




LRE Water
 909 Colorado Avenue
 Glenwood Springs, CO 81601
 (970)-945-6777 Voice
 (970)-945-1137 Facsimile

Memorandum

To: BWCD BOARD OF DIRECTORS
From: ERIC MANGEOT 
CC: CHRIS GEIGER
Date: AUGUST 1, 2023
File: AMENDMENT (CONTRACT 234)

Applicant Name: CHARLES T.K. AND LINDA HO

Type of Use: Domestic Commercial
 Industrial Agricultural

Amount: 6.7 AF 0.033 cfs 15 gpm (previous contract amount 9.0 AF)

Location: Area A A-3 Area B Inclusion
 County: PITKIN Contiguous:
 BWCD Division:

Mid Valley Metro District Notice Required? Yes No

Blue Creek Water Rights Applied? Yes No

02CW77 Umbrella Plan Water Rights Applied? Yes No **Cost:** \$1,750 (\$2,000 already paid)

This amendment is to cover depletions associated with a single-family dwelling, an ADU, a garage with sink and toilet (2.2 EQR total), 3.2 acres of irrigation, and pond evaporation on a lot owned by Linda and Charles Ho (Applicant). Total depletions are estimated at 6.7 acre-feet (AF) as shown on the attached calculation sheets.

The property is located in the NW1/4 of Section 16, Township 9 South, Range 85 West, of the 6th P.M. as shown in **Figure 1** (attached). The physical address of the property is 100 Woody Creek Lane (Pitkin County Parcel ID 264316200002).

Diversions associated with the in-house uses of this contract are from the existing well (permit no.176273-A) located in the NE1/4 NW1/4 of Section 16, Township 9 South, Range 85 West, of the 6th P.M. at a point UTM NAD 83 Z13: 4349239.1m N, 336967.1m E. The Applicant will need to provide the District with a copy of the -F well permit once obtained from the Division of Water Resources. All irrigation use is from the Ho Pump & Pipeline (WDID 3808645). A hot tub and swimming exercise pool on the property are currently non-functioning and have no future use planned by the owners.

Diversions associated with the outdoor uses is from the Ho Pump & Pipeline located in the NE ¼ NW ¼ of Section 16, T9S, R85W, 6th PM, 319 feet from the North section line and 1,970 feet from the West section line (UTM NAD 83 Z13: 4349212.5m N, 336872.0m E).

Water User :	Charles and Linda Ho	
Analysis Date :	August 3, 2023	
District Area:	A-3	
Source Series:	4	
Maximum Demand:	90	0.200
	(GPM)	(CFS)

BASALT WATER CONSERVANCY DISTRICT
WATER REQUIREMENTS

(acre feet)

Contract 234 Amendment (overall contract)

Month	Total Demand						Consumptive Use						(13)* Delayed Depletions	(14) Source of Aug/Replace
	(1) Domestic In-house	(2) Pond Evap.	(3) Lawn Irrigation	(4) Crop Irrigation	(5) Livestock	(6) TOTAL	(7) Domestic In-house	(8) Pond Evap.	(9) Lawn Irrigation	(10) Crop Irrigation	(11) Livestock	(12)* TOTAL		
January	0.073	0.002	0.000	0.000	0.000	0.075	0.011	0.002	0.000	0.000	0.000	0.014	0.379	GNM
February	0.066	0.005	0.000	0.000	0.000	0.071	0.010	0.005	0.000	0.000	0.000	0.016	0.379	GNM
March	0.073	0.009	0.000	0.000	0.000	0.082	0.011	0.009	0.000	0.000	0.000	0.022	0.379	GNM
April	0.071	0.014	0.071	0.000	0.000	0.156	0.011	0.014	0.057	0.000	0.000	0.090	0.412	GNM
May	0.073	0.019	1.386	0.000	0.000	1.478	0.011	0.019	1.108	0.000	0.000	1.265	0.718	GNM
June	0.071	0.024	1.843	0.000	0.000	1.937	0.011	0.024	1.474	0.000	0.000	1.676	0.891	GNM
July	0.073	0.024	1.713	0.000	0.000	1.810	0.011	0.024	1.370	0.000	0.000	1.562	0.878	GNM
August	0.073	0.020	1.004	0.000	0.000	1.097	0.011	0.020	0.803	0.000	0.000	0.926	0.718	GNM
September	0.071	0.017	0.921	0.000	0.000	1.009	0.011	0.017	0.737	0.000	0.000	0.849	0.665	GNM
October	0.073	0.011	0.192	0.000	0.000	0.276	0.011	0.011	0.153	0.000	0.000	0.195	0.465	GNM
November	0.071	0.006	0.000	0.000	0.000	0.077	0.011	0.006	0.000	0.000	0.000	0.019	0.386	GNM
December	0.073	0.002	0.000	0.000	0.000	0.076	0.011	0.002	0.000	0.000	0.000	0.015	0.379	GNM
TOTALS -->	0.862	0.152	7.128	0.000	0.000	8.143	0.129	0.152	5.703	0.000	0.000	6.649	6.649	

Assumptions						
(1)	NUMBER OF RESIDENCES	2.2		(5)	# of Livestock @ 11 gals/day	0
	# persons/residence	3.5		(7)	% CU for Domestic/Commercial	15
	# gallons/person/day	100		(9)	% Lawn Irrig. Efficiency	80
(2)	Pond Evaporation	0.152	acre-feet	(10)	% Crop Irrig. Efficiency	80
	0.043 surface acres				Consumption of Irrig. (af/ac)	1.782
(3)	Sq. Ft. of Lawn Irrigated	139,392	(3.2 acres)	(9-10)	Elevation (feet)	7300
	Lawn Application Rate (af/ac)	2.228				
(4)	Acres of Crop Irrigated	0.00				
	Crop Application Rate (af/ac)	0.000				

**Area A-3
Roaring Fork River
Type A Well
Surface Diversion for All Irrigation & Pon
Well for In-house Use only**

* (6) (12) (13) Total Includes 5% Transit Loss
10% from Green Mtn.

Water User :	Charles and Linda Ho	
Analysis Date :	August 1, 2023	
District Area:	A-3	
Source Series:	4	
Maximum Demand:	15	0.033
	(GPM)	(CFS)

BASALT WATER CONSERVANCY DISTRICT
WATER REQUIREMENTS
 (acre feet)
Contract 234 Amendment - Well Use Only

Month	Total Demand						Consumptive Use						(13)* Delayed Depletions	(14) Source of Aug/Replace
	(1) Domestic In-house	(2) Pond Evap.	(3) Lawn Irrigation	(4) Crop Irrigation	(5) Livestock	(6) TOTAL	(7) Domestic In-house	(8) Pond Evap.	(9) Lawn Irrigation	(10) Crop Irrigation	(11) Livestock	(12)* TOTAL		
January	0.073	0.000	0.000	0.000	0.000	0.073	0.011	0.000	0.000	0.000	0.000	0.012	0.012	GNM
February	0.066	0.000	0.000	0.000	0.000	0.066	0.010	0.000	0.000	0.000	0.000	0.011	0.012	GNM
March	0.073	0.000	0.000	0.000	0.000	0.073	0.011	0.000	0.000	0.000	0.000	0.012	0.012	GNM
April	0.071	0.000	0.000	0.000	0.000	0.071	0.011	0.000	0.000	0.000	0.000	0.012	0.012	GNM
May	0.073	0.000	0.000	0.000	0.000	0.073	0.011	0.000	0.000	0.000	0.000	0.012	0.012	GNM
June	0.071	0.000	0.000	0.000	0.000	0.071	0.011	0.000	0.000	0.000	0.000	0.012	0.012	GNM
July	0.073	0.000	0.000	0.000	0.000	0.073	0.011	0.000	0.000	0.000	0.000	0.012	0.012	GNM
August	0.073	0.000	0.000	0.000	0.000	0.073	0.011	0.000	0.000	0.000	0.000	0.012	0.012	GNM
September	0.071	0.000	0.000	0.000	0.000	0.071	0.011	0.000	0.000	0.000	0.000	0.012	0.012	GNM
October	0.073	0.000	0.000	0.000	0.000	0.073	0.011	0.000	0.000	0.000	0.000	0.012	0.012	GNM
November	0.071	0.000	0.000	0.000	0.000	0.071	0.011	0.000	0.000	0.000	0.000	0.012	0.012	GNM
December	0.073	0.000	0.000	0.000	0.000	0.073	0.011	0.000	0.000	0.000	0.000	0.012	0.012	GNM
TOTALS -->	0.862	0.000	0.000	0.000	0.000	0.862	0.129	0.000	0.000	0.000	0.000	0.144	0.146	

Assumptions						
(1)	NUMBER OF RESIDENCES	2.2		(5)	# of Livestock @ 11 gals/day	0
	# persons/residence	3.5		(7)	% CU for Domestic/Commercial	15
	# gallons/person/day	100				
(2)	Commercial/Other Demand (af)	0.000	Office	(9)	% Lawn Irrig. Efficiency	80
					Consumption of Irrig. (af/ac)	0.000
(3)	Sq. Ft. of Lawn Irrigated	0		(10)	% Crop Irrig. Efficiency	80
	Lawn Application Rate (af/ac)	0.000			Consumption of Irrig. (af/ac)	0.000
(4)	Acres of Crop Irrigated	0.00		(9-10)	Elevation (feet)	6500
	Crop Application Rate (af/ac)	0.000				

Area A-3
Roaring Fork River
Well for In-House Use only

*(12) Total Includes 5% Transit Loss
 10% from Green Mtn.

Water User :	Charles and Linda Ho	
Analysis Date :	August 1, 2023	
District Area:	A-3	
Source Series:	4	
Maximum Demand:	75	0.167
	(GPM)	(CFS)

BASALT WATER CONSERVANCY DISTRICT
WATER REQUIREMENTS
(acre feet)

Contract 234 Amendment - Pump & Pipeline Use Only

Month	Total Demand						Consumptive Use						(13)* Delayed Depletions	(14) Source of Aug/Replace
	(1) Domestic In-house	(2) Pond Evap.	(3) Lawn Irrigation	(4) Crop Irrigation	(5) Livestock	(6) TOTAL	(7) Domestic In-house	(8) Pond Evap.	(9) Lawn Irrigation	(10) Crop Irrigation	(11) Livestock	(12)* TOTAL		
January	0.000	0.002	0.000	0.000	0.000	0.002	0.000	0.002	0.000	0.000	0.000	0.002	0.002	GNM
February	0.000	0.005	0.000	0.000	0.000	0.005	0.000	0.005	0.000	0.000	0.000	0.005	0.005	GNM
March	0.000	0.009	0.000	0.000	0.000	0.009	0.000	0.009	0.000	0.000	0.000	0.010	0.010	GNM
April	0.000	0.014	0.071	0.000	0.000	0.085	0.000	0.014	0.057	0.000	0.000	0.078	0.078	GNM
May	0.000	0.019	1.386	0.000	0.000	1.405	0.000	0.019	1.108	0.000	0.000	1.253	1.253	GNM
June	0.000	0.024	1.843	0.000	0.000	1.866	0.000	0.024	1.474	0.000	0.000	1.664	1.664	GNM
July	0.000	0.024	1.713	0.000	0.000	1.737	0.000	0.024	1.370	0.000	0.000	1.550	1.550	GNM
August	0.000	0.020	1.004	0.000	0.000	1.023	0.000	0.020	0.803	0.000	0.000	0.914	0.914	GNM
September	0.000	0.017	0.921	0.000	0.000	0.938	0.000	0.017	0.737	0.000	0.000	0.837	0.837	GNM
October	0.000	0.011	0.192	0.000	0.000	0.203	0.000	0.011	0.153	0.000	0.000	0.183	0.183	GNM
November	0.000	0.006	0.000	0.000	0.000	0.006	0.000	0.006	0.000	0.000	0.000	0.007	0.007	GNM
December	0.000	0.002	0.000	0.000	0.000	0.002	0.000	0.002	0.000	0.000	0.000	0.003	0.003	GNM
TOTALS -->	0.000	0.152	7.128	0.000	0.000	7.281	0.000	0.152	5.703	0.000	0.000	6.505	6.505	

Assumptions					
(1)	NUMBER OF RESIDENCES	0	(5)	# of Livestock @ 11 gals/day	0
	# persons/residence	3.5	(7)	% CU for Domestic/Commercial	15
	# gallons/person/day	100			
(2)	Pond Evaporation	0.152	(9)	% Lawn Irrig. Efficiency	80
	0.043 surface acres	acre-feet		Consumption of Irrig. (af/ac)	1.782
(3)	Sq. Ft. of Lawn Irrigated	139,392	(10)	% Crop Irrig. Efficiency	80
	Lawn Application Rate (af/ac)	2.228		Consumption of Irrig. (af/ac)	0.000
(4)	Acres of Crop Irrigated	0.00	(9-10)	Elevation (feet)	7300
	Crop Application Rate (af/ac)	0.000			

**Area A-3
Roaring Fork River
Surface Diversion for Irrigation & Pond E**

*(12) Total Includes 5% Transit Loss
10% from Green Mtn.

**TABLE 1
EVAPORATION CALCULATION - Ho (7,300 feet)**

Month	SEO Monthly Distribution	(1) Pond Evaporation		(2) Average Precipitation		(3) Effective Precipitation		(4) Net Evaporation		(5) Pond Evaporation
		(feet)	(inches)	(feet)	(inches)	(feet)	(inches)	(feet)	(inches)	(acre-feet)
January	1.0%	0.04	0.43	0.13	1.61	0.00	0.00	0.04	0.43	0.0015
February	3.0%	0.11	1.28	0.13	1.56	0.00	0.00	0.11	1.28	0.0046
March	6.0%	0.21	2.55	0.14	1.69	0.00	0.00	0.21	2.55	0.0091
April	9.0%	0.32	3.83	0.17	2.05	0.00	0.00	0.32	3.83	0.0137
May	12.5%	0.44	5.31	0.13	1.58	0.00	0.00	0.44	5.31	0.0190
June	15.5%	0.55	6.59	0.07	0.89	0.00	0.00	0.55	6.59	0.0236
July	16.0%	0.57	6.80	0.13	1.50	0.00	0.00	0.57	6.80	0.0244
August	13.0%	0.46	5.53	0.12	1.48	0.00	0.00	0.46	5.53	0.0198
September	11.0%	0.39	4.68	0.13	1.59	0.00	0.00	0.39	4.68	0.0168
October	7.5%	0.27	3.19	0.14	1.63	0.00	0.00	0.27	3.19	0.0114
November	4.0%	0.14	1.70	0.13	1.53	0.00	0.00	0.14	1.70	0.0061
December	1.5%	0.05	0.64	0.12	1.43	0.00	0.00	0.05	0.64	0.0023
	100.0%	3.54	42.50	1.55	18.54	0.00	0.00	3.54	42.50	0.1523

(1) = Monthly distribution of gross annual evaporation rate in accordance with SEO General Criteria.

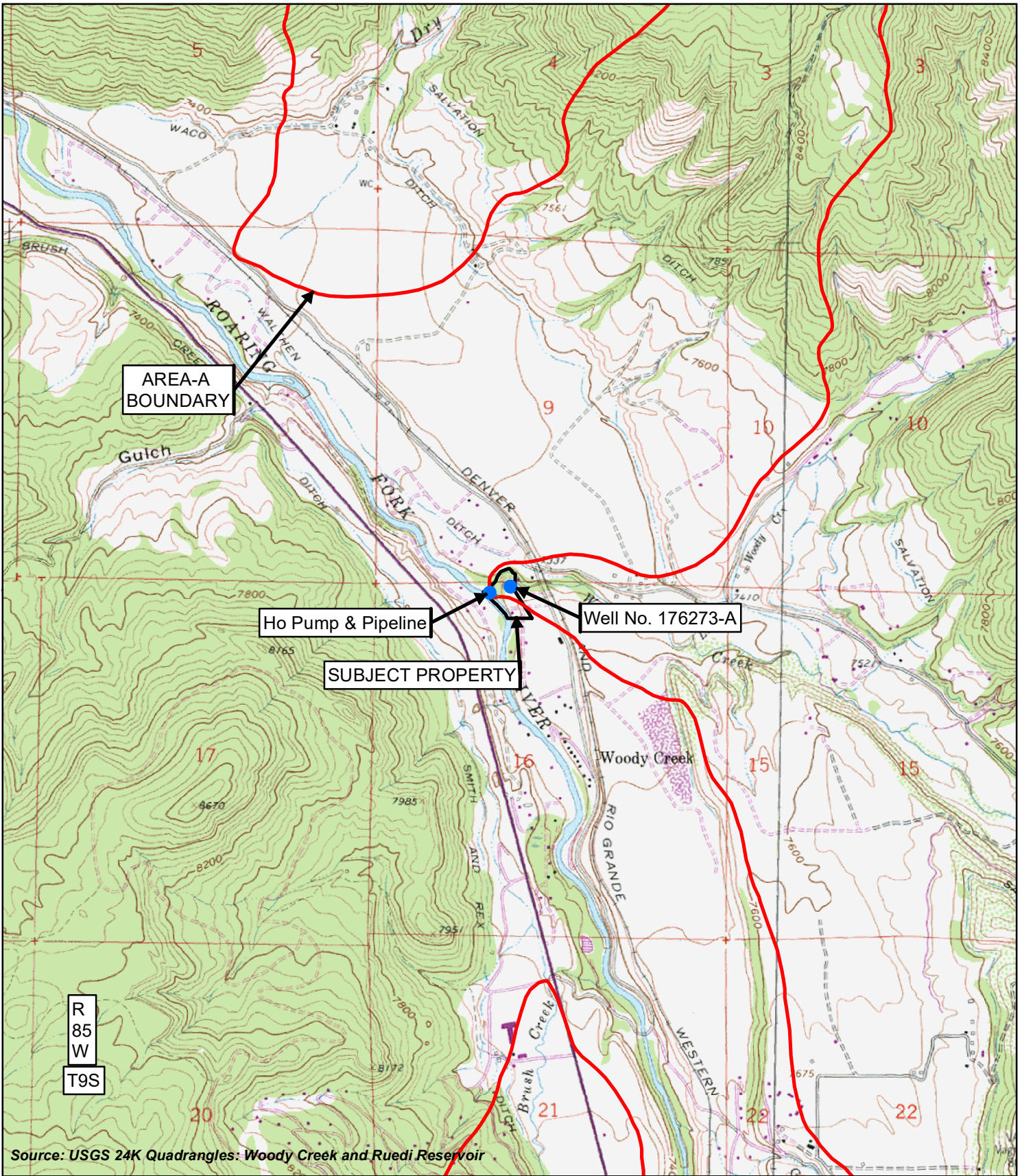
(2) = Monthly precipitation from local weather station.

(3) = Equal to 0 per State Policy No. 2004-3.

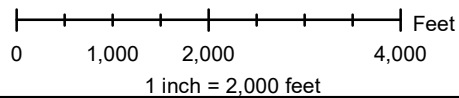
(4) = Net Evaporation = Column (1) - Column (3)

(5) = Open Water Surface Area (0.026 acres) x Column (4) in feet.

(6) = Pond Evaporation (0.043 surface acres).



**Figure 1: Charles and Linda Ho
Water Allotment Contract Amendment
Basalt Water Conservation District**



Date: 2023-08-01
File: 20033BWCD1-23(4)
Drawn: MDH
Approved: EFM

**APPLICATION FOR WATER ALLOTMENT CONTRACT
BASALT WATER CONSERVANCY DISTRICT**

1. Applicant(s) Contact Information
 - a. Name: [Charles T.K. Ho and Linda Ho](#)
 - b. Mailing Address:
[29304 Saddlebag Trail](#)
[Myakka City, FL 34251](#)
 - c. Street Address:
[0100 Woody Creek Lane](#)
[Woody Creek, CO 81656](#)
 - d. Telephone Numbers: [941-322-2780](#)
 - e. Email Address: larasamanthadeanebutler@hotmail.com
 - f. If Applicant is represented by an Attorney, please provide the Attorney's contact information, including name, address, telephone, and email:
 - g. Emergency Local Contact Information, including name, address, telephone, and email: [Morgan & Lara Butler](#)
[0100 Woody Creek Lane](#)
[970-618-7741](#)
larasamanthadeanebutler@hotmail.com
 - h. Contact Information of property manager, caretaker, irrigator, system operator, or agent who should be provided a copy of this contract, including name, address, telephone, and email:
[same as \(g\) above](#)
2. Type of land use (development) proposed for water allotment contract (i.e. single family home, subdivision, gravel pit, etc.):
[Single Family Home, Caretaker Unit, Garage with sink/toilet](#)
3. Legal description and address of property on which District's water rights and/or contract water will be used (attach map and vesting deed with proof of ownership)*:
[See attached.](#)

4. Elevation of property: _____ 6-7,000 ft., 7-8,000 ft., _____ 8-9,000 ft.

5. Name and legal description of water supply diversion point(s):

Name of Diversion Well No. 176273-A.

Type of Diversion Well (e.g., a well, spring, ditch, pipeline, etc.)

Legal Description: NE Quarter, NW Quarter, Section 16, Township 9S, Range 85W, of the 6th Principal Meridian, at a location 155 feet from the N Section line and 1960 feet from the W Section line.

UTM Coordinates (NAD 83):

Northing: 4349239.1.

Easting: 336967.1.

_____ Zone 12 / Zone 13.

If diversion point is a well, please provide the Well Permit No. Well No. 176273-A.

Is the well operational/active? Yes, _____ No

Is there currently an operating well meter? Yes, _____ No

Notice: A valid well permit with operating well meter will be required under the contract.

Ho Pump & Pipeline - located in the NE ¼ NW ¼ of Section 16, T9S, R85W, 6th PM, 319 feet from the North section line and 1,970 feet from the West section line.

6. Legal Water Supply: (please check one)

Applicant requests consideration by the District to be included in the District's Umbrella Plan for Augmentation decreed in Case No. 02CW77.*

*Note: Certain applicants may qualify to be included in the District's Umbrella Plan at the District's discretion. In order to be included in the District's Umbrella Plan, the Applicant's depletions must occur within the District's defined "Area A" and the Applicant must reimburse the District its *pro rata* share of the District's expenses in obtaining the Umbrella Plan decree. Costs of reimbursement are contingent upon location and intensity of the uses, and range from \$1,200 for contractees with less than 2 units (EQRs) in certain areas, to \$5,000 for more than 8 EQRs in

Area A-3 (generally the Roaring Fork drainage above its confluence with the Fryingspan Rivers).

____ Applicant will obtain its own plan for augmentation by applying to the Water Court, Water Division 5 within 2 years of this application. If Applicant has already applied for its own change/approval of plan for augmentation, the Water Court Case Number is: _____.

7. Proposed waste water treatment system: (please check)

- Tap to central waste water treatment facility
- Septic tank/leachfield system
- Evapotranspiration system
- Other:

8. Proposed use of water (please check)

- Domestic/Municipal (single family home(s), duplex(s), condominium(s), mobile home(s), apartment). Please complete page four of this application.
- Commercial (hotel, office, warehouse, restaurant, bar, retail). Please complete page five of this application.
- Industrial (gravel pit, manufacturing). Please complete page six of this application.
- Agricultural (crop irrigation, stock watering). Please complete page seven of this application.

Date on which the county or other applicable governmental entities approved the land use for which you seek legal water service: _____. (Note: Copy of the Resolution of other documentation evidencing such approval should be submitted with application.)

9. What other water rights are associated with or used on the property?
Natural spring that can also fill pond.

10. What other uses of water occur on the property?
N/A

Please complete the section below if you selected domestic/municipal use on Page 3, No. 8

DOMESTIC/MUNICIPAL WATER USES

In-House

Single family residential home(s)	Number of Units: <u>2.2</u>
Duplex(s)	Number of Units: _____
Condominium(s)	Number of Units: _____
Apartment(s)	Number of Units/Rooms: _____
Mobile Home(s)	Number of Units: _____

Irrigation (lawns, parks, open space)

Total area to be irrigated _____ Sq. Ft. or 3.2 Acres

Type of irrigation system (please check)

X Sprinkler

_____ Flood (irrigation ditch)

Domestic stock watering (cattle, horses)

Number of animals:

Period of use (months):

Other domestic/municipal uses not listed:

Pond Evaporation

VERIFICATION

STATE OF Colorado)

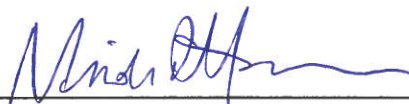
) ss.

COUNTY OF GARFIELD)

I, Mindi Harman (name of Applicant or Applicant's duly authorized representative), being first duly sworn, upon oath, depose and state as follows:

- 1) I am the Applicant or a duly authorized officer, manager, agent or attorney-in-fact for the Applicant for this Application for Water Allotment Contract;
- 2) I have read and know the contents of this Application;
- 3) The information contained herein is an accurate and complete description of the Applicant's intended use of the Basalt Water Conservancy District's water rights;
- 4) The Applicant acknowledges that the accuracy and truth of all statements in this Application are conditions of approval of this Application by the Basalt Water Conservancy District and of the Contract to be made pursuant to such approval; and
- 5) I acknowledge that this application shall be subject to the District's Water Allotment Contract as approved and issued by the District.

Date: 08/03/2023

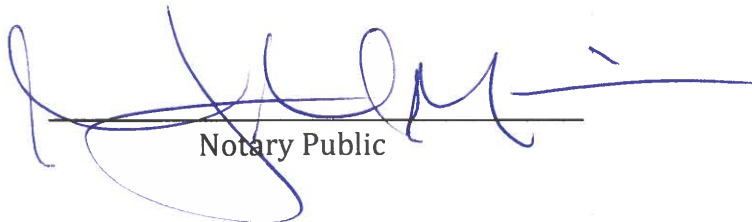
By: 

Print Name: Mindi Harman

Title: Authorized Agent

Subscribed and sworn before me this 3 day of August, 2023 by Mindi Harman.

Witness my hand and seal.


Notary Public

My commission expires:

MELODY LYNN MORRIS
Notary Public
State of Colorado
Notary ID # 19064009424
My Commission Expires 06-23-2024