



**APPLICATION TO CHANGE A WATER RIGHT
TECHNICAL ANALYSIS ADDENDUM
ADDITIONAL WATER RIGHT HISTORICAL USE SHEET (606-TAA)
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 checked when the required item is attached to the Technical Analysis Addendum Additional Sheet. 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. Label units in narrative responses. Responses in the form of a table may be entered into the table provided on this form or in an attachment. Responses in the form of a table that are larger than the table provided on this form should be placed in an attachment. If an attachment is used, the table must have the exact headings found on this form, and the see attachment (“A”) checkbox on this form must be marked. For tables on this form, circle correct unit at header of column when table has unit options. For tables in attachments, label all units.

Water right number: _____

10. Answer the questions below related to the historical purpose for each of the water rights being changed.	
a. Irrigation	
i. Is the water right being changed a Statement of Claim?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes,	
a. Does the Water Resources Survey corroborate the acres irrigated listed on the abstract?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no, submit one or more aerial photographs that can corroborate the historical place of use.	<input type="checkbox"/> S
b. Does the legal land description from the abstract match the actual location of the historical place of use?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no, submit documentation of a written request submitted to the Water Court for amendment of the Claim as well as information to substantiate the requested amendment.	<input type="checkbox"/> S
2. If no, submit one or more aerial photographs that can corroborate the historical place of use.	<input type="checkbox"/> S
b. Lawn and garden	
i. Submit aerial photographs that can corroborate the historical place of use.	<input type="checkbox"/> S
c. Stock	
i. Submit aerial photographs, grazing records, or other records to corroborate the historical place of use.	<input type="checkbox"/> S
ii. Did the stock drink direct from source or direct from ditch?	<input type="checkbox"/> Y <input type="checkbox"/> N



1. If no, submit data sources that make clear the location of the stock watering infrastructure.	<input type="checkbox"/> S
d. Multiple domestic, domestic, municipal, mining, commercial, and other purposes	
i. Submit aerial photographs, deeds, other recorded documents or records, affidavits, or other published documents, such as magazine articles, to corroborate the historical place of use.	<input type="checkbox"/> S

Historical Use: Point of Diversion

11. For all historical points of diversion, identify the means, location (¼ ¼ ¼ section), and if they are proposed for change. Label using the same POD ID letter as for the Historical Use Map from Form 606.	<input type="checkbox"/> A
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POD ID	Means	Location (¼ ¼ ¼ Section)	Proposed for Change?

12. Do the legal land descriptions from the abstract match the actual locations of all historical points of diversion?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no, do you have one or more aerial photographs that clearly show the location of the historical points of diversion that do not match their legal land descriptions?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes,	
1. Submit the photograph(s).	<input type="checkbox"/> S
2. Submit an explanation for the discrepancy and, if a Statement of Claim, submit documentation of a written request submitted to the Water Court for amendment of the Claim.	<input type="checkbox"/> S
ii. If no, submit another data source to corroborate the location of the historical points of diversion that do not match their legal land description, an explanation for the discrepancy, and, if a Statement of Claim, submit documentation of a written request submitted to the Water Court for amendment of the Claim.	<input type="checkbox"/> S
13. Answer questions below related to the diversion means for each of the historical points of diversion.	
a. Headgate	
i. For each headgate, provide dimensions in feet (FT), slope of the channel at the headgate (%), material of the headgate, estimated historical capacity in gallons per minute (GPM) or cubic feet per second (CFS) and the method used to estimate historical capacity. Label using the same POD ID letter as for the Historical Use Map from Form 606.	<input type="checkbox"/> A



POD ID	Dimensions (FT)	Slope (%)	Material	Capacity (GPM or CFS)	Method

b. Pump, dike, dam, or other surface water point of diversion		
i. For each pump, dike, dam, or other surface water point of diversion, provide an estimate of the historical capacity (GPM or CFS) and the method used to estimate the historical capacity. Label using the same POD ID letter as for the Historical Use Map from Form 606.		<input type="checkbox"/> A

POD ID	Estimated Capacity (GPM or CFS)	Method

c. Well, pit, or other groundwater point of diversion		
i. For each well, pit, or other groundwater point of diversion, provide an estimate of the historical capacity (GPM or CFS) and the method used to estimate the historical capacity. Label using the same POD ID letter as for the Historical Use Map from Form 606.		<input type="checkbox"/> A

POD ID	Estimated Capacity (GPM or CFS)	Method

14. Do other water rights share any of the points of diversion?		<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, list the water rights, their flow rates (GPM or CFS), and the nature of the relationship. Label using the same POD ID letter as for the Historical Use Map from Form 606.		<input type="checkbox"/> A



POD ID	Water Right No.	Flow (GPM or CFS)	Relationship

Historical Use: Period of Diversion

15. Are the period of diversion and the period of use the same?		<input type="checkbox"/> Y <input type="checkbox"/> N
a. If no,		<input type="checkbox"/> A
i. Why are they different?		
<hr/> <hr/> <hr/>		
ii. Is there a place of storage?		<input type="checkbox"/> Y <input type="checkbox"/> N
16. When was water diverted for the purposes of the water rights being changed?		
Start Date (Month (MM)/Day (DD))		End Date (MM/DD)

17. Does the Department have a standard, found in ARM 36.12.112, for the period of diversion for the purposes for which water is used?		<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, does the period of diversion fall within Department standards?		<input type="checkbox"/> Y <input type="checkbox"/> N
i. If no, or if the period of diversion falls outside Department standards, explain how the period of diversion is reasonable for the purpose.		<input type="checkbox"/> A
18. Do the water rights proposed for change have an irrigation purpose?		<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes,		
i. What were the crops grown?		

<p>1. If the crops grown include hay, how many cuttings were there per season and how many days did they last? If the crops did not include hay, write "N/A" instead.</p> <p>_____</p> <p>_____</p>	
<p>ii. Did diversions ever temporarily cease within the period of use? This may include water shortages or calls based on priority date.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>1. If yes, please explain.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A

Historical Use: Historical Diverted Volume

<p>19. Answer the questions below related to the historical purposes of the water rights being changed.</p>	
<p>a. Irrigation</p>	
<p>i. Do you want ARM 36.12.1902(11) to be used to calculate historical diverted volume?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>1. If no, submit a Historical Water Use Addendum (Form 606-HUA).</p>	<input type="checkbox"/> S
<p>b. Non-irrigation</p>	
<p>i. How often was water historically diverted?</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>ii. What was the duration of each historical diversion?</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>iii. Was wastewater historically discharged? If yes, what amount was discharged?</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>iv. What is the volume of water historically diverted (AF)?</p> <p>_____</p>	
<p>v. How did you determine the volume of water historically diverted?</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A



vi. Did the historical diverted volume serve more than one purpose of use?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, how much of the diverted volume served each purpose of use and how did you determine this?	<input type="checkbox"/> A

Historical Use: Historical Consumed Volume

20. Answer the questions below related to the historical purpose of the water rights being changed.	
a. Irrigation	
i. Will you use Department standards for historical consumptive use as defined in ARM 36.12.1902?	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If no,	
a. Submit a Historical Water Use Addendum (Form 606-HUA) to the Department.	<input type="checkbox"/> S
2. If yes,	
a. What is the historical irrigation method type and subtype? Irrigation method types include flood and sprinkler. Flood irrigation subtypes include level border, graded border, furrow, contour ditch, or wild flood. Sprinkler subtypes include wheel line and center pivot.	<input type="checkbox"/> A

b. What was the slope of the historical place of use?	<input type="checkbox"/> A

c. Are there any factors beyond irrigation method type/subtype and place of use slope that may influence percent efficiency of irrigation?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes, submit evidence to support the modified percent efficiency of irrigation in the Historical Water Use Addendum (Form 606-HUA).	<input type="checkbox"/> S
d. Based on answers to the above questions, what is the percent efficiency of irrigation?	

e. What is the County Management Factor?	

f. What is evapotranspiration (ET) based on the irrigation method and county?	



g. What percent of applied water are irrecoverable losses per ARM 36.12.1902(17)? _____	
h. Do other water rights supplement or overlap the historical place of use that contribute to the irrigation water demand?	<input type="checkbox"/> Y <input type="checkbox"/> N
i. If yes,	
1. How were the water rights operated to serve the irrigation purpose? _____ _____ _____ _____ _____ _____ _____ _____ _____	<input type="checkbox"/> A
2. For each supplemental or overlapping water right, list the average period of diversion and use (MM/DD-MM/DD), flow rate (GPM or CFS), and the volume of water (AF) contributed to the total irrigation water demand.	<input type="checkbox"/> A

Water Right No.	Avg. Period of Diversion (MM/DD-MM/DD)	Avg. Period of Use (MM/DD-MM/DD)	Flow Rate (GPM or CFS)	Volume Contributed (AF)

b. Lawn and garden	
i. Will you use the Department standards for historical consumptive use volume for lawn and garden? Department standards include 2.5 acre-feet per acre, or a calculated volume based on Irrigation Water Requirements for turf grass.	<input type="checkbox"/> Y <input type="checkbox"/> N
1. If yes, which standard? _____	



<p>2. If no, please provide an estimate of historical water use based on expert analysis and summarize the methods used to determine this estimate.</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>c. Stock</p>	
<p>i. Which volume standard for animal units applies to historical use and why? The standards are either 15 or 30 gallons per animal unit per day.</p> <p>_____</p> <p>_____</p>	
<p>ii. How many animal units were historically served?</p> <p>_____</p>	
<p>iii. Did these animal units rely entirely on the water rights proposed for change for their full water demand?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>1. If no, explain.</p> <p>_____</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>d. Domestic and multiple domestic</p>	
<p>i. How many households were served?</p> <p>_____</p>	
<p>ii. Will the Department standard of 1 acre-foot per household be used? The same standard shall be applied to historical and proposed uses.</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>1. If no, what standard will be used?</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>iii. Did the historical use include wastewater disposal and treatment?</p>	<input type="checkbox"/> Y <input type="checkbox"/> N
<p>1. If yes, which of the following best describes the wastewater disposal and treatment system? Individual drain fields, central treatment facility with minimal consumption, or evaporation basin or land application?</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A
<p>e. Municipal</p>	
<p>i. What is the volume of water (AF) historically consumed for municipal purposes?</p> <p>_____</p> <p>_____</p>	<input type="checkbox"/> A



ii. Please submit evidence to support historical municipal use such as commercial, lawn and garden, and/or multiple domestic uses. The data sources may include records that tie water use to the U.S Census, estimates of historical system capacity and estimates of leakage.	<input type="checkbox"/> S
f. Other	
i. What is the volume of water (AF) historically consumed for other purposes? _____ _____	<input type="checkbox"/> A
ii. Submit evidence to support the volume of water historically consumed.	<input type="checkbox"/> S

Historical Use: Historical Places of Storage

21. Did the historical use include one or more places of storage, which may include reservoirs, ponds, and pits that are greater than 0.1 acre-feet in volume?	<input type="checkbox"/> Y <input type="checkbox"/> N
a. If yes, for each historical place of storage please provide the surface area in acres (AC), capacity (AF), annual net evaporation (FT/year), and number of times per year the place of storage was filled.	<input type="checkbox"/> A

ID	Surface Area (AC)	Capacity (AF)	Annual Net Evaporation (FT/YR)	# of Annual Fillings

