



**APPLICATION FOR BENEFICIAL WATER USE PERMIT
TECHNICAL ANALYSES ADDENDUM**

ARM 36.12.1303

Answer every question and applicable follow-up questions. Use the checkboxes to denote yes (“Y”) or no (“N”). 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 Technical Analyses Addendum. 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, mark the see attachment (“A”) checkbox on this form and label the attachment with the question number. If no attachment is needed, leave the see attachment (“A”) checkbox blank. 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 on this form must be marked. Label all units in narrative responses and tables. Light gray checkbox cells denote a narrative or table response is required. Dark gray checkbox cells denote no response is needed because the question directs you to answer subsequent questions or provides you with information.

APPLICATION DETAILS

Questions, Narrative Responses, and Tables	Check-boxes
1. Did you have a preapplication meeting AND complete a Permit Preapplication Meeting Form (Form 600P)?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, complete the remainder of Form 600-TAA. Skip to question 2.	
b. If yes,	
i. Do the technical analyses submitted with Form 600 remain unchanged from those completed during the preapplication meeting process?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, has any element of the project described in Form 600 changed from the mandatory elements of the project described in Forms 600P-A and/or 600P-B?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, complete the remainder of Form 600-TAA. Skip to question 2.	
b. If no, Form 600-TAA is complete.	
2. If no,	
a. Are you submitting new technical analyses with Form 600 to replace the technical analyses completed during the preapplication meeting process?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, complete the remainder of Form 600-TAA. Skip to question 2.	
ii. If no, are you correcting the technical analyses in response to a Departmental scientific credibility review completed during the preapplication meeting process?	<input type="checkbox"/> Y <input type="checkbox"/> N

1. If yes, does every element of the project described in Form 600 remain unchanged from the mandatory elements of the project described in Forms 600P-A and/or 600P-B AND do the corrected technical analyses analyze the project exactly as proposed on Form 600 and Form 600P-A/600P-B?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, Form 600-TAA is complete.	
b. If no, complete the remainder of Form 600-TAA. Skip to question 2.	

SURFACE WATER

Questions, Narrative Responses, and Tables	Check-boxes
2. Is the proposed source surface water?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, move on to question 3.	
b. If no, skip to question 16.	

Surface Water Analysis

3. What is the flow rate (GPM or CFS), volume (AF), period of diversion start date and end date (MM/DD-MM/DD) at each point of diversion? Use the same POD # as the project map (Form 600) to label each point of diversion.	<input type="checkbox"/> A
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POD #	Period of Diversion Start	Period of Diversion End	Flow Rate			Volume
	(MM/DD-MM/DD)	(MM/DD-MM/DD)	Flow Rate	GPM	CFS	(AF)
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
Total				<input type="checkbox"/>	<input type="checkbox"/>	

4. Is the source type of the diversion perennial or intermittent, ephemeral, lake, or other? _____	<input type="checkbox"/> A
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Perennial or Intermittent	Answer questions 5 to 8	Ephemeral	Answer question 9	Lake	Answer question 10	Other	Answer questions 11 to 14
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Surface Water Analysis: Perennial or Intermittent

Applicable Not Applicable

5. Are stream gage data available?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, answer question 6.	
b. If no, answer question 7.	
6. 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?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no, is only one stream gage located near the most upstream POD?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, is the stream gage located upstream or downstream of the POD? _____	
b. List the gage name(s). Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	
c. What is the distance between the gage(s) and the most upstream POD? Write "N/A" for Gage 2 if only one gage is available. Gage 1: _____ Gage 2: _____	
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.	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, explain. _____ _____ _____ _____	<input type="checkbox"/> A
e. How long is the period of record? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	
f. Who operates and maintains the gage(s)? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	



g. Is each available stream gage operated and maintained by USGS or DNRC?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, skip to question 6.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: _____	
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.	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> Y <input type="checkbox"/> N
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.	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Were requirements established and followed for maintaining a permanent gage datum and meeting specified accuracy limits?	
a. Gage 1.	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> Y <input type="checkbox"/> N
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? See the "Department Standard Practice for Determining Physical Surface Water Availability" in the Permit Manual.	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, record how many meet the standard, then skip to question 39 because this section is complete. _____	
ii. If no, answer question 7.	
7. 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?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, the Department requires 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 8.	



b. If yes,	
i. Submit available measurements to the Department.	<input type="checkbox"/> S
ii. Who collected the measurements? _____	<input type="checkbox"/> A
iii. With what method were the data collected? _____ _____ _____	<input type="checkbox"/> A
iv. What is the period of record? _____	
v. What is the frequency of measurement? _____	
vi. Are there gaps in the data?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____ _____	<input type="checkbox"/> A
vii. Is there a process for maintaining the data and meeting specified accuracy limits?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, explain. _____ _____ _____	<input type="checkbox"/> A
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? See the "Department Standard Practice for Determining Physical Surface Water Availability" in the Permit Manual.	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, this section is complete. Skip to question 39.	
2. If no, answer question 8.	



<p>8. 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? If the Department finds that your measurements are not sufficient to validate an estimation technique or that no estimation technique is appropriate for the source characteristics, further measurements may be required. Refer to the "Department Standard Practice for Determining Physical Surface Water Availability" in the Permit Manual for more information.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>a. If yes,</p>	
<p>i. Describe how the measurements are representative of high, moderate, and low flows.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>ii. Describe the estimation technique.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>b. If no, but a Department-accepted estimation technique will be appropriate for the source:</p>	
<p>i. Submit Form 653 if you want to request a variance from the requirements of ARM 36.12.1702(1)(b). The Department's technical analyses or scientific credibility review of your technical analyses cannot commence until the Department receives measurements that meet the requirements of ARM 36.12.1702(1) 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.</p>	<input type="checkbox"/> S
<p>c. If no, because no Department-accepted estimation technique will be appropriate for the source:</p>	
<p>i. Describe why no Department-accepted estimation technique is appropriate for the source characteristics.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>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)? Refer to the "Department Standard Practice for Determining Physical Surface Water Availability" in the Permit Manual for more information.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>1. If no, submit Form 653 if you want to request a variance from the requirements of ARM 36.12.1702(4). The Department's technical analyses or scientific credibility review of your technical analyses cannot commence 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.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N



Surface Water Analysis: Ephemeral

Applicable Not Applicable

9. Did you elect for the Department to conduct the Technical Analyses?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, do you have climate or drainage area data you would like the Department to consider during Technical Analyses?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, submit this information to the Department.	<input type="checkbox"/> S
b. If no,	
i. What estimation technique did you use to estimate physical availability at the point of diversion? _____ _____ _____	<input type="checkbox"/> A
ii. What is the net annual precipitation? Include the source of this information. _____ _____	<input type="checkbox"/> A
iii. What is the drainage area upstream of the point of diversion and how was this figure calculated? _____ _____ _____	<input type="checkbox"/> A

Surface Water Analysis: Lake

Applicable Not Applicable

10. What is the lake volume? Submit documentation explaining how the volume was quantified. Volume must be quantified by a qualified entity based on bathymetric data. _____	<input type="checkbox"/> S
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Surface Water Analysis: Other

Applicable Not Applicable

11. Explain why the source type is "other". _____ _____	<input type="checkbox"/> A
12. Submit measurements of the source to the Department.	<input type="checkbox"/> Y <input type="checkbox"/> N
13. With what method was the measurement data collected? _____ _____ _____ _____ _____	<input type="checkbox"/> A



14. What is the measurement interval? _____	
a. Does the interval meet the Department's standard for monthly measurements throughout the proposed period of diversion pursuant to ARM 36.12.1702(4)?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no, submit Form 653 if you want to request a variance from the requirements of ARM 36.12.1702(4). The Department's technical analyses or scientific credibility review of your technical analyses cannot commence 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.	<input type="checkbox"/> S

Area of Potential Impact Analysis

All information for area of potential impact analysis was collected in previous questions.

GROUNDWATER

Questions, Narrative Responses, and Tables	Check-boxes
15. Is the proposed source groundwater?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, move on to question 16.	
b. If no, skip to question 39.	

Groundwater Analysis for Permits

16. What is the type of groundwater diversion? _____					
Well/Pit	Answer questions 17 to 20	Developed Spring	Answer questions 21 to 24	Pond	Answer questions 25 to 27

Groundwater Analysis for Permits: Well/Pumping Pit

Applicable Not Applicable

17. Submit Aquifer Test Data Form (Form 633).	<input type="checkbox"/> S
18. Submit the Aquifer Testing Addendum (Form 600/606-ATA) and associated materials (e.g., well logs).	<input type="checkbox"/> S
19. Are you requesting a variance from ARM 36.12.121?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, submit Form 653.	<input type="checkbox"/> S
20. Have all proposed wells/pumping pits been constructed?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, answer the following questions:	
i. Submit a list of all wells/pumping pits labeled with the same POD # as the project map (Form 600) and mark whether they have or have not been constructed.	<input type="checkbox"/> S



ii. When will all proposed wells/pumping pits be constructed? _____	<input type="checkbox"/> A
iii. Is the requested volume for each proposed well/pumping pit known?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, list the flow rate and volume requested for each proposed well/pumping pit. Label with the same POD # as the project map (Form 600). _____ _____	<input type="checkbox"/> A
2. If no, what is the total requested volume (AF) and the number of proposed wells/pumping pits? _____	

Groundwater Analysis for Permits: Developed Spring

Applicable Not Applicable

21. Submit your measurements of the flow rate and volume of the source.	<input type="checkbox"/> S
22. With what method were measurements collected? _____ _____ _____ _____ _____	<input type="checkbox"/> A
23. What is the interval of measurements? _____	
24. Is the interval of measurements sufficient to comply with ARM 36.12.1703(1)? Please note technical analyses or scientific credibility review cannot commence until the Department has measurement data that meets the requirements of ARM 36.12.1703(1). Variances from ARM 36.12.1703(1) are not allowed.	<input type="checkbox"/> Y <input type="checkbox"/> N

Groundwater Analysis for Permits: Pond

Applicable Not Applicable

25. Submit Form 653 to apply for a variance from ARM 36.12.121 for the Aquifer Test.	<input type="checkbox"/> S
26. Submit pond bathymetry data, survey, or engineering plans to the Department.	<input type="checkbox"/> S
27. Is the pond fed or drained by surface water?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes,	
i. Explain. _____ _____ _____ _____	<input type="checkbox"/> A



ii. Submit measurements of the connected surface water source. These may include inflow and outflow measurements.	<input type="checkbox"/> S
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Surface Water Depletion Analysis

28. Is the type of groundwater diversion for your proposed project a developed spring? If yes, skip to question 33 because this section is complete. If no, move onto question 29.	<input type="checkbox"/> Y <input type="checkbox"/> N
29. Is the type of groundwater diversion for your proposed project a pond? If yes, answer question 29.a, then skip to question 33 because this section is complete. If no, move onto question 30.	<input type="checkbox"/> Y <input type="checkbox"/> N
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)?	<input type="checkbox"/> Y <input type="checkbox"/> N
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 (Form 600). Attach any additional schedules with POD # labeled.	<input type="checkbox"/> A

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	

30. What are 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 (Form 600) to match this information with the location information.	<input type="checkbox"/> A
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POD #	Flow Rate	GPM	CFS	Volume (AF)	Period of Diversion (MM/DD-MM/DD)	Well Depth (FT)	Measured or Estimated
		<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>				
		<input type="checkbox"/>	<input type="checkbox"/>				



31. Will any of the <i>new</i> 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)?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, provide the alternative pumping schedule(s) in the table below. Use the same POD # as the project map (Form 600). Attach any additional pumping schedules with POD # labeled.	<input type="checkbox"/> A

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	

32. Will one or more <i>existing</i> wells/pumping pits be used for the proposed project?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, will any of the <i>existing</i> 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)?	<input type="checkbox"/> Y <input type="checkbox"/> N
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 (Form 600). Attach any additional pumping schedules with POD # and before/after proposed project labeled.	<input type="checkbox"/> A

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

33. If you submitted Technical Analyses with this application, list the hydraulically connected surface water sources and answer questions 34 to 38 one time per source. Use the "Additional Hydraulically Connected Source (600-TAA)" sheet for each additional source. If you have elected for the Department to conduct the Technical Analyses after application submittal, write "N/A" and skip to question 39 because the information required to answer questions 34 to 38 is not yet available. If measurements are required to determine physical or legal availability of depleted surface water sources, the Department will not have the information necessary to complete all necessary technical analyses or to evaluate the applicable criteria. If the type of groundwater diversion for your proposed project is a developed spring, write "NA" and skip to question 39 because this section is complete.	



34. Name the hydraulically connected surface water source for which you are answering questions 35 to 38. _____	
35. Are stream gage data available?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, answer question 36.	
b. If no, answer question 37.	
36. Stream gage data are available.	
a. Is one stream gage located above and one stream gage located below the start of the depleted reach?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no, is only one stream gage located near the start of the depleted reach?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, is the stream gage located upstream or downstream? _____	
b. List the gage name(s). Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	
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 is available. Gage 1: _____ Gage 2: _____	
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.	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, explain. _____ _____ _____ _____	<input type="checkbox"/> A
e. How long is the period of record? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	
f. Who operates and maintains the gage(s)? Write "N/A" for Gage 2 if one gage is available. Gage 1: _____ Gage 2: _____	
g. Is each available stream gage operated and maintained by USGS or DNRC?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, skip to question 36.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: _____	



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.	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> Y <input type="checkbox"/> N
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.	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> Y <input type="checkbox"/> N
4. Were requirements established and followed for maintaining a permanent gage datum and meeting specified accuracy limits?	
a. Gage 1.	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> Y <input type="checkbox"/> N
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? See the "Department Standard Practice for Determining Physical Surface Water Availability" in the Permit Manual.	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, record how many meet the standard, then skip to question 39 because this section is complete. _____	
ii. If no, answer question 37.	
37. 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?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, the Department requires 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 38.	
b. If yes,	
i. Submit available measurements to the Department.	<input type="checkbox"/> S
ii. Who collected the measurements? _____	<input type="checkbox"/> A
iii. With what method were the data collected? _____ _____ _____	<input type="checkbox"/> A
iv. What is the period of record? _____	



v. What is the frequency of measurement? _____	
vi. Are there gaps in the data?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, what is the nature of the gaps and how are gaps handled to ensure data quality? _____ _____ _____	<input type="checkbox"/> A
vii. Is there a process for maintaining the data and meeting specified accuracy limits?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, explain. _____ _____ _____	<input type="checkbox"/> A
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? See the "Department Standard Practice for Determining Physical Surface Water Availability" in the Permit Manual.	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, this section is complete. Skip to question 39.	
2. If no, answer question 38.	
38. 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? If the Department finds that your measurements are not sufficient to validate an estimation technique or that no estimation technique is appropriate for the source characteristics, further measurements may be required. Refer to the "Department Standard Practice for Determining Physical Surface Water Availability" in the Permit Manual for more information.	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes,	
i. Describe how the measurements are representative of high, moderate, and low flows. _____ _____ _____ _____	<input type="checkbox"/> A
ii. Describe the estimation technique. _____ _____ _____ _____ _____ _____ _____ _____	<input type="checkbox"/> A



b. If no, but a Department-accepted estimation technique will be appropriate for the hydraulically connected surface water source:	
i. Submit a request 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.	<input type="checkbox"/> S
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. _____ _____ _____	<input type="checkbox"/> A
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? Refer to the "Department Standard Practice for Determining Physical Surface Water Availability" in the Permit Manual for more information.	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If no, submit a request 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.	<input type="checkbox"/> S

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.



PROJECT-SPECIFIC QUESTIONS

Controlled Groundwater Areas and Basin Closures

Questions, Narrative Responses, and Tables	Check-boxes
39. Does the project include one or more groundwater points of diversion located in the East Valley Controlled Groundwater Area (EVCGWA)?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, is the use over 35 GPM or 10 AF per year?	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> A
b. If no, skip to question 40.	
40. Does the project include one or more groundwater points of diversion located in the Yellowstone Controlled Groundwater Area (YCGA)?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, is the proposed flow rate and volume over 35 GPM or 10 AF per year?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no, this is the incorrect form. Use instead Form 600-YCGA: Yellowstone Controlled Groundwater Area Permit Application.	
ii. If yes, submit <i>Form 600 YCGA: Yellowstone Controlled Groundwater Area Addendum Over 35 gallons per minute.</i>	<input type="checkbox"/> S
41. Is the project for surface water or groundwater and subject to one or more of the following areas listed on the Department's website (https://dnrc.mt.gov/Water-Resources/Water-Rights/Basin-Closures-Stream-Depletion-Controlled-Ground-Water-Areas)? <ul style="list-style-type: none"> • Controlled Groundwater Areas, not mentioned in questions 39 to 40 • Basin Closures or Stream Depletion Zones 	<input type="checkbox"/> Y <input type="checkbox"/> N
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. _____	<input type="checkbox"/> A

