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

Water Resources Division – Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

6/1/2026

KELLY AND SHELLY WILLS
3032 QUEEN ST
MISSOULA MT 59801-8651

Subject: Correct and Complete Application for Beneficial Water Use Permit No. 76LJ 30172339

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,

Abigail Williams
Water Resource Specialist
Kalispell Regional Office
Abigail.Williams@mt.gov

From: Williams, Abby
To: "KELLY M WILLS"
Subject: Errata for Technical Analysis
Date: Tuesday, May 26, 2026 2:08:00 PM
Attachments: image001.png
TA_Report_76LJ^30172339_WILLS_SW_Permit_Errata.docx

Hi Kelly,
Please see attached for the Technical Analysis Errata to correct the volume and flow rate on the original document.

I will have a determination for you application to you by 6/1/26!
Best,

Abigail Williams | Water Resource Specialist

Water Rights Bureau, New Appropriations, Kalispell Regional Office

Montana Department of Natural Resources and Conservation

655 Timberwolf Pkwy, Ste. 4, Kalispell, MT 59901

DESK: 406-752-2735 **EMAIL**: Abigail.Williams@MT.gov
Website | **Facebook** | **X (Twitter)** | **Instagram**
How did we do? Let us know here: Feedback Survey

Surface Water Permit Technical Analyses Report- Notice of Errata

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

Abigail Williams, Water Resource Specialist, Kalispell Regional Office

Applicant	Kelly and Shelly Wills
Application No.	76LJ 30172339
Proposed Point of Diversion (POD)	S2SESE Section 11, Township 25N, Range 22W, Lake County

Overview

This memo documents a correction to the Groundwater Permit Technical Analyses Report prepared for Application No. 76LJ 30172339 by Kelly and Shelly Wills. An error was identified in the flow rate and diverted volume requested by the applicants. The flow rate of 30 gallons per minute and the diverted volume of 3.5 acre-feet is incorrect, and a flow rate of 25 gallons per minute and a volume of 3.73 acre-feet is what was proposed by the Applicant's on submitted form 600P-B. Therefore, the corrected report sections are shown below using the proposed flow rate and diverted volume. Table 1 and section 1.0 have been updated to the correct volume below.

1.0 Application Details

The Applicant proposes to divert water from Ronan Creek (Lake Mary Ronan) from April 15 to October 15 at a rate of 25 gallons per minute (GPM) up to a volume of 3.73-acre feet (AF) per year for lawn and garden. Water will be used from April 15 to October 15 to irrigate 1.5 acres of lawn and garden. The point of diversion from the lake is in S2SESE Section 11, Township 25N, Range 22W, Lake County, Montana (**Figure 1**). The proposed place of use is in Government Lot 7, S2SESE, Section 11, Township 25N, Range 22W, Lake County, Montana(**Figure 1**).

Table 1: Summary of the Proposed Use

Source	Flow Rate (GPM)	Diverted Volume (AF)	Purpose	Period of Diversion	Period of Use	Point of Diversion	Place of Use
Lake Mary Ronan	25	3.73	Lawn and Garden	04/15 to 10/15	04/15 to 10/15	S2SESE Section 11, Township 25N, Range 22W, Lake County	Government Lot 7, S2SESE Section 11, Township 25N, Range 22W, Lake County

PURPOSE AND DIVERSION INFORMATION

WORK COPY

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? Surface

16. What is the source name? Lake Mary Ronan

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. See Ex. A and B.

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** ☑ *GPM* ☐ *CFS*	**Volume** *(Acre-Feet)*
Lawn & Garden	Pump	1.5	4/15-10/15	4/15-10/15	25	3.73
			Total Flow Rate and Volume Required		25	3.73

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	

Application Materials

- Application
- Any information submitted with Application including maps

Application Materials

APPLICATION FOR BENEFICIAL WATER USE PERMIT

§ 85-2-302, MCA

Form No. 600 *(10/2025)*

For Department Use Only

RECEIVED
DNRC Water Resources
MAY 08 2026
Kalispell Unit

Application # 30172339 Basin 76LJ
Priority Date 5/8/26 Time 11:30 AM/PM
Rec'd By AW
Fee Rec'd $ 700.00 Check # CASH
Deposit Receipt # KWV726250B6
Payor Shelly & Kelly Wills
Refund $ _____ Date _____

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.

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

Applicant Name Kelly M. and Shelly Wills
Mailing Address 3032 Queen City Missoula State MT Zip 59801
Phone Numbers: Home 406.370.8559 Work _____ Cell 406.370.1790
Email Address kmwills@willslawpc.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 ☐ 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.

_____
_____
_____
_____
_____
_____

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.

_____
_____
_____
_____
_____

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? Surface

16. What is the source name? Lake Mary Ronan

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. See Ex. A and B.

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** ☑ *GPM* ☐ *CFS*	**Volume** *(Acre-Feet)*
Lawn & Garden	Pump	1.5	4/15-10/15	4/15-10/15	25	3.73
				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	

POINT(S) OF DIVERSION

20. Describe the proposed location of the point(s) diversion to the nearest ¼ ¼ ¼ Section. Label each POD with the POD ID number used for the project map (question 17).

POD #	¼	¼	¼	Sec.	Twp.	Rge.	County	Lot	Block	Tract	Subdivision	Gov. Lot
1	SW	SE	SE	11	25N	22W	LAKE	7			South Mary Coves	7

PLACE OF USE

21. What are the geocodes of the place of use?

15-3581-11-4-01-12-0000	

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

Acres	Gov. Lot	Block	¼	¼	¼	Sec.	Twp.	Rge.	County
1.5	7		SW	SE	SE	11	25N	22W	LAKE

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). KMW/SW KMW/SW

76LJ 30050229 is ~~primarily~~ for domestic use ~~with limited lawn and garden use~~. It will not be used in conjunction with this permit.

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
76LJ 30050229	04/01-10/31	04/01-0/31	19 GPM	4.5 AF

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

25.a. If yes, explain.

ADVERSE EFFECT

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

The power supply to the pump can be interrupted/turned off and irrigation suspended in response to a call being made.

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

Applicant will regulate/reduce the volume of water diverted during times of water shortage. The irrigation system will be controlled by a control box that allows for easy regulation of the water use so volume/use can be reduced or suspended in the event of a water shortage to protect senior water rights.

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.

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).

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.

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.

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.

Please see the attached vicinity map (Ex. A) and parcel view (Ex. B). The parcel view is marked to show the point of diversion, the route of the main line and the different irrigation zones. The system will utilize a submersible pump with the pump intake located approximately 60 feet from the high water mark - the point of diversion. The intake will be have a backflow preventer/check valve to prevent backflow into the lake/water supply. The intake will have a filter to protect the pump from large debris. The main line will be 2" high density polyethylene (HDPE), total length of approximately 595 ft. The irrigation zones will be served by 1" HDPE. Elevation gain is 36 ft, friction loss is 27.6 ft based on length of main line to furthest zone and the 1" HDPE serving the zone. Based on the 30 psi design, total dynamic head (TDH) is 133. See Ex. C for TDH calculation worksheet. See Ex. D for water use calculations.

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.

Water will be diverted from Lake Mary Ronan using a submersible pump. Based on a TDH of 133 and a maximum flow of 25 gpm, a Munro MXS~~206~~ submersible pump will satisfy the irrigation system's needs and will be utilized. See Ex. E pump sizing. Should the Munro MXS~~206~~ submersible pump or comparable pump be unavilable or is cost prohibitive, a centrifigal pump that is properly sized to the system such as the LP300B will be used.

Will use the MX205 or MX204 per the pump curve

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.

Because this is a closed system, no conveyance losses should be experienced. As explained above, the conveyance infrastructure is designed to provide sufficient flow and volume to service the system throughout the 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.

The point of diversion and the irrigation zones are noted on Ex. B. The 1.5 acres to be irrigated will be divided into 9 irrigation zones. Each zone will be separately controlled by a control valve and will utilize either K-Rain RN 200/300 fullly adjustable rotary nozzles or K-Rain RPS75i rotors at an operating pressure of 30 psi. Additional detail concerning the irrigation zones and specifications for the K-Rain sprinklers is attached as Ex. F.

37. ☐ **Y** ☑ **N** Does the proposed conveyance require easements?

37.a. If yes, explain.

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.

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.

41. ☐ **Y** ☑ **N** Is the means of diversion for any proposed point of diversion a well?

IF YES,

41.a. ☐ **Y** ☐ **N** Have all wells been drilled?

41.b. For all wells that have been drilled, what is the name of the well driller and, if available, what is their license number?

_____

41.c. ☐ **Y** ☐ **N** For all wells yet to be drilled, will a licensed well driller construct the wells?

41.d. ☐ **S** ☐ **NA** Submit any well logs not yet submitted to the Department.

BENEFICIAL USE

42. ☑ **Y** ☐ **N** 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.

42.a. ☑ **Y** ☐ **N** If yes, do all proposed beneficial uses fall within Department standards?

42.b. If no Department standard exists, or if any proposed beneficial use falls outside of Department standards, explain how the requested flow rate and volume are reasonable for the purpose.

_____
_____
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43. ☐ **Y** ☑ **N** Will your proposed project be subject to DEQ requirements for a public water supply (PWS) system or Certificate of Subdivision Approval (COSA)?

44. ☐ **Y** ☑ **N** Are you proposing to use surface water for in-house domestic use?

44.a. ☐ **Y** ☐ **N** If yes, does a COSA exist for the proposed place of use?

44.a.i. ☐ **S** ☐ **NA** If yes, please submit the COSA.

44.a.ii. ☐ **Y** ☐ **N** If no, have you researched or consulted with DEQ regarding their requirements?

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.

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.

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.

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)? 3 years

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

We anticipate completing the irrigation system in 3 phases with the first phase consisting of Zone 1, 2, and 3, the second phase Zones 4, 5 and 6, and the final phase Zones 7, 8 and 9. Three years should be sufficient to complete the project.

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 Kelly M. Wills

Applicant Signature Kelly M. Wills Date: 5/8/26

Printed Name Shelly Wills

Applicant Signature Shelly Wills Date: 5.8.26

Printed Name _____

Applicant Signature _____ Date: _____

Application for Beneficial Water Use

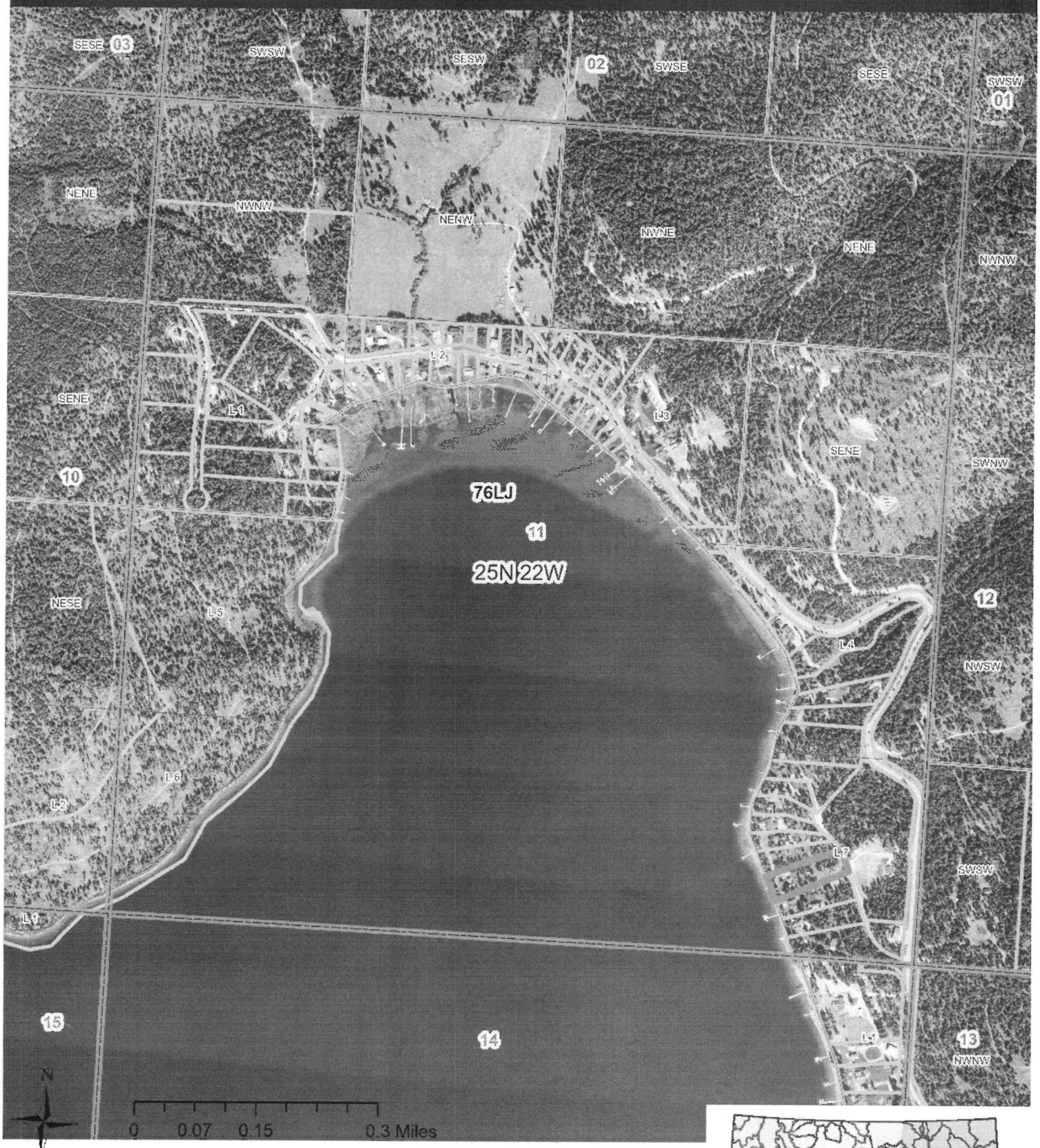
Kelly M. and Shelly Wills

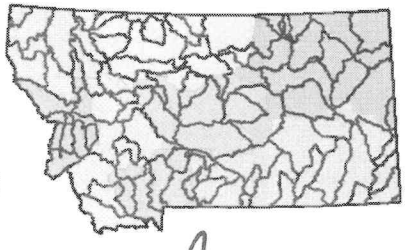
No. 76LJ 30172339

EXHIBIT A and B

Vicinity map and parcel view

Preapplication 76LJ 30172339, Kelly and Shelly Wills





MONTANA DNRC

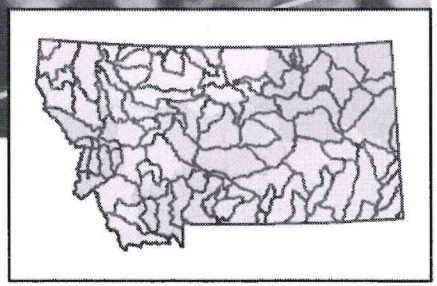
Map Created: 11/17/2025
Author: Abigail Williams
Water Resource Specialist

Legend

- Township & Range
- Section
- Quarter Sections
- Parcels

Exh A

Preapplication 76LJ 30172339, Kelly and Shelly Wills



Map Created: 11/17/2025
Author: Abigail Williams
Water Resource Specialist

Elements depicted on this map are for illustrative purposes and have not been surveyed by the Department. MSDI PLSS: USA Topo Maps: Copyright: 2011 National

Legend

- Quarter Sections
- Section
- Township & Range
- Parcels
- Parcels selection

Ex. B

Application for Beneficial Water Use

Kelly M. and Shelly Wills

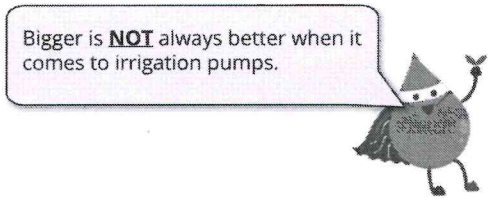
No. 76LJ 30172339

EXHIBIT C

Total Dynamic Head calculation worksheet

Pump Sizing Worksheet

If you have any questions, email us at **support@dripdepot.com**



Irrigation System Gallons Per Minute (GPM)

Pumping Requirements
To size a pump, first figure total GPM needed. Add up the flow rate of all the emitters on the system (or zone). Emitter spec sheets will note emitter flow rates at the PSI you plan to operate them at.

Note: Drip emitters are often listed in GPH instead of GPM. Divide GPH by 60 to get GPM. ***Ex. GPH ÷ 60 = GPM***

25 **GPM**

Total Dynamic Head (TDH)

Suction Lift
To determine Suction Lift, measure the vertical distance between the water level at the lowest point and the pump inlet. (Total distance in feet).

? How to calculate this: This is the vertical distance between the water level and the pump inlet. (If using a submersible pump this will be zero.)

0 **Feet**

+

Elevation Change
To figure Elevation Change, measure the vertical distance from the pump inlet to the highest point in the system. (Total distance in feet.)

? How to calculate this: This is the vertical distance between the pump inlet and the highest point in your system. The highest point can be an emitter or simply a run of tubing or pipe.

36 **Feet**

+

Friction Loss
To determine Friction Loss you will need to know the pipe or tubing type, its inside diameter and the flow rate going through it. Once you have this information you can reference the manufacturer's friction loss charts on the following pages. Charts are available for Schedule 40 and 80 PVC, Oval Hose and Layflat. If you are using ½" to 1" poly tubing, you can input the variables into our Friction Loss Calculator here.

.55 X 5.95 = 3.27 (main)
9.84 X .78 = 7.67 (Zone 9)

? How to calculate this: Determine the total Friction Loss in PSI by referencing the charts or friction loss calculator. You only need to know the material (PVC, Poly, etc), its inside diameter and the flow rate going through it in GPM or GPH. To convert this friction loss to head in feet, simply multiply it by 2.31.

Ex. Friction Loss PSI 10.94 ***x 2.31 = Head in Feet (or Feet of Head).***

27.6 **Feet**

+

Required PSI
To determine the Required PSI, check the spec sheets for your emitters and find the ones with the highest optimal operating pressure. This will be your Required PSI.

? How to calculate this: Locate the highest operating pressure for your emitters and multiply that by 2.31 to convert it to head in feet.

Ex. PSI required on highest PSI zone 30 ***x 2.31 =*** ____ ***Feet.***

69.3 **Feet**

=

Total Dynamic Head (TDH)
Total the sum of Suction Lift, Elevation Change, Friction Loss, Required PSI. This total equals TDH.

133 **TDH**

Take your GPM and TDH and reference our Pump Chart to determine the right pump for you!

Dripdepot

support@dripdepot.com

Ex. C

Hunter®

FRICTION LOSS CHARACTERISTICS
POLYETHYLENE (PE)
SDR-PRESSURE RATED TUBE
(2306, 3206, 3306) SDR 7, 9, 11.5, 15 C = 140
PSI loss per 100 feet of tube (PSI/100 FT)
Sizes 1/2" thru 6"
Flow GPM 1 thru 600

SIZE	1/2"		3/4"		1"		1 1/4"		1 1/2"		2"		2 1/2"		3"		4"		6"		SIZE
ID	0.622		0.824		1.049		1.380		1.610		2.067		2.469		3.068		4.026		6.065		ID
FLOW G.P.M.	VELOCITY F.P.S.	P.S.I. LOSS	VELOCITY F.P.S.	P.S.I. LOSS	VELOCITY F.P.S.	P.S.I. LOSS	VELOCITY F.P.S.	P.S.I. LOSS	VELOCITY F.P.S.	P.S.I. LOSS	VELOCITY F.P.S.	P.S.I. LOSS	VELOCITY F.P.S.	P.S.I. LOSS	VELOCITY F.P.S.	P.S.I. LOSS	VELOCITY F.P.S.	P.S.I. LOSS	VELOCITY F.P.S.	P.S.I. LOSS	FLOW G.P.M.
1	1.05	0.49	0.60	0.12	0.37	0.04	0.21	0.01	0.15	0.00	0.09	0.00									1
2	2.10	1.76	1.20	0.45	0.74	0.14	0.42	0.04	0.31	0.02	0.19	0.01									2
3	3.16	3.73	1.80	0.95	1.11	0.29	0.64	0.08	0.47	0.04	0.28	0.01	0.20	0.00							3
4	4.21	6.35	2.40	1.62	1.48	0.50	0.85	0.13	0.62	0.06	0.38	0.02	0.26	0.01							4
5	5.27	9.60	3.00	2.44	1.85	0.76	1.07	0.20	0.78	0.09	0.47	0.03	0.33	0.01	0.21	0.00					5
6	6.32	13.46	3.60	3.43	2.22	1.06	1.28	0.28	0.94	0.13	0.57	0.04	0.40	0.02	0.26	0.01					6
7	7.38	17.91	4.20	4.56	2.59	1.41	1.49	0.37	1.10	0.18	0.66	0.05	0.46	0.02	0.30	0.01					7
8	8.43	22.93	4.80	5.84	2.96	1.80	1.71	0.47	1.25	0.22	0.76	0.07	0.53	0.03	0.34	0.01					8
9	9.49	28.52	5.40	7.26	3.33	2.24	1.92	0.59	1.41	0.28	0.85	0.08	0.60	0.03	0.39	0.01					9
10	10.54	34.67	6.00	8.82	3.70	2.73	2.14	0.72	1.57	0.34	0.95	0.10	0.66	0.04	0.43	0.01					10
11	11.60	41.36	6.00	10.53	4.07	3.25	2.35	0.86	1.73	0.40	1.05	0.12	0.73	0.05	0.47	0.02	0.27	0.00			11
12	12.65	48.60	7.21	12.37	4.44	3.82	2.57	1.01	1.88	0.48	1.14	0.14	0.80	0.06	0.52	0.02	0.30	0.01			12
14	14.76	64.65	8.41	16.46	5.19	5.08	2.99	1.34	2.20	0.63	1.33	0.19	0.93	0.08	0.60	0.03	0.35	0.01			14
16	16.87	82.79	9.61	21.07	5.93	6.51	3.42	1.71	2.51	0.81	1.52	0.24	1.07	0.10	0.69	0.04	0.40	0.01			16
18	18.98	02.97	10.81	26.21	6.67	8.10	3.85	2.13	2.83	1.01	1.71	0.30	1.20	0.13	0.78	0.04	0.45	0.01			18
20			12.01	31.86	7.41	9.84	4.28	2.59	3.14	1.22	1.90	0.36	1.33	0.15	0.86	0.05	0.50	0.01			20
22			13.21	38.01	8.15	11.74	4.71	3.09	3.46	1.46	2.10	0.43	1.47	0.18	0.95	0.06	0.55	0.02			22
24			14.42	44.65	8.89	13.79	5.14	3.63	3.77	1.72	2.29	0.51	1.60	0.21	1.04	0.07	0.60	0.02			24
26			15.62	41.79	9.64	16.00	5.57	4.21	4.09	1.99	2.48	0.59	1.74	0.25	1.12	0.09	0.65	0.02			26
28			16.82	59.41	10.38	18.35	5.99	4.83	4.40	2.28	2.67	0.68	1.87	0.29	1.21	0.10	0.70	0.03			28
30			18.02	67.50	11.12	20.85	6.42	5.49	4.72	2.59	2.86	0.77	2.00	0.32	1.30	0.11	0.75	0.03	0.33	0.00	30
35					12.97	27.74	7.49	7.31	5.50	3.45	3.34	1.02	2.34	0.43	1.51	0.15	0.88	0.04	0.38	0.01	35
40					14.83	35.53	8.56	9.36	6.29	4.42	3.81	1.31	2.67	0.55	1.73	0.19	1.00	0.05	0.44	0.01	40
45					16.68	44.19	9.64	11.64	7.08	5.50	4.29	1.63	3.01	0.69	1.95	0.24	1.13	0.06	0.49	0.01	45
50					18.53	53.71	10.71	14.14	7.87	6.68	4.77	1.98	3.34	0.83	2.16	0.29	1.25	0.08	0.55	0.01	50
55							11.78	16.87	8.65	7.97	5.25	2.36	3.68	1.00	2.38	0.35	1.38	0.09	0.61	0.01	55
60							12.85	19.82	9.44	9.36	5.72	2.78	4.01	1.17	2.60	0.41	1.51	0.11	0.66	0.01	60
65							13.92	22.99	10.23	10.86	6.20	3.22	4.35	1.36	2.81	0.47	1.63	0.13	0.72	0.02	65
70							14.99	26.37	11.01	12.46	6.68	3.69	4.68	1.56	3.03	0.54	1.76	0.14	0.77	0.02	70
75							16.06	29.97	11.80	14.16	7.16	4.20	5.01	1.77	3.25	0.61	1.88	0.16	0.83	0.02	75
80							17.13	33.77	12.59	15.95	7.63	4.73	5.35	1.99	3.46	0.69	2.01	0.18	0.88	0.03	80
85							18.21	37.79	13.37	17.85	8.11	5.29	5.68	2.23	3.68	0.77	2.13	0.21	0.94	0.03	85
90							19.28	42.01	14.16	19.84	8.59	5.88	6.02	2.48	3.90	0.86	2.26	0.23	0.99	0.03	90
95									14.95	21.93	9.07	6.50	6.35	2.74	4.11	0.95	2.39	0.25	1.05	0.03	95
100									15.74	24.12	9.54	7.15	6.69	3.01	4.33	1.05	2.51	0.28	1.10	0.04	100
110									17.31	28.77	10.50	8.53	7.36	3.59	4.76	1.25	2.76	0.33	1.22	0.05	110
120									18.88	33.80	11.45	10.02	8.03	4.22	5.20	1.47	3.02	0.39	1.33	0.05	120
130											12.41	11.62	8.70	4.90	5.63	1.70	3.27	0.45	1.44	0.06	130
140											13.36	13.33	9.37	5.62	6.06	1.95	3.52	0.52	1.55	0.07	140
150											14.32	15.15	10.03	6.38	6.50	2.22	3.77	0.59	1.66	0.08	150
160											15.27	17.08	10.70	7.19	6.93	2.50	4.02	0.67	1.77	0.09	160
170											16.23	19.11	11.37	8.05	7.36	2.80	4.27	0.75	1.88	0.10	170
180											17.18	21.24	12.04	8.95	7.08	3.11	4.53	0.83	1.99	0.11	180
190											18.14	23.48	12.71	9.89	8.23	3.44	4.78	0.92	2.10	0.12	190
200											19.09	25.81	13.38	10.87	8.66	3.78	5.03	1.01	2.21	0.14	200
225													15.05	13.52	9.75	4.70	5.66	1.25	2.49	0.17	225
250													16.73	16.44	10.83	5.71	6.29	1.52	2.77	0.21	250
275													18.40	19.61	11.92	6.82	6.92	1.82	3.05	0.25	275
300															13.00	8.01	7.55	2.13	3.32	0.29	300
325															14.08	9.29	8.18	2.48	3.60	0.34	325
350															15.17	10.65	8.81	2.84	3.88	0.39	350
375															16.25	12.10	9.43	3.23	4.15	0.44	375
400															17.33	13.64	10.06	3.64	4.43	0.50	400
425															18.42	15.26	10.69	4.07	4.71	0.55	425
450															19.50	16.97	11.32	4.52	4.99	0.62	450
475																	11.95	5.00	5.26	0.68	475
500																	12.58	5.50	5.54	0.75	500
550																	13.84	6.56	6.10	0.89	550
600																	15.10	7.70	6.65	1.05	600

Note: Shaded areas of chart indicate velocities over 5' per second. Use with Caution.

Application for Beneficial Water Use

Kelly M. and Shelly Wills

No. 76LJ 30172339

EXHIBIT D

Water use/needs calculations

The system utilizes a submersible pump with the intake located approximately 60 feet from the high-water mark. The intake will have a backflow preventer/check valve to prevent backflow into the lake/water supply. The intake will also utilize a filter to protect the pump from large debris. The main line will consist of 2" HDPE pipe and have a total length of ≈ 595 ft. Control boxes with control valves will be utilized to control water flow to the 9 irrigation zones. The irrigation zones will be served by 1" HDPE pipe. The irrigation system is sized at 30 psi and is designed with head-to-head coverage.

- Zone 1 consists of 22 K-Rain RN200 and RN300 fully adjustable rotary nozzles as follows:
  - 2 RN200 90° nozzles and 16ft radius at .34 gpm
  - 11 RN200 180° nozzles and 16ft radius at .67 gpm
  - 6 RN200 360° nozzles and 16ft radius at 1.35 gpm
  - 3 RN300 360° nozzles and 26ft radius at 3 gpm

Zone 1 requires < 25 gpm (25.11 gpm actual)

- Zone 2 consists of 16 K-Rain RN200 and RN300 fully adjustable rotary nozzles as follows:
  - 4 RN200 180° nozzles and 16 ft radius at .67 gpm
  - 6 RN300 180° nozzles and 26 ft radius at 1.5 gpm
  - 6 RN300 360° nozzles and 26 ft radius at 1.5 gpm

Zone 2 requires < 21 gpm (20.68 gpm actual)

- Zone 3 consists of 12 K-Rain RN200 and RN300 fully adjustable rotary nozzles as follows:
  - 6 RN200 180° nozzles and 16ft radius at .67
  - 6 RN300 360° nozzles and 26ft radius at 3 gpm

Zone 3 requires < 22 gpm (22.02 gpm actual)

- Zones 4 and 5 each consist of 4 K-Rain RPS 75i rotors and 6 RN300 fully adjustable rotary nozzles as follows:
  - 4 RPS 75i using #2.5 nozzle @ 180° and 26ft radius at 1.5 gpm
  - 6 RN300 360° nozzles and 26ft radius at 3 gpm

Zones 4 and 5 each require 24 gpm

- Zones 6, 7 and 8 each consist of 4 K-Rain RPS 75i rotors and 5 RN300 fully adjustable rotary nozzles as follows:
  - 4 RPS 75i using #2.5 nozzle @ 180° and 26ft radius at 1.5 gpm
  - 5 RN300 360° nozzles and 26ft radius at 3 gpm

Zones 6, 7 and 8 each require 21 gpm

F.v.D

- Zone 9 consist of10 K-Rain RN200 and RN300 fully adjustable rotary nozzles as follows:
  - 2 RN 200180° nozzles and 16 ft radius at .67 gpm
  - 5 RN300 180° nozzles and 26 ft radius at 1.5 gpm
  - 3 RN300 360° nozzles and 26ft radius at 3 gpm

Zones requires 18 gpm (17.87 gpm actual)

Based on a maximum flow requirement of 25 gpm (Zone 1) and elevation gain of ≈ 36 ft, a friction loss of 27.6 ft based on length of mainline from inlet to furthest zone plus the length of 1" poly pipe serving the sprinklers on the furthest zone (Zone 9), and utilizing the required psi of 30, the total dynamic head (TDH) is 133. The system will utilize a Munro MXS206 submersible[1] pump. Utilizing a TDH of 133 and a maximum flow of 25 gpm, the pump will satisfy the irrigation system's needs. See Ex. D pump curve and pump information.

Specifications for the K-Rain fully adjustable rotary nozzles and K-Rain RPS 75i rotors are attached.

[1] An alternate pump may be utilized based on availability and cost. If an alternate pump is used, it will be properly sized to meet the TDH and maximum flow/gpm of the irrigation system.

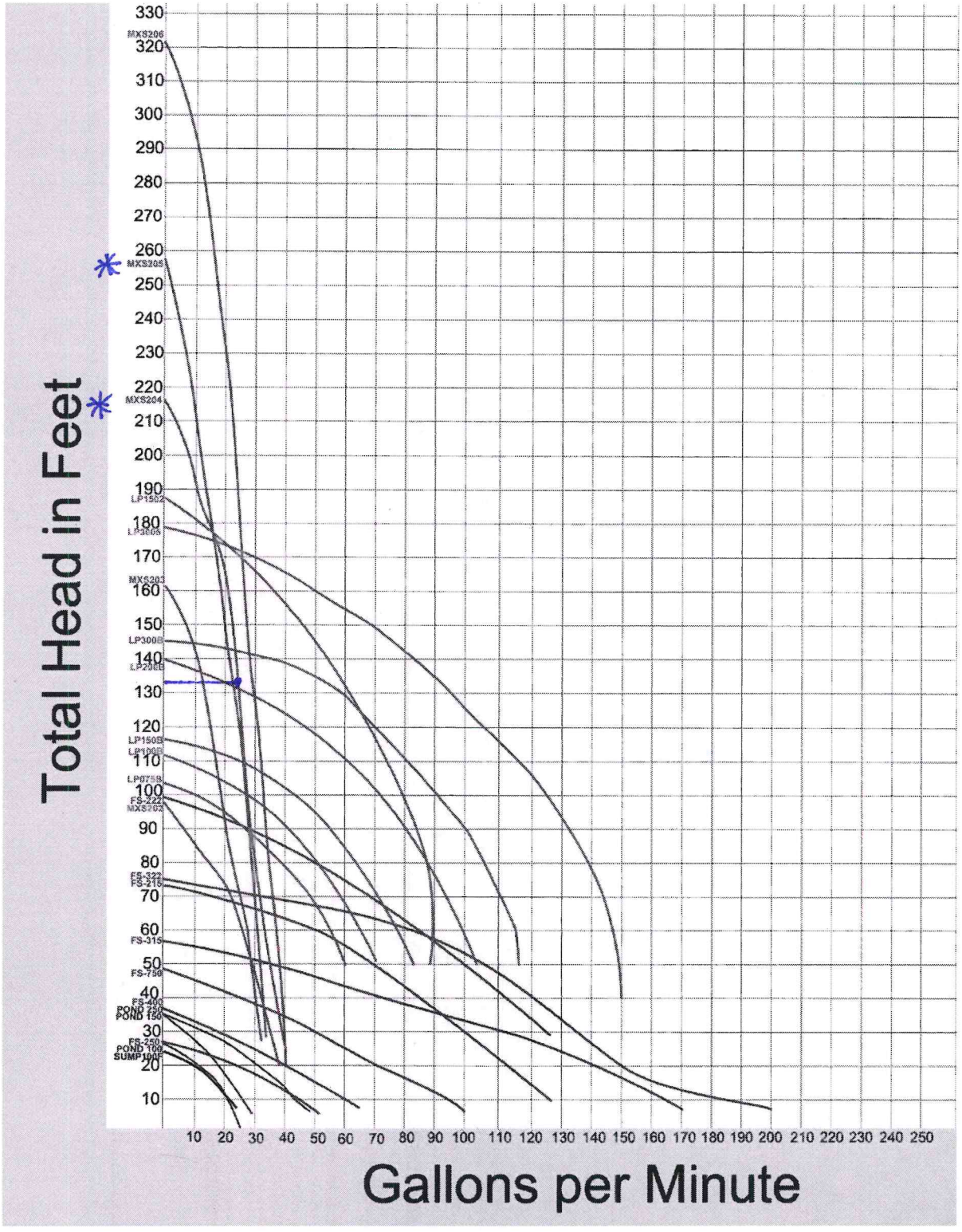
Application for Beneficial Water Use

Kelly M. and Shelly Wills

No. 76LJ 30172339

EXHIBIT E

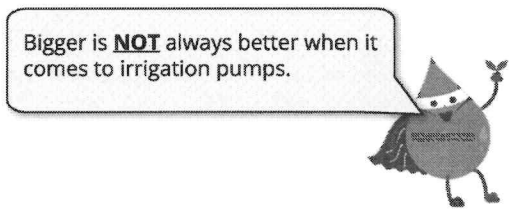
Pump curve and specifications


Total Head in Feet
330
320
310
300
290
280
270
260
250
240
230
220
210
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
MXS206
MXS205
MXS204
LP1502
LP3005
MXS203
LP3008
LP2508
LP1503
LP1005
LP0758
FS-222
MXS202
FS-322
FS-215
FS-315
FS-750
FS-400
POND 250
POND 150
FS-250
POND 100
SUMP100F
10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250
Gallons per Minute

Ex. E

Pump Sizing Worksheet

If you have any questions, email us at **support@dripdepot.com**

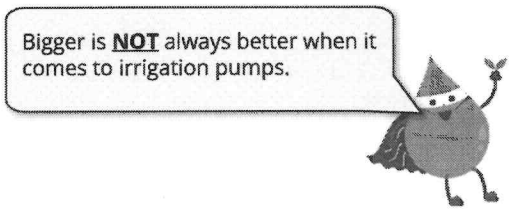


Shop our Pump Selection

Submersible Pumps						
Pump	**HP**	**GPM Range**	**Head Ft Range**	**Max Head Ft**	**Max GPM Capacity**	**MFR Part Number**
Munro Pond-Residential Submersible Pump	1/7	0 - 21	8 - 25'	25'	21	POND100
	1/5	0 - 28	12 - 34'	34'	28	POND150
	1/3	0 - 47	4 - 34'	34'	47	POND250
Munro MXS 5" Multistage Submersible Pumps	3/4	0 - 37	10 - 95'	95'	37	MXS202
	1	0 - 30	20 - 160'	160'	30	MXS203
	1.2	0 - 38	20 - 210'	210'	38	MXS204
	1.5	0 - 30	20 - 255'	255'	30	MXS205
	2	0 - 40	10 - 325'	325'	40	MXS206
Munro FS Series Pumps	1/3	0 - 50	7 - 28'	28'	50	FS-250
	1/2	0 - 60	7 - 35'	35'	60	FS-400
	1	0 - 90	4 - 50'	50'	90	FS-750
	2	0 - 125	10 - 70'	70'	125	FS-215
	2	0 - 175	9 - 55'	55'	175	FS-315
Munro Submersible Sump 1/7 hp	1/7	0 - 21	8 - 25'	25'	21	Sump100F

Pump Sizing Worksheet

If you have any questions, email us at **support@dripdepot.com**



Shop our Pump Selection

Centrifugal Pumps						
Pump	**HP**	**GPM Range**	**Head Ft Range**	**Max Head Ft**	**Max GPM Capacity**	**MFR Part Number**
Munro LP Series Centrifugal Booster Pump	3/4	0 - 60	50 - 105'	105'	60	LP075B
	1	0 - 70	50 - 110'	110'	70	LP100B
	1.5	0 - 75	50 - 115'	115'	75	LP150B
	2	0 - 103	50 - 140'	140'	103	LP200B
	3	0 - 115	50 - 145'	145'	115	LP300B
Munro Centrifugal LP 1502 Pump	2.5	0 - 80	60 - 185'	185'	80	LP1502B

Application for Beneficial Water Use

Kelly M. and Shelly Wills

No. 76LJ 30172339

EXHIBIT F

Irrigation and K-Rain sprinkler information

The system design is based on the DNRC/MSU Extension service research-based recommendation for proper lawn and garden care that calls for 1 to 1.5 inches of water per week in the spring and fall, and 2.5 inches per week in mid-summer. For purposes of this permit request, we based our calculation on the following watering schedule:

- Alternate watering with Zones 1-4 watering on day 1 and Zones 5-9 on day 2.
- Spring watering period = April 15 – June 30 or 77 days
- Mid-Summer watering period = July 1 – August 31 or 62 days
- Fall watering period = September 1 – October 15 or 45 days

Using an alternate date watering schedule the Spring and Fall watering period is 1.5 in/wk week or 3 in/2 wks and the mid-summer is 2.5 in/wk or 5 in/2wks. Zones 1-4 will have 7 watering days during each 2-week period and Zones 5-9 will also have 7 watering days during each 2-week period.

ZONE 1: Using an average precipitation rate of .49in/hr, for Zones 1 which utilizes the K-Rain RN 200 and 300 fully adjustable rotary nozzles, the watering time for Spring and Fall is 53 minutes per watering day and the mid-Summer watering time is 87 minutes per day calculated as follows:

Spring and Fall

3" ÷ 7 watering days = .43 in/watering day

.43 in ÷ .49 in.hr = .88hr x 60 minutes/hr = 53 minutes watering time

Mid-Summer

5" ÷ 7 watering days = .71 in/watering day

.71 in ÷ .49 in.hr = .1.45hr x 60 minutes/hr = 87 minutes watering time

ZONE 2: Using an average precipitation rate of .48in/hr for Zone 2 which utilizes the K-Rain RN 200 and 300 fully adjustable rotary nozzles, the watering time for Spring and Fall is 54 minutes per watering day and the mid-Summer watering time is 89 minutes per day calculated as follows:

Spring and Fall

3" ÷ 7 watering days = .43 in/watering day

.43 in ÷ .48 in/hr x 60 minutes/hr = 54 minutes watering time

Mid-Summer

5" ÷ 7 watering days = .71 in/watering day

.71 in ÷ .48 in.hr x 60 minutes/hr = 89 minutes watering time

ZONE 3: Using an average precipitation rate of .47in/hr for Zone 3 which utilizes the K-Rain RN 200 and RN300 fully adjustable rotary nozzles, the watering time for Spring and Fall is 55 minutes per watering day and the mid-Summer watering time is 91 minutes per day calculated as follows:

F✓F

Spring and Fall

3" ÷ 7 watering days = .43 in/watering day

.43 in ÷ .47 in/hr x 60 minutes/hr = 55 minutes watering time

Mid-Summer

5" ÷ 7 watering days = .71 in/watering day

.71 in ÷ .47 in.hr x 60 minutes/hr =91 minutes watering time

ZONES 4 -8: Using an average precipitation rate of .46in/hr for Zones 4-8 which utilize the K-Rain RN 300 fully adjustable rotary nozzles, the watering time for Spring and Fall is 56 minutes per watering day and the mid-Summer watering time is 93 minutes per day calculated as follows:

Spring and Fall

3" ÷ 7 watering days = .43 in/watering day

.43 in ÷ .46 in/hr x 60 minutes/hr = 56 minutes watering time

Mid-Summer

5" ÷ 7 watering days = .71 in/watering day

.71 in ÷ .46 in/hr x 60 minutes/hr = 93 minutes watering time

ZONE 9: Using an average precipitation rate of .49in/hr, for Zones 1 which utilizes the K-Rain RN 200 and 300 fully adjustable rotary nozzles, the watering time for Spring and Fall is 53 minutes per watering day and the mid-Summer watering time is 87 minutes per day calculated as follows:

Spring and Fall

3" ÷ 7 watering days = .43 in/watering day

.43 in ÷ .49 in.hr = .88hr x 60 minutes/hr = 53 minutes watering time

Mid-Summer

5" ÷ 7 watering days = .71 in/watering day

.71 in ÷ .49 in.hr = .1.45hr x 60 minutes/hr = 87 minutes watering time

Total water use is calculated based on 122 total watering days in the Spring/Fall and 62 total watering days in Mid-Summer. Because Zones 1-4 watering days alternate with Zones 5-9, each zone will water 61 watering days on the Spring/Fall schedule, and 31 watering days on the Mid-Summer schedule. The total water needs calculation is set forth below in the Water Needs Calculation table.

WATER NEEDS CALCULATION

		SPRING AND FALL				SUMMER			
Zone	GPM	Run Time Minutes	Gal/Day	# of Days	Total Each Zone	Run Time Minutes	Gal/Day	# of Days	Total Each Zone
1	25	53	1,325	61	80,825	87	2,175	31	67,425
2	21	54	1,134	61	69,174	89	1,869	31	57,939
3	22	55	1,210	61	73,810	91	2,002	31	62,062
4	24	56	1,344	61	81,984	93	2,232	31	69,192
5	24	56	1,344	61	81,984	93	2,232	31	69,192
6	21	56	1,176	61	71,736	93	1,953	31	60,543
7	21	56	1,176	61	71,736	93	1,953	31	60,543
8	21	56	1,176	61	71,736	93	1,953	31	60,543
9	18	53	954	61	58,194	87	1,566	31	48,546
				Total	661,179			Total	555,985

Total Usage	1,217,164
Acre Feet	3.73

The total water needed is calculated to be 1,217,507 gallons. This converts to 3.73AF of water:

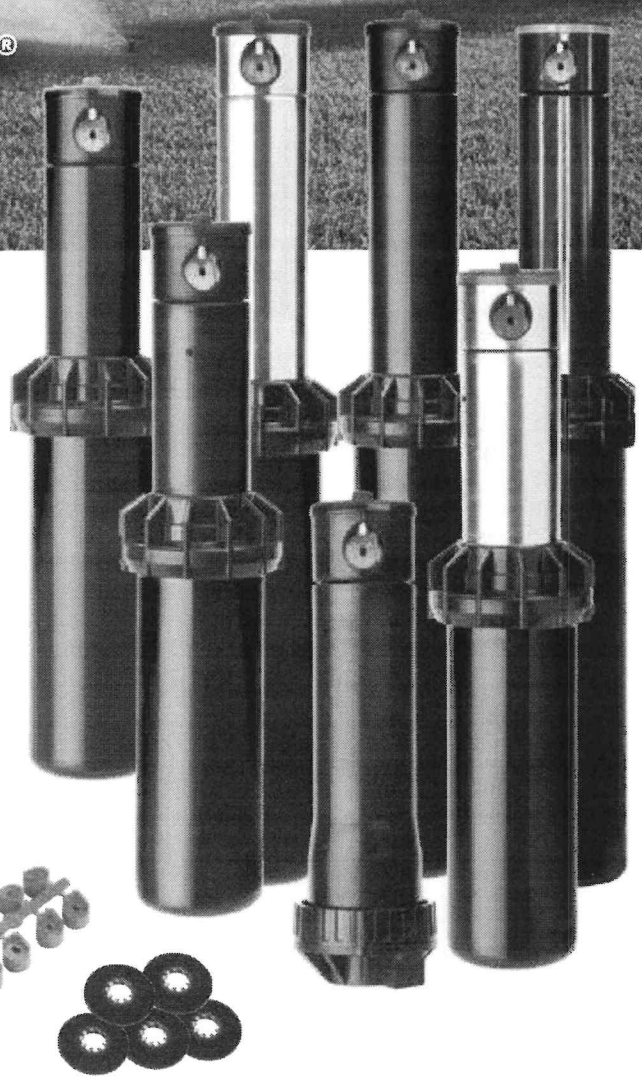
Acre-feet conversion:

1,217,164 gallons
÷ 325,851 gallons/acre-feet (AC)
3.73 AF of water

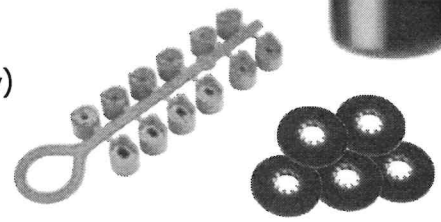
The volume standards set forth by the DNRC provide for 2.5AF/acre. The total acreage to be irrigated is 1.5 acres. Pursuant to DNRC volume standards, the acceptable volume based on the acreage is 3.75 AF (2.5 AF x 1.5A = 3.75AF). Thus, the water allocation that we request – 3.73AF – is within the volume standards of the DNRC.

RPS™ 75i Rotors

With Intelligent Flow Technology®



- Right position start
- Patented Intelligent Flow Technology® – Reduce distance and water flow simultaneously and proportionately
- Shut off flow from the head
- Patented Reversing Mechanism – Continuous reverse and return
- Wide Selection of Nozzles – Including standard and low angle for flexibility in system design
- Rugged RPS Family Construction and features
- Superior Uniformity, Conserves Water, Fewer Zones Required
- Save Time on Every Project — New or retrofit
- Includes 5 Free Check Valve Assemblies Per Box
- Universal Riser Assembly – Fits into existing Hunter® PGP® and PGP® Ultra cans
- Pressure Regulated – 45 PSI available (6" only)



Intelligent Flow Technology®

- Reduces distance and water flow simultaneously and proportionately
- Provides full on/off control

INLET SIZE
3/4"

RADIUS
26' - 48'

FLOW RATE
0.9 – 9.7 GPM

BEST IN THE INDUSTRY
WARRANTY
7 YEARS

Performance Data

NOZZLE	PRESSURE			NO ADJUSTMENT								-30% ADJUSTMENT								-50% ADJUSTMENT							
				RADIUS		FLOW		PRECIP in/hr				RADIUS		FLOW		PRECIP in/hr				RADIUS		FLOW		PRECIP in/hr			
	PSI	kPa	Bar	Ft.	M.	GPM	L/M	■	▲	■	▲	Ft.	M.	GPM	L/M	■	▲	■	▲	Ft.	M.	GPM	L/M	■	▲	■	▲
#1.0	30	207	2.1	31'	9.4	1.1	4.2	.22	.25	6	6	22'	7	0.8	3.0	.31	.36	8	9	16	5	0.6	2.3	.44	.51	11	13
	40	276	2.8	32'	9.8	1.4	5.3	.26	.30	7	8	22'	7	1.0	3.8	.38	.43	10	11	16	5	0.7	2.7	.53	.61	13	15
	50	345	3.4	33'	10.1	1.6	6.1	.28	.33	7	8	23'	7	1.1	4.1	.40	.47	10	12	17	5	0.8	3.0	.57	.65	14	17
	60	414	4.1	34'	10.4	1.8	6.8	.30	.35	8	9	24'	7	1.3	4.9	.43	.49	11	13	17	5	0.9	3.4	.60	.69	15	18
#1.5	30	207	2.1	33'	10.1	1.5	5.7	.27	.31	7	8	23'	7	1.1	4.1	.38	.44	10	11	17	5	0.8	3.0	.53	.61	13	16
	40	276	2.8	35'	10.7	1.8	6.8	.28	.33	7	8	25'	8	1.3	4.9	.40	.47	10	12	18	5	0.9	3.4	.57	.65	14	17
	50	345	3.4	35'	10.7	2.0	7.6	.31	.36	8	9	25'	8	1.4	5.3	.45	.52	11	13	18	5	1.0	3.8	.63	.73	16	18
	60	414	4.1	36'	11.0	2.2	8.3	.33	.38	8	10	25'	8	1.5	5.7	.47	.54	12	14	18	5	1.1	4.2	.65	.76	17	19
#2.0	30	207	2.1	33'	10.1	1.8	6.8	.32	.37	8	9	23'	7	1.3	4.9	.45	.53	11	13	17	5	0.9	3.4	.64	.74	16	19
	40	276	2.8	34'	10.4	2.1	7.9	.35	.40	9	10	24'	7	1.5	5.7	.50	.58	13	15	17	5	1.1	4.2	.70	.81	18	21
	50	345	3.4	36'	11.0	2.4	9.1	.36	.41	9	10	25'	8	1.7	6.4	.51	.59	13	15	18	5	1.2	4.5	.71	.82	18	21
	60	414	4.1	38'	11.6	2.7	10.2	.36	.42	9	11	27'	8	1.9	7.2	.51	.59	13	15	19	6	1.4	5.3	.72	.83	18	21
#2.5	30	207	2.1	35'	10.7	2.2	8.3	.35	.40	9	10	25'	8	1.5	5.7	.49	.57	12	14	18	5	1.1	4.2	.69	.80	18	20
Pre-installed	40	276	2.8	38'	11.6	2.6	9.8	.35	.40	9	10	27'	8	1.8	6.8	.50	.57	13	15	19	6	1.3	4.9	.69	.80	18	20
	50	345	3.4	39'	11.9	3.0	11.4	.38	.44	10	11	27'	8	2.1	7.9	.54	.63	14	16	20	6	1.5	5.7	.76	.88	19	22
	60	414	4.1	40'	12.2	3.3	12.5	.40	.46	10	12	28'	9	2.3	8.7	.57	.66	14	17	20	6	1.7	6.4	.79	.92	20	23
#3.0	30	207	2.1	38'	11.6	2.7	10.2	.36	.42	9	11	27'	8	1.9	7.1	.51	.59	13	15	19	6	1.4	5.3	.72	.83	18	21
	40	276	2.8	40'	12.2	3.1	11.7	.37	.43	9	11	28'	9	2.2	8.3	.53	.62	13	16	20	6	1.6	6.1	.75	.86	19	22
	50	345	3.4	41'	12.5	3.5	13.3	.40	.46	10	12	29'	9	2.5	9.5	.57	.66	14	17	21	6	1.8	6.8	.80	.93	20	24
	60	414	4.1	41'	12.5	3.9	14.8	.45	.52	11	13	29'	9	2.7	10.2	.64	.74	16	19	21	6	2.0	7.6	.89	1.03	23	26
#4.0	30	207	2.1	38'	11.6	3.5	13.3	.47	.54	12	14	27'	8	2.5	9.5	.67	.77	17	20	19	6	1.8	6.8	.93	1.08	24	27
	40	276	2.8	40'	12.2	4.0	15.1	.48	.56	12	14	28'	9	2.8	10.6	.69	.79	18	20	20	6	2.0	7.6	.96	1.11	24	28
	50	345	3.4	43'	13.1	4.4	16.7	.46	.53	12	13	30'	9	3.1	11.7	.65	.76	17	19	22	7	2.2	8.3	.92	1.06	23	27
	60	414	4.1	43'	13.1	4.9	18.6	.51	.59	13	15	30'	9	3.4	12.9	.73	.84	19	21	22	7	2.5	9.5	1.02	1.18	26	30
#5.0	30	207	2.1	43'	13.1	4.4	16.7	.46	.53	12	13	30'	9	3.1	11.7	.65	.76	17	19	22	7	2.2	8.3	.92	1.06	23	27
	40	276	2.8	43'	13.1	5.0	18.9	.52	.60	13	15	30'	9	3.5	13.3	.74	.86	19	22	22	7	2.5	9.5	1.04	1.20	26	31
	50	345	3.4	44'	13.4	5.5	20.8	.55	.63	14	16	31'	9	3.9	14.8	.78	.90	20	23	22	7	2.8	10.6	1.09	1.26	28	32
	60	414	4.1	42'	12.8	5.9	22.3	.64	.74	16	19	29'	9	4.1	15.5	.92	1.06	23	27	21	6	3.0	11.4	1.29	1.49	28	38
#6.0	30	207	2.1	40'	12.2	5.0	18.9	.60	.70	15	18	28'	9	3.5	13.3	.86	.99	22	25	20	6	2.5	9.5	1.20	1.39	30	35
	40	276	2.8	43'	13.1	5.9	22.3	.61	.71	15	18	30'	9	4.1	15.5	.88	1.01	22	26	22	7	3.0	11.4	1.23	1.42	31	36
	50	345	3.4	43'	13.1	6.6	25.0	.69	.79	18	20	30'	9	4.6	17.4	.98	1.13	25	29	22	7	3.3	12.5	1.37	1.59	35	40
	60	414	4.1	44'	13.4	7.3	27.6	.73	.84	19	21	31'	9	5.1	19.3	1.04	1.20	26	30	22	7	3.7	14.0	1.45	1.68	37	43
#8.0	30	276	2.8	43'	13.1	6.8	25.7	.71	.82	18	21	30'	9	4.8	18.2	1.01	1.17	26	30	22	7	3.4	12.9	1.42	1.64	36	42
	40	345	3.4	47'	14.3	7.9	29.9	.69	.80	18	20	33'	10	5.5	20.8	.98	1.14	25	29	24	7	4.0	15.1	1.38	1.59	35	40
	50	414	4.1	48'	14.6	8.8	33.3	.74	.85	19	22	34'	10	6.2	23.5	1.05	1.21	27	31	24	7	4.4	16.7	1.47	1.70	37	43
	60	483	4.8	47'	14.3	9.7	36.7	.85	.98	22	25	33'	10	6.8	25.7	1.21	1.40	31	35	24	7	4.9	18.6	1.69	1.95	43	50

Low Angle Performance Data

NOZZLE	PRESSURE			NO ADJUSTMENT								-30% ADJUSTMENT								-50% ADJUSTMENT							
				RADIUS		FLOW		PRECIP in/hr				RADIUS		FLOW		PRECIP in/hr				RADIUS		FLOW		PRECIP in/hr			
	PSI	kPa	Bar	Ft.	M.	GPM	L/M	■	▲	■	▲	Ft.	M.	GPM	L/M	■	▲	■	▲	Ft.	M.	GPM	L/M	■	▲	■	▲
#1.0	30	207	2.1	26'	7.9	0.9	3.4	.25	.29	6	7	18'	5	0.6	2.3	.35	.41	9	10	13	4	0.4	1.5	.50	.57	13	15
	40	276	2.8	27'	8.2	1.0	3.8	.26	.31	7	8	19'	6	0.7	2.7	.38	.44	10	11	14	4	0.5	1.9	.53	.61	13	15
	50	345	3.4	27'	8.2	1.2	4.5	.32	.37	8	9	19'	6	0.8	3.0	.45	.52	11	13	14	4	0.6	2.3	.63	.73	16	19
	60	414	4.1	26'	7.9	1.4	5.3	.40	.46	10	12	18'	5	1.0	3.8	.57	.66	14	17	13	4	0.7	2.7	.80	.92	20	24
#1.5	30	207	2.1	28'	8.5	1.3	4.9	.32	.37	8	9	20'	6	0.9	3.4	.46	.53	12	13	14	4	0.7	2.7	.64	.74	16	19
	40	276	2.8	29'	8.8	1.5	5.7	.34	.40	9	10	20'	6	1.1	4.2	.49	.57	12	14	15	5	0.8	3.0	.69	.79	18	20
	50	345	3.4	30'	9.1	1.7	6.4	.36	.42	9	11	21'	6	1.2	4.5	.52	.60	13	15	15	5	0.9	3.4	.73	.84	19	21
	60	414	4.1	31'	9.4	1.9	7.2	.38	.44	10	11	22'	7	1.3	4.9	.54	.63	14	16	16	5	1.0	3.8	.76	.88	19	22
#2.0	30	207	2.1	29'	8.8	1.9	7.2	.44	.50	11	13	20'	6	1.3	4.9	.62	.72	16	18	15	5	1.0	3.8	.87	1.00	22	26
	40	276	2.8	32'	9.8	2.2	8.3	.41	.48	10	12	22'	7	1.5	5.7	.59	.68	15	17	16	5	1.1	4.2	.83	.96	21	24
	50	345	3.4	33'	10.1	2.5	9.5	.44	.51	11	13	23'	7	1.8	6.8	.63	.73	16	19	17	5	1.3	4.9	.88	1.02	22	26
	60	414	4.1	34'	10.4	2.8	10.6	.47	.54	12	14	24'	7	2.0	7.6	.67	.77	17	20	17	5	1.4	5.3	.93	1.08	24	27
#3.0	30	207	2.1	32'	9.8	2.5	9.5	.47	.54	13	14	22'	7	1.8	6.8	.67	.78	17	20	16	5	1.3	4.9	.94	1.09	24	28
	40	276	2.8	34'	10.4	3.0	11.4	.50	.58	14	15	24'	7	2.1	7.9	.71	.82	18	21	17	5	1.5	5.7	1.00	1.15	25	29
	50	345	3.4	35'	10.7	3.5	13.3	.55	.64	15	16	25'	8	2.5	9.5	.79	.91	20	23	18	5	1.8	6.8	1.10	1.27	28	32
	60	414	4.1	36'	11.0	4.0	15.1	.59	.69	17	17	25'	8	2.8	10.6	.85	.98	22	25	18	5	2.0	7.6	1.19	1.37	30	35

**All precipitation rates calculated for 180° operation. For the precipitation rate for a 360° sprinkler, divide by 2.*

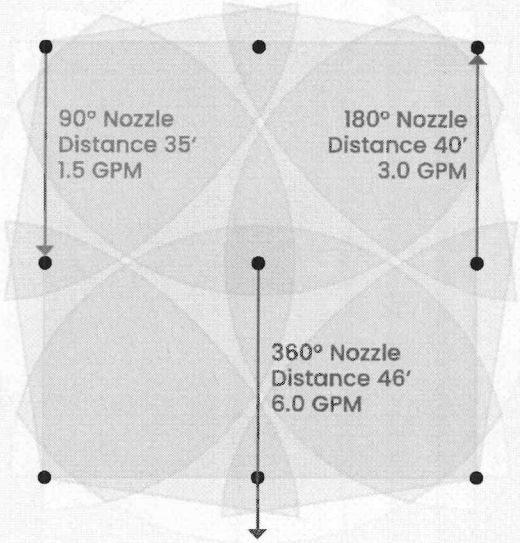
K-Rain Manufacturing Corporation
1640 Australian Avenue
Riviera Beach, FL 33404
PH: 1-561-844-1002
F: 1-561-842-9493
1-800-735-7246 I www.krain.com

Intelligent Flow Technology®

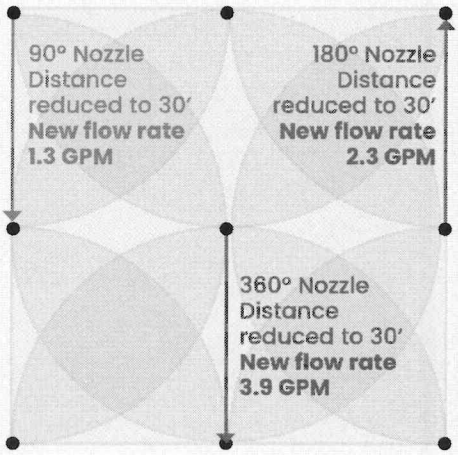
Turn the Flow Control on the RPS™ 75i Rotor with Intelligent Flow Technology® and something amazing happens—you get even landscape watering while also saving water. It reduces distance and flow rate simultaneously and proportionately. Also provides full on/off control from the head.

✓ Contractors stay dry ✓ Landscapes are evenly watered ✓ Water is saved

BEFORE Intelligent Flow Technology®
Total flow is 24 GPM - Precipitation rate is .64 in/hr



AFTER Intelligent Flow Technology®
Total flow is 18.3 GPM - Precipitation rate is .49 in/hr
24% Less Water Used!

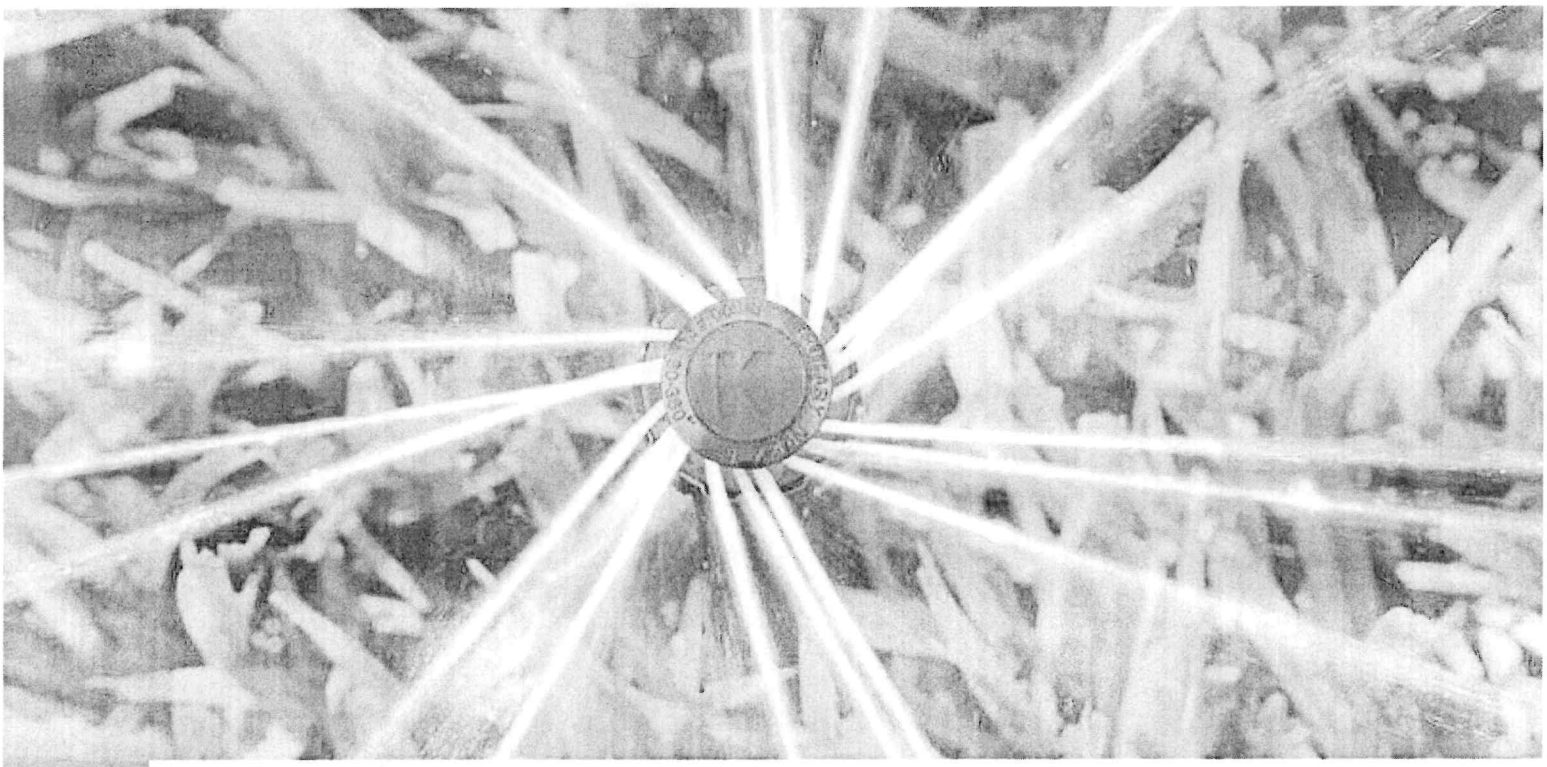


Specifications		
Radius	26' – 48' (7,9 – 14,6 m)	
Flow Rate	0.9 – 9.7 GPM (3,4 – 36,7 LPM)	
Pressure Range	20 – 70 PSI (1,4 – 4,8 bar)	
Precipitation Rate	.22 – .85 in/hr (6 – 22 mm/hr)	
Arc Setting Range	40° – 360°	
Nozzle Trajectory	26°	
Low Angle Nozzle Trajectory	11°	
Nozzles Included	8 Standard - 4 Low Angle	
4 inch	Riser height:	4 1/4" (10,81 cm)
	Retracted height:	7 3/8" (18,7 cm)
6 inch	Riser height:	6 1/4" (15,9 cm)
	Retracted height:	9 1/2" (24,1 cm)
Shrub	Height: 7 1/2" (19,1 cm)	
Inlet Size	3/4" (1,9 cm) Female Thread NPT	
Warranty	7 years	

Intelligent Flow Technology®

- Reduces distance and water flow simultaneously and proportionately
- Provides full on/off control

Watch the video. Scan this code with your smartphone camera.



Fully Adjustable Rotary Nozzle

A recognized water conserving tool

The K-Rain Fully Adjustable Nozzles use up to 30% less water and are eligible for conservation rebates and incentives in many areas. Check with your local water utility for information.

No other nozzle on the market today is fully adjustable from 80° to 360° offering maximum flexibility in system design and eliminating the need for multiple nozzles. One nozzle does it all.

Models

RN100-ADJ (Green)
80°-360° Adjustable
13' – 15' (4 – 4,6 m)

RN200-ADJ (Blue)
80°-360° Adjustable
16' – 19' (4,9 – 5,8 m)

RN300-ADJ (Red)
80°-360° Adjustable
26' – 30' (7,9 – 9,1 m)

Scan QR code to view

Performance Data

RN100-ADJ

ARC	PRESSURE		RADIUS		FLOW RATE		PRECIPITATION			
	PSI	Bars	Ft.	M.	GPM	L/M	■ in/hr	▲	■ mm/hr	▲
90°	30	2.07	13	3.96	0.22	0.83	0.50	0.58	11	12
	40	2.76	14	4.27	0.25	0.95	0.49	0.57	10	12
	50	3.45	15	4.57	0.30	1.14	0.51	0.59	11	12
180°	30	2.07	13	3.96	0.44	1.67	0.50	0.58	11	12
	40	2.76	14	4.27	0.50	1.89	0.49	0.57	10	12
	50	3.45	15	4.57	0.60	2.27	0.51	0.59	11	12
360°	30	2.07	13	3.96	0.90	3.41	0.51	0.59	11	12
	40	2.76	14	4.27	1.00	3.79	0.49	0.57	10	12
	50	3.45	15	4.57	1.20	4.54	0.51	0.59	11	12

RN200-ADJ

ARC	PRESSURE		RADIUS		FLOW RATE		PRECIPITATION			
	PSI	Bars	Ft.	M.	GPM	L/M	■ in/hr	▲	■ mm/hr	▲
90°	30	2.07	16	4.88	0.34	1.29	0.51	0.59	11	12
	40	2.76	18	5.49	0.41	1.55	0.49	0.56	10	12
	50	3.45	19	5.79	0.47	1.78	0.50	0.58	11	12
180°	30	2.07	16	4.88	0.67	2.54	0.50	0.58	11	12
	40	2.76	18	5.49	0.83	3.14	0.49	0.57	10	12
	50	3.45	19	5.79	0.94	3.56	0.50	0.58	11	12
360°	30	2.07	16	4.88	1.35	5.11	0.51	0.59	11	12
	40	2.76	18	5.49	1.70	6.44	0.51	0.58	11	12
	50	3.45	19	5.79	1.90	7.19	0.51	0.56	11	12

RN300-ADJ

ARC	PRESSURE		RADIUS		FLOW RATE		PRECIPITATION			
	PSI	Bars	Ft.	M.	GPM	L/M	■ in/hr	▲	■ mm/hr	▲
90°	30	2.07	26	7.92	0.80	3.03	0.46	0.53	10	11
	40	2.76	27	8.23	0.90	3.41	0.48	0.55	10	12
	50	3.45	29	8.84	1.00	3.79	0.46	0.53	10	11
180°	30	2.07	26	7.92	1.50	5.68	0.43	0.49	9	10
	40	2.76	27	8.23	1.60	6.06	0.42	0.49	9	10
	50	3.45	29	8.84	1.80	6.81	0.41	0.48	9	10
360°	30	2.07	26	7.92	3.00	11.36	0.43	0.49	9	10
	40	2.76	27	8.23	3.20	12.11	0.42	0.49	9	10
	50	3.45	28	8.53	3.80	14.38	0.47	0.54	10	11

*Data represents test results in zero wind. Adjust for local conditions.

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

Water Resources Division – Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

January 29, 2026

Kelly and Shelly Wills
3032 Queen St
Missoula MT 59801-8651

Subject: Completed Technical Analyses Report for Beneficial Water Use Permit Preapplication No. 76LJ 30172339

Dear Kelly and Shelly,

As designated on the submitted Preapplication Meeting Form per §85-2-302(3)(b), MCA, the Department of Natural Resources and Conservation (Department) has completed the technical analyses for Beneficial Water Use Permit Preapplication No. 76LJ 30172339 based on the information provided in your Preapplication Meeting Form accepted by the Department on December 22, 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 a Form 600 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 in §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 Kalispell Regional Office by July 28, 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 contact me at (406) 752-2735 or Abigail.Williams@mt.gov if you have any questions about the application process.

Sincerely,

Abigail Williams
Water Resource Specialist
Kalispell Regional Office

Encl.: Surface Water Permit Technical Analyses Report for Beneficial Water Use Permit Preapplication No. 76LJ 30172339

Surface Water Permit Technical Analyses Report

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

Abigail Williams, Water Resource Specialist, Kalispell Regional Office

Applicant	Kelly and Shelly Wills
Application No.	76LJ 30172339
Proposed Point of Diversion (POD)	S2SESE Section 11, Township 25N, Range 22W, Lake County

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 Surface Water Permit Technical Analyses Report contains the following sections:

Variances

No variances were requested for this application.

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

1.0 Application Details

The Applicant proposes to divert water from Ronan Creek (Lake Mary Ronan) from April 15 to October 15 at a rate of 30 gallons per minute (GPM) up to a volume of 3.5-acre feet (AF) per year for lawn and garden. Water will be used from April 15 to October 15 to irrigate 1.5 acres of lawn and garden. The point of diversion from the lake is in S2SESE Section 11, Township 25N, Range 22W, Lake County, Montana (**Figure 1**). The proposed place of use is in Government Lot 7, S2SESE, Section 11, Township 25N, Range 22W, Lake County, Montana(**Figure 1**).

Table 1: Summary of the Proposed Use

Source	Flow Rate (GPM)	Diverted Volume (AF)	Purpose	Period of Diversion	Period of Use	Point of Diversion	Place of Use
Lake Mary Ronan	30	3.5	Lawn and Garden	04/15 to 10/15	04/15 to 10/15	S2SESE Section 11, Township 25N, Range 22W, Lake County	Government Lot 7, S2SESE Section 11, Township 25N, Range 22W, Lake County

2.0 Surface Water Analysis

2.1 Source Description

Proposed Source of Water: Ronan Creek (Lake Mary Ronan)

Proposed Source Type: Lake

Proposed Point of Diversion: S2SESE Section 11, Township 25N, Range 22W, Lake County

2.2 Method of Estimation

Lake Volume: Bathymetric Data

2.3 Monthly Flow Rate and Volume

Methodology:

The Department quantified Lake Mary Ronan's volume using publicly available bathymetric data from the MT Department of Fish, Wildlife, and Parks (MTFWP) and adjusted using the following methodology. Lake Mary Ronan was surveyed on July 18, 2011 by MTFWP. The Department used ArcGIS to generate polygons of depth strata from this data, **Figure 2**, allowing the Department to quantify the total area of each depth stratum. The National Hydrography Dataset (NHD) Waterbody ArcGIS Polygon area was used for the zero-foot contour extent. This data was used in place of the MTFWP zero-foot contour because it appears to provide a more accurate representation of the lake boundary when compared to the USGS topographic map and aerial imagery. Lake Mary Ronan's area was calculated as 1,515.7 acres based on the sum of all depth strata areas. The end-area formula used for finding the volume of prismoidal forms was used to quantify the total volume of water within each depth stratum, **Table 2**. The process for applying

the end area formula to compute lake volume is found in the DNRC Technical Memorandum: Physical Availability of Ponds, dated April 22, 2019. The Department calculated **41,564.5 AF** as Lake Mary Ronan's total volume. The Department used the following equation to calculate the volume of Lake Mary Ronan:

End Area Formula

$$V = \frac{1}{2}H(A_1 + A_2)$$

H= The difference in depth between two successive depth contours;

A_1 = area of the lake within the outer depth contour being considered;

A_2 = area of the lake within the inner contour line under consideration.

Table 2: Physical Availability Bathymetric Analysis of Lake Mary Ronan Using the End-Area Formula

Contour Interval (ft)	H (ft)	Area (ac)	Total Area (ac)	Depth Strata (ft)	Volume (AF)
0	10	274.6	1,515.7	0-10	13,784.0
10	10	187.8	1,241.1	10-20	11,472.0
20	10	173.7	1,053.3	20-30	9,664.5
30	10	430.4	879.6	30-40	6,644.0
40	10	449.2	449.2		
				TOTAL VOLUME (AF)	**41,564.5**
---				**VOLUME STORED BY DAM (AF)**	**6,456.88**
---				**PHYSICALLY AVAILABLE VOLUME (AF)**	**35,107.62**

Three major streams suppling water to Lake Mary Ronan: Donaldson, Freeland, and Hilburn Creeks. A single stream, Ronan Creek, serves as the outlet of the lake. Ronan Creek flows southeast, discharging to Dayton Creek, a tributary to Flathead Lake.

A dam/dike structure on private land at the head of Ronan Creek holds and controls the waters of the reservoir known today as Lake Mary Ronan. A site visit was conducted by Mark Paulson of Aquatek Consulting for water right application 76LJ 30063101 on October 13, 2012. This site visit confirmed a dike with concrete weir structure approximately 25 ft long, 12 to 14 feet wide, and approximately four feet tall held back lake waters. The weir structure acted as an overflow structure.

Approximately 30 feet west of the overflow structure was an elliptical corrugated metal pipe (CMP) buried in the dike that extends from its upstream (lake) side to its downstream (creek) side. The CMP pipe measured 36 inches in diameter and was 56 inches long . The upstream end of the pipe was fitted with an adjustable steel slide gate embedded in a concrete headwall and secured with a padlock. The CMP is the primary means of releasing water for irrigation Claims

76LJ 45094, 76LJ 39786, 76LJ 45090, and 76LJ 45093 downstream on Ronan Creek. The maximum water surface elevation of Lake Mary Ronan, including the dam storage, is 3,701 feet according to the US Geological Survey (USGS) Topographic map (**Figure 2**).

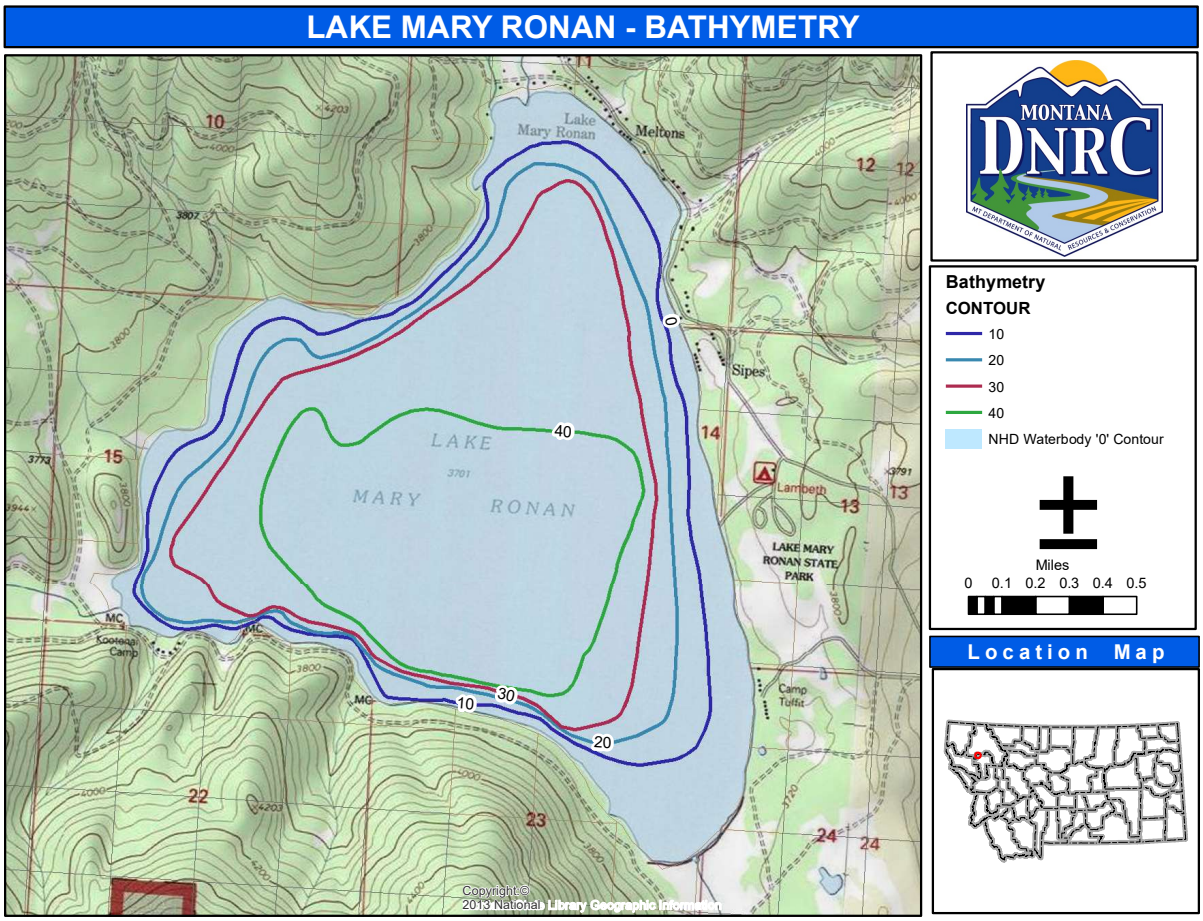


Figure 2: Bathymetric Map of Lake Mary Ronan showing the strata of the lake.

Due to the construction of the dam/dike on private land affecting the capacity of the lake, storage from the dam/dike structure needed to be quantified. Per a US Army Corps of Engineers Report entitled "Flood Plain Determination Lake Mary Ronan, Lake County Montana" dated September 1996, the minimum elevation of the CMP is 3,696.74 feet. It was found that 4.26 feet (3,701.0 feet – 3,696.74 feet = 4.26 feet) or approximately **6,456.9 AF** (4.26 feet x 1,515.7 acres = 6,456.9) of water could be stored and released by the CMP.

To be conservative, the Department estimated the physical availability of Lake Mary Ronan by subtracting the volume stored by the dam/dike structure from the maximum lake volume. As the Department has no way to quantify the annual volume and/or the timing of water released from Lake Mary Ronan; physical availability is limited to pre-dam/dike construction volume of Lake Mary Ronan. The volume of water physically available in Lake Mary Ronan is **35,107.6 AF (Table 2)**

3.0 Area of Potential Impact Analysis

The Area of Potential Impact (AOPI) for this application is:

The AOPI is the entirety of Lake Mary Ronan which is located within sections 10, 11, 13, 14, 15, 22, 23, and 24 in Township 25N, Range 22W, Lake County, Montana. A total of 24 surface water rights exist within the AOPI. A list of these water rights is in Appendix A.

Why this is an appropriate Area of Potential Impact:

Lake Mary Ronan has 3 streams inputting water along with potential groundwater upwelling to fill the lake. A single stream, Ronan Creek, serves as the outlet to Lake Mary Ronan. The entirety of the lake was chosen as the AOPI as the damn structure limits flow into Ronan Creek. A dam/dike structure on private land approximately 25 feet long, 12 to 14 feet wide, and approximately 4 feet deep holds back lake waters and the CMP is used to diver water for some appropriations.

Methodology:

The Department considered the source characteristics of Lake Mary Ronan and the dike/dam structure existing on private land that controls the flows into Ronan Creek. Flows into Ronan Creek are directly controlled by how the dam/dike is managed. As a result of the dam/dike structure the Department finds the AOPI of Lake Mary Ronan sufficient to evaluate physical availability.

Review

This document has been reviewed by the Department on January 28, 2026.

References

Department Standard Practice for Determining Physical Availability of Surface Water

Department Standard Practice for Area of Potential Impact Analysis

****

Appendix A: Water Rights within the Area of Potential Impact

Appendix A: Summary of Water Rights on Lake Mary Ronan			
Water Right Number	**Purpose**	**Volume**	**Period of Diversion**
76LJ 143853 00	COMMERCIAL	14	01/01 to 12/31
76LJ 664 00	DOMESTIC	1.5	01/01 to 12/31
76LJ 110789 00	DOMESTIC	0.25	01/01 to 12/31
76LJ 110790 00	DOMESTIC	0.25	01/01 to 12/31
76LJ 32526 00	DOMESTIC	1	06/01 to 09/30
76LJ 110787 00	DOMESTIC	1	01/01 to 12/31
76LJ 110785 00	DOMESTIC	0.25	01/01 to 12/31
76LJ 110786 00	DOMESTIC	0.75	01/01 to 12/31
76LJ 99148 00	DOMESTIC	1.5	01/01 to 12/31
76LJ 99075 00	DOMESTIC	1.5	01/01 to 12/31
76LJ 39786 00	IRRIGATION	2000	01/01 to 12/31
76LJ 45093 00	IRRIGATION	2000	05/10 to 09/10
76LJ 26581 00	IRRIGATION	10.6	05/15 to 09/15
76LJ 45094 00	IRRIGATION	1400	01/01 to 12/31
76LJ 45090 00	IRRIGATION	8600	01/01 to 12/31
76LJ 30006219	IRRIGATION; LAWN AND GARDEN	7.62	01/01 to 12/31
76LJ 30150632	LAWN AND GARDEN	1.97	04/15 to 10/15
76LJ 30113323	LAWN AND GARDEN	0.2	04/15 to 10/15
76LJ 30110395	LAWN AND GARDEN	2.7	04/15 to 10/15
76LJ 30063101	LAWN AND GARDEN	2.58	04/15 to 10/15
76LJ 30008226	LAWN AND GARDEN	0.63	04/01 to 10/01
76LJ 30005417	LAWN AND GARDEN	2.5	04/15 to 10/15
76LJ 41392 00	LAWN AND GARDEN; STOCK	1.35	01/01 to 12/31
76LJ 39634 00	MULTIPLE DOMESTIC	1.8	01/01 to 12/31

Preapplication Materials

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

Preapplication Materials

Water Resources Division – Kalispell Regional Office
655 Timberwolf Pkwy, Ste. 4
Kalispell, MT 59901-1215
(406) 752-2288
DNRCKalispellWater@mt.gov

December 22, 2025

KELLY & SHELLY WILLS
3032 QUEEN ST
MISSOULA MT 59801

Subject: Complete Preapplication Form for Beneficial Water Use Permit Application No. 76LJ 30172339

Dear Applicant,

The Kalispell Regional Office of the Department of Natural Resources and Conservation (DNRC or Department) received your Preapplication Meeting Form 600P-Part B and preapplication meeting fee December 15, 2025. The Department deemed the submitted Preapplication Meeting Form to be successfully completed per ARM 36.12.1302 on December 22, 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 December 22, 2025 (on or before February 5, 2026).
If you have any questions, please contact me at (406) 752-2735 or Abigail.Williams@mt.gov

Best,

Abigail Williams
Water Resource Specialist
Kalispell Regional Office
Abigail.Williams@mt.gov

PREAPPLICATION MEETING FORM: PART B
PERMIT
§ 85-2-302, MCA
Form No. 600P-B *(Revised 02/2025)*

For Department Use Only

Application # 30172339 Basin 76LJ
Form Received AW
Fee Rec'd $ 500.00 Check # 1061
Deposit Receipt # KW2611225
Payor Wills Properties, LLP
Form Returned
Refund $ Date

RECEIVED
DNRC Water Resources
DEC 15 2025
Kalispell Unit

PREAPPLICATION MEETING FEE
$ 500

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 Applicant is responsible for providing a "Follow-up Responses" document for all follow-up identified in Preapplication Meeting Form Part A (Form 600P-A). The Applicant may not alter Form 600P-A. If a response has changed to a question answered at the preapplication meeting, the Applicant can provide a new response in a separate document entitled "Amended Responses" with the question number labeled.

The following guidelines are applicable to both the "Follow-up Responses" and "Amended Responses" documents. Clearly label all question numbers. Answer questions in the same format as Form 600P-A. For responses in the form of checkboxes, write "Y", "N", or "S". 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 and tables. Tables must have the exact headings found on the form. Questions that require items to be submitted to the Department may be marked "S" when the required item is included with the document.

1. ☐ Y ■ N Are you submitting this form in response to a determination by the Department that a previously submitted Form 600P-B was inadequately completed?

   If yes,

   a. Date form was returned ("Form Returned" date found in "For Department Use Only" box on the previously submitted Form 600P-B): _____

   b. If a "Follow-up Responses" or "Amended Responses" document is required by questions 2 or 3, submit complete updated documents with responses that stand-alone. The Department will only use the most recently submitted "Follow-up Responses" and "Amended Responses" documents for departmental technical analyses or scientific credibility review; the Department will not use multiple versions of a document.

2. ■ Y ☐ N Were any questions identified as requiring follow-up on Form 600P-A?

   If yes,

   a. ■ S Submit "Follow-up Responses" document for all questions requiring follow-up.

3. ☐ Y ■ N Are you submitting amended responses to any questions from Form 600P-A?

If yes,

a. ☐ **S** Submit "Amended Responses" document and record in the table below each question number with an amended response. The amended response will entirely replace the previous response; the amended response cannot build off the previous response.

Question No.	Question No.	Question No.	Question No.

FOLLOW-UP AND AMENDED RESPONSES AFFIDAVIT & CERTIFICATION

"I attest that this preapplication meeting form (Form 600P-A and Form 600P-B), follow-up, and amended responses accurately portray the 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, amended responses, or follow-up materials (ARM 36.12.1302(6)(a))."

Applicant Signature — Date: 12/15/25

Applicant Signature — Date: 12/15/25

"We confirm that the preapplication form (Form 600P-A and Form 600P-B), amended responses, 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 required element of technical analysis based on the proposed project and the Department is able to proceed with the scientific credibility review (ARM 36.12.1303(8))."

Department Signature — Date: 12/22/2025

Department Signature — Date

FOLLOW-UP/AMENDED RESPONSES

QUESTION 2:

Please see the attached vicinity map (Ex. A) and parcel view (Ex. B) that consists of arial photographs. The parcel view is marked to show the point of diversion, the route of the mainline and the different irrigation zones.

QUESTION 5:

Calculations have been run using the GPM for each zone, the water run time for each zone in the Spring/Fall period (April 15 – June 30 and September 1 – October 15) and the run time for each zone in the Summer period (July 1 – August 31). The run time took into consideration both the precipitation rate of the sprinkler heads and the DNRC[1] guidelines for lawn and garden watering. The maximum flow rate for the different zones is 25 GPM. Using these calculations, the volume of water needed is 3.73 acre feet (AF).

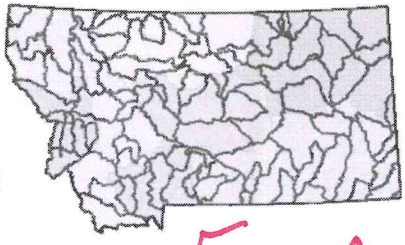
QUESTION 20:

The point of diversion (POD 1) is noted on Ex. B and is a perennial source. The maximum flow rate for the different zones is 25 GPM. The period of diversion is from April 15 through October 15. The total volume of water needed is 3.73 acre feet (AF).

---

[1] MSU Extension Service research-based recommendation for proper lawn and garden care that calls for 1 to 1.5 inches of water per week in the spring and fall, and 2.5 inches per week in mid-summer.

Preapplication 76LJ 30172339, Kelly and Shelly Wills



MONTANA DNRC

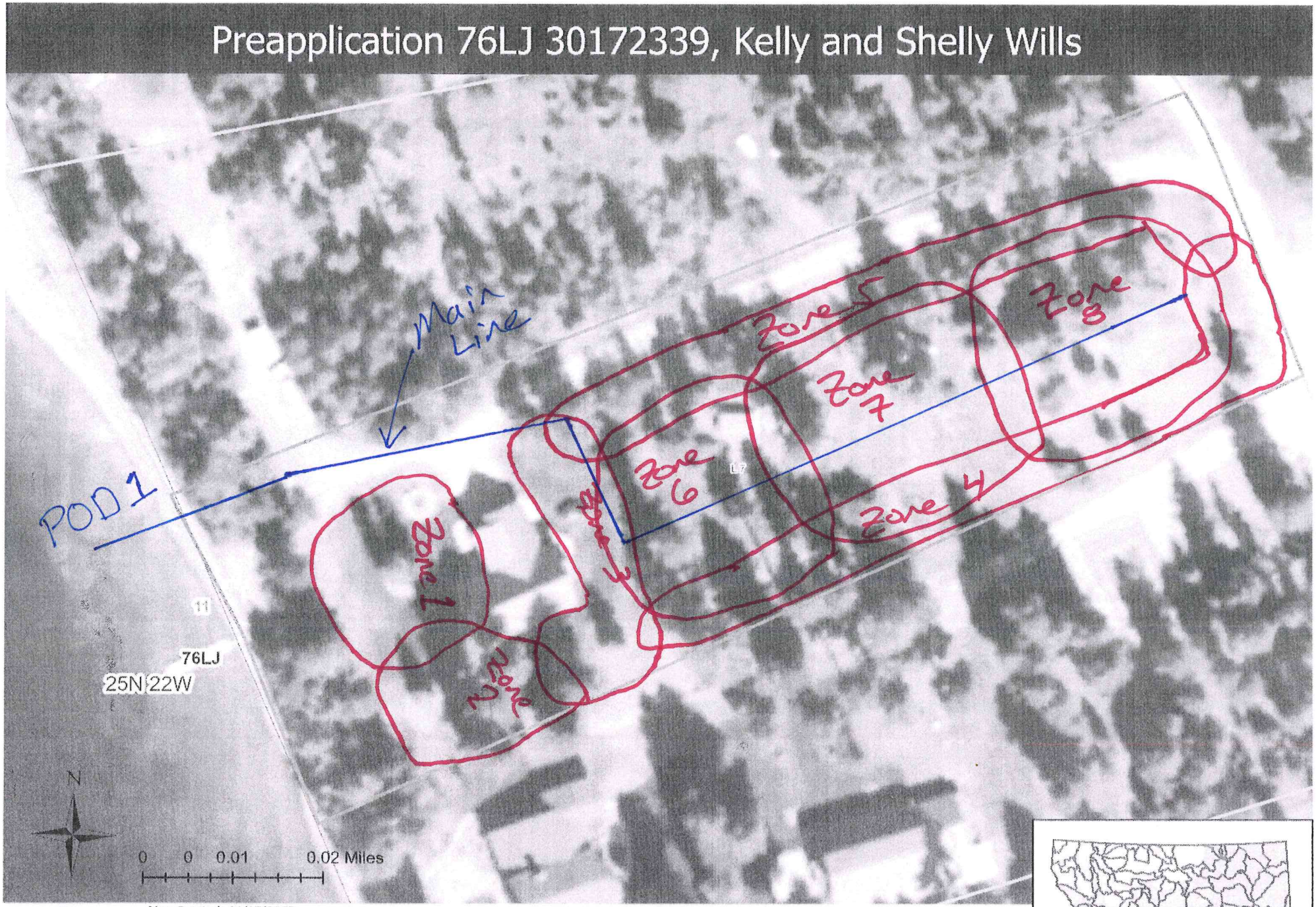
Map Created: 11/17/2025
Author: Abigail Williams
Water Resource Specialist

Legend

- Township & Range
- Section
- Quarter Sections
- Parcels

Ex A

Preapplication 76LJ 30172339, Kelly and Shelly Wills



Map Created: 11/17/2025
Author: Abigail Williams
Water Resource Specialist

Features depicted on this map are for illustrative purposes and have not been surveyed by the Department. MSDI PLSS: USA Topo Maps: Copyright 2011 National

Legend

- Quarter Sections
- Section
- Township & Range
- Parcels
- Parcels selection

Ex. B

PREAPPLICATION MEETING FORM: PART A

PERMIT

§ 85-2-302, MCA

Form No. 600P-A *(Revised 10/2025)*

For Department Use Only

Application # 30172339 Basin # 76LJ

Meeting Date 11/17/2025 Time 13:00

Variance Request Deadline 4/4/2026

Completed Form Deadline 5/16/2026

RECEIVED
11/17/2025
DNRC
KALISPELL WATER RESOURCES

PREAPPLICATION MEETING FEE

$ 500

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 Permit Preapplication Meeting Form Part A (Form 600P-A) and will identify items for follow-up during the preapplication meeting. The Department and Applicant will sign the Preapplication Meeting Affidavit and Certification within 10 business days. Within 180 days of the preapplication meeting, the Applicant will complete Preapplication Meeting Form Part B (Form 600P-B), including identified follow-up, any amended responses, and Follow-up and Amended Responses Affidavit & Certification. Variance requests must be submitted on Form 653 to the Department on or before the Variance Request Deadline, which is day 138 of the 180 day-deadline for a completed preapplication meeting form. Form 653 may be submitted earlier than the Variance Request Deadline. The Department has 30 business days to process the Form 653.

Applicant Information: *Add more as necessary.*

Applicant Name Kelly M. Wills and Shelly Wills
Mailing Address 3032 Queen City Missoula State MT Zip 59801
Phone Numbers: Home 406-370-8559 Work _____ Cell 406-370-1790
Email Address kmwills4@msn.com

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 _____
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 applicant will receive all correspondences, and a copy may be sent to the contact person (ARM 36.12.122(3)).*

Meeting Attendees: *Add more as necessary.*

Name	Role	Name	Role
Travis Wilson	DNRC - Water Resource Specialist		
James Ferch	DNRC - Kalispell Regional Manager		
Abigail Williams	DNRC - Water Resource Specialist		
Kelly M. Wills	Applicant		
Shelly Wills	Applicant		

Table of Contents

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. 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 the see attachment ("A") checkbox must be marked. Label units in narrative responses and tables. 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".

S = Submitted. *Use when required item is included with form.*
A = See attachment. *Use when additional space is needed to answer a question.*
F = Follow-up. *Use when follow-up is necessary.*

Questions, Narrative Responses, and Tables	Check-boxes	Follow-up
1. Do you elect to have DNRC conduct Technical Analyses?	■ Y ☐ N	☐ F
2. Provide a map created on an aerial photograph or topographic map that shows the following: section corners, township and range, scale bar, north arrow, all proposed points of diversion labeled with a unique POD ID number (include GWIC ID, if available, for wells), all proposed places of use, all proposed conveyance structures (including ditches and pipelines), all proposed places of storage, and places of use for all overlapping water rights. More than one map may be submitted, if necessary to clearly convey all required information.	☐ S	■ F
3. Is the project located in a Controlled Groundwater Area or Basin Closure Area? If yes, immediately go to Mandatory Project-Specific questions 54 to 56 because Form 600 may be the incorrect form, or this project may not meet the requirements for the Department to accept a Form 600.	☐ Y ■ N	☐ F
4. Is the proposed use temporary?	☐ Y ■ N	☐ F
a. If yes, when will the appropriation cease? _____	☐ A	☐ 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).	☐ A	☒ F

Purpose	Period of Diversion	Period of Use	Flow Rate			Volume
	(MM/DD-MM/DD)	*(MM/DD-MM/DD)*	*Flow Rate*	*GPM*	*CFS*	*(AF)*
Lawn and Garden	4/15-10/15	4/15-10/15	30	☑	☐	3.5
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	
		Total	30	☐	☐	3.5

6. Does the proposed use include one or more of the following purposes: domestic, multiple domestic, stock, or irrigation? If yes, fill out the following table, where applicable.	☐ Y ☒ N	☐ F

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	

7. 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 # used for the project map (question 2).	☐ A	☐ F

POD #	¼	¼	¼	Sec	Twp	Rge	County	Lot	Block	Tract	Subdivision	Gov Lot	SW or GW	Source Name	Means
1	SW	SE	SE	11	25N	22W	LAKE	7			S Mary Cov	7	SW	Mary Ronan	Pump

8. What are the geocodes of the place of use? ☐ A ☐ F

15-3581-11-4-01-12-0000	

9. 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. ☐ A ☐ F

Acres	Gov't Lot	Block	¼	¼	¼	Sec	Twp	Rge	County
1.5	7		S2	SE	SE	11	25N	22W	Lake
	Total								

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

a. If yes, summarize how the water rights will be operated as a whole to serve the purpose(s). ☐ A ☐ F

76LJ 30050229 serves partial lawn and garden area, wont be used in conjunction with this permit

11. 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.	☐ A	☐ F

Water Right No.	**Avg. Period of Diversion**	**Avg. Period of Use**	**Flow Rate**			**Volume Contributed**
	MM/DD-MM/DD	*MM/DD-MM/DD*	*Flow Rate*	*GPM*	*CFS*	*AF*
76LJ 30050229	04/01-10/31	04/01-10/31	19	☑	☐	4.5
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	

12. Will this application supplement contract water from a Federal Project, ditch company, or other source?	☐ Y ▣ N	☐ F
a. If yes, explain. _____ _____ _____	☐ A	☐ F
13. Does the project involve one or more places of storage? 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)). If yes, answer the following questions once for each place of storage. Use an "Additional Place of Storage (600P)" sheet if more than one. Additionally, you may choose to answer non-mandatory questions 76 to 80 for place of storage.	☐ Y ▣ N	☐ F
a. Is this application to enlarge an existing reservoir? If yes, list the water right numbers for the existing reservoir. _____	☐ Y ☐ N	☐ F
b. Is the place of storage located on-stream?	☐ Y ☐ N	☐ F
c. 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: *Surface Acres x Maximum Depth (FT) x 0.5 = Capacity (AF)* _____	☐ A	☐ F

d. What is the surface area of the place of storage? _____ _____	☐ A	☐ F
14. Will your system be designed to discharge water from the project?	☐ Y ■ N	☐ F
a. If yes, explain the wastewater disposal method. A discharge permit may be required to comply with §§ 75-5-410 and 85-2-364, MCA. _____ _____ _____	☐ A	☐ F
15. 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 AF (Form 600-B) with application submittal. The criteria are found in §85-2-311(3), MCA.	☐ Y ■ N	☐ F
16. Will you be transporting water for use outside of Montana? If yes, you must 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.	☐ Y ■ N	☐ F
17. Does the project include the water marketing purpose? If yes, you may choose to answer non-mandatory questions 81 to 85 for water marketing. A Water Marketing Purpose Addendum (Form 600/606-WMA) will be required with application submittal.	☐ Y ■ N	☐ F
18. Are you proposing a point of diversion and/or place of use on State of Montana Trust Land? If yes, documentation of consent from the DNRC Trust Lands Management Division will be required at application submittal.	☐ Y ■ N	☐ F
19. Is the project located in designated sage grouse habitat? If yes, a review letter from the Montana Sage Grouse Habitat Conservation Program will be required at application submittal.	☐ Y ■ N	☐ F

SURFACE WATER

■ **Applicable**, move on to question 20. ☐ **Not Applicable**, skip to question 30.

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 Analysis

Questions, Narrative Responses, and Tables	**Check-boxes**	**Follow-up**
20. 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.	☐ A	■ F

POD #	**Flow Rate**			**Volume**	**Period Start**	**Period End**
	Flow Rate	*GPM*	*CFS*	*AF*	*MM/DD*	*MM/DD*
1	30	☑	☐	3.5	04/15-10/15	04/15-10/15
		☐	☐			
		☐	☐			
		☐	☐			
		☐	☐			

21. Is the source type of the diversion perennial or intermittent, ephemeral, lake, or other? Lake	☐ A	☐ F

Perennial or intermittent	Answer questions 22 to 25	**Ephemeral**	Answer question 26	**Lake**	Answer question 27	**Other**	Answer questions 28 to 29

Surface Water Analysis: Perennial or Intermittent

☐ **Applicable** ■ **Not Applicable**

22. Are stream gage data available?	☐ Y ☐ N	☐ F
a. If yes, answer question 23.		
b. If no, answer question 24.		

23. Stream gage data are available.		
a. Is one stream gage located above the most upstream POD and one stream gage located below the most upstream POD?	☐ Y ☐ N	☐ F
i. If no, is only one stream gage located near the most upstream POD?	☐ Y ☐ N	☐ F
1. If yes, is the stream gage located upstream or downstream? _____		☐ F
b. List the gage name(s). Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____		☐ F
c. What is the distance between the gage(s) and the most upstream POD? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____		☐ F
d. Is there a limiting or controlling factor on the source between the stream gage(s) and the most upstream POD? This includes dams that control the flow and streams with large gaining and/or losing reaches. If you have questions about this, the Regional Office may provide assistance.	☐ Y ☐ N	☐ F
i. If yes, explain. _____ _____ _____	☐ A	☐ F
e. How long is the period of record? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____		☐ F
f. Who operates and maintains the gage(s)? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____		☐ F

g. Is each available stream gage operated and maintained by USGS or DNRC?	☐ Y ☐ N	☐ F
i. If yes, skip to question 23.h.		
ii. If no, answer the following questions for each gage not operated and maintained by USGS or DNRC.		
1. How frequently are stage data recorded? Write "N/A" for Gage 2 if only one gage is not operated or maintained by USGS. Gage 1: _____ Gage 2: _____		☐ F
2. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?		
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F
3. 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?		
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F
4. Were requirements established and followed for maintaining a permanent gage datum and meeting specified accuracy limits?		
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F

h. Do the data for one or more available stream gages 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?	☐ Y ☐ N	☐ F
i. If yes, record how many meet the standard, then skip to question 54 because this section is complete. _____		☐ F
ii. If no, answer question 24.		
24. If no gage data are available or if available gage data do 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?	☐ Y ☐ N	☐ F
a. If no, measurements may be necessary. The Department cannot deem the preapplication meeting form adequately completed until the Department receives gage data and/or measurements that meet the requirements of ARM 36.12.1702 or, in combination with an approved variance request, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria. Skip to question 25.		
b. If yes,		
i. Submit available measurements to the Department.	☐ S	☐ F
ii. Who collected the measurements? _____	☐ A	☐ F
iii. With what method were the data collected? _____ _____	☐ A	☐ F
iv. What is the period of record? _____		☐ F
v. What is the frequency of measurement? _____		☐ F
vi. Are there gaps in the data?	☐ Y ☐ N	☐ F

1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____ _____	☐ A	☐ F
vii. Is there a process for maintaining the data and meeting specified accuracy limits?	☐ Y ☐ N	☐ F
1. If yes, explain. _____ _____ _____	☐ A	☐ F
viii. Do 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?	☐ Y ☐ N	☐ F
1. If yes, this section is complete. Skip to question 54.		
2. If no, answer question 25.		
25. Do 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 validation of a Department-accepted estimation technique?	☐ Y ☐ N	☐ F
a. If yes,		
i. Describe how the measurements are representative of high, moderate, and low flows. _____ _____ _____ _____	☐ A	☐ F
ii. Describe the estimation technique. _____ _____ _____ _____ _____ _____	☐ A	☐ F
b. If no, but a Department-accepted estimation technique will be appropriate for the source:		

i. Will measurements be collected prior to submission of Form 600P-B 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?	☐ Y ☐ N	☐ F
1. If yes,		
a. With what method will the data be collected? _____ _____	☐ A	☐ F
b. What will be the interval of measurement? _____		☐ F
c. Describe the proposed estimation technique. _____ _____ _____ _____ _____	☐ A	☐ F
2. If no, do you plan on requesting a variance from measurement requirements pursuant to ARM 36.12.1702(1)(b)? If you plan to request a variance, you must submit Form 653 on or before the Variance Request Deadline. The Department cannot deem the preapplication meeting form adequately completed until the Department receives measurements that meet the requirements of ARM 36.12.1702(1)(b) or, in combination with an approved variance request, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N	☐ F
c. If no, because no Department-accepted estimation technique will be appropriate for the source:		
i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics. _____ _____ _____	☐ A	☐ F
ii. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard for monthly measurements throughout the proposed period of diversion pursuant to ARM 36.12.1702(4)?	☐ Y ☐ N	☐ F

1. If no, will measurements be collected prior to submission of a completed Form 600P that meet the Department's standard of monthly measurements throughout the proposed period of diversion?	☐ Y ☐ N	☐ F
a. If yes, with what method will the data be collected? _____ _____	☐ A	☐ F
b. If no, do you plan on requesting a variance from measurement requirements pursuant to ARM 36.12.1702(4)? If you plan to request a variance, you must submit Form 653 on or before the Variance Request Deadline. The Department cannot deem the preapplication meeting form adequately completed until the Department receives measurements that meet the requirements of ARM 36.12.1702(4) or, in combination with an approved variance request, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N	☐ F

Surface Water Analysis: Ephemeral

☐ **Applicable** ■ **Not Applicable**

26. Did you elect for the Department to conduct the Technical Analyses?	☐ Y ☐ N	☐ F
a. If yes, do you have climate or drainage area data you would like the Department to consider during Technical Analyses?	☐ Y ☐ N	☐ F
i. If yes, submit this information to the Department.	☐ S	☐ F
b. If no,		
i. Describe the estimation technique you propose to use to estimate physical availability at the point of diversion. _____ _____ _____	☐ A	☐ F
ii. What is the net annual precipitation? Include the source of this information. _____ _____	☐ A	☐ F

iii. What is the drainage area upstream of the point of diversion and how was this figure calculated? _____ _____ _____	☐ A	☐ F

Surface Water Analysis: Lakes

■ Applicable ☐ Not Applicable

27. Has the lake volume been quantified by a qualified entity based on bathymetric data?	■ Y ☐ N	☐ F
a. If yes, provide this information to DNRC.	■ S	☐ F
b. If no, answer the following questions,		
i. When do you plan to collect this information? _____		☐ F
ii. What data collection method will you use? _____ _____	☐ A	☐ F

Surface Water Analysis: Other

☐ Applicable ■ Not Applicable

28. Explain why the source type is “other”. _____ _____	☐ A	☐ F
29. Have you measured the source?	☐ Y ☐ N	☐ F
a. If yes, answer the following questions,		
i. With what method was the measurement data collected? _____ _____	☐ A	☐ F

ii. What is the measurement interval? _____		☐ F
1. Does the interval meet the Department's standard for monthly measurements throughout the proposed period of diversion pursuant to ARM 36.12.1702(4)?	☐ Y ☐ N	☐ F
a. If no, do you plan on requesting a variance from measurement requirements pursuant to ARM 36.12.1702(4)? If you plan to request a variance, you must submit Form 653 on or before the Variance Request Deadline.	☐ Y ☐ N	☐ F
b. If no,		
i. When do you plan to measure? _____		☐ F
ii. What data collection method will be used? _____ _____ _____	☐ A	☐ F
iii. Do you plan on requesting a variance from measurement requirements pursuant to ARM 36.12.1702(4)? If you plan to request a variance, you must submit Form 653 on or before the Variance Request Deadline. The Department cannot deem the preapplication meeting form adequately completed until the Department receives measurements that meet the requirements of ARM 36.12.1702(4) or, in combination with an approved variance request, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N	☐ F

Area of Potential Impact Analysis

No additional information needed for Technical Analyses.

GROUNDWATER

☐ **Applicable**, move on to question 30. ■ **Not Applicable**, skip to question 54.

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

Groundwater Analysis for Permits

Questions, Narrative Responses, and Tables	Check-boxes	Follow-up
30. What is the type of groundwater diversion? _____	☐ A	☐ F

Well/Pumping Pit	Answer questions 31 to 35	**Developed Spring**	Answer question 36	**Pond**	Answer questions 37 to 39

Groundwater Analysis for Permits: Well/Pumping Pit

☐ Applicable ☐ Not Applicable

31. Per ARM 36.12.121 a 24- or 72-hour aquifer test is required; do you propose not to conduct the test? An 8-hour test will be required, if no aquifer test is completed.	☐ Y ☐ N	☐ F
a. If yes, explain. The Department will let you know if the request is reasonable and identify additional data needs. _____ _____ _____ _____ _____	☐ A	☐ F

32. Submit Aquifer Test Data Form (Form 633). If a variance is requested, Form 633 must be submitted on or before the Variance Request Deadline. If no variance is requested, Form 633 is due by the time the preapplication meeting form is complete but may be submitted earlier. However, if the Department determines a variance is needed and the Variance Request Deadline has passed, to submit the Form 653 you must reschedule the preapplication meeting or submit the application without expedited fees and timelines (ARM 36.12.1302(6)).	☐ S	☐ F
33. Submit the Aquifer Testing Addendum (Form 600/606-ATA) and associated materials (e.g., well logs). If you request a variance, Form 600/606-ATA must be submitted on or before the Variance Request Deadline. If no variance is requested, Form 600/606-ATA is due by the time the preapplication meeting form is complete but may be submitted earlier. However, if the Department determines a variance is needed and the Variance Request Deadline has passed, to submit the Form 653 you must reschedule the preapplication meeting or submit the application without expedited fees and timelines (ARM 36.12.1302(6)).	☐ S	☐ F
34. Are you requesting a variance from ARM 36.12.121? If you are unsure if a variance request will be needed, mark follow-up and answer this question once Form 600/606-ATA and Form 633 are complete. A variance must be requested by the Variance Request Deadline.	☐ Y ☐ N	☐ F
a. If yes, submit Form 653, Form 600/606-ATA, and Form 633 together on or before the Variance Request Deadline.	☐ S	☐ F
b. If no, you may choose to submit Form 600/606-ATA and Form 633 before the Variance Request Deadline, and the Department will review these two forms. However, if the Department determines a variance is needed after the Variance Request Deadline, to submit the Form 653 you must reschedule the preapplication meeting or submit the application without expedited fees and timelines (ARM 36.12.1302(6)).		
35. Have all proposed wells/pumping pits been constructed?	☐ Y ☐ N	☐ F
a. If no, answer the following questions:		
i. Submit a list of the POD IDs for all wells/pumping pits and mark whether they have or have not been constructed.	☐ S	☐ F
ii. When will all proposed wells/pumping pits be constructed? _____		☐ F
iii. Is the requested volume for each proposed well/pumping pit known?	☐ Y ☐ N	☐ F
1. If yes, list the flow rate and volume requested for each proposed well/pumping pit. Label with POD ID. _____ _____ _____	☐ A	☐ F

2. If no, what is the total requested volume (AF) and the number of proposed PODs? _____		☐ F

Groundwater Analysis for Permits: Developed Spring

☐ Applicable ☐ Not Applicable

36. Have you measured the source?	☐ Y ☐ N	☐ F
a. If yes, submit the measurements and answer the following questions,	☐ S	☐ F
i. Do you have flow rate (GPM or CFS) and volume measurements?	☐ Y ☐ N	☐ F
ii. With what method were measurements collected? _____ _____	☐ A	☐ F
iii. What is the interval of measurements? _____		☐ F
iv. Is the interval of measurements sufficient to comply with ARM 36.12.1703(1)?	☐ Y ☐ N	☐ F
b. If no, or if measurements do not comply with ARM 36.12.1703(1), answer the following questions. The Department cannot deem the preapplication meeting form adequately completed until the Department receives measurements that meet the requirements of ARM 36.12.1703(1). Variances from ARM 36.12.1703(1) are not allowed.		
i. When do you plan to measure? _____		☐ F
ii. With what method and at what interval will measurements be collected? _____ _____	☐ A	☐ F

Groundwater Analysis for Permits: Pond

☐ Applicable ☐ Not Applicable

37. Submit Form 653 to apply for a variance from ARM 36.12.121 for the Aquifer Test on or before the Variance Request Deadline.	☐ S	☐ F
38. Submit pond bathymetry data, survey, or engineering plans to the Department.	☐ S	☐ F
39. Is the pond fed or drained by surface water?	☐ Y ☐ N	☐ F
a. If yes,		
i. Explain. _____ _____ _____	☐ A	☐ F
ii. Submit measurements of the connected surface water source. These may include inflow and outflow measurements.	☐ S	☐ F

Surface Water Depletion Analysis

40. Is the type of groundwater diversion for your proposed project a developed spring? If yes, skip to question 45 because this section is complete. If no, move onto question 41.	☐ Y ☐ N	☐ F
41. Is the type of groundwater diversion for your proposed project a pond? If yes, answer question 41.a, then skip to question 45 because this section is complete. If no, move onto question 42.	☐ Y ☐ N	☐ F
a. Will any of the ponds have diversions for out-of-pond use that differ from, if year-round use, an allocation of diverted volume by the number of days in the month, or, if irrigation/lawn and garden use, the 80% dry year net irrigation requirement (IWR, NRCS 2003)?	☐ Y ☐ N	☐ F
i. If yes, provide a schedule of the diversions for out-of-pond use in the table below. Use the same POD # as the project map (question 2). Attach any additional schedules with POD # labeled.	☐ A	☐ F

POD #			
Month	**Diversions for Out-of-Pond Use Volume (AF)**	**Month**	**Diversions for Out-of-Pond Use Volume (AF)**
January		July	
February		August	
March		September	
April		October	
May		November	
June		December	

42. What is the flow rate (GPM or CFS), volume (AF), and period of diversion required (MM/DD-MM/DD) at each well/pumping pit? What is the well/pumping pit depth (FT), if available, or estimated well/pumping pit depth (FT). Please use the same POD # as the project map (question 2) to match this information with the location information.	☐ A	☐ F

POD #	Flow Rate			Volume	Period of Diversion	Depth	Measured or Estimated
	Flow Rate	*GPM*	*CFS*	*AF*	*MM/DD-MM/DD*	*FT*	
		☐	☐				
		☐	☐				
		☐	☐				
		☐	☐				
		☐	☐				

43. Will any of the *new* wells/pumping pits have a monthly pumping schedule that differs from, if year-round use, an allocation of diverted volume by the number of days in the month, or, if irrigation/lawn and garden use, the 80% dry year net irrigation requirement (IWR, NRCS 2003)?	☐ Y ☐ N	☐ F
a. If yes, provide the alternative pumping schedule(s) in the table below. Use the same POD # as the project map (question 2). Attach any additional pumping schedules with POD # labeled.	☐ A	☐ F

POD #				POD #			
Month	**Volume (AF)**	**Month**	**Volume (AF)**	**Month**	**Volume (AF)**	**Month**	**Volume (AF)**
January		July		January		July	
February		August		February		August	
March		September		March		September	
April		October		April		October	
May		November		May		November	
June		December		June		December	

44. Will one or more *existing* wells/pumping pits be used for the proposed project?	☐ Y ☐ N	☐ F
a. If yes, will any of the *existing* wells/pumping pits have a monthly pumping schedule, before or after the proposed project, that differs from an allocation of diverted volume by the number of days in the month (if year-round use) or the 80% dry year net irrigation requirement (if irrigation/lawn and garden use) (IWR, NRCS 2003)?	☐ Y ☐ N	☐ F
i. If yes, provide the pumping schedules before and after the proposed project in the table below. Use the same POD # as the project map (question 2). Attach any additional pumping schedules with POD # and before/after proposed project labeled.	☐ A	☐ F

Before proposed project: POD #				**After proposed project: POD #**			
Month	**Volume (AF)**	**Month**	**Volume (AF)**	**Month**	**Volume (AF)**	**Month**	**Volume (AF)**
January		July		January		July	
February		August		February		August	
March		September		March		September	
April		October		April		October	
May		November		May		November	
June		December		June		December	

Surface Water Analysis of Depleted Surface Water

45. Based on the preliminary net depletion data provided by the Department at this preapplication meeting, what are the hydraulically connected surface water source(s)? **Net depletion data provided by the Department at the preapplication meeting is preliminary and is subject to change during Technical Analyses. If the source or location of net depletion data changes during Technical Analyses, then surface water analysis of depleted surface water source(s) will reflect the Technical Analyses; this will not constitute a change of any element to the proposed application pursuant to ARM 36.12.1302(6)(a).* If the type of groundwater diversion for your proposed project is a developed spring, write "NA" and skip to question 51 because this section is complete. _____	☐ A	☐ F
46. Answer the questions in this section one time for each hydraulically connected source. Use the "Additional Hydraulically Connected Source (600P)" sheet, as necessary. For which hydraulically connected source are you answering questions 47 to 50? _____		☐ F
47. Are stream gage data available?	☐ Y ☐ N	☐ F
a. If yes, answer question 48.		
b. If no, answer question 49.		

48. Stream gage data are available		
a. Is one stream gage located above and one stream gage located below the start of the depleted reach?	☐ Y ☐ N	☐ F
i. If no, is only one stream gage located near the start of the depleted reach?	☐ Y ☐ N	☐ F
1. If yes, is the stream gage upstream or downstream? _____		☐ F
b. List the gage name(s). Write "N/A" for Gage 2 if one gage available. Gage 1: _____ Gage 2: _____		☐ F
c. What is the distance between the gage(s) and the start of the depleted reach? Write "N/A" for Gage 2 if one gage available. Gage 1: _____ Gage 2: _____		☐ F
d. Is there a limiting or controlling factor on the source between the stream gage(s) and the start of the depleted reach? This includes dams that control the flow and streams with large gaining and/or losing reaches. If you have questions about this, the Regional Office may provide assistance.	☐ Y ☐ N	☐ F
i. If yes, explain. _____ _____ _____	☐ A	☐ F
e. How long is the period of record? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____		☐ F
f. Who operates and maintains the gage(s)? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____		☐ F
g. Is each available stream gage operated and maintained by USGS or DNRC?	☐ Y ☐ N	☐ F
i. If yes, skip to question 48.h.		
ii. If no, answer the following questions for each gage not operated and maintained by USGS or DNRC.		

1. How frequently is stage data recorded? Write "N/A" for Gage 2 if only one gage is not operated or maintained by USGS. Gage 1: _____ Gage 2: _____		☐ F
2. If data gaps were to occur, are they identified and left unfilled or estimated using interpolation, ice correction, or indirect discharge measurements methods?	☐ Y ☐ N	☐ F
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F
3. 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?	☐ Y ☐ N	☐ F
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F
4. Were there requirements for maintaining a permanent gage datum and meeting specified accuracy limits?	☐ Y ☐ N	☐ F
a. Gage 1._____	☐ Y ☐ N	☐ F
b. Gage 2. Write "N/A" on the line instead of answering yes or no, if only one gage is not operated or maintained by USGS or DNRC. _____	☐ Y ☐ N	☐ F
h. Do the data for one or more available stream gages meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months with net depletions?	☐ Y ☐ N	☐ F
i. If yes, record how many meet the standard, then skip to question 54 because this section is complete. _____		
ii. If no, answer question 49.		
49. If no gage data are available or if available gage data do not meet the Department's standard to be sufficient to calculate the median of the mean monthly flow rate and volume during the months with net depletions, is the source otherwise measured?	☐ Y ☐ N	☐ F

a. If no, measurements may be necessary. The Department cannot deem the preapplication meeting form adequately completed until the Department receives gage data and/or measurements that meet the Department's measurement standards or, in combination with an approved request to deviate from the Department's standards, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria. Skip to question 50.		
b. If yes,		
i. Submit measurements to the Department.	☐ S	☐ F
ii. Who collected the measurements? _____	☐ A	☐ F
iii. With what method was the data collected? _____ _____	☐ A	☐ F
iv. What is the period of record? _____		☐ F
v. What is the frequency of measurement? _____		☐ F
vi. Are there gaps in the data?	☐ Y ☐ N	☐ F
1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____ _____	☐ A	☐ F
vii. Is there a process for maintaining the data and meeting specified accuracy limits?	☐ Y ☐ N	☐ F
1. If yes, explain. _____ _____ _____	☐ A	☐ F
viii. Do 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 months with net depletions?	☐ Y ☐ N	☐ F
1. If yes, this section is complete. Skip to question 54.		
2. If no, answer question 50.		

50. Do 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?	☐ Y ☐ N	☐ F
a. If yes,		
i. Describe how the measurements are representative of high, moderate, and low flows. _____ _____ _____ _____	☐ A	☐ F
ii. Describe the estimation technique. _____ _____ _____ _____ _____ _____	☐ A	☐ F
b. If no, but a Department-accepted estimation technique will be appropriate for the hydraulically connected surface water source:		
i. Will measurements be collected prior to submission of a completed Form 600P-B 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?	☐ Y ☐ N	☐ F
1. If yes,		
a. With what method will the data be collected? _____ _____	☐ A	☐ F
b. What will be the interval of measurement? _____		☐ F

c. Describe the proposed estimation technique. _____ _____ _____ _____ _____	☐ A	☐ F
2. If no, do you plan on requesting to deviate from 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? The Department's technical analyses or scientific credibility review of your technical analyses cannot commence until the Department receives measurements that meet Department measurement standards, or in combination with a request to deviate, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N	☐ F
c. If no, because no Department-accepted estimation technique will be appropriate for the hydraulically connected surface water source:		
i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics. _____ _____ _____	☐ A	☐ F
ii. Do the available measurement data, gage and/or otherwise measured, meet the Department's standard for monthly measurements throughout the months with net depletions?	☐ Y ☐ N	☐ F
1. If no, will measurements be collected prior to submission of a completed Form 600P that meet the Department's standard of monthly measurements throughout the months with net depletions?	☐ Y ☐ N	☐ F
a. If yes, with what method will the data be collected? _____ _____	☐ A	☐ F

b. If no, do you plan on requesting to deviate from the Department's standard for monthly measurements throughout the months with net depletions? The Department's technical analyses or scientific credibility review of your technical analyses cannot commence until the Department receives measurements that meet Department measurement standards, or in combination with a request to deviate, are sufficient to complete any necessary technical analyses or scientific credibility reviews and to evaluate the applicable criteria.	☐ Y ☐ N	☐ F

Area of Potential Impact Analysis of Depleted Surface Water

All information for area of potential impact of depleted surface water was collected in previous questions.

Hydrogeologic Report

51. Does your project include one or more wells, pumping pits, or ponds that are in a basin closure area? If yes, fill out questions 52 to 53. Your project must have a Hydrogeologic Report that conforms with § 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.	☐ Y ☐ N	☐ F
52. Did you elect in question 1 for the Department to conduct the Technical Analyses?	☐ Y ☐ N	☐ F
a. If yes, the Basin Closure Area Addendum (Form 600-BCA), Form 600-HRA, and Hydrogeologic Report are not required at this time. The Department's Technical Analyses will meet requirements of §85-2-360, MCA for a Hydrogeologic Report and Form 600-HRA. Form 600-BCA will be required with application submittal.		
b. If no, submit the Basin Closure Area Addendum (Form 600-BCA) and Hydrogeologic Report Addendum (600-HRA) with your Technical Analyses.	☐ S	☐ F
53. If the Hydrogeologic Report indicates that the proposed groundwater use will impact a surface water source, identify and explain which of the following three options best describes your plan to mitigate depletions of hydraulically connected surface water and respond to the relevant questions below. ☐ Application to Change a Water Right to mitigate the adverse effects created ☐ Alternative mitigation plan ☐ Documentation to show a mitigation plan is not required		
a. Application to Change a Water Right to mitigate the adverse effects created: Submit a summary of your initial proposal. *A separate Preapplication Meeting will be required for each Application to Change a Water right to a mitigation or aquifer recharge purpose to qualify for expedited timelines and reduced filing fees for the project per ARM 36.12.1302(7)(a).*	☐ S	☐ F
b. Alternative mitigation plan: Submit a summary of your initial proposal.	☐ S	☐ F

i. Do you propose to use water with a marketing for mitigation/aquifer recharge purpose?	☐ Y ☐ N	☐ F
1. If yes,		
a. List the change authorization number(s) for all water rights proposed for use. _____	☐ A	☐ F
b. What is the area defined for marketing for all water rights proposed for use? _____	☐ A	☐ F
c. If Marketing for aquifer recharge, submit the analysis of the monthly accretions to hydraulically connected surface water(s); otherwise write "NA". _____	☐ S	☐ F
c. Documentation to show a mitigation plan is not required: Submit all documentation.	☐ S	☐ F

MANDATORY 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.

Project-Specific Questions: Controlled Groundwater Areas and Basin Closures

Questions, Narrative Responses, and Tables	Check-boxes	Follow-up
54. Does the project include one or more groundwater points of diversion located in the East Valley Controlled Groundwater Area (EVCGWA)?	☐ Y ■ N	☐ F
a. If yes, is the use over 35 GPM or 10 AF/YR?	☐ Y ☐ N	☐ F
i. If no, this is the incorrect form. Use instead Form 600-EVCGWA: East Valley Controlled Groundwater Area Permit Application.		
ii. If yes, how does this project meet the specific requirements of the East Valley Controlled Groundwater Area? Include any relevant documentation. _____ _____ _____ _____	☐ A	☐ F
b. If no, skip to question 55.		
55. Does the project include one or more groundwater points of diversion located in the Yellowstone Controlled Groundwater Area?	☐ Y ■ N	☐ F
a. If yes, is the proposed flow rate and volume over 35 GPM or 10 AF/YR?	☐ Y ☐ N	☐ F
i. If no, this is the incorrect form. Use instead Form 600-YCGA: Yellowstone Controlled Groundwater Area Permit Application.		
ii. If yes, answer the remaining parts of question 55 and submit *Form 600 YCGA: A Yellowstone Controlled Groundwater Area Addendum Over 35 gallons per minute* with the application.		
1. Does the proposed use require a point of diversion with water temperature of 60 degrees Fahrenheit or more?	☐ Y ☐ N	☐ F
2. If an application is in a basin tributary to a category 3 or 4 stream (generally in or upstream of Yellowstone National Park), submit with the application a report prepared by a qualified professional verifying that the appropriation is not hydrologically connected to surface flow that is tributary to the reserved portion of category 3 or 4 streams.		
b. If no, skip to question 56.		

56. Is the project for surface water or groundwater and subject to one or more of the Controlled Groundwater Areas; administrative, Department ordered, or legislative basin closures; or compact closures listed on the Department's website (https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas) not covered in questions 54 to 55?	☐ Y ☒ N	☐ F
a. If yes, identify each area and describe how the proposed project meets its requirements. An application must meet the specific requirements of the Controlled Groundwater Area or closure to be accepted by the Department. _____ _____ _____ _____ _____ _____ _____ _____ _____	☐ A	☐ 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

Questions, Narrative Responses, and Tables	Check-boxes
57. Describe your plan to ensure that existing water rights will be satisfied during times of water shortage. Turn the pump off	☐ A
58. Explain how you can control your diversion in response to call being made. Turn the pump off	☐ A
59. Are you aware of any calls that have been made on the source of supply or depleted surface water source?	☐ Y ■ N
a. If yes, explain.	☐ A
60. Does a water commissioner distribute water or oversee water distribution on your proposed source or depleted surface water source?	☐ Y ■ N

61. Will the point of diversion or conveyance infrastructure be shared with one or more existing water rights?	☐ Y ■ N
a. If yes, explain how capacity of the shared point of diversion and/or conveyance infrastructure is sufficient for all water rights. _____ _____ _____ _____ _____	☐ A

Adequate Diversion Means and Operation

62. Submit a diagram of how you will operate your system from the point of diversion to the place of use.	☐ S
63. 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. pump curves and total dynamic head _____ _____ _____ _____ _____ _____ _____	☐ A

64. Describe the size, materials, capacity, and configuration of infrastructure to convey water from point of diversion to place 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. You may work with the Department to estimate ditch conveyance losses but will need to provide sufficient baseline information; which includes ditch slope, dimensions, length, lining material, soil type, and location. mainline from pump to place of use and line from water to pump	☐ A
65. 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.	☐ A
66. 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.	☐ A

67. Does the proposed conveyance require easements?	☐ Y ■ N
a. If yes, explain. _____ _____ _____	☐ A
68. Do you own the land where all proposed points of diversion are located?	■ Y ☐ N
a. If no, documentation to show you have the right to use all points of diversion located on each property you do not own will be required upon application submittal. 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.	
69. 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. _____ _____ _____ _____	☐ A
70. Do you have any plans to measure your diversion and use?	☐ Y ■ N
a. If yes, describe the plan and the type of measurements you will take. _____ _____ _____	☐ A

Beneficial Use

71. Does the Department have a standard for any of the purposes for which water is used? Department standards can be found in ARM 36.12.112 and ARM 36.12.115.	■ Y ☐ N
a. If yes, list the purposes for which the Department has a standard and note whether the proposed use falls within or outside the standard. requested volume falls under the DNRC standard _____	

72. If no Departmental standard exists for any proposed purpose, or if any proposed purpose falls outside of Department standards, explain how the use is reasonable for that purpose. _____ _____ _____ _____ _____ _____ _____	☐ A
73. Will your proposed project be subject to DEQ requirements for a public water supply (PWS) system or Certificate of Subdivision Approval (COSA)?	☐ Y ■ N
a. If yes,	
i. Have you researched or consulted with DEQ regarding those requirements?	☐ Y ☐ N
74. Are you proposing to use surface water for in-house domestic use?	☐ Y ■ N
a. If yes, does a COSA exist for the proposed place of use?	☐ Y ☐ N
i. If yes, please submit the COSA.	☐ S
ii. If no, have you researched or consulted with DEQ regarding their requirements?	☐ Y ☐ N

Possessory Interest

75. 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.	☐ Y ▣ N
a. If yes, explain. _____ _____ _____ _____	☐ A

b. If no,	
i. Do you own all proposed places of use?	■ Y ☐ N
1. If no,	
a. Explain. Documentation that shows you either have possessory interest or written permission of the parties with possessory interest of the place of use will be required at application submittal. _____ _____ _____ _____	☐ A
b. 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.	☐ Y ☐ N
i. If no, explain. _____ _____ _____	☐ A

Non-Mandatory Project Specific Questions

Place of Storage

76. Does the proposal include at least one place of storage? If yes, answer questions 77 to 80 for each individual place of storage (use "Additional Place of Storage (600P)" sheet for additional places of storage). A Permit Storage Addendum (Form 600-SA) will be required at application submittal. If no, this section is complete, and you can skip to question 81.	☐ Y ■ N
77. Are preliminary designs available? Preliminary designs will be required at application submittal.	☐ S
a. If yes, submit preliminary designs.	☐ Y ☐ N
78. Will the place of storage be lined?	☐ Y ☐ N
79. What is the annual net evaporation of water from the place of storage, based on the Department's gridded net evaporation layer? If you propose a different method, attach an explanation and justification of the method. _____	☐ A

80. Is the place of storage capacity calculated to be greater than 50 AF?	☐ Y ■ N
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? This will be required by application submittal.	☐ Y ☐ N

Project-Specific Questions: Water Marketing

81. Does the proposal include water marketing? If yes, please answer the questions in this section (questions 82 to 85). A Water Marketing Addendum Purpose Addendum (600/606-WMA) will be required at application submittal. If no, this section is complete.	☐ Y ■ N
82. For what purpose(s) will the marketed water be used? _____ _____ _____	☐ A
83. How will you control or limit access to the water? _____ _____ _____	☐ A
84. Do you have contracts for the entire volume and flow rate sought?	☐ Y ■ N
85. Provide a service area map. Create map on an aerial photograph or topographic map and show the following: general service area boundary, section corners, township and range, scale bar, and north arrow.	☐ S

FOLLOW-UP

The tables below will identify all questions marked for follow-up. Applicant follow-up will be submitted with the completed Preapplication Meeting Form: Part B (Form 600P-B). Applicant will provide all responses to questions marked for follow-up on a separate document entitled "Follow-up Responses." At the preapplication meeting, the Department may offer to provide the Applicant with information pertinent to identified follow-up. In this case, record in the notes column what information the Department will provide and the date by which the Department will email this information to the Applicant. This information will supplement but not replace Applicant follow-up. It is the responsibility of the Applicant to provide all follow-up, including questions supplemented by Department information, in the "Follow-up Responses" document.

The "Follow-up Responses" document must conform to the following standards. Label all responses with the question number. Answer questions in the same format as the form. For responses in the form of checkboxes, write "Y", "N", "S". 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 and tables. Tables must have the exact headings found on the form. Questions that require items to be submitted to the Department may be marked "S" when the required item is attached to the Preapplication Meeting Form. Label all submitted items with the question number for which they were submitted.

***The Applicant may not alter the Preapplication Meeting Form: Part A (Form 600P-A) signed at the Preapplication Meeting**. Instead, the Applicant must use the Amended Responses procedure defined in Form 600P-B. Do not include additional information for questions that were not marked for follow-up on this table; instead include any additional information pursuant to the process for amending responses defined in Form 600P-B.*

QUESTION #	NOTES
2	Maps
5	Volume and Flow Rate
20	Volume and Flow Rate

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 meeting 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 five business days 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.

Applicant Signature	Date 11/17/25
Applicant Signature	Date 11/17/25
Department Signature	Date 11/17/25