is full, the altitude valve closes, resulting in low recorded measurements (i.e. below 1 GPM). Conversely, when the system is full and water is drawn out of the storage tank, the altitude valve opens, resulting in high recorded measurement data (i.e. above 67 GPM) due to considerable head pressure. After the pressure stabilizes, the altitude valve remains open and the Ultra Mag meter records steady flow rates. The Department determined that the Applicant’s measurements are acceptable for estimating physical availability on the source.



Those respective low and high values were not considered as part of the Department’s physical availability analysis. From the submitted flow measurement data, two maximum measurements below 67 GPM from each month were identified as representing the physical availability of the spring (Table 1). Based on the highest values below 67 GPM that were recorded when the altitude valve was open, the spring physically supplies a maximum flow rate of 67.0 GPM. The Applicant is only requesting an additional flow rate under the proposed permit (no volume).

**Table 1:** Two maximum monthly values below 67 GPM from Applicant-submitted measurement data on the developed spring

Month	Flow Rate (GPM)
January	66.9
	66.9
February	66.7
	66.6
March	66.9
	66.9
April	66.7
	66.4
May	67.0
	66.9
June	65.9
	64.9
July	63.5
	62.5
August	64.1
	61.0
September	60.9
	60.4
October	65.9
	65.7
November	65.2
	65.1
December	65.8
	65.4



### 3.0 Area of Potential Impact

The spring point of diversion is approximately 0.4 miles from the Clark Fork River. Due to the nature of the source, the aquifer characteristics of the groundwater spring could not be determined. This spring is not considered to impact the Clark Fork River or its surface water rights due to the proposed appropriation consisting of additional flow rate only. There will be no new consumed volume associated with the proposed appropriation that would result in depletions to the Clark Fork River.

The area of potential impact extends to the developed spring source itself. The water right listed in Table 2 will be considered for potential impact since it also uses the developed spring as its point of diversion.

**Table 2:** Water rights considered for potential impact

<b>Water Right</b>	<b>Priority</b>	<b>Flow Rate (GPM)</b>	<b>Volume (AF)</b>
76M 45355 00	1/30/1923	50.0	80.86

### Review

This document has been reviewed by the Department on August 11, 2025

### References

DNRC Permit Application Manual dated February 25, 2025

## **Excel File Placeholder**

*The Town of Alberton Follow Up Information – 2024 Raw Flow Data spreadsheet is available outside of the application file.*

*For **pending applications**, excel files available upon request from the regional office.*

*For **scanned applications**, excel files available in a separate FileNet link.*

*Please contact the regional office for  
more information.*

## **Preapplication Materials**

- **Preapplication Meeting Request**
- **Preapplication Meeting Form**
- **All attachments**
- **All correspondence prior to application receipt**

# **Preapplication Materials**

**From:** [Christina Eggensperger](#)  
**To:** [Dalgleish, Alex](#)  
**Cc:** [Pat Thomson](#)  
**Subject:** [EXTERNAL] RE: Department Technical Analyses Deadline  
**Date:** Thursday, July 31, 2025 11:36:58 AM  
**Attachments:** [image001.png](#)

---

Hey Alex,

Thank you for the heads up! We look forward to hearing from you and the team. Have a great Thursday!

Christina Eggensperger  
ceggensperger@waterenvtech.com  
406-531-9486

Have a great day!

*\*I understand that my working hours/time zone may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule.*

---

**From:** Dalgleish, Alex <Alexander.Dalgleish@mt.gov>  
**Sent:** Thursday, July 31, 2025 11:09 AM  
**To:** Christina Eggensperger <ceggensperger@waterenvtech.com>  
**Cc:** Pat Thomson <pthomson@waterenvtech.com>  
**Subject:** Department Technical Analyses Deadline

**WARNING** - This email originated from an EXTERNAL SOURCE. Do not reply, click any link or open attachments unless you can confirm the sender. *Please report suspicious emails to itsupport*

Hey Christina,

On July 17, the Department sent the Town of Alberton a letter (and CC'd you) stating that the preapplication materials were considered complete, and that the Department will now produce the technical analyses. I noticed a typo and wanted to bring it to your attention. The letter states that the Department will produce the technical analysis within 45 days of **6/16/2025**. This is incorrect. The Department has 45 days from the date of the letter (7/17/2025) which creates a deadline of 8/31/2025.

I wanted to bring this to your attention since 45 days from 6/16/2025 is today, 7/31/2025. The Department will send the technical analyses to the Town of Alberton and you by 8/31/2025.

Please let me know if you have any questions.

Thank you,



**Alex Dagleish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C

**DESK:** 406-542-5886 **EMAIL:** [alexander.dagleish@mt.gov](mailto:alexander.dagleish@mt.gov)

[Website](#) | [Facebook \[facebook.com\]](https://www.facebook.com) | [X \(Twitter \[twitter.com\]\)](https://twitter.com) | [Instagram \[instagram.com\]](https://www.instagram.com)

**How did we do? Let us know here:** [Feedback Survey \[forms.office.com\]](https://forms.office.com)



Missoula Water Resources Regional Office  
PO Box 5004  
2705 Spurgin Road, Bldg. C  
Missoula, MT 59806-5004  
(406) 721-4284

7/17/2025

Town of Alberton  
PO Box 115  
Alberton, MT 59820-0115

Subject: Complete Preapplication Form for Beneficial Water Use Permit Application No. 76M 30165209

Dear Applicant,

The Missoula Regional Office of the Department of Natural Resources and Conservation (DNRC or Department) received all the completed Preapplication Meeting materials (adequate follow up information, completed form and associated fee) on 7/16/2025, and the Department deemed the submitted Preapplication Meeting Form to be successfully completed per ARM 36.12.1302 on 7/17/2025.

As designated on the submitted Preapplication Meeting Form per § 85-2-302(3)(b), MCA, the Department will produce the technical analyses based on the parameters included in the Preapplication Meeting Form (ARM 36.12.1302(4)) within 45 days of 6/16/2025.

Please let me know if you have any questions.

Best,

A handwritten signature in black ink, appearing to read "Alex D. Kaster".



Alex Dagleish  
Water Resource Specialist  
Missoula Regional Office  
(406)-542-5886  
[Alexander.dagleish@mt.gov](mailto:Alexander.dagleish@mt.gov)

CC:

Water & Environmental Technologies  
c/o Christina Eggensperger  
480 E Park St  
Butte, MT 59701-1923





**PREAPPLICATION MEETING FORM PERMIT**  
 § 85-2-302  
 Form No. 600P (Revised 4/2024)

For Department Use Only

Application # 30165209 Basin 76M  
 Meeting Date 1/21/2025 Time 2:45  AM  PM  
 Completed Form Deadline 07/20/2025

**PREAPPLICATION MEETING FEE**  
 \$ 500

**RECEIVED**

**JAN 21 2025**

MONTANA D.N.R.C  
 MISSOULA REGIONAL OFFICE

Completed Form Received 7/16/2025  
 Fee Rec'd \$ 500.00 Check # 10937  
 Deposit Receipt # MSS2600914  
 Payor Anderson-Montgomery Consulting Engineers Inc.  
 Refund \$ \_\_\_\_\_ Date \_\_\_\_\_

**FILING FEE REDUCTION & EXPEDITED TIMELINE**

An application will be eligible for a filing fee reduction and expedited timelines if the applicant completes a preapplication meeting with the Department (ARM 36.12.1302(1)), which includes submitting any follow-up information identified by the Department (ARM 36.12.1302(3)(c)) and receiving either Department-completed technical analyses or Department review of applicant-submitted technical analyses (ARM 36.12.1302(4) and (5)). An application for the proposed project also must be submitted within 180 days of delivery of Department technical analyses or scientific credibility review and no element on the submitted application can be changed from the completed preapplication meeting form (ARM 36.12.1302(6)).

*The Department will fill out Form No. 600P and will identify follow-up during the preapplication meeting. The Department and Applicant will sign the Preapplication Meeting Affidavit and Certification within five business days. Within 180 days of the preapplication meeting, the Applicant will complete identified follow-up on a separate document with the question numbers clearly labeled.*

**Applicant Information: Add more as necessary.**

Applicant Name Town of Alberton  
 Mailing Address PO Box 115 City Alberton State MT Zip 59820  
 Phone Numbers: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell \_\_\_\_\_  
 Email Address \_\_\_\_\_

Applicant Name \_\_\_\_\_  
 Mailing Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 Phone Numbers: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell \_\_\_\_\_  
 Email Address \_\_\_\_\_

**Contact/Representative Information: Add more as necessary.**

Contact/Representative is:  Applicant  Consultant  Attorney  Other (describe) \_\_\_\_\_  
 Contact/Representative Name Pat Thomson, Christina Eggensperger  
 Mailing Address 480 East Park Street City Butte State MT Zip 59701  
 Phone Numbers: Home \_\_\_\_\_ Work \_\_\_\_\_ Cell 406-782-5220  
 Email Address ceggensperger@waterenvtech.com

*NOTE: If a contact person is identified as an attorney, all communication will be sent only to the attorney unless the attorney provides written instruction to the contrary. If a contact person is identified as a consultant, employee, or lessee, the individual filing the water right form or objection form will receive all correspondence and a copy may be sent to the contact person.*

**Meeting Attendees: Add more as necessary.**

Name	Organization	Position
Pat Thompson	WET	Senior Hydrogeologist
Christina Eggensperger	WET	Project Manager
Jim Nave	DNRC	Regional Manager
Alex Dalgleish	DNRC	Water Resources Specialist
Benjamin Thomas	DNRC	Water Resources Specialist

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**Application Details**

The following questions are mandatory and must be filled out before the Preapplication Meeting Form is determined to be complete. Narrative responses that are larger than the space provided can be answered in an attachment. If an attachment is used, mark the see attachment (“A”) checkbox on this form and label the attachment with the question number. Constrain narrative responses to the specific question as is asked on the form; do not respond to multiple questions in one narrative. Label units in narrative responses. Responses in the form of a table may be entered into the table provided on this form or in an attachment. Responses in the form of a table that are larger than the table provided on this form should be placed in an attachment. If an attachment is used, the table must have the exact headings found on this form, and the see attachment (“A”) checkbox must be marked. For tables in this form, circle correct unit at header of column when faced with a choice of units. For tables in attachments, label all units. Questions that require Applicant to submit items to the Department have a submitted (“S”) checkbox, which is marked when the required item is attached to the Preapplication Meeting Form. Label all submitted items with the question number for which they were submitted. For all questions where follow-up is necessary, mark the “F” checkbox in the “Follow-Up” column and write the question number on the “Follow-Up Page”.

<u>Questions, Narrative Responses, and Tables</u>	<u>Check-boxes</u>	<u>Follow-Up</u>
1. Do you elect to have DNRC conduct Technical Analyses?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
2. Provide a map created on an aerial photograph or topographic map that shows the following: section corners, township and range, a north arrow, all proposed points of diversion labeled with a unique POD ID number, all proposed places of use, all proposed conveyance structures, all proposed places of storage, and places of use for all overlapping water rights.	<input type="checkbox"/> S	<input checked="" type="checkbox"/> F
3. Is the project located in a Controlled Groundwater Area or Basin Closure Area? If yes, immediately go to Project-Specific Questions 47 to 52 because Form 600 may be the incorrect form, or this project may not meet the requirements for the Department to accept a Form 600.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
4. Is the proposed use temporary?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, when will the appropriation cease? _____	<input type="checkbox"/> A	<input type="checkbox"/> F
5. Describe the proposed purpose information, including period of diversion (MM/DD-MM/DD), period of use (MM/DD-MM/DD), flow rate (GPM or CFS) and volume (AF).	<input type="checkbox"/> A	<input type="checkbox"/> F

Purpose	Period of Diversion	Period of Use	Flow Rate			Volume
	(MM/DD-MM/DD)	(MM/DD-MM/DD)	Flow Rate	GPM	CFS	(AF)
Municipal	01/01-12-31	01/01-12/31	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
<b>Total</b>			20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



6. Describe the proposed location of the point(s) diversion to the nearest 10 acres, if source is groundwater (GW) or surface water (SW), source name, and means of diversion (e.g., pump, headgate, well). Label each POD with the POD ID number used for the project map (question 2).	<input type="checkbox"/> A	<input type="checkbox"/> F
--	----------------------------	----------------------------

POD #	¼	¼	¼	Sec	Twp	Rge	County	Lot	Block	Tract	Subdivision	Gov Lot	SW or GW	Source Name	Means
1	NW	NE	NE	3	14N	23W	Mineral					1	GW	Spring, Unnamed Tributary of Clark Fork Riv	Headgate

7. What are the geocodes of the place of use?	<input type="checkbox"/> A	<input type="checkbox"/> F
---	----------------------------	----------------------------


8. Describe the legal land description for the proposed place of use and, if an irrigation or lawn and garden purpose, list the number of irrigated acres.	<input checked="" type="checkbox"/> A	<input type="checkbox"/> F
--	---------------------------------------	----------------------------

Acres	Gov't Lot	Block	¼	¼	¼	Sec	Twp	Rge	County
			S2	NE	NE	3	14N	23W	Mineral
			S2	NW	NW	2	14N	23W	Mineral
			N2	SW	NW	2	14N	23W	Mineral
				SE	NW	2	14N	23W	Mineral
			S2	SW	NE	2	14N	23W	Mineral
			N2	NW	SE	2	14N	23W	Mineral
			NW	NE	SE	2	14N	23W	Mineral
	<b>Total</b>								

9. Will other water right(s) supplement or overlap the place of use to contribute to the purpose(s)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
--	--	----------------------------

a. If yes, summarize how the water rights will be operated as a whole to serve the purpose(s). Existing statement of claim 76M 45355 00. Using the same water distribution and wastewater treatment as Statement of claim Domestic water use and irrigation. This proposed permit will be utilized to increase flow rate diverted from the spring. No additional volume will be required. Volume under 76M 45355 00 is sufficient for the town's needs.	<input type="checkbox"/> A	<input type="checkbox"/> F
---	----------------------------	----------------------------

10. For each supplemental or overlapping water right, please list the water right number, purpose, typical period of diversion and use (MM/DD-MM/DD), flow rate (GPM or CFS), and the volume of water (AF) contributed.					<input type="checkbox"/> A	<input type="checkbox"/> F
Water Right No.	Avg. Period of Diversion (MM/DD-MM/DD)	Avg. Period of Use (MM/DD-MM/DD)	Flow Rate (GPM or CFS)	Volume Contributed (AF)		
76M 45355-00	01/01-12/31	01/01-12/31		80.86		
76M 13904-00	01/01-12/31	06/01-09/30		161.00		

11. Will this application supplement contract water from a Federal Project, ditch company, or other source?		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, explain. _____		<input type="checkbox"/> A	<input type="checkbox"/> F
12. Does the project involve one or more place(s) of storage with a capacity of greater than 0.1 acre-feet? This does not include storage tanks and cisterns. If yes, answer questions 53 to 61 for place of storage.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
13. Does the project involve one or more conveyance ditches? If yes, answer questions 62 to 64 for ditch-specific questions.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
14. Does the project involve an appropriation that is greater than 5.5 CFS and 4,000 AF? If yes, you must submit a Criteria Addendum Application for Beneficial Water Use Permit for Appropriations Greater than 5.5 CFS and 4,000 AC-FT (Form 600-B) with application submittal. The criteria are found in §85-2-311(3), MCA.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
15. Will you be transporting water for use outside of Montana? If yes, you will need submit an Out-of-State Use Addendum (Form 600/606-OSA) with the application. The out-of-state use criteria are outlined in §85-2-402(6), MCA.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
16. Does the project include the water marketing purpose? If yes, answer questions 65 to 71 for water marketing. A Water Marketing Purpose Addendum (Form 600/606-WMA) will be required with application submittal.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
17. Is the project located in designated sage grouse habitat? If yes, you must have a consultation with and review of your project by the Montana Sage Grouse Habitat Conservation Program. The review letter will be required at application submittal.		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F



**Surface Water**

**Applicable**, move on to question 18.  **Not Applicable**, skip to question 29.

The following questions are mandatory for surface water permit applications and must be filled out before the Preapplication Meeting Form is determined to be complete.

*Surface Water: Physical Availability*

<b>Questions, Narrative Responses, and Tables</b>						<b>Check-boxes</b>	<b>Follow-Up</b>
18. What is the flow rate (GPM or CFS), volume (AF), period of diversion start date and end date (MM/DD-MM/DD), and source type (e.g., perennial, ephemeral) at each point of diversion? Use the same POD # as the project map (question 2) to label each point of diversion.						<input type="checkbox"/> A	<input type="checkbox"/> F
POD #	Flow Rate (GPM or CFS)	Volume (AF)	Period Start (MM/DD)	Period End (MM/DD)	Source Type		
1	20 GPM	0	01/01	12/31	Groundwater		

19. What is the source type of the surface water diversion? <u>perennial groundwater developed spring</u>						<input type="checkbox"/> A	<input type="checkbox"/> F
<b>Perennial or intermittent</b>	Answer question 20	<b>Ephemeral</b>	Answer questions 22 to 24	<b>Lakes</b>	Answer question 25	<b>Other</b>	Answer question 26

*Surface Water: Physical Availability: Perennial or Intermittent*

Applicable  Not Applicable

20. Is stream gage data available?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, answer the following questions related to the number of stream gages that are available.		
i. One stream gage is available		
1. What is the gage name? _____		<input type="checkbox"/> F



2. Who operates and maintains the gage? _____		<input type="checkbox"/> F
3. Is the stream gage upstream or downstream of point(s) of diversion? _____		<input type="checkbox"/> F
4. Is there a limiting or controlling factor that would make the Drainage Area Method not practical? This includes dams that control the flow and streams with large gaining and/or losing reaches. If you have questions about this, please contact the Regional Hydro-Specialist or the Water Sciences Bureau.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
5. Is the period of record greater than or equal to 10 years?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
6. How frequently is stage data recorded? _____		<input type="checkbox"/> F
7. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
8. Was the rating curve established and maintained throughout the duration of the period of record using measurements taken near the reference gage and stage recorder according to USGS protocols?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
9. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
10. Does the gage data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, this section is complete. Skip to question 27.		
b. If no, answer question 20.b.		
ii. More than one stream gage is available		
1. List the gage names. _____		<input type="checkbox"/> F
2. Who operates and maintains the gages? _____		<input type="checkbox"/> F
3. Is one stream gage upstream and one downstream of point(s) of diversion?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
4. Do the stream gages have similar periods of record?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
5. Are the periods of record each greater than or equal to 10 years?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F



6. How frequently is stage data recorded at each gage? _____		<input type="checkbox"/> F
7. For each gage, if data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
8. Were the rating curves established and maintained throughout the duration of the period of record using measurements taken near the reference gages and stage recorders according to USGS protocols?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
9. For each gage, were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
10. Does the gage data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, this section is complete. Skip to question 27.		
b. If no, answer question 20.b.		
b. If no gage data is available or if available gage data does not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion, is the source otherwise measured?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes,		
1. Submit available measurements to the Department. submit with Pre app form	<input type="checkbox"/> S	<input checked="" type="checkbox"/> F
2. Who collected the measurements? City of Alberton _____	<input type="checkbox"/> A	<input type="checkbox"/> F
3. With what method was the data collected? In line flow meter with valve to tank. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
4. What is the period of record? three years from 2020 _____		<input type="checkbox"/> F
5. What is the frequency of measurement? every 5 minutes _____		<input type="checkbox"/> F
6. Are there gaps in the data?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F



<p>a. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality?                  The flow meter was malfunctioning causing gaps, but there is an abundance of collected data. The period of record is sufficient to cover gaps.</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>7. Is there a process for maintaining the data and meeting specified accuracy limits?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/> F
<p>a. If yes, explain.                  City of Alberton has database. Specs, calibrations and or maintenance records for the meter will be obtained and provided</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>8. Does available measurement data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion?</p>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If yes, this section is complete. Skip to question 27.</p>		
<p>b. If no, answer question 21.</p>		
<p>21. Does the available measurement data, gage and/or otherwise measured, meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a department-accepted estimation technique?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If yes, describe the estimation technique.</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>b. If no,</p>		
<p>i. Will measurements be collected prior to submission of a completed Form No. 600P that meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a department-accepted estimation technique?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>1. If yes,</p>		
<p>a. With what method will the data be collected?</p>	<input type="checkbox"/> A	<input type="checkbox"/> F



b. What will be the interval of measurement? _____		<input type="checkbox"/> F
c. Describe the proposed estimation technique. _____ _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
2. If no,		
a. Describe your plan to comply with the requirements of ARM 36.12.1702(1). _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
b. Do you plan on requesting a variance from measurement requirements pursuant to ARM 36.12.1702(1)(b)?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F

*Surface Water: Physical Availability: Ephemeral*

Applicable  Not Applicable

22. If you will conduct Technical Analyses, what is your plan to calculate mean annual runoff? If DNRC will conduct Technical Analyses, write N/A. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
23. Where do you plan to obtain climate and drainage area data? _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
24. Where is the downstream point of diversion, which will be used to delineate the drainage basin? _____	<input type="checkbox"/> A	<input type="checkbox"/> F



*Surface Water: Physical Availability: Lakes*

Applicable  Not Applicable

25. Do you have a design plan?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, provide the design plans to DNRC	<input type="checkbox"/> S	<input type="checkbox"/> F
b. If no, has the lake volume been quantified by a qualified entity based on bathymetric data?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, provide this information to DNRC.	<input type="checkbox"/> S	<input type="checkbox"/> F
ii. If no, answer the following questions,		
1. When do you plan to collect this information? _____		<input type="checkbox"/> F
2. With what method will it be collected? _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F

*Surface Water: Physical Availability: Other*

Applicable  Not Applicable

26. Have you measured the source?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, answer the following questions,		
i. With what method was the data collected? _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
ii. What is the measurement interval? _____		<input type="checkbox"/> F
1. Does the interval meet the requirements of 36.12.1702(4)?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
b. If no or if the measurement interval does not meet the requirements of 36.12.1702(4)		
i. When do you plan to measure? _____		<input type="checkbox"/> F
ii. With what method will the measurements be collected? _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F



*Surface Water: Identification of Legal Demands in Area of Potential Impact*

<p>27. If you are conducting Technical Analysis, how will the Area of Potential Impact be defined? If Department is conducting Technical Analyses, write N/A.</p> <p>N/A</p> <hr/> <hr/> <hr/> <hr/>	<input type="checkbox"/> A	<input type="checkbox"/> F
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*Surface Water: Basin Closure Area*

<p>28. Is the project located in a Basin Closure Area? If yes, explain how the project meets a closure exception. More information about basin closures online at: <a href="https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas">https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas</a>. Answer the follow-up questions for specific Basin Closure Areas in the “Project-Specific Questions: Controlled Groundwater Areas and Basin Closures” section (questions 51 to 52).</p> <hr/> <hr/> <hr/> <hr/> <hr/>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
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### Groundwater

**Applicable**, move on to question 29.  **Not Applicable**, skip to question 47.

The following questions are mandatory for groundwater permit applications and must be filled out before the Preapplication Meeting Form is determined to be complete.

<b><u>Questions, Narrative Responses, and Tables</u></b>	<b><u>Check-boxes</u></b>	<b><u>Follow-Up</u></b>
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#### Groundwater: Physical Availability

29. What is the type of groundwater diversion? <u>groundwater (spring) - headgate</u>					<input type="checkbox"/> A	<input type="checkbox"/> F
<b>Well/Pit</b> <input type="checkbox"/>	Answer questions 30 to 32	<b>Developed Spring</b> <input checked="" type="checkbox"/>	Answer question 33	<b>Pond</b> <input type="checkbox"/>	Answer questions 34 to 38	

#### Groundwater: Physical Availability: Well/Pit

Applicable  Not Applicable

30. Provide the Aquifer Testing Addendum (Form 600-ATA). This form will be required before the Preapplication Meeting Form is deemed complete.	<input type="checkbox"/> S	<input type="checkbox"/> F
31. Have you submitted a completed Form 633 to DNRC for review?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no, submit Form 633 to DNRC for review. Form 633 is required by the time the Preapplication Meeting Form is deemed complete.	<input type="checkbox"/> S	<input type="checkbox"/> F
b. If yes, did the Department identify deficiencies?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, are variances from ARM 36.12.121 needed?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
1. If yes,		
a. Do you have data for aquifer characteristics?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, provide the data to the Department.	<input type="checkbox"/> S	<input type="checkbox"/> F
b. Have you submitted Form 653 to the Department?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, was the variance granted?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
32. Do you have a map with the location of each well/pit labeled and, if available, with the GWIC ID?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no, have all the wells/pits been constructed?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F



i. If yes, provide a map with the wells/pits labeled and, if available, with the GWIC ID. Create map on an aerial photograph or topographic map that also includes the following: section corners, township and range, and a north arrow.	<input type="checkbox"/> S	<input type="checkbox"/> F
ii. If no, answer the following questions,		
1. When will the wells/pits be constructed? _____		<input type="checkbox"/> F
2. Do you have an initial map with the proposed location of wells/pits?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, provide an initial map to the Department. Create map on an aerial photograph or topographic map that also includes the following: section corners, township and range, and a north arrow.	<input type="checkbox"/> S	<input type="checkbox"/> F
3. Is the requested volume for each new well/pit known?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no, what is the total requested volume (AF) and the number of new PODs? _____		<input type="checkbox"/> F

*Groundwater: Physical Availability: Developed Spring*

Applicable  Not Applicable

33. Have you measured the source?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, answer the following questions,		
i. Do you have flow rate (GPM or CFS) and volume measurements?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
ii. With what method were measurements collected? Flow meter _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
iii. What is the interval of measurements? <u>every 5 minutes</u>		<input type="checkbox"/> F
iv. Is the interval of measurements sufficient to comply with ARM 36.12.1703(1)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
b. If no, or if measurements do not comply with ARM 36.12.1703(1),		
i. When do you plan to measure? _____		<input type="checkbox"/> F



ii. With what method and at what interval will measurements be collected? _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
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*Groundwater: Physical Availability: Ponds*

Applicable  Not Applicable

34. Have you submitted Form 653 to apply for a variance from ARM 36.12.121 for the Aquifer Test?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, did the Department approve the variance request?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
35. Have you submitted measurements to the Department? If yes, describe. _____	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
36. Submit pond bathymetry data, survey, or engineering plans to the Department.	<input type="checkbox"/> S	<input type="checkbox"/> F
37. Please submit a map identifying the location of the proposed pond to the Department. Create map on an aerial photograph or topographic map that also includes the following: section corners, township and range, and a north arrow.	<input type="checkbox"/> S	<input type="checkbox"/> F
38. If you are conducting Technical Analyses, what is your plan to determine depth, surface area, and net evaporation of the pond? If DNRC is conducting Technical Analyses, write N/A. _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F

*Groundwater: Identification of Groundwater Legal Demands*

All information to calculated Zone of Influence was collected in previous questions.

*Groundwater: Adverse Effect to Existing Groundwater Rights*

All information to calculate One-Foot Drawdown Contour was collected in previous questions.

*Groundwater: Physical Availability of Depleted Surface Water Source(s)*

39. What are the hydraulically connected surface water source(s)? Clark Fork River _____		<input type="checkbox"/> F
40. For each hydraulically connected surface water source, is gage data available?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, answer the following questions for the number of stream gages that are available.		



i. One stream gage is available			
1. What is the gage name? _____			<input type="checkbox"/> F
2. Who operates and maintains the gage? _____			<input type="checkbox"/> F
3. Is the stream gage upstream or downstream of point(s) of diversion? _____			<input type="checkbox"/> F
4. Is there a limiting or controlling factor that would make the Drainage Area Method not practical? This includes dams that control the flow and streams with large gaining and/or losing reaches. If you have questions about this, please contact the Regional Hydro-Specialist or the Water Sciences Bureau.	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> F
5. Is the period of record greater than or equal to 10 years?	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> F
6. How frequently is stage data recorded? _____			<input type="checkbox"/> F
7. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> F
8. Was the rating curve established and maintained throughout the duration of the period of record using measurements taken near the reference gage and stage recorder according to USGS protocols?	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> F
9. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> F
10. Does the gage data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion?	<input type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> F
a. If yes, this section is complete. Skip to question 42.			
b. If no, answer question 40.b.			
ii. More than one stream gage is available			
1. List the gage names. Clark Fork Below Missoula-12353000, Clark Fork River below Noxon Rapids Dam-12391400 _____			<input type="checkbox"/> F
2. Who operates and maintains the gages? USGS _____			<input type="checkbox"/> F
3. Is one stream gage upstream and one downstream of point(s) of diversion?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N		<input type="checkbox"/> F



4. Do the stream gages have similar periods of record?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
5. Are the periods of record each greater than or equal to 10 years?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
6. How frequently is stage data recorded at each gage? Every 15 minutes _____		<input type="checkbox"/> F
7. For each gage, if data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
8. Were the rating curves established and maintained throughout the duration of the period of record using measurements taken near the reference gages and stage recorders according to USGS protocols?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
9. For each gage, were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
10. Does the gage data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, this section is complete. Skip to question 42.		
b. If no, answer question 40.b.		
b. If no gage data is available or if available gage data does not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion, is the source otherwise measured?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes,		
1. Submit measurements to the Department.	<input type="checkbox"/> S	<input type="checkbox"/> F
2. Who collected the measurements? _____	<input type="checkbox"/> A	<input type="checkbox"/> F
3. With what method was the data collected? _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
4. What is the period of record? _____		<input type="checkbox"/> F
5. What is the frequency of measurement? _____		<input type="checkbox"/> F
6. Are there gaps in the data?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F



<p>a. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>7. Is there a process for maintaining the data and meeting specified accuracy limits?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If yes, explain.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>8. Does available measurement data meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If yes, this section is complete. Skip to question 42.</p>		
<p>b. If no, answer question 41.</p>		
<p>41. For each hydraulically connected surface water source, does the available measurement data, gage and/or otherwise measured, meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a department-accepted estimation technique?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If yes, describe the estimation technique.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>b. If no,</p>		
<p>i. Will measurements be collected prior to submission of a completed Form No. 600P that meet the Department's standard of including a minimum of high, moderate, and low flows to be sufficient to use for calibration of a department-accepted estimation technique?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>1. If yes,</p>		
<p>a. With what method will the data be collected?</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F



b. What will be the interval of measurement? _____		<input type="checkbox"/> F
c. Describe the proposed estimation technique. _____ _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
2. If no, describe your plan to comply with the measurement requirements for hydraulically connected surface water sources. _____ _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F

*Groundwater: Legal Availability of Depleted Surface Water Source(s)*

All information to determine legal demands for depleted surface water source(s) was collected in previous questions.

*Groundwater: Adequacy of Diversion*

<b><u>Questions, Narrative Responses, and Tables</u></b>						<b><u>Check-boxes</u></b>	<b><u>Follow-Up</u></b>
42. What is the flow rate (GPM or CFS), volume (AF), and period of diversion required (MM/DD-MM/DD) at each groundwater point of diversion? If the POD is a well, provide the well depth (FT), if available, or estimated well depth (FT). Please use the same POD # as the project map (question 2) to match this information with the location information.						<input type="checkbox"/> A	<input type="checkbox"/> F
POD #	Flow Rate (GPM or CFS)	Volume (AF)	Period of Diversion (MM/DD-MM/DD)	Well Depth (FT)	Measured or Estimated		
1	20 GPM	0	01/01-12/31	N/A	N/A		

43. Will the monthly pumping schedule differ from an allocation of diverted volume by the number of days in the month for year-round uses or the IWR 80% net irrigation requirements for irrigation/lawn & garden uses (IWR, NRCS 2003)?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
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a. If yes, provide the alternative pumping schedule in the table below. Use the same POD # as the project map (question 2).						<input type="checkbox"/> A	<input type="checkbox"/> F
<b>Month</b>	<b>POD #</b>	<b>Volume (AF)</b>	<b>Month</b>	<b>POD #</b>	<b>Volume (AF)</b>		
January			July				
February			August				
March			September				
April			October				
May			November				
June			December				

*Groundwater: Basin Closure Area*

44. Are the point(s) of diversion located in a basin closure area? If yes, fill out questions 45 to 46.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
45. Did you elect in question 1 for the Department to conduct Technical Analysis?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, the Basin Closure Area Addendum (Form 600-BCA), Hydrogeologic Report Addendum (Form 600-HRA), and Hydrogeologic Report are not required at this time. The Department’s Technical Analyses will meet requirements of §85-2-360 for Form 600-HRA. Form 600-BCA will be required with application submittal.		
b. If no, submit the Basin Closure Area Addendum (Form 600-BCA), Hydrogeologic Report Addendum (600-HRA), and Hydrogeologic Report with your Technical Analysis.	<input type="checkbox"/> S	<input type="checkbox"/> F
46. If the Hydrogeologic Report indicates that the proposed groundwater use will impact a surface water source, which of the following three options best describe your plan to mitigate depletions of hydraulically connected surface water? A separate Preapplication Meeting will be required for each application to change a water right to a mitigation or aquifer recharge purpose to maintain expedited timelines and reduced filing fees for the project.		
a. Application to Change a Water Right to mitigate the adverse effects created.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
b. Alternative mitigation plan.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
c. Documentation to show a mitigation plan is not required.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F



### Project-Specific Questions

The following questions are mandatory when applicable and must be filled out before the Preapplication Meeting Form is determined to be complete.

<u>Questions, Narrative Responses, and Tables</u>	<u>Check- boxes</u>	<u>Follow -Up</u>
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*Project-Specific Questions: Controlled Groundwater Areas and Basin Closures*

47. Is the project located in the East Valley Controlled Groundwater Area?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
a. If yes,		
i. Do you have written approval from (1) Lewis and Clark County Board of Health, (2) Lewis and Clark County Water Quality Protection Bureau, (3) the U.S. Environmental Protection Agency, (4) the Montana State Dept. of Environmental Quality and (5) the Montana State Dept. of Natural Resources and Conservation? If the agencies have established a Technical Advisory Group, prior approval by the Technical Advisory Group satisfies this requirement.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
ii. Is the project in Zone 2?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes, provide in the written approval the following recommendations which will also be included as conditions on the appropriation. <ul style="list-style-type: none"> <li>a. Well design and construction requirements necessary to measure the water level and water quality for any well;</li> <li>b. Water level measurement and water quality sample reporting requirements for any new well;</li> <li>c. Any other requirements necessary to ensure new wells can be operated in a manner consistent with purpose of the EVCGWA.</li> </ul>	<input type="checkbox"/> S	<input type="checkbox"/> F
iii. Is the project in Zone 1? If yes, a Form 600 cannot be accepted by the Department.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
48. Is the project located in the South Pine Controlled Groundwater Area?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, have you completed an Application for Beneficial Water Use Permit South Pine Controlled Groundwater Area Addendum? The addendum needs to be completed by application submittal.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
49. Is the project located in the Yellowstone Controlled Groundwater Area?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, is the use over 35 GPM or 10 AF per year?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If no, this is the incorrect form. Use instead the Yellowstone Controlled Groundwater Area Permit Application (600-YCGA).		
ii. If yes, answer the remaining parts of question 49. A Yellowstone Controlled Groundwater Area Addendum (600 Y over35) will be required with application submittal.		
1. Does the proposed use require a point of diversion with water temperature of 60 degrees Fahrenheit or more?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
2. What is the ground elevation at the point of diversion? _____		<input type="checkbox"/> F



3. What is the specific conductance at the point of diversion? _____		<input type="checkbox"/> F
4. If an application is in a basin tributary to a category 3 or 4 stream (generally in or upstream of YNP), provide a report prepared by a professional qualified in the science of groundwater hydrology, verifying that the appropriation is not hydrologically connected to surface flow that is tributary to the reserved portion of category 3 or 4 streams.	<input type="checkbox"/> S	<input type="checkbox"/> F
50. Is the project located in one of the Controlled Groundwater Areas listed on the Department's website ( <a href="https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas">https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas</a> )?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If yes, list which one and describe how the proposed project meets the requirements of the Controlled Groundwater Area. An application must meet the specific requirements of the Controlled Groundwater Area to be accepted by the Department.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
51. Is the project located in one of the administrative, Department ordered, or legislative closures listed on the Department's website ( <a href="https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas">https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas</a> )?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If yes, list which one and describe how the proposed project meet the requirements of the closure. An application must meet the specific requirements of the closure to be accepted by the Department.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
52. Is the project located in one of the compact closures listed on the Department's website ( <a href="https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas">https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas</a> )?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
<p>a. If yes, list which one and describe how the proposed project meet the requirements of the compact closure. An application must meet the specific requirements of the compact closure to be accepted by the Department.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F



*Project-Specific Questions: Place of Storage*

53. Does the proposal include at least one place of storage? If yes, answer questions 54 to 61 for each individual place of storage (use Additional Place of Storage Sheet for additional places of storage). If no, this section is complete, and you can skip to question 62.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
54. Provide a map showing the location of the place of storage. Create map on an aerial photograph or topographic map that also includes the following: section corners, township and range, and a north arrow.	<input type="checkbox"/> S	<input type="checkbox"/> F
55. Is this application to enlarge an existing reservoir?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, what is the water right number for the existing reservoir? _____		<input type="checkbox"/> F
56. Is the place of storage located on-stream?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If no, explain the conveyance means to and from the off-stream place of storage and any losses that may occur with that conveyance.  _____	<input type="checkbox"/> A	<input type="checkbox"/> F
57. What is the capacity of the proposed place of storage or the existing place of storage after it is enlarged? Use bathymetry data, survey, or engineering plans for capacity. Submit the data source used with this form. In lieu of these data sources, use the following equation: <i>Surface Acres x Maximum Depth (FT) x 0.5 (0.4-0.6 depending on side slope) = Capacity (AF)</i>  _____	<input type="checkbox"/> A	<input type="checkbox"/> F
58. Will the place of storage include primary and/or emergency spillways? Preliminary design specifications for primary and emergency spillways must be included with application submittal (ARM 36.12.113).	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
59. Will the place of storage be lined?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
60. What is the annual net evaporation of water from the place of storage using the standards in ARM 36.12.116(1)? Gridded net evaporation layer is available from DNRC upon request.  _____		<input type="checkbox"/> F
61. Is the place of storage capacity calculated to be greater than 50 acre-feet?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
a. If yes, have you made an application to the DNRC Water Operations Bureau for a determination of whether the dam or reservoir is a high-hazard dam?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F

*Project-Specific Questions: Ditch-Specific Questions*

62. Does the proposal include at least one conveyance ditch? If yes, answer question 63 and, for each ditch, answer question 64. If no, this section is complete, and you can skip to question 65.	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
--	--	----------------------------



63. Submit a Ditch Map that shows every ditch conveying water for the proposed project. Label the ditch name(s), POD(s), the POU(s), and the ditch measurement locations (requested in question 64.c). The map should be created on an aerial photograph or topographic map with the following: section corners, township and range, and a north arrow.	<input type="checkbox"/> S	<input type="checkbox"/> F
64. For each conveyance ditch, answer the following. If there is more than one conveyance ditch, use an Additional Ditch Sheet for each additional conveyance ditch.		
a. What is the ditch name? _____		<input type="checkbox"/> F
b. What is the distance water will be carried by the conveyance ditch? Only include segments between the POD and start of the POU; do not include segments within the POU. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
c. Provide at least one set of ditch measurements, which include width (FT), depth (FT), and slope (%). Discuss ditch characteristics with DNRC to determine the minimum number of ditch measurements. Include the location of each measurement, labeled with the 2-digit measurement ID number, used on the map submitted for question 63.	<input type="checkbox"/> S	<input type="checkbox"/> F

ID #	Width (FT)	Depth (FT)	Slope (%)	Date of Measurement

d. What is a reasonable Manning’s n value? List the factors used for estimation. If you do not know this value, please work through estimation with the Department. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
e. What type of soils compose the proposed conveyance ditch? For lined ditches, write “lined” instead. _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F
f. Are other water rights conveyed by the conveyance ditch?	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
i. If yes,		
1. What are the water right numbers? _____ _____	<input type="checkbox"/> A	<input type="checkbox"/> F



<p>2. What is the sum of the flow rates (GPM or CFS) for water rights conveyed?</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>3. Provide a map with your best estimate of where the existing POUs begin for the other water rights conveyed by the conveyance ditch for all POUs between the proposed POD and your proposed POU. Create map on an aerial photograph or topographic map that also includes the following: section corners, township and range, and a north arrow.</p>	<input type="checkbox"/> S	<input type="checkbox"/> F

*Project-Specific Questions: Water Marketing*

<p>65. Does the proposal include water marketing? If yes, please answer the questions in this section (questions 66 to 71). If no, this section is complete, and you can skip to question 72.</p>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input type="checkbox"/> F
<p>66. Identify the flow rate (GPM or CFS) and volume (AF) of water that will be marketed.</p> <p>_____</p>		<input type="checkbox"/> F
<p>67. Will the marketed water return to the source?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>a. Explain how this determination was made.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>68. For what purpose(s) will the marketed water be used?</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>69. How will you control or limit access to the water?</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A	<input type="checkbox"/> F
<p>70. Do you have contracts for the entire volume and flow rate sought?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> F
<p>71. Provide a service area map. Create map on an aerial photograph or topographic map and shows the following: general service area boundary, section corners, township and range, and a north arrow.</p>	<input type="checkbox"/> S	<input type="checkbox"/> F



**Non-Mandatory Questions for Criteria Analysis**

*The following questions are not mandatory. They should be discussed in the Preapplication Meeting, but do not need to be filled out before the Preapplication Meeting Form is determined to be complete.*

*Adverse Effect*

<u>Questions, Narrative Responses, and Tables</u>	<u>Check-boxes</u>
72. Do you have evidence that water is legally available in the proper flow rate, volume, and timing?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
73. If water is not found to be legally available for part or all the proposed period of diversion, what is the plan to address this with the permitting process? Period of diversion and period of use could be modified to account for months when water may not be legally available. _____ _____	<input type="checkbox"/> A
74. Describe your plan to ensure that existing water rights will be satisfied during times of water shortage. The system could be manipulated to cease diverting the 20 GPM requested by this permit. _____ _____	<input type="checkbox"/> A
75. Explain how you can control your diversion in response to call being made. Consultants will gather more info as to how diversion can be controlled. _____ _____	<input type="checkbox"/> A
76. Are you aware of any calls that have been made on the source of supply or depleted surface water source? a. If yes, explain. _____ _____	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N  <input type="checkbox"/> A
77. Does a water commissioner distribute water or oversee water distribution on your proposed source or depleted surface water source?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N

*Adequate Diversion Means and Operation*

78. Provide a diagram of how you will operate your system from the point of diversion to the place of use.	<input type="checkbox"/> S
79. Describe specific information about the capacity of the diversionary structure(s). This may include, where applicable: pump curves and total dynamic head calculations, headgate design specifications, and dike or dam height and length. Consultants will collect information and provide at later date. _____ _____	<input type="checkbox"/> A



80. Is the diversion capable of providing the full amount requested through the period of diversion?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
81. Describe the size and configuration of infrastructure to convey water from point of diversion to place of use. This may include, where applicable: ditch capacity and/or pipeline size and configuration. Consultants will follow up with information _____ _____ _____	<input type="checkbox"/> A
82. Describe any losses related to conveyance. _____ _____	<input type="checkbox"/> A
83. Is the conveyance infrastructure capable of providing the required flow and volume and any losses?	<input type="checkbox"/> Y <input type="checkbox"/> N
84. Does the proposed conveyance require easements?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
a. If yes, explain. _____	<input type="checkbox"/> A
85. Describe any places of storage, including whether drainage devices will be installed, and provide preliminary designs, if available. Preliminary designs will be required at application submittal. _____ _____ _____	<input type="checkbox"/> A
86. Describe specific information about how water is delivered within the place of use. This may include, where applicable, the range of flow rates needed for a pivot and output and configuration of sprinkler heads. _____ _____ _____	<input type="checkbox"/> A
87. Is the water delivery system capable of providing the requested beneficial use?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
88. Will your system be designed to discharge water from the project?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, explain the way water will be discharged and the wastewater disposal method. Wastewater is fed to a lagoon _____ _____	<input type="checkbox"/> A



<p>89. Provide a plan of operations.                  Will be provided with application                  _____                  _____                  _____</p>	<input type="checkbox"/> A
<p>90. Can the plan of operations deliver the flow rate and volume for the beneficial use being requested?</p>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
<p>91. Do you have any plans to measure your diversion and use?</p>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
<p>a. If yes, describe the plan and the type of measurements you will take.                  Ongoing measurements will continue to be obtained                  _____                  _____</p>	<input type="checkbox"/> A

*Beneficial Use*

<p>92. Why is the requested flow rate and volume the amount needed for the purpose?                  _____                  _____</p>	<input type="checkbox"/> A
<p>93. Does the Department have a standard for the purposes for which water is used? Department standards can be found in ARM 36.12.112.</p>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
<p>a. If yes, does the proposed beneficial use fall within Department standards?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>94. If no standard, or if proposed beneficial use falls outside of Department standards, explain how the use is reasonable for the purpose.                  _____                  _____                  _____</p>	<input type="checkbox"/> A
<p>95. Will your proposed project be subject to DEQ requirements for a public water supply (PWS) system or Certificate of Subdivision Approval (COSA)?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>a. If yes,</p>	
<p>i. Have you researched or consulted with DEQ regarding those requirements?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>96. Are you proposing to use surface water for in-house domestic use?</p>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
<p>a. If yes, does a COSA exist for the proposed place of use?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>i. If yes, please submit the COSA.</p>	<input type="checkbox"/> S
<p>ii. If no, have you researched or consulted with DEQ regarding their requirements?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N



*Possessory Interest*

<p>97. Do you have possessory interest, or the permission of the party with possessory interest, of the proposed place of use? Proof of possessory interest or permission of the party with possessory interest is required at application submittal.</p>	<p><input type="checkbox"/> Y <input checked="" type="checkbox"/> N</p>
<p>a. If no, explain.                  Municipal purpose from a municipality                  _____                  _____                  _____</p>	<p><input type="checkbox"/> A</p>



RECEIVED

FEB - 3 2025

MONTANA D.N.R.C  
MISSOULA REGIONAL OFFICE

**PREAPPLICATION MEETING AFFIDAVIT & CERTIFICATION**

“We attest that the information on this form accurately describes the proposed project discussed during the preapplication meeting and that the items marked for follow-up will require the applicant to provide additional information before the form is deemed complete.”

“Applicant acknowledges that any information provided by the Department during the preapplication is preliminary and subject to change.”

“Applicant acknowledges that if the follow-up information provided to the Department substantially changes the proposed project, for example in a way that alters which sections of the form are applicable or which technical analyses are required, or who is to complete the technical analyses, the applicant will need to schedule a new preapplication meeting so that the department can identify any additional information necessary for completion of the technical analyses (ARM 36.12.1302(3)(c)).”

Upon Department receipt of the completed form (within 180 days following the meeting), the Department reserves the first five days of the 45-day period in ARM 36.12.1302(4) or (5) to return the form to the applicant if:

- 1 – the completed form does not include all necessary follow-up information identified in the meeting, OR
- 2 – the completed form is not adequate for the Department to proceed with technical analyses, OR
- 3 – the applicant has elected to complete technical analyses and has not submitted each piece of technical analysis required, OR
- 4 – the applicant has substantially changed the details of the proposed project, such as in a way that alters which sections of the form are applicable, which technical analyses are required, or who is to complete the technical analyses.

If the Department returns the form to the Applicant within these five days due to reasons 1-3 above, the Applicant can use the balance of their 180-day period in ARM 36.12.1302(4) or (5) to gather the remaining follow-up information needed. If there is no time remaining in the 180-day period, the Applicant can submit a written request for a new preapplication meeting, pursuant to ARM 36.12.1302(2). Even if there is still time remaining, the Applicant can choose to schedule a new preapplication meeting. The Department shall transfer the \$500 payment received to the new preapplication meeting, or refund the payment to the Applicant if the Applicant desires. If the Department returns the form to the Applicant within these five days due to reason (4) above, the Applicant must submit a written request for a new preapplication meeting, pursuant to ARM 36.12.1302(2). The Department shall transfer the \$500 payment received to the new preapplication meeting, or refund the payment to the Applicant if the Applicant desires.

*[Handwritten Signature]*  
Applicant Signature

*1/31/25*  
Date

Applicant Signature

Date

*Jim Name*

1/21/2025

Department Signature

Date







RECEIVED

JUL 16 2025

MONTANA D.N.R.C  
MISSOULA REGIONAL OFFICE

**FOLLOW-UP PAGE AFFIDAVIT & CERTIFICATION**

"I/we attest that this preapplication meeting form, follow-up page, and amended responses page accurately portray my proposed project. I am aware that my application for this project will not qualify for a discounted filing fee and expedited timelines if upon submittal of the application to the department, I change any element of the proposed application from the preapplication meeting form and follow-up materials (ARM 36.12.1302(6)(a))."

*[Handwritten Signature]* Mayor of Alberton *7/16/25*  
Applicant Signature Date

Applicant Signature Date

"We confirm that the preapplication form and follow-up information are adequate for the Department to proceed with technical analyses in ARM 36.12.1303. Or, if the applicant has elected to complete technical analyses, we confirm they have submitted each piece of technical analysis required based on the proposed project and the Department is able to proceed with the scientific credibility review (ARM 36.12.1303(8))."

*[Handwritten Signature]* *7/16/25*  
Department Signature Date

Department Signature Date



## PHONE CALL MEMORANDUM

**TO:** Permit Application File 76M 30165209  
**CC:**  
**FROM:** Alex Dagleish, Missoula Regional Office  
**DATE:** June 30, 2025  
**SUBJECT:** Permit Application 76M 30165209

---

As submitted in the follow up information, the flow data included measurements taken every 5 minutes throughout the entire 2024 year. This correlates to a substantial amount of data.

The follow up information stated that data values above 67 GPM and values below 1 GPM were removed from the data set. Additionally, within those parameters (above 67 GPM and below 1GPM), the two highest values were pulled for each month.

On June 30, 2025, I spoke with the Applicant's consultants (Christina Eggensperger and Patrick Thompson of WET) as I wanted to understand the following:

- 1) Why were values above 67 GPM and those below 1 GPM not considered.
- 2) If the flow data submitted to the Department included the flow rate (50 GPM) for existing Statement of Claim 76M 45355 00.
- 3) Determine where the flow meter is in relation to the spring source.
- 4) Inquire about the follow up signature page from the Town of Alberton. The Department has not received it yet.

1) Values above 67 GPM were removed from the dataset because the system has head pressure. So when the inline flow meter valve opens, there is an abnormally high value recorded in the data. These higher values are not representative of the spring's flow rate. Additionally, those datasets below 1 GPM were also removed as they did not represent the water available from the spring.

2) The flow data does include the 50 GPM under Statement of Claim 76M 45355 00. I informed Pat and Christina that with the data representing a maximum flow of 67 GPM physically available from the spring, the requested flow rate of 20 GPM would not be attainable under this permit (50 CFS + 20 CFS = 70 CFS and the spring only produces 67 GPM). Rather, a flow rate of approximately 17 GPM would be authorized under the new permit if approved.

3) In a follow up email on the same day as our call, Pat provided a spring schematic/diagram. Based on this drawing, from the spring, a water line runs downgradient to a chlorine shed and then to an adjacent storage tank. An altitude valve and flow meter are in the chlorine shed. When the storage tank is full, the altitude valve closes, and water backs up to the lowest spring box and drains out. Water drains out when the system and storage tank are full.

4) Christina has been trying to contact Applicant to inform them that they still need to submit the signature follow up page. I informed her the Department needs the signature page by 7/20/2025 (180 days from 1/21/2025 preapplication meeting date).

**From:** [Dagleish, Alex](#)  
**To:** [Pat Thomson](#)  
**Cc:** [Christina Eggensperger](#)  
**Subject:** RE: Spring Schematic  
**Date:** Monday, June 30, 2025 4:12:00 PM  
**Attachments:** [image002.png](#)  
[image003.png](#)

---

Hey Pat,

No problem. I appreciate you promptly sending this diagram to me.

Best,



**Alex Dagleish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C  
**DESK:** 406-542-5886 **EMAIL:** [alexander.dagleish@mt.gov](mailto:alexander.dagleish@mt.gov)  
[Website](#) | [Facebook](#) | [X \(Twitter\)](#) | [Instagram](#)  
**How did we do? Let us know here:** [Feedback Survey](#)

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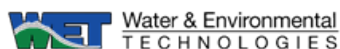
**From:** Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>  
**Sent:** Monday, June 30, 2025 4:03 PM  
**To:** Dagleish, Alex <[Alexander.Dagleish@mt.gov](mailto:Alexander.Dagleish@mt.gov)>  
**Cc:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>  
**Subject:** [EXTERNAL] Spring Schematic

Hey Alex,

Thanks for the help on the permitting. As discussed, the city's files are a bit thin, however, the attached was provided as a flow chart for the spring source to the holding tank.

Let us know if you need any additional info.

Thanks,  
Pat

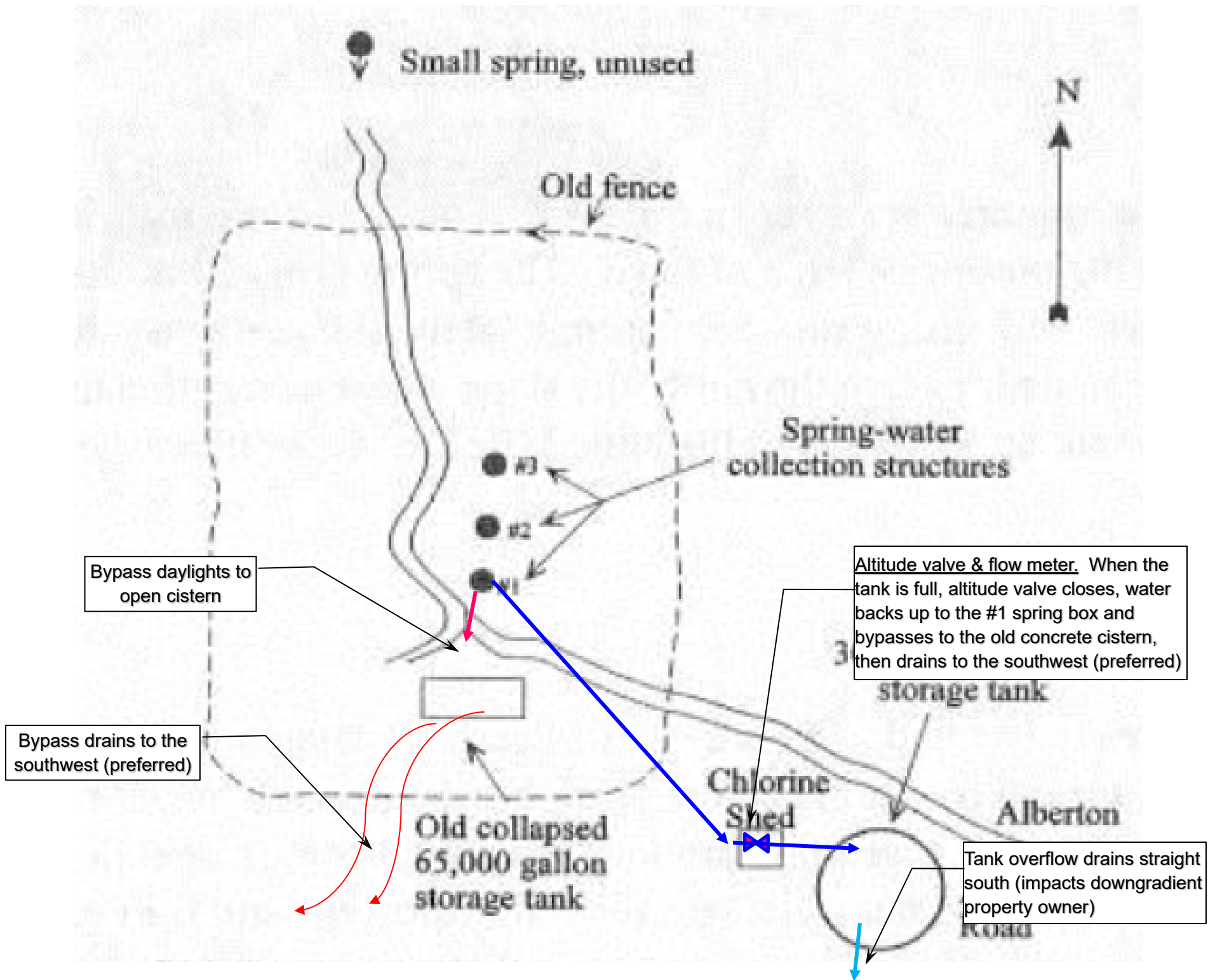


**Patrick J. Thomson, PG**  
Senior Hydrogeologist

P: (406) 723-1532

C: (406) 490-0329

[waterenvtech.com](http://waterenvtech.com) [[waterenvtech.com](http://waterenvtech.com)]



Small spring, unused

Old fence

Spring-water collection structures

#3

#2

#1

Bypass daylight to open cistern

Bypass drains to the southwest (preferred)

Old collapsed 65,000 gallon storage tank

Chlorine Shed

Alberton

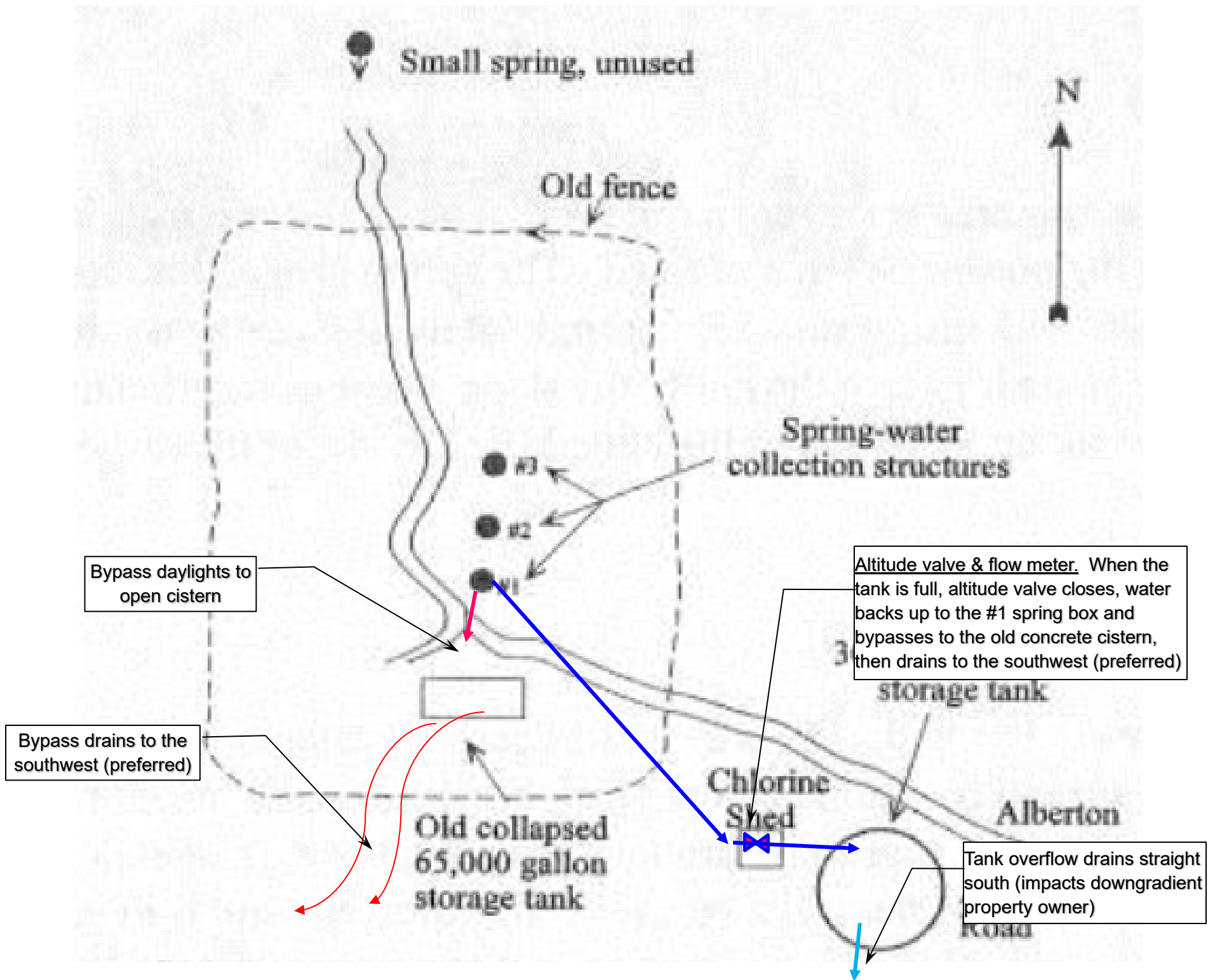
Altitude valve & flow meter. When the tank is full, altitude valve closes, water backs up to the #1 spring box and bypasses to the old concrete cistern, then drains to the southwest (preferred)

storage tank

Tank overflow drains straight south (impacts downgradient property owner)

Road





Small spring, unused

Old fence

Spring-water collection structures

#3

#2

#1

Bypass daylight to open cistern

Bypass drains to the southwest (preferred)

Old collapsed 65,000 gallon storage tank

Chlorine Shed

Alberton

Altitude valve & flow meter. When the tank is full, altitude valve closes, water backs up to the #1 spring box and bypasses to the old concrete cistern, then drains to the southwest (preferred)

storage tank

Tank overflow drains straight south (impacts downgradient property owner)

ROAD





June 10, 2025

DNRC  
Water Resources Division  
Attn: Alex Dalglish  
2705 Spurgin Road, Bldg. C  
PO Box 5004  
Missoula, MT 59806-5004

Subject: Follow-up Responses for Beneficial Water Use  
Permit Application No. 30165209

Alex,

The attached information is provided as amendment of Preapplication Form 600P in response to the preapplication meeting held January 31, 2025. This information includes a figure depicting site features, flow measurements, and flowmeter specifications.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Patrick Thomson'.

Patrick Thomson, PG

A handwritten signature in black ink, appearing to read 'Christina Eggensperger'.

Christina Eggensperger, MS, EIT

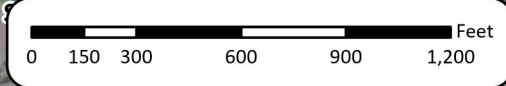
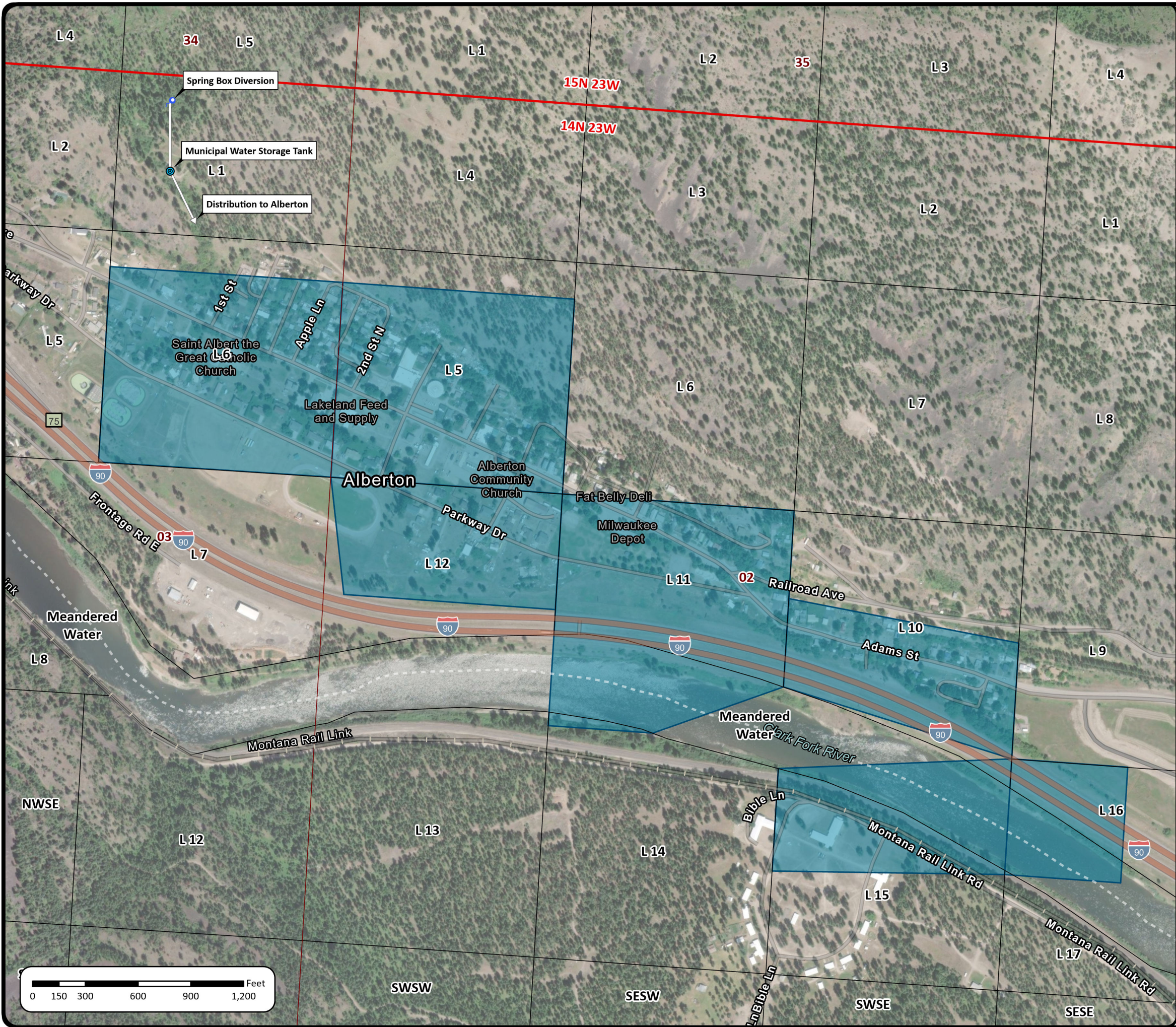
Enclosures

## Form 600-P - Follow-Up Items

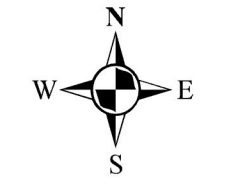
### Questions Marked for Follow-Up:

<u>Questions, Narrative, Responses, and Tables</u>	<u>Response</u>
2. Provide a map created on an aerial photograph or topographic map that shows the following: section corners, township and range, a north arrow, all proposed points of diversion labeled with a unique POD ID number, all proposed places of use, all proposed conveyance structures, all proposed places of storage, and places of use for all overlapping water rights.	Attached
20.b.i. If no gage data is available or if available gage data does not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion, is the source otherwise measured? If yes, Submit available measurements to the Department. Submit with Pre app form.	Attached
20.b.7. Is there a process for maintaining the data and meeting specified accuracy limits? If yes, explain.	Attached

## Site Map



- Spring
- Water Storage Tank
- Water Line (Approximate Location)
- PLSS Township & Range
- PLSS First Division
- PLSS Second Division
- 76M 45355 00 and 76M 13904 00 Place of Use



NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/25	LG	CE
2	ADD TANK AND WATER LINE	5/28/25	LG	CE
3	ADD WATER RIGHTS	6/2/25	EL	CE
4				
5				

NOTES

SPRING LOCATION  
 ALBERTON, MINERAL COUNTY, MT  
 JOB#: AMCEM01  
 DATE: 6/2/2025  
**FIGURE 1**  
 Path: M:\AMCEM01\GIS\WaterRight\WaterRight.aprx, Author: ealhey



### Flow Measurements

The following depicts the method used to arrive with the two monthly flow measurements.

1. High (above 67 gpm) and low (below 1 gpm) outliers were removed from the dataset.
2. The maximum value (selected within the open-flow period of the altitude valve) was pulled for each day.
3. The two highest values were pulled for each month.

Month	Flow Rates
January	66.91000366
	66.88999939
February	66.65000153
	66.58000183
March	66.93000031
	66.93000031
April	66.68000031
	66.44000244
May	66.98000336
	66.91000366
June	65.87999725
	64.93000031
July	63.45000076
	62.50999832
August	64.05999756
	61
September	60.88999939
	60.34999847
October	65.94000244
	65.66999817
November	65.16000366
	65.05999756
December	65.75
	65.43000031

## **Flowmeter Specifications**



### Ultra Mag® Sensor



### ProComm Converter



Ultra Mag models UM06 and UM08 flanged tube flow meters are manufactured to the highest standard available for mag meters.

The flanged end tube design permits use in a wide range of applications with up to 300 PSI working pressure.

The fabricated tube is stainless steel with steel or stainless steel flanges and is lined with UltraLiner™, an NSF approved, fusion bonded epoxy material.

### INSTALLATION

Ultra Mag flow meter installation is similar to placing a short length of flanged end pipe in the line. The meter can be installed vertically, horizontally, or inclined on suction or discharge lines. The meter must have a full pipe of liquid for proper operation. Fluid must be grounded to the downstream flange of the sensor either via internal grounding electrodes (4 - 12") or using McCrometer 316 SS grounding rings.

For best performance, grounding rings are recommended for all sizes. Any 90 or 45 degree elbows, valves, partially opened valves, etc. should not be placed closer than one pipe diameters upstream and zero pipe diameters downstream.

All blending and chemical injection should be done early enough so the flow media is thoroughly mixed prior to entering the measurement area.

### PROCOMM CONVERTER

The signal converter is the reporting, input and output control device for the sensor. The converter allows the measurements, functional programming, control of the sensor and data recording to be communicated through the display and inputs/outputs.

The microprocessor-based signal converter has a curve-fitting algorithm to improve accuracy, dual 4-20mA analog outputs, an optional RS485 communication port, an 8 line graphical backlit LCD display with 6-key touch programming, and a rugged enclosure that meets IP67.

In addition to a menu-driven self-diagnostic test mode, the converter continually monitors the microprocessor's functionality. The converter will output rate of flow and total volume. The converter also comes standard with password protection and many more features.

### AVAILABLE ULTRA MAG FLANGED MODELS

#### UM06

Steel AWWA Class "D" flat face flanges (150 PSI)

#### UM08 2", 3", AND ≥14"

Steel AWWA Class "F" raised face flanges (300 PSI)

#### UM08 4" TO 12"

Steel ANSI 300 lb. Raised Face Flanges

### PERFORMANCE ADVANTAGES

- Needs only 1 pipe diameter upstream of most flow disturbers
- No obstruction to the flow
- No moving parts to wear or break
- Maintenance free
- Worry-free accurate measurement
- Debris or solids will not clog the meter
- No head loss
- Bi-directional flow
- Empty pipe detection
- Unaffected by changes in density and viscosity
- No risk of liner delamination or separation
- Wide flow range
- Separated power and signal cables

### TYPICAL APPLICATIONS

#### Industrial

Raw Water	Process Control
Chilled Water	Effluent Wastewater
Cooling Water	

#### Clean Water

Well Water	Rate-of-Flow Control
Potable Water	Raw Water Transmission
Pump Stations	

#### Wastewater

Influent	Waste Activated
Effluent	Sludge
Reclaimed	Return Activated
Lift Stations	Sludge

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### Ultra Mag Part Number Matrix

UM		-	-	-	-	-	-	-	-	-	-
SINGLE DIRECTION/DIRECTIONAL											
150 PSI Service Pressure		06									
300 PSI Service Pressure		08									
NOMINAL LINE SIZE											
2 in		02									
3 in		03									
4 in		04									
6 in		06									
8 in		08									
10 in		10									
12 in		12									
14 in		14									
16 in		16									
18 in		18									
20 in		20									
24 in		24									
30 in		30									
36 in		36									
42 in		42									
48 in		48									
END CONNECTION OPTIONS											
AWWA Flat Face Flanges (Class D or F)		W									
ANSI Raised Face Flanges (150# or 300#)		A									
ELECTRODE MATERIAL OPTIONS											
S316 Stainless Steel (Standard)		S									
Hastelloy		H									
CONVERTER MOUNTING AND CABLE CONNECTOR OPTIONS											
Strain Relief [Remote Mount (Standard)]		R									
Quick Connect [Remote Mount]		Q									
Meter Mount Converter		M									
REMOTE CABLE LENGTH OPTIONS											
25 feet (Standard)		025									
50 feet		050									
75 feet		075									
100 feet		100									
125 feet		125									
150 feet		150									
175 feet		175									
200 feet		200									
500 feet		500									
Custom Length Cable [User Specified]		CST									
Meter Mount Converter [No Remote Cable]		000									
CONVERTER POWER OPTIONS											
AC Power		A									
DC Power		D									
Battery Power [25ft remote cable max]		B									
CONVERTER OUTPUT OPTIONS											
Dual 4-20mA Analog, Dual Digital (Standard)		1									
Modbus + STD (Two 4-20, two Dig)		2									
Hart + STD (Two 4-20, two Dig)		3									
Datalogger/BIV + STD (Two 4-20, two Dig)		4									
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)		5									
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)		6									
AMI Smart Output + STD (Two 4-20, two Dig)		7*									
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)		8*									
AMI Smart Output + Dig Out + Datalogger (Battery power only)		9*									
Digital Out + Datalogger (Standard Battery Power only)		0									
SMART OUTPUT PROTOCOL OPTIONS (*7 OR 8 OUTPUT OPTION REQUIRED)											
No AMI Outputs		-									
Sensus Protocol (6ft cable, Nicor Connector hardwired only)		SEN									
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)		ITR6									
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)		ITR9									
NON STANDARD LENGTH OPTIONS											
McCrometer Length (Standard)		-									
Competitor Meter Replacement Length		\$									
Special Length [Customer Specified]		XL									



# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### ISOLATED POWER AND SIGNAL


The power and signal between the converter and sensor are isolated and placed in separate cables giving superior resistance to electrical signal noise compared to single cable designs. An added benefit from the dual cable design is a maximum cable length of up to 500ft.

### FLOW METER SPECIFICATIONS

<b>Pipe Sizes</b>	
2", 3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"	
<b>Flow Direction Measurement</b>	
Forward and reverse flow indication and forward, reverse, net totalization are standard with all meters	
<b>Accuracy</b>	
Plus or minus 0.5% of actual flow (battery powered is $\pm 1\%$ of flow) <b>IMPORTANT NOTICE ON FLOW METER ACCURACY:</b> The flow meter, the cable and the electronics are factory calibrated for accuracy as a single unit. Changing the cable length with the Splice Kit changes the accuracy of the meter and invalidates the calibration certificate.	
<b>Accuracy Tests</b>	
5-point wet flow calibration of every complete flow tube with its signal converter. If desired, the tests can be witnessed by the customer. The McCrometer test facilities are traceable to the National Institute of Standards & Technology. Uncertainty relative to flow is $\pm 0.15\%$	
<b>Repeatability</b>	
$\pm 0.05\%$ or $\pm 0.0008\text{ft/s}$ ( $\pm 0.25\text{mm/s}$ ), whichever is greater	
<b>Conductivity</b>	
5 $\mu\text{s/cm}$	
<b>Liner</b>	
UltraLiner NSF approved, fusion bonded epoxy	
<b>Electrodes</b>	
Type 316 stainless steel, others optional	
<b>Electrical Connections</b>	
<ul style="list-style-type: none"> <li>• Compression gland seals</li> <li>• Quick-Connect</li> </ul>	
<b>IP Rating</b>	
<b>Standard model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (NEMA 6P/IP68 with remote converter)</li> <li>• Compression gland seals (NEMA 6P/IP68 with remote converter)</li> </ul>
<b>HL model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (IP67)</li> <li>• Compression gland seals (IP67)</li> </ul>
<b>Sensor Submersibility Depth</b>	
<b>With standard strain relief cable</b>	9 m (30 ft.)
<b>With optional quick connect cable</b>	1.8 m (6 ft.)

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

<b>Head Loss</b>	
None. No obstruction in line and no moving parts	
<b>Warranty</b>	
<b>Meter</b>	2 year warranty
<b>Liner</b>	Lifetime guarantee
<b>Pressure Range</b>	
150 PSI maximum working pressure (UM06); 300 PSI maximum working pressure (UM08)	
<b>Velocity Range</b>	
.2 to 32 FPS	
<b>Temperature Range</b>	
Sensor Operating: -10 to 60°C (14 to 140°F) Sensor Storage: -15 to 60°C (5 to 140° F)	
<b>Certifications and Approvals</b>	
<b>Standard Model</b>	<ul style="list-style-type: none"> <li>ISO 9001:2015 certified quality management system</li> <li>Certified by MET to UL 61010-1</li> </ul>
<b>HL Model</b>	<ul style="list-style-type: none"> <li>ISO 9001:2015 certified quality management system</li> <li>Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04                             <ul style="list-style-type: none"> <li>Class I, Division 2, Groups A-D, T5</li> <li>Class I, Zone 2, IIC T5</li> </ul> </li> </ul>
	
<b>System Options</b>	
<ul style="list-style-type: none"> <li>Hastelloy® electrodes</li> <li>Additional sensor cable up to 475'</li> <li>Annual verification / calibration</li> <li>Stainless steel ID tag</li> </ul>	
<b>Meter Options</b>	
<ul style="list-style-type: none"> <li>DC powered converter (10-35 VDC, 21 W)</li> <li>Meter mounted converter</li> <li>Extended warranty</li> <li>Hastelloy® electrodes</li> <li>ANSI or DIN flanges</li> <li>Quick Connect cable fittings</li> <li>Special lay lengths, including ISO standard lay lengths</li> </ul>	<ul style="list-style-type: none"> <li>Converter sun shield</li> <li>HART® Converter</li> <li>Smart Output™ (Sensus or Itron compatible)</li> <li>Battery or battery-solar powered converter (Not MET approved, ±1% accuracy)</li> </ul>



# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### PROCOMM CONVERTER PART NUMBER MATRIX

PC -					
<b>CONVERTER MOUNTING OPTIONS</b>					
Remote Mount	R				
Meter Mount	M				
<b>CONVERTER POWER OPTIONS</b>					
AC Power	A				
DC Power	D				
Battery Power [25ft remote cable max]	B				
<b>CONVERTER OUTPUT OPTIONS</b>					
Dual 4-20mA Analog, Dual Digital (Standard)		1			
Modbus + STD (Two 4-20, two Dig)		2			
Hart + STD (Two 4-20, two Dig)		3			
Datalogger/BIV + STD (Two 4-20, two Dig)		4			
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)		5			
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)		6			
AMI Smart Output + STD (Two 4-20, two Dig)		7*			
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)		8*			
AMI Smart Output + Dig Out + Datalogger (Battery power only)		9*			
Digital Out + Datalogger (Standard Battery Power only)		0			
<b>SMART OUTPUT PROTOCOL OPTIONS (*7, 8, OR 9 OUTPUT OPTION REQUIRED)</b>					
No AMI Outputs				-	
Sensus Protocol (6ft cable, Nicor Connector hardwired only)				SEN	
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)				ITR6	
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)				ITR9	

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### PROCOMM CONVERTER SPECIFICATIONS

<b>Power Source</b>		
<b>AC</b>	100-240 VAC / 45-66 Hz (10 W) *	* AC or DC must be specified at time of ordering.
<b>DC</b>	10-35 VDC (10 W) *	
<b>Standard Outputs</b>		
Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability)		
Two separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings.		
<ul style="list-style-type: none"> <li>• Volumetric Pulse</li> <li>• Flow Rate (Frequency)</li> <li>• Hardware Alarm</li> <li>• High/Low Flow Alarms</li> <li>• Empty Pipe</li> <li>• Directional Indication</li> </ul>	<ul style="list-style-type: none"> <li>• Range Indication</li> <li>• Maximum switching voltage: 40 VDC</li> <li>• Maximum switching current: 100mA</li> </ul>	<ul style="list-style-type: none"> <li>• Maximum switching frequency: 1250 Hz</li> <li>• Insulation from other secondary circuits: 500V</li> </ul>
<b>Optional Outputs</b>		
<ul style="list-style-type: none"> <li>• Modbus</li> <li>• HART</li> </ul>	<ul style="list-style-type: none"> <li>• Smart Output™ (Sensus, Itron 6, Itron 9)</li> </ul>	<ul style="list-style-type: none"> <li>• Datalogger</li> <li>• Built-in verification</li> </ul>
<b>Galvanic Isolation</b>		
All inputs / outputs are galvanically isolated from power supply up to 500 V		
<b>Engineering Units</b>		
<ul style="list-style-type: none"> <li>• Cubic Meter</li> <li>• Cubic Centimeter</li> <li>• Milliliter</li> <li>• Liter</li> <li>• Cubic Decimeter</li> <li>• Decaliter</li> <li>• Hectoliter</li> <li>• Cubic Inches</li> </ul>	<ul style="list-style-type: none"> <li>• US Gallons</li> <li>• Imperial Gallons</li> <li>• Cubic Feet</li> <li>• Kilo Cubic Feet</li> <li>• Standard Barrel</li> <li>• Oil Barrel</li> <li>• US Kilogallon</li> <li>• Ten Thousands of Gallons</li> </ul>	<ul style="list-style-type: none"> <li>• Imperial Kilogallon</li> <li>• Acre Feet</li> <li>• Megagallon</li> <li>• Imperial Megagallon</li> <li>• Hundred Cubic Feet</li> <li>• Megaliters</li> </ul>
<b>Conductivity</b>		
Minimum conductivity of 5µS/cm		
<b>Electrical Connections</b>		
<b>Connection options</b>	<ul style="list-style-type: none"> <li>• Compression gland seals for 0.24" to 0.47" diameter round cable</li> <li>• Conduit option: 1/2" NPT threaded connections</li> </ul>	
<b>Sensor Cable Lengths</b>		
<b>Standard</b>	25' McCrometer supplied submersible cable with each remote mount unit.	
<b>Optional</b>	Up to 500 feet, or 25 feet max for battery powered.	
<b>Quick Connect</b>	Available in standard cable lengths: 25', 50', 75', 100', 125', 150', 175', 200', and 500'. Custom cable lengths at additional cost.	
<b>IP Rating</b>		
IP67 Die cast aluminum converter (only when connected using compression gland seals)		

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### Certifications and Approvals

<b>Standard Model</b>	<ul style="list-style-type: none"> <li>• ISO 9001:2015 certified quality management system</li> <li>• CE</li> <li>• Certified by MET to UL 61010-1</li> </ul>
<b>HL Model</b>	<ul style="list-style-type: none"> <li>• ISO 9001:2015 certified quality management system</li> <li>• CE</li> <li>• Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04               <ul style="list-style-type: none"> <li>• Class I, Division 2, Groups A-D, T5</li> <li>• Class I, Zone 2 IIC T5</li> </ul> </li> </ul>



### System Options

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Hastelloy® electrodes</li> <li>• DC power</li> <li>• Additional sensor cable up to 475' (500' max for model 395 and 200' max for model 394)</li> </ul> | <ul style="list-style-type: none"> <li>• Extension to hardware clearance</li> <li>• Annual verification / calibration</li> <li>• Sensor insertion tool</li> <li>• Stainless steel ID tag</li> </ul> |
|---|---|

### Temperature Range

**Operating and storage**     -20° to 60° C (-4° to 140° F)

### Converter Dimensions

- |                     |   |
|---------------------|---|
| <b>Remote mount</b> | <ul style="list-style-type: none"> <li>• Height: 7.3" (18.5 cm)</li> <li>• Width: 8.5" (21.6 cm)</li> <li>• Depth: 4.3" (10.9 cm)</li> </ul>  |
| <b>Meter mount</b>  | <ul style="list-style-type: none"> <li>• Height: 6.9" (17.5 cm)</li> <li>• Width: 7.2" (18.25 cm)</li> <li>• Depth: 6.2" (15.7 cm)</li> </ul> |

### Keypad and Display

Can be used to access and change set-up parameters using six membrane keys and an LCD display

**Note regarding cable length:** McCrometer recommends minimizing cable length. Electromagnetic flow meters may have unfavorable signal strength to noise ratio in electrically noisy environments. Longer lengths of cable increase the likelihood of interference. In those cases where the meter's signal must be transmitted a long distance, or where the environment may be particularly noisy, we suggest using the converter's analog output(s). That allows locating the converter as close as possible to the metering location.

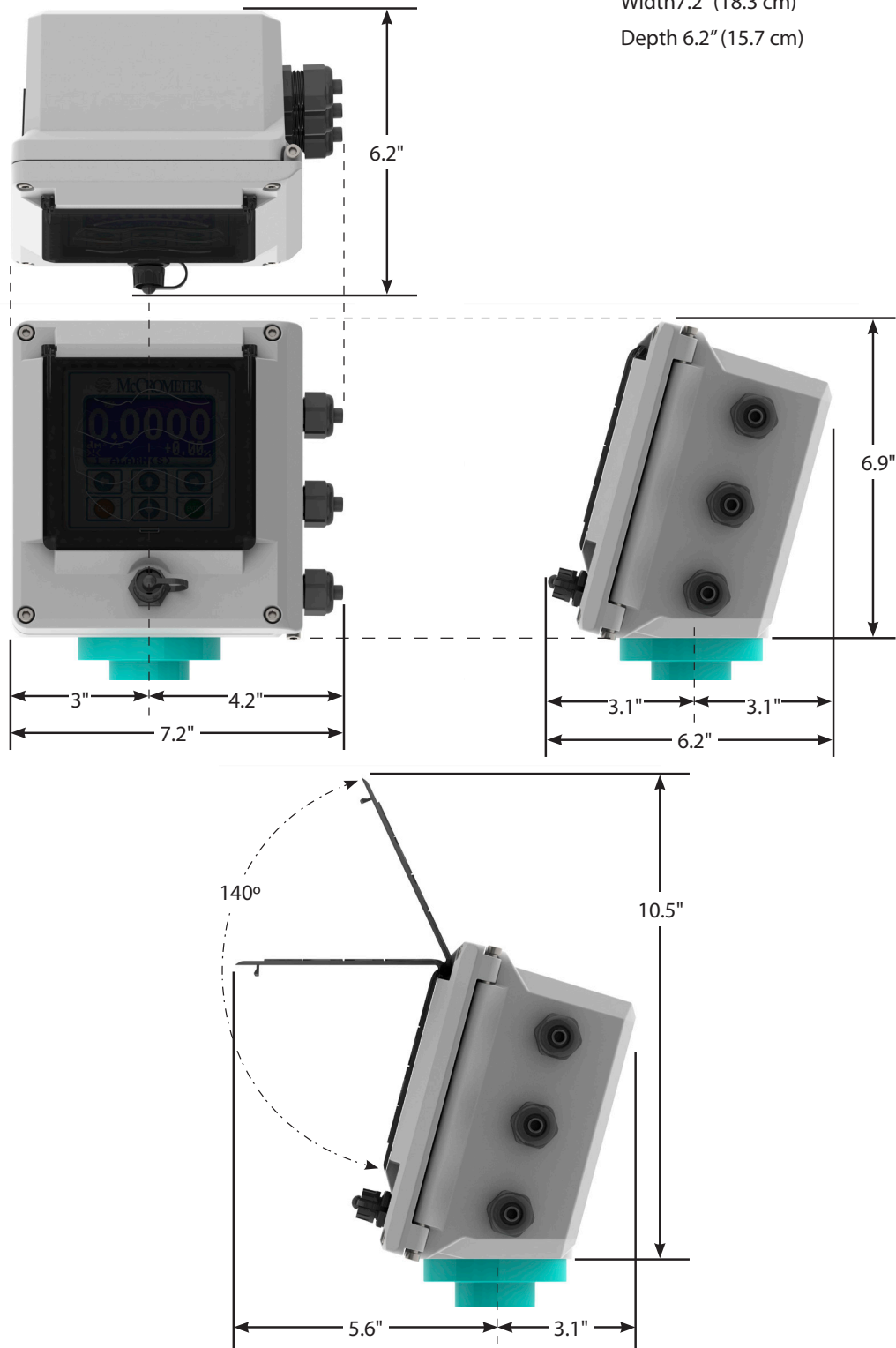
# Specification Sheet Ultra Mag Flow Meter with ProComm Converter

## METER MOUNT CONVERTER DIMENSIONS

Height 6.9" (20.1 cm)

Width 7.2" (18.3 cm)

Depth 6.2" (15.7 cm)



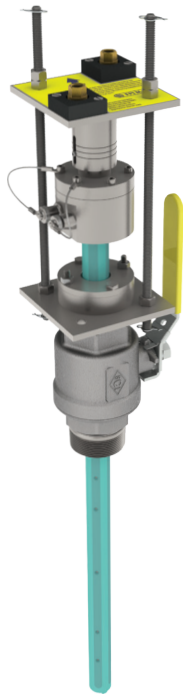
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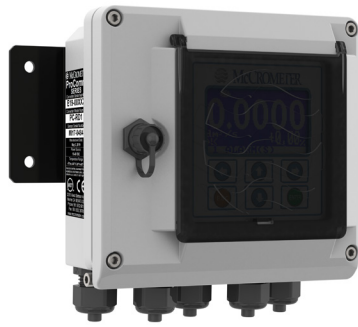




## FPI Mag® Sensor



## ProComm® Converter



The FPI Mag® (Full Profile Insertion) electromagnetic flow meter is the only hot tap full profile insertion flow meter available on the market. The FPI Mag installs without service interruption making it ideal for retrofits, upgrades and maintenance projects and sites never metered before. The hot tap installation significantly reduces installation time eliminating the need to de-water lines or cut pipe.

The multi-electrode sensor delivers an accurate measurement of the full pipe profile rivaling the performance of a full-bore mag meter. The repeatable, stable measurement across the entire flow profile compensates for variable flow profiles, including swirl and turbulent conditions.

The FPI Mag is the industry's most economical flow metering solution offering unbeatable value in the cost of installation and ownership reducing installed costs by more than 45 percent in medium and large line sizes. The compact insertion design fits in confined spaces and offers complete accessibility. The flow meter can be removed in pipes under pressure for easy inspection, cleaning, calibrating, or verification. Installation costs are reduced by eliminating the need for heavy equipment and extensive manpower.

The innovative flow meter comes pre-calibrated from McCrometer's NIST traceable calibration labs and requires no recalibration in the field. With no moving parts and a single-piece design, the FPI Mag's sensor contains nothing to wear or break and is generally immune to clogging by sand, grit, or other debris. The electrodes are encased in a heavy-duty 316 stainless steel sensor body for maximum structural integrity and coated with a NSF certified 3M™ fusion-bonded epoxy coating for operational longevity.

## MUNICIPAL WATER AND WASTEWATER

The FPI Mag Full Profile Insertion mag meter supports the following water and wastewater treatment applications:

**Water**

- Distribution
- Effluent
- Filter balancing and backwash
- Pumping stations
- UV dosing
- Wells and booster stations

**Wastewater**

- Effluent
- Recycle / reclaim

The FPI Mag is ideal for chilled water in campus style facilities, hospitals, airports, hotels, casinos, etc.

## INDUSTRIAL FACILITIES

The FPI Mag is also suitable for a variety of industrial facilities: power plants (including cogeneration), paper mills, chemical & petrochemical plants, metals & mining, and food & beverage.

**Applications Include**

- Cooling water
- Fire water
- Feed water
- Raw water
- Inlet to surge basin
- Effluent wastewater

**Benefits:**

- **Hot Tap Installation** - No service interruption
- **Accurate** – Measures the full flow profile
- **Lower Cost** – Installed savings more than 45%
- **Robust** – No moving parts to wear or break
- **Versatile** – Great for plant maintenance, upgrades and retrofits
- **Accessible** – Insertion design provides easy access
- **Virtually No Maintenance** – No field calibration required



**FPI MAG PART NUMBER MATRIX**

<b>39</b>		-	-	-	-	-	-	-	-	-	-
<b>SINGLE DIRECTION / BIDIRECTIONAL</b>											
→	<b>394 - Bidirectional</b>	<b>4</b>									
	<b>395 - Single Direction</b>	<b>5</b>									
<b>STOCK BODY OR CUSTOM LENGTH</b>											
→	<b>Stock Body Length (4-24")</b>	<b>S</b>									
	<b>Custom Body Length</b>	<b>C</b>									
<b>NOMINAL LINE SIZE</b>											
	4 in	<b>004</b>									
	6 in	<b>006</b>									
→	<b>8 in</b>	<b>008</b>									
	10 in	<b>010</b>									
	12 in	<b>012</b>									
	14 in	<b>014</b>									
	16 in	<b>016</b>									
	18 in	<b>018</b>									
	20 in	<b>020</b>									
	22 in	<b>022</b>									
	24 in	<b>024</b>									
	30 in	<b>030</b>									
	36 in	<b>036</b>									
	42 in	<b>042</b>									
	48 in	<b>048</b>									
	54 in	<b>054</b>									
	60 in	<b>060</b>									
	66 in	<b>066</b>									
	72 in	<b>072</b>									
<b>Contact Factory for Larger Line Sized</b>		<b>Larger</b>									
<b>ELECTRODE MATERIAL OPTIONS</b>											
→	<b>S316 Stainless Steel (Standard)</b>	<b>S</b>									
	<b>Hastelloy</b>	<b>H</b>									
<b>CABLE CONNECTOR OPTIONS</b>											
→	<b>Quick Connect (Standard)</b>	<b>Q</b>									
	<b>Strain Relief</b>	<b>R</b>									
<b>REMOTE CABLE LENGTH OPTIONS</b>											
→	<b>25 feet (Standard) *</b>	<b>025</b>									
	50 feet	<b>050</b>									
	75 feet	<b>075</b>									
	100 feet	<b>100</b>									
	125 feet	<b>125</b>									
	150 feet	<b>150</b>									
	175 feet	<b>175</b>									
	200 feet *	<b>200</b>									
	500 feet *	<b>500</b>									
<b>Custom Length Cable [User Specified]</b>		<b>CST</b>									

\* Maximum cable lengths:  
 Battery powered converter cable: 25 feet  
 Model 394: 200 feet  
 Model 395: 500 feet

continued next page



FPI Mag Flow Meter with ProComm Converter

CONVERTER POWER OPTIONS	
AC Power	A
DC Power	D
Battery Power [25ft remote cable max]	B
Solar Power, Battery Backup [25ft remote cable max]	S
CONVERTER OUTPUT OPTIONS	
Dual 4-20mA Analog, Dual Digital (Standard)	1
Modbus + STD (Two 4-20, two Dig)	2
Hart + STD (Two 4-20, two Dig)	3
Datalogger/BIV + STD (Two 4-20, two Dig)	4
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)	5
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)	6
AMI Smart Output + STD (Two 4-20, two Dig)	7
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)	8
AMI Smart Output + Dig Out + Datalogger (Battery power only)	9
Digital Out + Datalogger (Standard Battery Power only)	0
BALL VALVE OPTIONS	
2" NPT SS Ball Valve	N
2" BSP Brass Ball Valve	B
No Valve, NPT Hardware	X
No Valve, BSP Hardware	Y
SMART OUTPUT PROTOCOL OPTIONS*	
No AMI Outputs	-
Sensus Protocol (6ft cable, Nicor Connector hardwired only)	SEN
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR6
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR9
HAZARDOUS LOCATION	
Class I, Division 2, Groups A-D, T5	HL

\* Smart Output protocol options require selection of converter output option 7, 8, or 9.



## FLOW METER SPECIFICATIONS

The full pipe averaging flow meter comes complete with Mounting Hardware, AC Converter with Dual 4-20mA output, 25 Feet of Dual Submersible Cables with quick connects at sensor, Stainless Steel Body, 316 Stainless Steel Electrodes, NSF Approved Fusion Bonded Epoxy Coating, 2" Stainless Steel Ball Valve (minimum of 1-7/8" port I.D.), 2" x Close Stainless Steel Nipple, 2-Year Warranty.

### Measurement

Volumetric flow in filled flow conduits 4" (100 mm) to 138" (3,500 mm) utilizing insertable electromagnetic averaging sensor. Flow indication in English Standard or Metric units.

### Flow Measurement

<b>Method</b>	Electromagnetic
<b>Calibrated accuracy for forward and bidirectional sensors</b>	<ul style="list-style-type: none"> <li>• <math>\pm 0.5\%</math> from 1 f/s to max velocity (on next page), up to <math>\pm 1\%</math> for 0.3 to 1 f/s</li> <li>• <math>\pm 1\%</math> for reverse flow</li> </ul>
<b>Linearity</b>	0.3% of Range
<b>Repeatability</b>	0.2% of Reading
<b>Direction measurement</b>	<ul style="list-style-type: none"> <li>• 395 sensor - Forward flow measurement and reverse flow indication</li> <li>• 394 sensor - bidirectional flow measurement</li> </ul>

### Materials

<b>Coating</b>	Fusion bonded epoxy (NSF 61 approved) coated 316 stainless steel
<b>Insertion hardware</b>	316 Stainless Steel
<b>Compression seal</b>	Silicone Rubber
<b>Sensor electrodes</b>	316 Stainless Steel

### Temperature Range

<b>Operation</b>	-10 to 60°C (14 to 140°F) up to 250 PSI
<b>Storage</b>	-15 to 60°C (5 to 140°F)
	Note regarding storage: During freezing conditions and when meter is not in use, sensor must be removed from pipe and stored in dry conditions.
	<b>NOTE: Damage to the sensor caused by allowing the sensor freeze in the pipe is not covered by the warranty.</b>

### Electrical Connections

- Quick Connect
- Compression gland seals

### IP Rating

<b>Standard model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (IP68)</li> <li>• Compression gland seals (IP68)</li> </ul>
<b>HL model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (IP67)</li> <li>• Compression gland seals (IP67)</li> </ul>

### Sensor Submersibility Depth

<b>With standard quick connect</b>	1.8 m (6 ft.)
<b>With optional strain relief cable</b>	9 m (30 ft.)



**Certifications and Approvals**

**Standard Model**

- ISO 9001:2015 certified quality management system
- NSF/ANSI/CAN 61 & NSF/ANSI 372
- Certified by MET to UL 61010-1

**HL Model**

- ISO 9001:2015 certified quality management system
- NSF/ANSI/CAN 61 & NSF/ANSI 372
- Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04
  - Class I, Division 2, Groups A-D, T5
  - Class I, Zone 2, IIC T5



**System Options**

- Hastelloy® electrodes
- Additional sensor cable up to 475' (500' max for model 395 and 200' max for model 394)
- Extension to hardware clearance
- Annual verification / calibration
- Sensor insertion tool
- Stainless steel ID tag

Preliminary



## FLOW METER PIPE SIZES AND FLOW RANGES

Pipe Size (Nominal)	Pipe ID Range		Flow Ranges (GPM Standard)		Standard Program Defaults <sup>1</sup>	Minimum Clearance Required During Installation <sup>2</sup>	Velocity Range <sup>3</sup> (f/s)	
	Min Pipe ID	Max Pipe ID	Min (GPM) <sup>1</sup>	Max (GPM) <sup>1</sup>	20mA			
<b>S</b> = Standard (Available in 395 models Pipe Sizes 4" - 24" as shown in table below) <b>C</b> = Custom (Available in all 394 and 395L models Pipe Sizes 4" - 138") Standard Length Hardware and Installation Clearance Dimensions are based on a 4" Maximum Height Coupling and Pipe Schedule Standard								
4"	3.63	4.99	12	1280	600 GPM	51"	0.3 - 32	
6"	5.00	6.99	26	2800	1300 GPM	51"	0.3 - 32	
8"	7.00	8.99	47	5000	2350 GPM	55"	0.3 - 32	
10"	9.00	10.99	80	8000	4000 GPM	55"	0.3 - 32	
12"	11.00	12.99	110	11000	5500 GPM	59"	0.3 - 32	
14"	13.00	14.99	150	15000	7500 GPM	59"	0.3 - 32	
16"	15.00	16.75	190	20000	9500 GPM	59"	0.3 - 32	
18"	16.76	18.80	240	26000	12000 GPM	63"	0.3 - 32	
20"	18.81	20.99	300	28000	15000 GPM	63"	0.3 - 28	
22"	21.00	22.49	400	30000	20000 GPM	67"	0.3 - 25	
24"	22.50	25.99	410	33000	20500 GPM	67"	0.3 - 23	
30"	26.00	31.99	600	44000	30000 GPM	71.25"	0.3 - 20	
36"	32.00	37.99	1000	48000	50 KGPM	77.25"	0.3 - 15	
42"	38.00	43.99	1300	56000	65 KGPM	83.25"	0.3 - 13	
48"	44.00	49.99	1700	62000	85 KGPM	89.25"	0.3 - 11	
54"	50.00	55.99	2200	79000	110 KGPM	95.25"	0.3 - 11	
60"	56.00	61.99	2600	97000	130 KGPM	101.25"	0.3 - 11	
66"	62.00	67.99	3200	106000	160 KGPM	107.25"	0.3 - 10	
72"	68.00	73.99	3800	127000	190 KGPM	113.25"	0.3 - 10	
78"-138"	74.00	138.00	Available - Call Factory at 1-800-220-2279					

<sup>1</sup> Default totalizer units measured as KGAL.

<sup>2</sup> Hardware clearance after installation for all sizes is 28".

<sup>3</sup> Flow temperature range -10° to 60° C (14° to 140° F) up to 250 PSI, max pressure is 250 psi.

### ! Required Information

At the time of ordering, please be prepared to provide the following information:

1. Pipe ID and Pipe OD
2. Unit of Measure (US Gallons is Default)
3. Maximum pressure
4. FPI Specification Data Sheet for custom length sensors

Consult factory if any chemicals are in use.



FPI Mag Flow Meter with ProComm Converter

PROCOMM CONVERTER PART NUMBER MATRIX

PC		-	-	-	-	-
<b>CONVERTER MOUNTING OPTIONS</b>						
Meter Mount	M					
Remote Mount	R					
<b>CONVERTER POWER OPTIONS</b>						
AC Power	A					
DC Power	D					
Battery Power [25ft remote cable max]	B					
Solar Power, Battery Backup [25ft remote cable max]	S					
<b>CONVERTER OUTPUT OPTIONS</b>						
Dual 4-20mA Analog, Dual Digital (Standard)	1					
Modbus + STD (Two 4-20, two Dig)	2					
Hart + STD (Two 4-20, two Dig)	3					
Datalogger/BIV + STD (Two 4-20, two Dig)	4					
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)	5					
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)	6					
AMI Smart Output + STD (Two 4-20, two Dig)	7					
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)	8					
AMI Smart Output + Dig Out + Datalogger (Battery power only)	9					
Digital Out + Datalogger (Standard Battery Power only)	0					
<b>SMART OUTPUT PROTOCOL OPTIONS *</b>						
No AMI Outputs	-					
Sensus Protocol (6ft cable, Nicor Connector hardwired only)	SEN					
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR6					
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR9					
<b>HAZARDOUS LOCATION</b>						
Class I, Division 2, Groups A-D, T5	HL					

\* Smart Output protocol options require selection of converter output option 7, 8, or 9.



**PROCOMM CONVERTER SPECIFICATIONS**

<b>Power Source</b>		
<b>AC</b>	100-240 VAC / 45-66 Hz (10 W)	Note: AC or DC must be specified at time of ordering.
<b>DC</b>	10-35 VDC (10 W)	
<b>Standard Outputs</b>		
Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability)		
Two separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings.		
<ul style="list-style-type: none"> <li>• Volumetric Pulse</li> <li>• Flow Rate (Frequency)</li> <li>• Hardware Alarm</li> <li>• High/Low Flow Alarms</li> <li>• Empty Pipe</li> <li>• Directional Indication</li> </ul>	<ul style="list-style-type: none"> <li>• Range Indication</li> <li>• Maximum switching voltage: 40 VDC</li> <li>• Maximum switching current: 100mA</li> </ul>	<ul style="list-style-type: none"> <li>• Maximum switching frequency: 1250 Hz</li> <li>• Insulation from other secondary circuits: 500V</li> </ul>
<b>Optional Outputs</b>		
<ul style="list-style-type: none"> <li>• Modbus</li> <li>• HART</li> </ul>	<ul style="list-style-type: none"> <li>• Smart Output™ (Sensus, Itron 6, Itron 9)</li> </ul>	<ul style="list-style-type: none"> <li>• Datalogger</li> <li>• Built-in verification</li> </ul>
<b>Galvanic Isolation</b>		
All inputs / outputs are galvanically isolated from power supply up to 500 V		
<b>Engineering Units</b>		
<ul style="list-style-type: none"> <li>• Cubic Meter</li> <li>• Cubic Centimeter</li> <li>• Milliliter</li> <li>• Liter</li> <li>• Cubic Decimeter</li> <li>• Decaliter</li> <li>• Hectoliter</li> <li>• Cubic Inches</li> </ul>	<ul style="list-style-type: none"> <li>• US Gallons</li> <li>• Imperial Gallons</li> <li>• Cubic Feet</li> <li>• Kilo Cubic Feet</li> <li>• Standard Barrel</li> <li>• Oil Barrel</li> <li>• US Kilogallon</li> <li>• Ten Thousands of Gallons</li> </ul>	<ul style="list-style-type: none"> <li>• Imperial Kilogallon</li> <li>• Acre Feet</li> <li>• Megagallon</li> <li>• Imperial Megagallon</li> <li>• Hundred Cubic Feet</li> <li>• Megaliters</li> </ul>
<b>Conductivity</b>		
Minimum conductivity of 5µS/cm		
<b>Electrical Connections</b>		
<b>Connection options</b>	<ul style="list-style-type: none"> <li>• Compression gland seals for 0.24" to 0.47" diameter round cable</li> <li>• Conduit option: 1/2" NPT threaded connections</li> </ul>	
<b>Sensor Cable Lengths</b>		
<b>Standard</b>	25' McCrometer supplied submersible cable with each remote mount unit.	
<b>Optional</b>	Up to 500 feet, or 25 feet max for battery powered.	
<b>Quick Connect *</b>	Available in standard cable lengths: 25', 50', 75', 100', 125', 150', 175, 200', and 500'. Custom cable lengths at additional cost.	
<b>IP Rating</b>		
IP67 Die cast aluminum converter (only when connected using compression gland seals)		

\* Not available with SPI Mag



### Certifications and Approvals

#### Standard Model

- ISO 9001:2015 certified quality management system
- CE
- Certified by MET to UL 61010-1



#### HL Model

- ISO 9001:2015 certified quality management system
- CE
- Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04
  - Class I, Division 2, Groups A-D, T5
  - Class I, Zone 2 IIC T5



#### IMPORTANT:

Electrical safety certifications above do not apply to model 282L Single Point Insertion (SPI Mag) Electromagnetic Flow Meter.

### System Options

- Hastelloy® electrodes\*
- DC power
- Additional sensor cable up to 475' (500' max for FPI Mag)
- Extension to hardware clearance
- Annual verification / calibration
- Sensor insertion tool\*
- Stainless steel ID tag

### Temperature Range

#### Operating and storage

-20° to 60° C (-4° to 140° F)

### Converter Dimensions

#### Remote mount\*

- Height: 7.3" (18.5 cm)
- Width: 8.5" (21.6 cm)
- Depth: 4.3" (10.9 cm)

#### Meter mount

- Height: 6.9" (17.5 cm)
- Width: 7.2" (18.25 cm)
- Depth: 6.2" (15.7 cm)

### Keypad and Display

Can be used to access and change set-up parameters using six membrane keys and an LCD display

\* Not available with SPI Mag

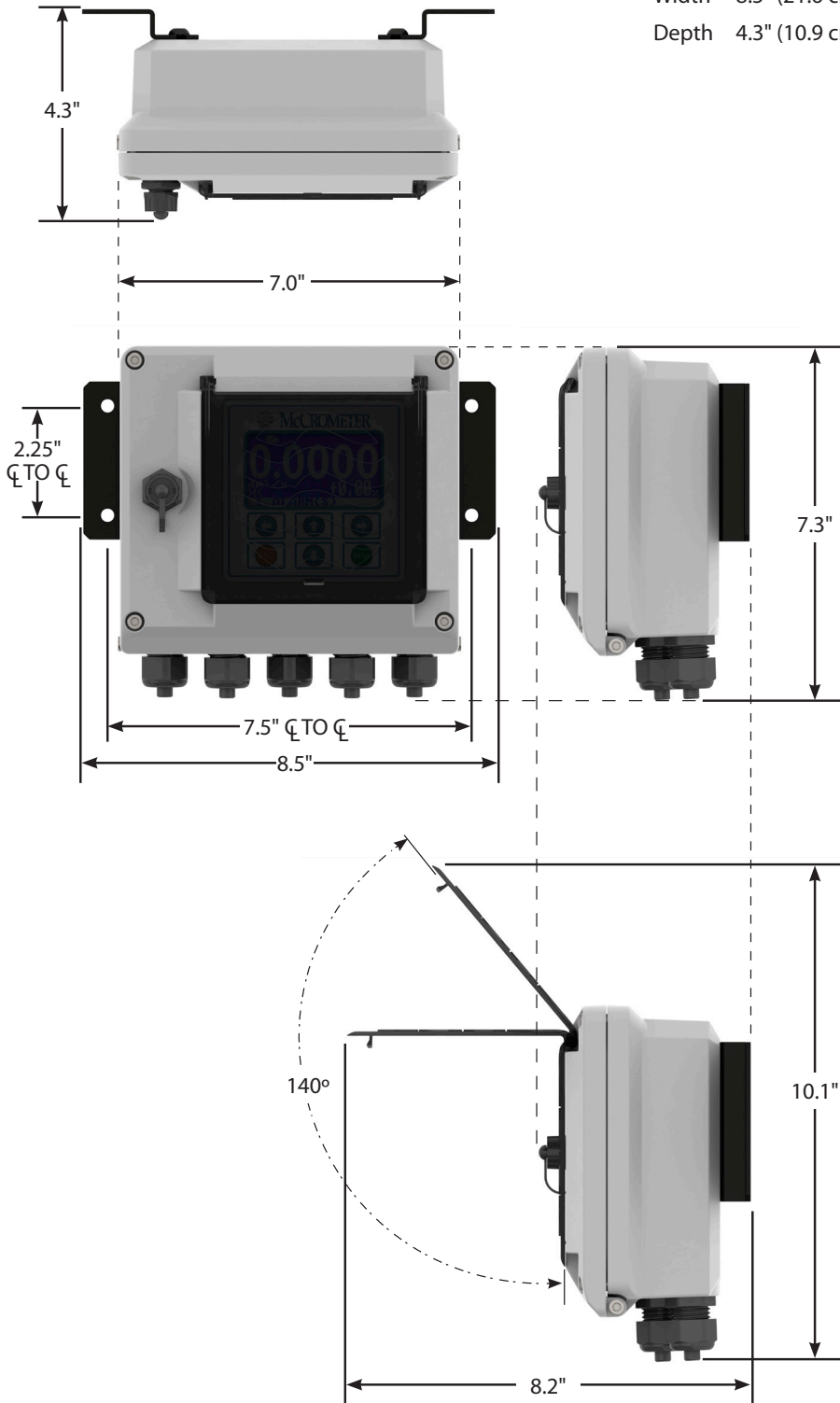
**Note regarding cable length:** McCrometer recommends minimizing cable length. Electromagnetic flow meters may have unfavorable signal strength to noise ratio in electrically noisy environments. Longer lengths of cable increase the likelihood of interference. In those cases where the meter's signal must be transmitted a long distance, or where the environment may be particularly noisy, we suggest using the converter's analog output(s). That allows locating the converter as close as possible to the metering location.

# Specification Sheet

## FPI Mag Flow Meter with ProComm Converter

### CONVERTER DIMENSIONS

Height 7.3" (18.5 cm)  
Width 8.5" (21.6 cm)  
Depth 4.3" (10.9 cm)



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[www.mccrometer.com](http://www.mccrometer.com)



**From:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>  
**Sent:** Monday, June 2, 2025 10:37 AM  
**To:** Dagleish, Alex <[Alexander.Dagleish@mt.gov](mailto:Alexander.Dagleish@mt.gov)>  
**Cc:** Nave, Jim <[jnave@mt.gov](mailto:jnave@mt.gov)>; Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>  
**Subject:** [EXTERNAL] RE: Form 600P Follow Up

Hi Alex,

Thank you for the feedback! I will work with the Town to get the payment submitted electronically.

We will get the additional items requested in a new narrative that will include the updated map and the data analysis narrative. Yes, everything is in GPM.

Thanks so much!

Christina Eggensperger  
[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)  
406-531-9486

Have a great day!

*\*I understand that my working hours/time zone may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule.*

**From:** Dagleish, Alex <[Alexander.Dagleish@mt.gov](mailto:Alexander.Dagleish@mt.gov)>  
**Sent:** Friday, May 30, 2025 4:22 PM  
**To:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>  
**Cc:** Nave, Jim <[jnave@mt.gov](mailto:jnave@mt.gov)>; Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>  
**Subject:** RE: Form 600P Follow Up

**WARNING** - This email originated from an EXTERNAL SOURCE. Do not reply, click any link or open attachments unless you can confirm the sender. *Please report suspicious emails to itsupport*

Hey Christina,

Thanks for sending us the follow up information. There are a few items that I'd like clarify.

First, we still need the \$500.00 fee. The preapplication form is considered incomplete without the fee.

Next, the map needs to show the places of use for overlapping water rights 76M 45355 00 and 76M 13904 00. Can you please also include the Township, Range, Section and quarter-quarter lines?

Finally, page 5 of the PDF follow-up document lists a table with monthly flow measurements. When I reviewed the raw data in the Excel sheet, I could not replicate those flow rate figures in the table. Can you explain how that flow data listed in the PDF was calculated from the raw data, and where each of the two monthly values came from? Also, I presume that both the data table in the PDF and the raw Excel sheet data are in GPM?

Thank you,



**Alex Dalglish** | Water Conservation Specialist II  
Water Resources Division, Missoula Regional Office  
Montana Department of Natural Resources and Conservation  
2705 Spurgin Road, Bldg C

DESK: 406-542-5886 EMAIL: [alexander.dalglish@mt.gov](mailto:alexander.dalglish@mt.gov)

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[\[twitter.com\]](#)[witter \[twitter.com\]](#)) | [Instagram \[instagram.com\]](#)

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---

**From:** Christina Eggensperger <[ceggensperger@waterenvtech.com](mailto:ceggensperger@waterenvtech.com)>

**Sent:** Thursday, May 29, 2025 3:04 PM

**To:** Dalglish, Alex <[Alexander.Dalglish@mt.gov](mailto:Alexander.Dalglish@mt.gov)>

**Cc:** Nave, Jim <[jnave@mt.gov](mailto:jnave@mt.gov)>; Thomas, Benjamin <[Benjamin.Thomas@mt.gov](mailto:Benjamin.Thomas@mt.gov)>; Pat Thomson <[pthomson@waterenvtech.com](mailto:pthomson@waterenvtech.com)>

**Subject:** [EXTERNAL] Form 600P Follow Up

Hi Alex & Jim & Benjamin,

We have attached the follow-up items along with the raw flow data for 2024. In our response we included a table with two flow values for each month of 2024. For the Excel table, the spring flow is Column FT2210. Please let me know if there is anything else that we can provide. Thank you so much!

Christina



**Christina Eggensperger, MS, EIT**

Project Engineer / Grant Administrator

P: (406) 565-4358

C: (406) 531-9486

[waterenvtech.com](http://waterenvtech.com)

*\*I understand that my working hours/time zone may not be your working hours. Please do not feel obligated to reply outside of your normal work schedule.*



May 29, 2025

DNRC  
Water Resources Division  
Attn: Alex Dalglish  
2705 Spurgin Road, Bldg. C  
PO Box 5004  
Missoula, MT 59806-5004

Subject: Follow-up Responses for Beneficial Water Use  
Permit Application No. 30165209

Alex,

The attached information is provided as amendment of Preapplication Form 600P in response to the preapplication meeting held January 31, 2025. This information includes a figure depicting site features, flow measurements, and flowmeter specifications.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Patrick Thomson'.

Patrick Thomson, PG

A handwritten signature in blue ink, appearing to read 'Christina Eggensperger'.

Christina Eggensperger, MS, EIT

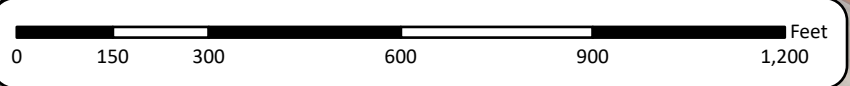
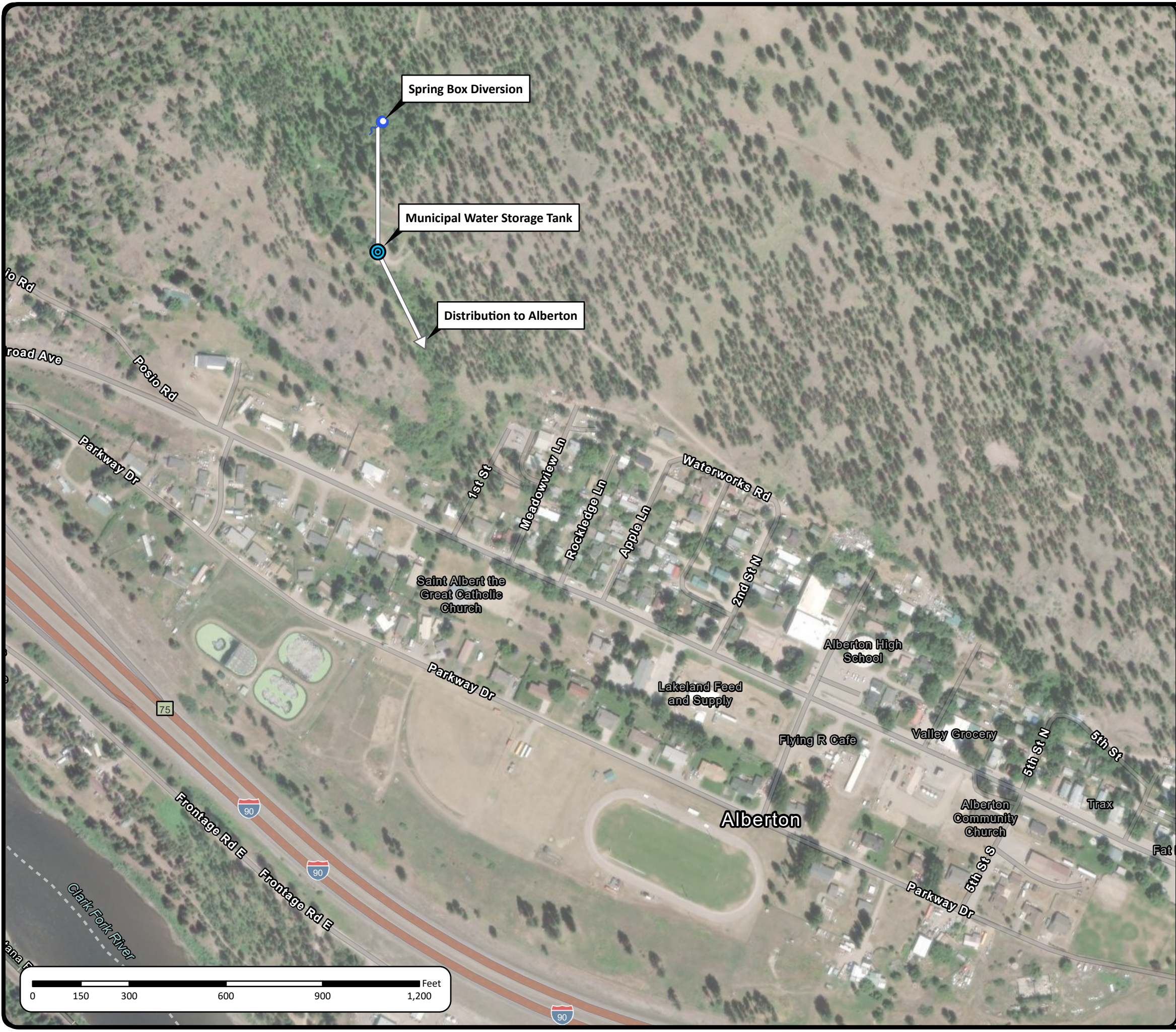
Enclosures




## Form 600-P - Follow-Up Items

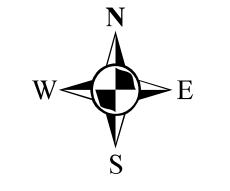
### Questions Marked for Follow-Up:

<u>Questions, Narrative, Responses, and Tables</u>	<u>Response</u>
2. Provide a map created on an aerial photograph or topographic map that shows the following: section corners, township and range, a north arrow, all proposed points of diversion labeled with a unique POD ID number, all proposed places of use, all proposed conveyance structures, all proposed places of storage, and places of use for all overlapping water rights.	Attached
20.b.i. If no gage data is available or if available gage data does not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the proposed months of diversion, is the source otherwise measured? If yes, Submit available measurements to the Department. Submit with Pre app form.	Attached
20.b.7. Is there a process for maintaining the data and meeting specified accuracy limits? If yes, explain.	Attached

## Site Map



-  Spring
-  Water Storage Tank
-  Water Line (Approximate Location)



NO.	DESCRIPTION	DATE	DRAFT	REVIEW
1	MAP CREATION	4/28/25	LG	CE
2	ADD TANK AND WATER LINE	5/28/25	LG	CE
3				
4				
5				

NOTES

**SPRING LOCATION**  
 ALBERTON, MINERAL COUNTY, MT  
 JOB#: AMCEM01  
 DATE: 5/8/2025  
**FIGURE 1**  
 Path: M:\AMCEM01\GIS\WaterRight\WaterRight.aprx, Author: jgeorge



### Flow Measurements

Month	Flow Rates
January	66.91000366
	66.88999939
February	66.65000153
	66.58000183
March	66.93000031
	66.93000031
April	66.68000031
	66.44000244
May	66.98000336
	66.91000366
June	65.87999725
	64.93000031
July	63.45000076
	62.50999832
August	64.05999756
	61
September	60.88999939
	60.34999847
October	65.94000244
	65.66999817
November	65.16000366
	65.05999756
December	65.75
	65.43000031

## **Flowmeter Specifications**



### Ultra Mag® Sensor



### ProComm Converter



Ultra Mag models UM06 and UM08 flanged tube flow meters are manufactured to the highest standard available for mag meters.

The flanged end tube design permits use in a wide range of applications with up to 300 PSI working pressure.

The fabricated tube is stainless steel with steel or stainless steel flanges and is lined with UltraLiner™, an NSF approved, fusion bonded epoxy material.

### INSTALLATION

Ultra Mag flow meter installation is similar to placing a short length of flanged end pipe in the line. The meter can be installed vertically, horizontally, or inclined on suction or discharge lines. The meter must have a full pipe of liquid for proper operation. Fluid must be grounded to the downstream flange of the sensor either via internal grounding electrodes (4 - 12") or using McCrometer 316 SS grounding rings.

For best performance, grounding rings are recommended for all sizes. Any 90 or 45 degree elbows, valves, partially opened valves, etc. should not be placed closer than one pipe diameters upstream and zero pipe diameters downstream.

All blending and chemical injection should be done early enough so the flow media is thoroughly mixed prior to entering the measurement area.

### PROCOMM CONVERTER

The signal converter is the reporting, input and output control device for the sensor. The converter allows the measurements, functional programming, control of the sensor and data recording to be communicated through the display and inputs/outputs.

The microprocessor-based signal converter has a curve-fitting algorithm to improve accuracy, dual 4-20mA analog outputs, an optional RS485 communication port, an 8 line graphical backlit LCD display with 6-key touch programming, and a rugged enclosure that meets IP67.

In addition to a menu-driven self-diagnostic test mode, the converter continually monitors the microprocessor's functionality. The converter will output rate of flow and total volume. The converter also comes standard with password protection and many more features.

### AVAILABLE ULTRA MAG FLANGED MODELS

#### UM06

Steel AWWA Class "D" flat face flanges (150 PSI)

#### UM08 2", 3", AND ≥14"

Steel AWWA Class "F" raised face flanges (300 PSI)

#### UM08 4" TO 12"

Steel ANSI 300 lb. Raised Face Flanges

### PERFORMANCE ADVANTAGES

- Needs only 1 pipe diameter upstream of most flow disturbers
- No obstruction to the flow
- No moving parts to wear or break
- Maintenance free
- Worry-free accurate measurement
- Debris or solids will not clog the meter
- No head loss
- Bi-directional flow
- Empty pipe detection
- Unaffected by changes in density and viscosity
- No risk of liner delamination or separation
- Wide flow range
- Separated power and signal cables

### TYPICAL APPLICATIONS

#### Industrial

Raw Water	Process Control
Chilled Water	Effluent Wastewater
Cooling Water	

#### Clean Water

Well Water	Rate-of-Flow Control
Potable Water	Raw Water Transmission
Pump Stations	

#### Wastewater

Influent	Waste Activated
Effluent	Sludge
Reclaimed	Return Activated
Lift Stations	Sludge

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### Ultra Mag Part Number Matrix

UM		-	-	-	-	-	-	-	-	-	-
SINGLE DIRECTION/DIRECTIONAL											
150 PSI Service Pressure		06									
300 PSI Service Pressure		08									
NOMINAL LINE SIZE											
	2 in	02									
	3 in	03									
	4 in	04									
	6 in	06									
	8 in	08									
	10 in	10									
	12 in	12									
	14 in	14									
	16 in	16									
	18 in	18									
	20 in	20									
	24 in	24									
	30 in	30									
	36 in	36									
	42 in	42									
	48 in	48									
END CONNECTION OPTIONS											
AWWA Flat Face Flanges (Class D or F)		W									
ANSI Raised Face Flanges (150# or 300#)		A									
ELECTRODE MATERIAL OPTIONS											
S316 Stainless Steel (Standard)		S									
Hastelloy		H									
CONVERTER MOUNTING AND CABLE CONNECTOR OPTIONS											
Strain Relief [Remote Mount (Standard)]		R									
Quick Connect [Remote Mount]		Q									
Meter Mount Converter		M									
REMOTE CABLE LENGTH OPTIONS											
25 feet (Standard)		025									
50 feet		050									
75 feet		075									
100 feet		100									
125 feet		125									
150 feet		150									
175 feet		175									
200 feet		200									
500 feet		500									
Custom Length Cable [User Specified]		CST									
Meter Mount Converter [No Remote Cable]		000									
CONVERTER POWER OPTIONS											
AC Power		A									
DC Power		D									
Battery Power [25ft remote cable max]		B									
CONVERTER OUTPUT OPTIONS											
Dual 4-20mA Analog, Dual Digital (Standard)		1									
Modbus + STD (Two 4-20, two Dig)		2									
Hart + STD (Two 4-20, two Dig)		3									
Datalogger/BIV + STD (Two 4-20, two Dig)		4									
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)		5									
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)		6									
AMI Smart Output + STD (Two 4-20, two Dig)		7*									
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)		8*									
AMI Smart Output + Dig Out + Datalogger (Battery power only)		9*									
Digital Out + Datalogger (Standard Battery Power only)		0									
SMART OUTPUT PROTOCOL OPTIONS (*7 OR 8 OUTPUT OPTION REQUIRED)											
No AMI Outputs		-									
Sensus Protocol (6ft cable, Nicor Connector hardwired only)		SEN									
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)		ITR6									
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)		ITR9									
NON STANDARD LENGTH OPTIONS											
McCrometer Length (Standard)		-									
Competitor Meter Replacement Length		\$									
Special Length [Customer Specified]		XL									



# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### ISOLATED POWER AND SIGNAL


The power and signal between the converter and sensor are isolated and placed in separate cables giving superior resistance to electrical signal noise compared to single cable designs. An added benefit from the dual cable design is a maximum cable length of up to 500ft.

### FLOW METER SPECIFICATIONS

<b>Pipe Sizes</b>	
2", 3", 4", 6", 8", 10", 12", 14", 16", 18", 20", 24", 30", 36", 42", 48"	
<b>Flow Direction Measurement</b>	
Forward and reverse flow indication and forward, reverse, net totalization are standard with all meters	
<b>Accuracy</b>	
Plus or minus 0.5% of actual flow (battery powered is $\pm 1\%$ of flow) <b>IMPORTANT NOTICE ON FLOW METER ACCURACY:</b> The flow meter, the cable and the electronics are factory calibrated for accuracy as a single unit. Changing the cable length with the Splice Kit changes the accuracy of the meter and invalidates the calibration certificate.	
<b>Accuracy Tests</b>	
5-point wet flow calibration of every complete flow tube with its signal converter. If desired, the tests can be witnessed by the customer. The McCrometer test facilities are traceable to the National Institute of Standards & Technology. Uncertainty relative to flow is $\pm 0.15\%$	
<b>Repeatability</b>	
$\pm 0.05\%$ or $\pm 0.0008\text{ft/s}$ ( $\pm 0.25\text{mm/s}$ ), whichever is greater	
<b>Conductivity</b>	
5 $\mu\text{s/cm}$	
<b>Liner</b>	
UltraLiner NSF approved, fusion bonded epoxy	
<b>Electrodes</b>	
Type 316 stainless steel, others optional	
<b>Electrical Connections</b>	
<ul style="list-style-type: none"> <li>• Compression gland seals</li> <li>• Quick-Connect</li> </ul>	
<b>IP Rating</b>	
<b>Standard model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (NEMA 6P/IP68 with remote converter)</li> <li>• Compression gland seals (NEMA 6P/IP68 with remote converter)</li> </ul>
<b>HL model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (IP67)</li> <li>• Compression gland seals (IP67)</li> </ul>
<b>Sensor Submersibility Depth</b>	
<b>With standard strain relief cable</b>	9 m (30 ft.)
<b>With optional quick connect cable</b>	1.8 m (6 ft.)

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

<b>Head Loss</b>	
None. No obstruction in line and no moving parts	
<b>Warranty</b>	
<b>Meter</b>	2 year warranty
<b>Liner</b>	Lifetime guarantee
<b>Pressure Range</b>	
150 PSI maximum working pressure (UM06); 300 PSI maximum working pressure (UM08)	
<b>Velocity Range</b>	
.2 to 32 FPS	
<b>Temperature Range</b>	
Sensor Operating: -10 to 60°C (14 to 140°F) Sensor Storage: -15 to 60°C (5 to 140° F)	
<b>Certifications and Approvals</b>	
<b>Standard Model</b>	<ul style="list-style-type: none"> <li>ISO 9001:2015 certified quality management system</li> <li>Certified by MET to UL 61010-1</li> </ul>
<b>HL Model</b>	<ul style="list-style-type: none"> <li>ISO 9001:2015 certified quality management system</li> <li>Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04                             <ul style="list-style-type: none"> <li>Class I, Division 2, Groups A-D, T5</li> <li>Class I, Zone 2, IIC T5</li> </ul> </li> </ul>
	
<b>System Options</b>	
<ul style="list-style-type: none"> <li>Hastelloy® electrodes</li> <li>Additional sensor cable up to 475'</li> <li>Annual verification / calibration</li> <li>Stainless steel ID tag</li> </ul>	
<b>Meter Options</b>	
<ul style="list-style-type: none"> <li>DC powered converter (10-35 VDC, 21 W)</li> <li>Meter mounted converter</li> <li>Extended warranty</li> <li>Hastelloy® electrodes</li> <li>ANSI or DIN flanges</li> <li>Quick Connect cable fittings</li> <li>Special lay lengths, including ISO standard lay lengths</li> </ul>	<ul style="list-style-type: none"> <li>Converter sun shield</li> <li>HART® Converter</li> <li>Smart Output™ (Sensus or Itron compatible)</li> <li>Battery or battery-solar powered converter (Not MET approved, ±1% accuracy)</li> </ul>



# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### PROCOMM CONVERTER PART NUMBER MATRIX

PC -	---	---	---	---
<b>CONVERTER MOUNTING OPTIONS</b>				
Remote Mount	R			
Meter Mount	M			
<b>CONVERTER POWER OPTIONS</b>				
AC Power	A			
DC Power	D			
Battery Power [25ft remote cable max]	B			
<b>CONVERTER OUTPUT OPTIONS</b>				
Dual 4-20mA Analog, Dual Digital (Standard)			1	
Modbus + STD (Two 4-20, two Dig)			2	
Hart + STD (Two 4-20, two Dig)			3	
Datalogger/BIV + STD (Two 4-20, two Dig)			4	
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)			5	
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)			6	
AMI Smart Output + STD (Two 4-20, two Dig)			7*	
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)			8*	
AMI Smart Output + Dig Out + Datalogger (Battery power only)			9*	
Digital Out + Datalogger (Standard Battery Power only)			0	
<b>SMART OUTPUT PROTOCOL OPTIONS (*7, 8, OR 9 OUTPUT OPTION REQUIRED)</b>				
No AMI Outputs				-
Sensus Protocol (6ft cable, Nicor Connector hardwired only)				SEN
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)				ITR6
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)				ITR9

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### PROCOMM CONVERTER SPECIFICATIONS

<b>Power Source</b>		
<b>AC</b>	100-240 VAC / 45-66 Hz (10 W) *	* AC or DC must be specified at time of ordering.
<b>DC</b>	10-35 VDC (10 W) *	
<b>Standard Outputs</b>		
Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability)		
Two separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings.		
<ul style="list-style-type: none"> <li>• Volumetric Pulse</li> <li>• Flow Rate (Frequency)</li> <li>• Hardware Alarm</li> <li>• High/Low Flow Alarms</li> <li>• Empty Pipe</li> <li>• Directional Indication</li> </ul>	<ul style="list-style-type: none"> <li>• Range Indication</li> <li>• Maximum switching voltage: 40 VDC</li> <li>• Maximum switching current: 100mA</li> </ul>	<ul style="list-style-type: none"> <li>• Maximum switching frequency: 1250 Hz</li> <li>• Insulation from other secondary circuits: 500V</li> </ul>
<b>Optional Outputs</b>		
<ul style="list-style-type: none"> <li>• Modbus</li> <li>• HART</li> </ul>	<ul style="list-style-type: none"> <li>• Smart Output™ (Sensus, Itron 6, Itron 9)</li> </ul>	<ul style="list-style-type: none"> <li>• Datalogger</li> <li>• Built-in verification</li> </ul>
<b>Galvanic Isolation</b>		
All inputs / outputs are galvanically isolated from power supply up to 500 V		
<b>Engineering Units</b>		
<ul style="list-style-type: none"> <li>• Cubic Meter</li> <li>• Cubic Centimeter</li> <li>• Milliliter</li> <li>• Liter</li> <li>• Cubic Decimeter</li> <li>• Decaliter</li> <li>• Hectoliter</li> <li>• Cubic Inches</li> </ul>	<ul style="list-style-type: none"> <li>• US Gallons</li> <li>• Imperial Gallons</li> <li>• Cubic Feet</li> <li>• Kilo Cubic Feet</li> <li>• Standard Barrel</li> <li>• Oil Barrel</li> <li>• US Kilogallon</li> <li>• Ten Thousands of Gallons</li> </ul>	<ul style="list-style-type: none"> <li>• Imperial Kilogallon</li> <li>• Acre Feet</li> <li>• Megagallon</li> <li>• Imperial Megagallon</li> <li>• Hundred Cubic Feet</li> <li>• Megaliters</li> </ul>
<b>Conductivity</b>		
Minimum conductivity of 5µS/cm		
<b>Electrical Connections</b>		
<b>Connection options</b>	<ul style="list-style-type: none"> <li>• Compression gland seals for 0.24" to 0.47" diameter round cable</li> <li>• Conduit option: 1/2" NPT threaded connections</li> </ul>	
<b>Sensor Cable Lengths</b>		
<b>Standard</b>	25' McCrometer supplied submersible cable with each remote mount unit.	
<b>Optional</b>	Up to 500 feet, or 25 feet max for battery powered.	
<b>Quick Connect</b>	Available in standard cable lengths: 25', 50', 75', 100', 125', 150', 175', 200', and 500'. Custom cable lengths at additional cost.	
<b>IP Rating</b>		
IP67 Die cast aluminum converter (only when connected using compression gland seals)		

# Specification Sheet

## Ultra Mag Flow Meter with ProComm Converter

### Certifications and Approvals

<b>Standard Model</b>	<ul style="list-style-type: none"> <li>• ISO 9001:2015 certified quality management system</li> <li>• CE</li> <li>• Certified by MET to UL 61010-1</li> </ul>
<b>HL Model</b>	<ul style="list-style-type: none"> <li>• ISO 9001:2015 certified quality management system</li> <li>• CE</li> <li>• Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04               <ul style="list-style-type: none"> <li>• Class I, Division 2, Groups A-D, T5</li> <li>• Class I, Zone 2 IIC T5</li> </ul> </li> </ul>



### System Options

<ul style="list-style-type: none"> <li>• Hastelloy® electrodes</li> <li>• DC power</li> <li>• Additional sensor cable up to 475' (500' max for model 395 and 200' max for model 394)</li> </ul>	<ul style="list-style-type: none"> <li>• Extension to hardware clearance</li> <li>• Annual verification / calibration</li> <li>• Sensor insertion tool</li> <li>• Stainless steel ID tag</li> </ul>
---	---

### Temperature Range

<b>Operating and storage</b>	-20° to 60° C (-4° to 140° F)
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### Converter Dimensions

<b>Remote mount</b>	<ul style="list-style-type: none"> <li>• Height: 7.3" (18.5 cm)</li> <li>• Width: 8.5" (21.6 cm)</li> <li>• Depth: 4.3" (10.9 cm)</li> </ul>
<b>Meter mount</b>	<ul style="list-style-type: none"> <li>• Height: 6.9" (17.5 cm)</li> <li>• Width: 7.2" (18.25 cm)</li> <li>• Depth: 6.2" (15.7 cm)</li> </ul>

### Keypad and Display

Can be used to access and change set-up parameters using six membrane keys and an LCD display

**Note regarding cable length:** McCrometer recommends minimizing cable length. Electromagnetic flow meters may have unfavorable signal strength to noise ratio in electrically noisy environments. Longer lengths of cable increase the likelihood of interference. In those cases where the meter's signal must be transmitted a long distance, or where the environment may be particularly noisy, we suggest using the converter's analog output(s). That allows locating the converter as close as possible to the metering location.

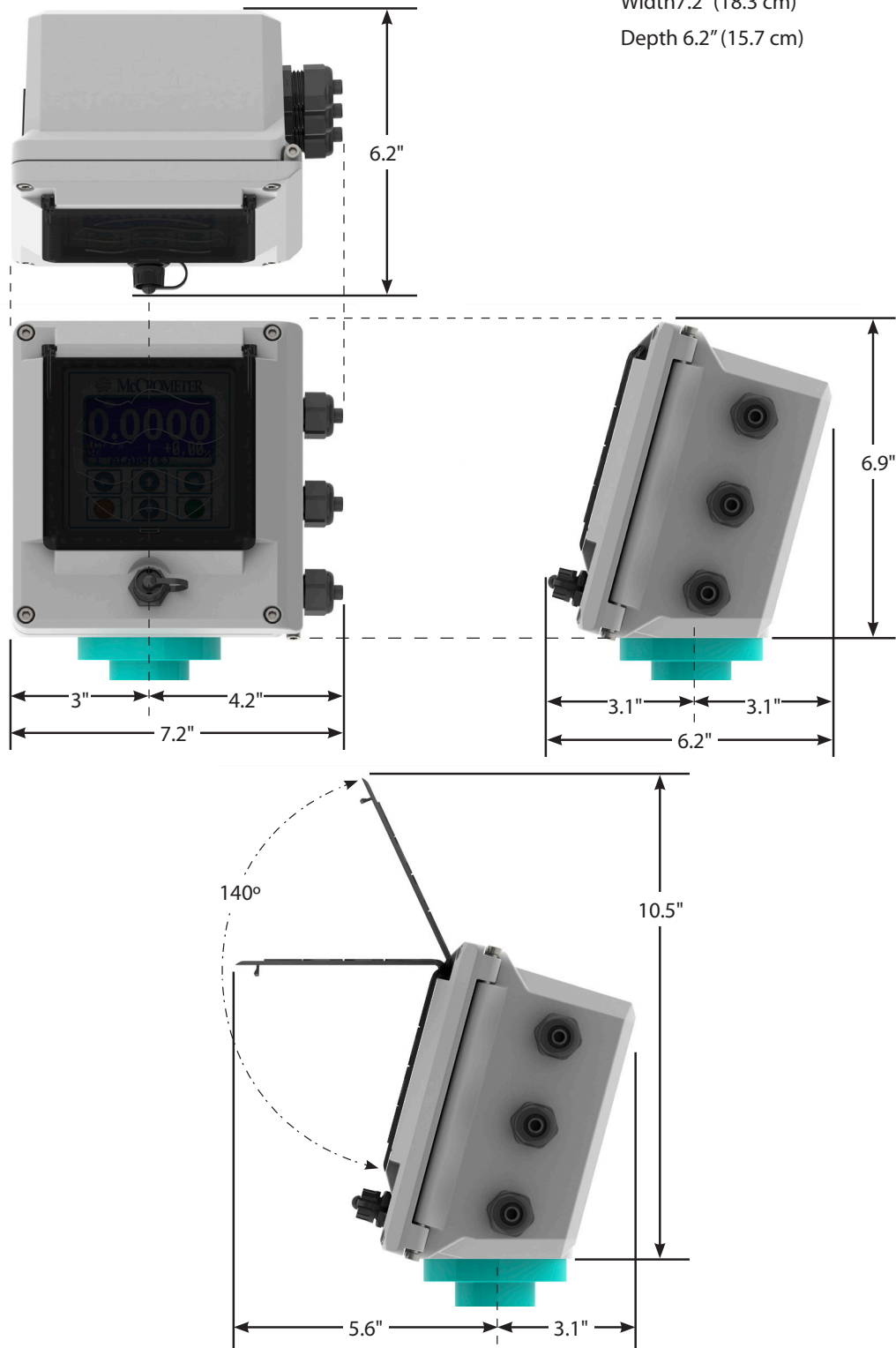
# Specification Sheet Ultra Mag Flow Meter with ProComm Converter

## METER MOUNT CONVERTER DIMENSIONS

Height 6.9" (20.1 cm)

Width 7.2" (18.3 cm)

Depth 6.2" (15.7 cm)



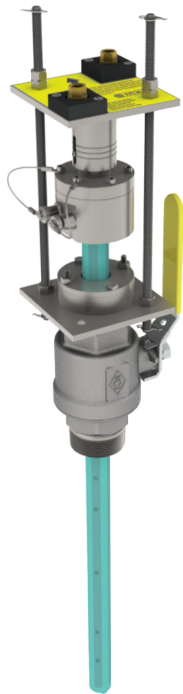
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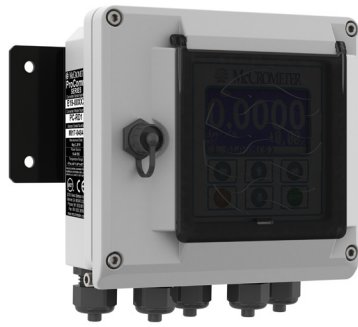




## FPI Mag® Sensor



## ProComm® Converter



The FPI Mag® (Full Profile Insertion) electromagnetic flow meter is the only hot tap full profile insertion flow meter available on the market. The FPI Mag installs without service interruption making it ideal for retrofits, upgrades and maintenance projects and sites never metered before. The hot tap installation significantly reduces installation time eliminating the need to de-water lines or cut pipe.

The multi-electrode sensor delivers an accurate measurement of the full pipe profile rivaling the performance of a full-bore mag meter. The repeatable, stable measurement across the entire flow profile compensates for variable flow profiles, including swirl and turbulent conditions.

The FPI Mag is the industry's most economical flow metering solution offering unbeatable value in the cost of installation and ownership reducing installed costs by more than 45 percent in medium and large line sizes. The compact insertion design fits in confined spaces and offers complete accessibility. The flow meter can be removed in pipes under pressure for easy inspection, cleaning, calibrating, or verification. Installation costs are reduced by eliminating the need for heavy equipment and extensive manpower.

The innovative flow meter comes pre-calibrated from McCrometer's NIST traceable calibration labs and requires no recalibration in the field. With no moving parts and a single-piece design, the FPI Mag's sensor contains nothing to wear or break and is generally immune to clogging by sand, grit, or other debris. The electrodes are encased in a heavy-duty 316 stainless steel sensor body for maximum structural integrity and coated with a NSF certified 3M™ fusion-bonded epoxy coating for operational longevity.

## MUNICIPAL WATER AND WASTEWATER

The FPI Mag Full Profile Insertion mag meter supports the following water and wastewater treatment applications:

**Water**

- Distribution
- Effluent
- Filter balancing and backwash
- Pumping stations
- UV dosing
- Wells and booster stations

**Wastewater**

- Effluent
- Recycle / reclaim

The FPI Mag is ideal for chilled water in campus style facilities, hospitals, airports, hotels, casinos, etc.

## INDUSTRIAL FACILITIES

The FPI Mag is also suitable for a variety of industrial facilities: power plants (including cogeneration), paper mills, chemical & petrochemical plants, metals & mining, and food & beverage.

**Applications Include**

- Cooling water
- Fire water
- Feed water
- Raw water
- Inlet to surge basin
- Effluent wastewater

**Benefits:**

- **Hot Tap Installation** - No service interruption
- **Accurate** – Measures the full flow profile
- **Lower Cost** – Installed savings more than 45%
- **Robust** – No moving parts to wear or break
- **Versatile** – Great for plant maintenance, upgrades and retrofits
- **Accessible** – Insertion design provides easy access
- **Virtually No Maintenance** – No field calibration required



**FPI MAG PART NUMBER MATRIX**

<b>39</b>		-	-	-	-	-	-	-	-	-	-
<b>SINGLE DIRECTION / BIDIRECTIONAL</b>											
→	<b>394 - Bidirectional</b>	<b>4</b>									
	<b>395 - Single Direction</b>	<b>5</b>									
<b>STOCK BODY OR CUSTOM LENGTH</b>											
→	<b>Stock Body Length (4-24")</b>	<b>S</b>									
	<b>Custom Body Length</b>	<b>C</b>									
<b>NOMINAL LINE SIZE</b>											
	4 in	<b>004</b>									
	6 in	<b>006</b>									
→	<b>8 in</b>	<b>008</b>									
	10 in	<b>010</b>									
	12 in	<b>012</b>									
	14 in	<b>014</b>									
	16 in	<b>016</b>									
	18 in	<b>018</b>									
	20 in	<b>020</b>									
	22 in	<b>022</b>									
	24 in	<b>024</b>									
	30 in	<b>030</b>									
	36 in	<b>036</b>									
	42 in	<b>042</b>									
	48 in	<b>048</b>									
	54 in	<b>054</b>									
	60 in	<b>060</b>									
	66 in	<b>066</b>									
	72 in	<b>072</b>									
<b>Contact Factory for Larger Line Sized</b>		<b>Larger</b>									
<b>ELECTRODE MATERIAL OPTIONS</b>											
→	<b>S316 Stainless Steel (Standard)</b>	<b>S</b>									
	<b>Hastelloy</b>	<b>H</b>									
<b>CABLE CONNECTOR OPTIONS</b>											
→	<b>Quick Connect (Standard)</b>	<b>Q</b>									
	<b>Strain Relief</b>	<b>R</b>									
<b>REMOTE CABLE LENGTH OPTIONS</b>											
→	<b>25 feet (Standard) *</b>	<b>025</b>									
	50 feet	<b>050</b>									
	75 feet	<b>075</b>									
	100 feet	<b>100</b>									
	125 feet	<b>125</b>									
	150 feet	<b>150</b>									
	175 feet	<b>175</b>									
	200 feet *	<b>200</b>									
	500 feet *	<b>500</b>									
<b>Custom Length Cable [User Specified]</b>		<b>CST</b>									

\* Maximum cable lengths:  
 Battery powered converter cable: 25 feet  
 Model 394: 200 feet  
 Model 395: 500 feet

continued next page





FPI Mag Flow Meter with ProComm Converter

CONVERTER POWER OPTIONS	
AC Power	A
DC Power	D
Battery Power [25ft remote cable max]	B
Solar Power, Battery Backup [25ft remote cable max]	S
CONVERTER OUTPUT OPTIONS	
Dual 4-20mA Analog, Dual Digital (Standard)	1
Modbus + STD (Two 4-20, two Dig)	2
Hart + STD (Two 4-20, two Dig)	3
Datalogger/BIV + STD (Two 4-20, two Dig)	4
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)	5
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)	6
AMI Smart Output + STD (Two 4-20, two Dig)	7
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)	8
AMI Smart Output + Dig Out + Datalogger (Battery power only)	9
Digital Out + Datalogger (Standard Battery Power only)	0
BALL VALVE OPTIONS	
2" NPT SS Ball Valve	N
2" BSP Brass Ball Valve	B
No Valve, NPT Hardware	X
No Valve, BSP Hardware	Y
SMART OUTPUT PROTOCOL OPTIONS*	
No AMI Outputs	-
Sensus Protocol (6ft cable, Nicor Connector hardwired only)	SEN
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR6
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR9
HAZARDOUS LOCATION	
Class I, Division 2, Groups A-D, T5	HL

\* Smart Output protocol options require selection of converter output option 7, 8, or 9.



## FPI Mag Flow Meter with ProComm Converter

## FLOW METER SPECIFICATIONS

The full pipe averaging flow meter comes complete with Mounting Hardware, AC Converter with Dual 4-20mA output, 25 Feet of Dual Submersible Cables with quick connects at sensor, Stainless Steel Body, 316 Stainless Steel Electrodes, NSF Approved Fusion Bonded Epoxy Coating, 2" Stainless Steel Ball Valve (minimum of 1-7/8" port I.D.), 2" x Close Stainless Steel Nipple, 2-Year Warranty.

## Measurement

Volumetric flow in filled flow conduits 4" (100 mm) to 138" (3,500 mm) utilizing insertable electromagnetic averaging sensor. Flow indication in English Standard or Metric units.

## Flow Measurement

<b>Method</b>	Electromagnetic
<b>Calibrated accuracy for forward and bidirectional sensors</b>	<ul style="list-style-type: none"> <li>• <math>\pm 0.5\%</math> from 1 f/s to max velocity (on next page), up to <math>\pm 1\%</math> for 0.3 to 1 f/s</li> <li>• <math>\pm 1\%</math> for reverse flow</li> </ul>
<b>Linearity</b>	0.3% of Range
<b>Repeatability</b>	0.2% of Reading
<b>Direction measurement</b>	<ul style="list-style-type: none"> <li>• 395 sensor - Forward flow measurement and reverse flow indication</li> <li>• 394 sensor - bidirectional flow measurement</li> </ul>

## Materials

<b>Coating</b>	Fusion bonded epoxy (NSF 61 approved) coated 316 stainless steel
<b>Insertion hardware</b>	316 Stainless Steel
<b>Compression seal</b>	Silicone Rubber
<b>Sensor electrodes</b>	316 Stainless Steel

## Temperature Range

<b>Operation</b>	-10 to 60°C (14 to 140°F) up to 250 PSI
<b>Storage</b>	-15 to 60°C (5 to 140°F)
	Note regarding storage: During freezing conditions and when meter is not in use, sensor must be removed from pipe and stored in dry conditions.
	<b>NOTE: Damage to the sensor caused by allowing the sensor freeze in the pipe is not covered by the warranty.</b>

## Electrical Connections

- Quick Connect
- Compression gland seals

## IP Rating

<b>Standard model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (IP68)</li> <li>• Compression gland seals (IP68)</li> </ul>
<b>HL model</b>	<ul style="list-style-type: none"> <li>• Quick Connect (IP67)</li> <li>• Compression gland seals (IP67)</li> </ul>

## Sensor Submersibility Depth

<b>With standard quick connect</b>	1.8 m (6 ft.)
<b>With optional strain relief cable</b>	9 m (30 ft.)



**Certifications and Approvals**

**Standard Model**

- ISO 9001:2015 certified quality management system
- NSF/ANSI/CAN 61 & NSF/ANSI 372
- Certified by MET to UL 61010-1

**HL Model**

- ISO 9001:2015 certified quality management system
- NSF/ANSI/CAN 61 & NSF/ANSI 372
- Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04
  - Class I, Division 2, Groups A-D, T5
  - Class I, Zone 2, IIC T5



**System Options**

- Hastelloy® electrodes
- Additional sensor cable up to 475' (500' max for model 395 and 200' max for model 394)
- Extension to hardware clearance
- Annual verification / calibration
- Sensor insertion tool
- Stainless steel ID tag

Preliminary



## FLOW METER PIPE SIZES AND FLOW RANGES

Pipe Size (Nominal)	Pipe ID Range		Flow Ranges (GPM Standard)		Standard Program Defaults <sup>1</sup>	Minimum Clearance Required During Installation <sup>2</sup>	Velocity Range <sup>3</sup> (f/s)	
	Min Pipe ID	Max Pipe ID	Min (GPM) <sup>1</sup>	Max (GPM) <sup>1</sup>	20mA			
<b>S</b> = Standard (Available in 395 models Pipe Sizes 4" - 24" as shown in table below) <b>C</b> = Custom (Available in all 394 and 395L models Pipe Sizes 4" - 138") Standard Length Hardware and Installation Clearance Dimensions are based on a 4" Maximum Height Coupling and Pipe Schedule Standard								
4"	3.63	4.99	12	1280	600 GPM	51"	0.3 - 32	
6"	5.00	6.99	26	2800	1300 GPM	51"	0.3 - 32	
8"	7.00	8.99	47	5000	2350 GPM	55"	0.3 - 32	
10"	9.00	10.99	80	8000	4000 GPM	55"	0.3 - 32	
12"	11.00	12.99	110	11000	5500 GPM	59"	0.3 - 32	
14"	13.00	14.99	150	15000	7500 GPM	59"	0.3 - 32	
16"	15.00	16.75	190	20000	9500 GPM	59"	0.3 - 32	
18"	16.76	18.80	240	26000	12000 GPM	63"	0.3 - 32	
20"	18.81	20.99	300	28000	15000 GPM	63"	0.3 - 28	
22"	21.00	22.49	400	30000	20000 GPM	67"	0.3 - 25	
24"	22.50	25.99	410	33000	20500 GPM	67"	0.3 - 23	
30"	26.00	31.99	600	44000	30000 GPM	71.25"	0.3 - 20	
36"	32.00	37.99	1000	48000	50 KGPM	77.25"	0.3 - 15	
42"	38.00	43.99	1300	56000	65 KGPM	83.25"	0.3 - 13	
48"	44.00	49.99	1700	62000	85 KGPM	89.25"	0.3 - 11	
54"	50.00	55.99	2200	79000	110 KGPM	95.25"	0.3 - 11	
60"	56.00	61.99	2600	97000	130 KGPM	101.25"	0.3 - 11	
66"	62.00	67.99	3200	106000	160 KGPM	107.25"	0.3 - 10	
72"	68.00	73.99	3800	127000	190 KGPM	113.25"	0.3 - 10	
78"-138"	74.00	138.00	Available - Call Factory at 1-800-220-2279					

<sup>1</sup> Default totalizer units measured as KGAL.

<sup>2</sup> Hardware clearance after installation for all sizes is 28".

<sup>3</sup> Flow temperature range -10° to 60° C (14° to 140° F) up to 250 PSI, max pressure is 250 psi.

### ! Required Information

At the time of ordering, please be prepared to provide the following information:

1. Pipe ID and Pipe OD
2. Unit of Measure (US Gallons is Default)
3. Maximum pressure
4. FPI Specification Data Sheet for custom length sensors

Consult factory if any chemicals are in use.



**PROCOMM CONVERTER PART NUMBER MATRIX**

PC		-	-	-	-	-
<b>CONVERTER MOUNTING OPTIONS</b>						
Meter Mount	M					
Remote Mount	R					
<b>CONVERTER POWER OPTIONS</b>						
AC Power	A					
DC Power	D					
Battery Power [25ft remote cable max]	B					
Solar Power, Battery Backup [25ft remote cable max]	S					
<b>CONVERTER OUTPUT OPTIONS</b>						
Dual 4-20mA Analog, Dual Digital (Standard)	1					
Modbus + STD (Two 4-20, two Dig)	2					
Hart + STD (Two 4-20, two Dig)	3					
Datalogger/BIV + STD (Two 4-20, two Dig)	4					
Datalogger/BIV + Modbus + STD (Two 4-20, two Dig)	5					
Datalogger/BIV + Hart + STD (Two 4-20, two Dig)	6					
AMI Smart Output + STD (Two 4-20, two Dig)	7					
Datalogger/BIV + AMI Smart Output + STD (Two 4-20, two Dig)	8					
AMI Smart Output + Dig Out + Datalogger (Battery power only)	9					
Digital Out + Datalogger (Standard Battery Power only)	0					
<b>SMART OUTPUT PROTOCOL OPTIONS *</b>						
No AMI Outputs	-					
Sensus Protocol (6ft cable, Nicor Connector hardwired only)	SEN					
Itron 6 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR6					
Itron 9 digit Protocol (6ft cable, Nicor Connector hardwired only)	ITR9					
<b>HAZARDOUS LOCATION</b>						
Class I, Division 2, Groups A-D, T5	HL					

\* Smart Output protocol options require selection of converter output option 7, 8, or 9.



**PROCOMM CONVERTER SPECIFICATIONS**

<b>Power Source</b>		
<b>AC</b>	100-240 VAC / 45-66 Hz (10 W)	Note: AC or DC must be specified at time of ordering.
<b>DC</b>	10-35 VDC (10 W)	
<b>Standard Outputs</b>		
Dual 4-20mA Outputs: Galvanically isolated and fully programmable for zero and full scale (0-21mA rangeability)		
Two separate digital programmable outputs: open collector transistor usable for pulse, frequency, or alarm settings.		
<ul style="list-style-type: none"> <li>• Volumetric Pulse</li> <li>• Flow Rate (Frequency)</li> <li>• Hardware Alarm</li> <li>• High/Low Flow Alarms</li> <li>• Empty Pipe</li> <li>• Directional Indication</li> </ul>	<ul style="list-style-type: none"> <li>• Range Indication</li> <li>• Maximum switching voltage: 40 VDC</li> <li>• Maximum switching current: 100mA</li> </ul>	<ul style="list-style-type: none"> <li>• Maximum switching frequency: 1250 Hz</li> <li>• Insulation from other secondary circuits: 500V</li> </ul>
<b>Optional Outputs</b>		
<ul style="list-style-type: none"> <li>• Modbus</li> <li>• HART</li> </ul>	<ul style="list-style-type: none"> <li>• Smart Output™ (Sensus, Itron 6, Itron 9)</li> </ul>	<ul style="list-style-type: none"> <li>• Datalogger</li> <li>• Built-in verification</li> </ul>
<b>Galvanic Isolation</b>		
All inputs / outputs are galvanically isolated from power supply up to 500 V		
<b>Engineering Units</b>		
<ul style="list-style-type: none"> <li>• Cubic Meter</li> <li>• Cubic Centimeter</li> <li>• Milliliter</li> <li>• Liter</li> <li>• Cubic Decimeter</li> <li>• Decaliter</li> <li>• Hectoliter</li> <li>• Cubic Inches</li> </ul>	<ul style="list-style-type: none"> <li>• US Gallons</li> <li>• Imperial Gallons</li> <li>• Cubic Feet</li> <li>• Kilo Cubic Feet</li> <li>• Standard Barrel</li> <li>• Oil Barrel</li> <li>• US Kilogallon</li> <li>• Ten Thousands of Gallons</li> </ul>	<ul style="list-style-type: none"> <li>• Imperial Kilogallon</li> <li>• Acre Feet</li> <li>• Megagallon</li> <li>• Imperial Megagallon</li> <li>• Hundred Cubic Feet</li> <li>• Megaliters</li> </ul>
<b>Conductivity</b>		
Minimum conductivity of 5µS/cm		
<b>Electrical Connections</b>		
<b>Connection options</b>	<ul style="list-style-type: none"> <li>• Compression gland seals for 0.24" to 0.47" diameter round cable</li> <li>• Conduit option: 1/2" NPT threaded connections</li> </ul>	
<b>Sensor Cable Lengths</b>		
<b>Standard</b>	25' McCrometer supplied submersible cable with each remote mount unit.	
<b>Optional</b>	Up to 500 feet, or 25 feet max for battery powered.	
<b>Quick Connect *</b>	Available in standard cable lengths: 25', 50', 75', 100', 125', 150', 175, 200', and 500'. Custom cable lengths at additional cost.	
<b>IP Rating</b>		
IP67 Die cast aluminum converter (only when connected using compression gland seals)		

\* Not available with SPI Mag



### Certifications and Approvals

#### Standard Model

- ISO 9001:2015 certified quality management system
- CE
- Certified by MET to UL 61010-1



#### HL Model

- ISO 9001:2015 certified quality management system
- CE
- Certified by MET to UL 61010-1 and MET C22.2 No. 61010-1-04
  - Class I, Division 2, Groups A-D, T5
  - Class I, Zone 2 IIC T5



#### IMPORTANT:

Electrical safety certifications above do not apply to model 282L Single Point Insertion (SPI Mag) Electromagnetic Flow Meter.

### System Options

- Hastelloy® electrodes\*
- DC power
- Additional sensor cable up to 475' (500' max for FPI Mag)
- Extension to hardware clearance
- Annual verification / calibration
- Sensor insertion tool\*
- Stainless steel ID tag

### Temperature Range

#### Operating and storage

-20° to 60° C (-4° to 140° F)

### Converter Dimensions

#### Remote mount\*

- Height: 7.3" (18.5 cm)
- Width: 8.5" (21.6 cm)
- Depth: 4.3" (10.9 cm)

#### Meter mount

- Height: 6.9" (17.5 cm)
- Width: 7.2" (18.25 cm)
- Depth: 6.2" (15.7 cm)

### Keypad and Display

Can be used to access and change set-up parameters using six membrane keys and an LCD display

\* Not available with SPI Mag

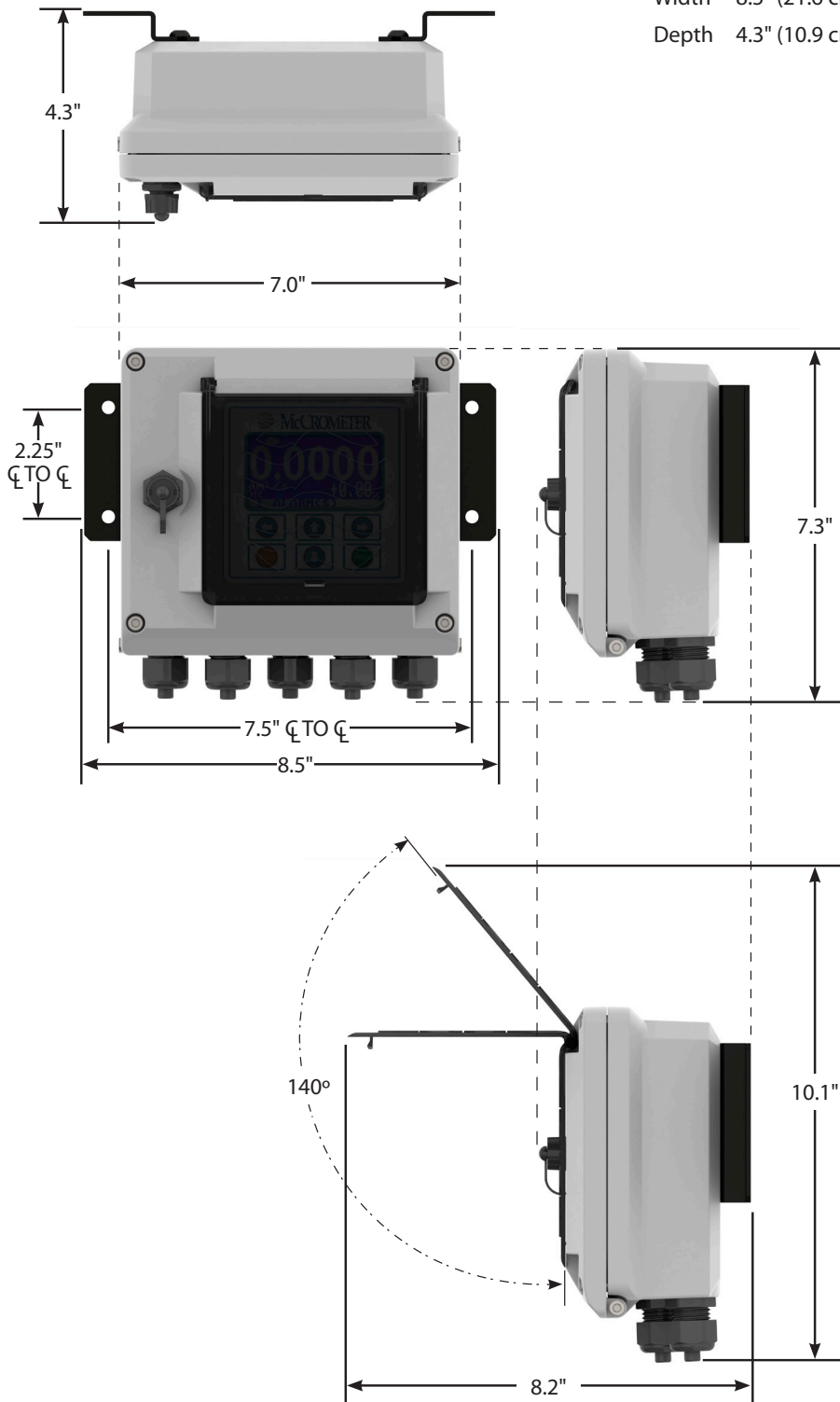
**Note regarding cable length:** McCrometer recommends minimizing cable length. Electromagnetic flow meters may have unfavorable signal strength to noise ratio in electrically noisy environments. Longer lengths of cable increase the likelihood of interference. In those cases where the meter's signal must be transmitted a long distance, or where the environment may be particularly noisy, we suggest using the converter's analog output(s). That allows locating the converter as close as possible to the metering location.

# Specification Sheet

## FPI Mag Flow Meter with ProComm Converter

### CONVERTER DIMENSIONS

Height 7.3" (18.5 cm)  
Width 8.5" (21.6 cm)  
Depth 4.3" (10.9 cm)



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3255 WEST STETSON AVENUE • HEMET, CALIFORNIA 92545 USA  
TEL: 951-652-6811 • 800-220-2279 • FAX: 951-652-3078  
[www.mccrometer.com](http://www.mccrometer.com)



## **Excel File Placeholder**

*The Town of Alberton Follow Up Information – 2024 Raw Flow Data spreadsheet is available outside of the application file.*

*For **pending applications**, excel files available upon request from the regional office.*

*For **scanned applications**, excel files available in a separate FileNet link.*

*Please contact the regional office for  
more information.*



# REQUEST FOR PREAPPLICATION MEETING

ARM 36.12.1302(2)  
(Revised 01/2024)

For Department Use Only

### Instructions

Use this optional form to submit a written request for a preapplication meeting, as required in ARM 36.12.1302(2) for applicants electing to complete a preapplication meeting with the department prior to submitting an application for a beneficial water use permit or change in appropriation right pursuant to §85-2-302, MCA. Use additional sheets as necessary.

Submit this form to the appropriate regional office; see contact information on the last page of this form.

Date Received \_\_\_\_\_  
Received By \_\_\_\_\_  
Scheduled Meeting Date \_\_\_\_\_

**1. Applicant Name** \_\_\_\_\_  
Mailing Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Home Phone \_\_\_\_\_ Other Phone \_\_\_\_\_  
Email: \_\_\_\_\_

**2. Representative Name** (if other than Applicant) \_\_\_\_\_  
 Representative is Consultant  Representative is Attorney  Representative is Other  
Mailing Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Home Phone \_\_\_\_\_ Other Phone \_\_\_\_\_  
Email: \_\_\_\_\_

**3. Are you requesting a preapplication meeting for a permit or change application?**  
 Permit  Change

**4. Identify the following elements of the proposed permit or change in appropriation.**

- a) The flow rate and volume of water required:  
Flow Rate \_\_\_\_\_  GPM  CFS      Volume \_\_\_\_\_ Acre-Feet
- b) The point of diversion:  
Point of Diversion #1 \_\_\_\_ 1/4 \_\_\_\_ 1/4 \_\_\_\_ 1/4 Section \_\_\_\_, Township \_\_\_\_  N  S, Range \_\_\_\_  E  W  
County \_\_\_\_\_  
Lot/Tract \_\_\_\_\_ Block \_\_\_\_\_ Subdivision Name \_\_\_\_\_  
Point of Diversion #2 \_\_\_\_ 1/4 \_\_\_\_ 1/4 \_\_\_\_ 1/4 Section \_\_\_\_, Township \_\_\_\_  N  S, Range \_\_\_\_  E  W  
County \_\_\_\_\_  
Lot/Tract \_\_\_\_\_ Block \_\_\_\_\_ Subdivision Name \_\_\_\_\_
- c) The place of use:  
\_\_\_\_ Acres \_\_\_\_ Lot \_\_\_\_ Block \_\_\_\_ 1/4 \_\_\_\_ 1/4 \_\_\_\_ 1/4 Sec \_\_\_\_, Twp \_\_\_\_  N  S, Rge \_\_\_\_  E  W  
\_\_\_\_ Acres \_\_\_\_ Lot \_\_\_\_ Block \_\_\_\_ 1/4 \_\_\_\_ 1/4 \_\_\_\_ 1/4 Sec \_\_\_\_, Twp \_\_\_\_  N  S, Rge \_\_\_\_  E  W  
\_\_\_\_ Acres \_\_\_\_ Lot \_\_\_\_ Block \_\_\_\_ 1/4 \_\_\_\_ 1/4 \_\_\_\_ 1/4 Sec \_\_\_\_, Twp \_\_\_\_  N  S, Rge \_\_\_\_  E  W  
\_\_\_\_ Acres \_\_\_\_ Lot \_\_\_\_ Block \_\_\_\_ 1/4 \_\_\_\_ 1/4 \_\_\_\_ 1/4 Sec \_\_\_\_, Twp \_\_\_\_  N  S, Rge \_\_\_\_  E  W



\_\_\_\_\_ Acres \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Sec \_\_\_\_\_, Twp \_\_\_\_\_  N  S, Rge \_\_\_\_\_  E  W

d) The source of water: \_\_\_\_\_

e) The proposed purpose: \_\_\_\_\_

f) For a change in appropriation right, the water right(s) proposed for change:

Type of water right \_\_\_\_\_ Basin \_\_\_\_\_ Water Right # \_\_\_\_\_

Type of water right \_\_\_\_\_ Basin \_\_\_\_\_ Water Right # \_\_\_\_\_

Type of water right \_\_\_\_\_ Basin \_\_\_\_\_ Water Right # \_\_\_\_\_

g) For a change in appropriation right, an explanation of historical use of the right(s) proposed for change:

h) Any proposed place of storage, if applicable (only if storage capacity is greater than 0.1 acre-feet):

#1 Capacity: Surface Acres \_\_\_\_\_ x Max Depth (feet) \_\_\_\_\_ x (.4 for dams/.5 for pits) = \_\_\_\_\_ Acre-Feet

Location: \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Section \_\_\_\_\_, Township \_\_\_\_\_  N  S, Range \_\_\_\_\_  E  W

#2 Capacity: Surface Acres \_\_\_\_\_ x Max Depth (feet) \_\_\_\_\_ x (.4 for dams/.5 for pits) = \_\_\_\_\_ Acre-Feet

Location: \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Section \_\_\_\_\_, Township \_\_\_\_\_  N  S, Range \_\_\_\_\_  E  W

#3 Capacity: Surface Acres \_\_\_\_\_ x Max Depth (feet) \_\_\_\_\_ x (.4 for dams/.5 for pits) = \_\_\_\_\_ Acre-Feet

Location: \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Section \_\_\_\_\_, Township \_\_\_\_\_  N  S, Range \_\_\_\_\_  E  W

i) For applications proposing a new well or wells, the well depth(s) and location:

New Well #1 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Section \_\_\_\_\_, Township \_\_\_\_\_  N  S, Range \_\_\_\_\_  E  W

County \_\_\_\_\_

Lot/Tract \_\_\_\_\_ Block \_\_\_\_\_ Subdivision Name \_\_\_\_\_

Estimated Well Depth \_\_\_\_\_ Feet

New Well #2 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 Section \_\_\_\_\_, Township \_\_\_\_\_  N  S, Range \_\_\_\_\_  E  W

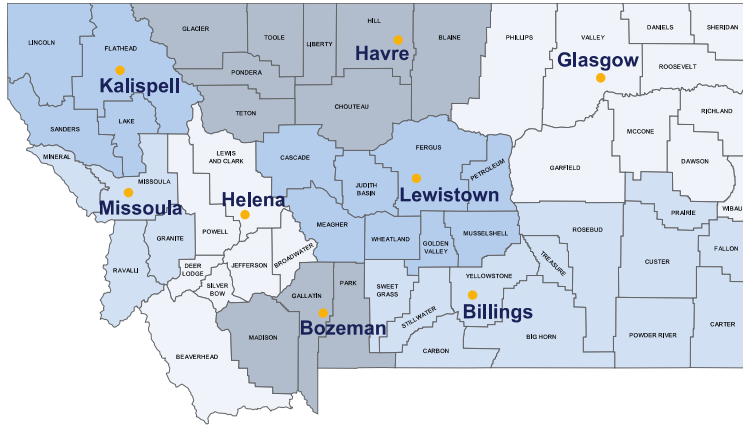
County \_\_\_\_\_

Lot/Tract \_\_\_\_\_ Block \_\_\_\_\_ Subdivision Name \_\_\_\_\_

Estimated Well Depth \_\_\_\_\_ Feet



# WATER RESOURCES REGIONAL OFFICES



## **BILLINGS**

Airport Industrial Park, 1371 Rimtop Dr  
Billings, MT 59105-9702

PHONE 406-247-4415 FAX 406-247-4416  
EMAIL [DNRCBillingsWater@mt.gov](mailto:DNRCBillingsWater@mt.gov)

*Big Horn, Carbon, Carter, Custer, Fallon, Powder River, Prairie, Rosebud, Stillwater, Sweet Grass, Treasure, and Yellowstone Counties*

## **BOZEMAN**

2273 Boot Hill Court, Suite 110  
Bozeman, MT 59715-7249

PHONE 406-586-3136 FAX 406-587-9726  
EMAIL [DNRCBozemanWater@mt.gov](mailto:DNRCBozemanWater@mt.gov)

*Gallatin, Madison, and Park Counties*

## **GLASGOW**

222 6th Street South, PO Box 1269  
Glasgow, MT 59230-1269

PHONE 406-228-2561  
EMAIL [DNRCGlasgowWater@mt.gov](mailto:DNRCGlasgowWater@mt.gov)

*Daniels, Dawson, Garfield, McCone, Phillips, Richland, Roosevelt, Sheridan, Valley, and Wibaux Counties*

## **HAVRE**

210 6th Ave., PO Box 1828  
Havre, MT 59501-1828

PHONE 406-265-5516  
EMAIL [DNRCHavreWater@mt.gov](mailto:DNRCHavreWater@mt.gov)

*Blaine, Chouteau, Glacier, Hill, Liberty, Pondera, Teton, and Toole Counties*

## **HELENA**

1424 9th Ave., PO Box 201601,  
Helena, MT 59620-1601

PHONE 406-444-6999 FAX 406-444-9317  
EMAIL [DNRCHelenaWater@mt.gov](mailto:DNRCHelenaWater@mt.gov)

*Beaverhead, Broadwater, Deer Lodge, Jefferson, Lewis and Clark, Powell, and Silver Bow Counties*

## **KALISPELL**

655 Timberwolf Parkway, Suite 4  
Kalispell, MT 59901-1215

PHONE 406-752-2288  
EMAIL [DNRCKalispellWater@mt.gov](mailto:DNRCKalispellWater@mt.gov)

*Flathead, Lake, Lincoln, and Sanders Counties*

## **LEWISTOWN**

613 Northeast Main St., Suite E  
Lewistown, MT 59457-2020

PHONE 406-538-7459  
EMAIL [DNRCLewistownWater@mt.gov](mailto:DNRCLewistownWater@mt.gov)

*Cascade, Fergus, Golden Valley, Judith Basin, Meagher, Musselshell, Petroleum, and Wheatland Counties*

## **MISSOULA**

2705 Spurgin Rd. Bldg. C, PO Box 5004  
Missoula, MT 59806-5004

PHONE 406-721-4284 FAX 406-542-5899  
EMAIL [DNRCMissoulaWater@mt.gov](mailto:DNRCMissoulaWater@mt.gov)

*Granite, Mineral, Missoula, and Ravalli Counties*



## Existing Rights

- Abstracts of supplemental, associated, or otherwise related water rights

**Existing Rights**

**STATE OF MONTANA**  
**DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION**  
1424 9TH AVENUE P.O. BOX 201601 HELENA, MONTANA 59620-1601

## GENERAL ABSTRACT

**Water Right Number:** 76M 45355-00 STATEMENT OF CLAIM

**Version:** 2 -- REEXAMINED

**Version Status:** ACTIVE

**Owners:** ALBERTON, TOWN OF  
PO BOX 115  
ALBERTON, MT 59820-0115

**Priority Date:** JANUARY 30, 1923

**Enforceable Priority Date:** JANUARY 30, 1923

**Type of Historical Right:** USE

**Purpose (Use):** MUNICIPAL

**Maximum Flow Rate:** 50.00 GPM

**Maximum Volume:** 80.86 AC-FT

**Source Name:** SPRING, UNNAMED TRIBUTARY OF CLARK FORK RIVER

**Source Type:** GROUNDWATER

**Point of Diversion and Means of Diversion:**

<u>ID</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1	1	NWNENE	3	14N	23W	MINERAL

**Period of Diversion:** JANUARY 1 TO DECEMBER 31

**Diversion Means:** HEADGATE

**Reservoir:** OFF STREAM

<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
	NENE	3	14N	23W	MINERAL

**Diversion to Reservoir:** DIVERSION # 1

**Reservoir:** OFF STREAM

<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
	NENE	3	14N	23W	MINERAL

**Diversion to Reservoir:** DIVERSION # 1

**Period of Use:** JANUARY 1 to DECEMBER 31

**Place of Use:**

<u>ID</u>	<u>Acres</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1			S2NENE	3	14N	23W	MINERAL
2			S2NWNW	2	14N	23W	MINERAL
3			N2SWNW	2	14N	23W	MINERAL
4			SEnw	2	14N	23W	MINERAL
5			S2SWNE	2	14N	23W	MINERAL
6			N2NWSE	2	14N	23W	MINERAL
7			NWNESE	2	14N	23W	MINERAL

---

**Remarks:**

THE WATER RIGHTS FOLLOWING THIS STATEMENT ARE ASSOCIATED WHICH MEANS THE RIGHTS SHARE THE SAME PLACE OF USE

13904-00            45355-00

STARTING IN 2008, PERIOD OF DIVERSION WAS ADDED TO MOST CLAIM ABSTRACTS, INCLUDING THIS ONE.

EXISTENCE OF THE CLAIMED RESERVOIR CANNOT BE CONFIRMED WITH AVAILABLE DATA.

**STATE OF MONTANA**  
**DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION**  
1424 9TH AVENUE P.O. BOX 201601 HELENA, MONTANA 59620-1601

## GENERAL ABSTRACT

**Water Right Number:** 76M 13904-00 PROVISIONAL PERMIT  
**Version:** 1 -- ORIGINAL RIGHT  
**Version Status:** ACTIVE

**Owners:** ALBERTON, TOWN OF  
PO BOX 115  
ALBERTON, MT 59820-0115

**Priority Date:** JULY 8, 1977 at 08:05 A.M.  
**Enforceable Priority Date:** JULY 8, 1977 at 08:05 A.M.

**Purpose (Use):** MUNICIPAL

**Maximum Flow Rate:** 120.00 GPM

**Maximum Volume:** 161.00 AC-FT

**Source Name:** GROUNDWATER

**Source Type:** GROUNDWATER

**Point of Diversion and Means of Diversion:**

<u>ID</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1		NWNE	3	14N	23W	MINERAL

**Period of Diversion:** JANUARY 1 TO DECEMBER 31

**Diversion Means:** WELL

**Well Depth:** 300.00 FEET

**Static Water Level:** 99.00 FEET

**Casing Diameter:** 8.00 INCHES

**Purpose (Use):** MUNICIPAL

**Volume:** 161.00 AC-FT

**Period of Use:** JANUARY 1 to DECEMBER 31

**Place of Use:**

<u>ID</u>	<u>Acres</u>	<u>Govt Lot</u>	<u>Qtr Sec</u>	<u>Sec</u>	<u>Twp</u>	<u>Rge</u>	<u>County</u>
1			S2NENE	3	14N	23W	MINERAL
2			S2NWNW	2	14N	23W	MINERAL
3			N2SWNW	2	14N	23W	MINERAL
4			SENE	2	14N	23W	MINERAL
5			S2SWNE	2	14N	23W	MINERAL
6			N2NWSE	2	14N	23W	MINERAL
7			NWNESE	2	14N	23W	MINERAL

**Remarks:**

THE WATER RIGHTS FOLLOWING THIS STATEMENT ARE ASSOCIATED WHICH MEANS THE RIGHTS SHARE THE SAME PLACE OF USE

13904-00

45355-00

**ASSOCIATED RIGHT**

THIS CERTIFICATE IS ASSOCIATED WITH WATER RIGHT NO. 76M-W045355.