



Resource Engineering, Inc.
 909 Colorado Avenue
 Glenwood Springs, CO 81601
 (970)-945-6777 Voice
 (970)-945-1137 Facsimile

Memorandum

To: BWCD BOARD OF DIRECTORS
 From: ERIC MANGEOT *EM*
 CC: CHRIS GEIGER
 Date: APRIL 29, 2016
 File: AMENDMENT – CONTRACT 666 JAIME ARAUJO

Applicant Name: Jaime Araujo

Type of Use: Domestic X Commercial _____
 Industrial _____ Agricultural _____

Amount: 2.1 AF 0.033 cfs 15 gpm (Previous Contract Amount = 2.1 AF)

Location: Area A A-4 Area B _____ Inclusion _____
 County: GARFIELD Contiguous: _____
 BWCD Division: 3

Mid Valley Metro District Notice Required? Yes _____ No X

Blue Creek Water Rights Applied? Yes _____ No X

02CW77 Umbrella Plan Water Rights Applied? Yes X No _____ **Cost:** \$1,200

- ALREADY PAID

This application is to cover depletions associated with a single family dwelling, 0.25 acres (10,890 square feet) of lawn and landscape irrigation, evaporative losses associated with a 0.12 surface acre water feature, and various animals as described below for an existing lot owned by Jaime Araujo (Applicant). The lot is located at 3911 Catherine Store Road in Garfield County (Parcel No. 239130300021) and is located in Division 3 of the District. Total depletions are 2.1 acre-feet (AF) as estimated by Resource Engineering, Inc. and includes an initial fill of the water feature (0.642 AF) in May of each year.

According to the BWCD Application, various animals include 2 cows, 8 horses, 8 goats, 28 waterfowl, and 30 chickens. Applicant has contacted the Division of Water Resources (DWR) with regards to the 58 chickens/waterfowl. The DWR estimated that the 58 chickens/waterfowl drink as much water as 1 cow. All animal use is estimated to be the equivalent of 19 livestock.

Diversions are to be from a proposed well (Jaime's Well, Permit No. 79818-F) located in the SE1/4 SW1/4 of Section 30, Township 7 South, Range 87 West, of the 6th P.M. at a point 882 feet from the South section line and 1,938 feet from the West section line. The Applicant must amend their well permit to allow for the new uses.

Note: Domestic use for this property is also supplied by the Blue Springs Well (Permit No. 28155-F-R) and BWCD Contract 42a (owned by Mary Janes) currently provides a legal water supply. The Applicant intends to maintain the physical/legal water supply from the Blue Springs Well to serve as a backup supply to the single family dwelling or for a future secondary dwelling on the property.

A copy of the water requirement table is attached along with a BWCD map showing the location of the property.

Water User :	Jaime Araujo
Analysis Date :	April 29, 2016
District Area :	A
Source Series:	4
Maximum Demand:	15 0.033 (GPM)

**BASALT WATER CONSERVANCY DISTRICT
WATER REQUIREMENTS
(acre feet)
Contract 656 Amendment**

Month	Total Demand				Consumptive Use					(12)* TOTAL	(13) Source of Aug/Replace	Delayed Depletions	
	(1) Domestic In-house	(2) Evaporation	(3) Lawn Irrigation	(4) Crop Irrigation	(5) Livestock	(6) TOTAL	(7) Domestic In-house	(8) Evaporation	(9) Lawn Irrigation				(10) Crop Irrigation
January	0.033	0.014	0.000	0.000	0.020	0.067	0.005	0.014	0.000	0.000	0.020	GNM	0.178
February	0.030	0.016	0.000	0.000	0.018	0.064	0.005	0.016	0.000	0.000	0.018	GNM	0.170
March	0.033	0.025	0.000	0.000	0.020	0.078	0.005	0.025	0.000	0.000	0.020	GNM	0.160
April	0.032	0.041	0.021	0.000	0.019	0.113	0.005	0.041	0.000	0.000	0.019	GNM	0.152
May	0.033	0.696	0.120	0.000	0.020	0.869	0.005	0.696	0.000	0.000	0.020	GNM	0.144
June	0.032	0.065	0.150	0.000	0.019	0.267	0.005	0.065	0.000	0.000	0.019	GNM	0.151
July	0.033	0.068	0.143	0.000	0.020	0.264	0.005	0.068	0.000	0.000	0.020	GNM	0.169
August	0.033	0.061	0.087	0.000	0.020	0.201	0.005	0.061	0.000	0.000	0.020	GNM	0.185
September	0.032	0.045	0.079	0.000	0.019	0.176	0.005	0.045	0.000	0.000	0.019	GNM	0.192
October	0.033	0.032	0.026	0.000	0.020	0.111	0.005	0.032	0.000	0.000	0.020	GNM	0.195
November	0.032	0.018	0.000	0.000	0.019	0.069	0.005	0.018	0.000	0.000	0.019	GNM	0.192
December	0.033	0.014	0.000	0.000	0.020	0.067	0.005	0.014	0.000	0.000	0.020	GNM	0.187
TOTALS -->	0.392	1.092	0.626	0.000	0.234	2.344	0.059	1.092	0.501	0.000	0.234		2.075

Area A-4, Case No. 02CW77
Alluvial Well Type = Individual Glover
Well to be Drilled.
Roaring Fork River

		Assumptions			
(1)	NUMBER OF RESIDENCES	1	(5)	# of Livestock @ 11 gals/day	19
	# persons/residence	3.5	(7)	% CU for Domestic/Commercial	15
(2)	Commercial/Other Demand (af)	0.000	(9)	% Lawn Irrig. Efficiency	80
	Evaporation	0.12		Consumption of Irrig. (af/ac)	2.027
(3)	Includes Pond Fill from Well in May	0.642	(10)	% Crop Irrig. Efficiency	80
	Sq. Ft. of Lawn Irrigated	10,890		Consumption of Irrig. (af/ac)	0.000
	Lawn Application Rate (af/ac)	2.534	(9-10)	Elevation (feet)	6410
(4)	Acres of Crop Irrigated	0.00	*(12) Total Includes 5% Transit Loss 10% from Green Min.		
	Crop Application Rate (af/ac)	0.000			

**TABLE 1
EVAPORATION CALCULATION - Jaime Araujo**

Month	SEO Monthly Distribution	(1) Gross Lake Evaporation		(2) Average Precipitation		(3) Effective Precipitation		(4) Net Evaporation		(5) Total Pond Evaporation (acre-feet)
		(feet)	(inches)	(feet)	(inches)	(feet)	(inches)	(feet)	(inches)	
January	3.0%	0.11	1.35	0.10	1.20	0.00	0.00	0.11	1.35	0.014
February	3.5%	0.13	1.58	0.09	1.03	0.00	0.00	0.13	1.58	0.016
March	5.5%	0.21	2.48	0.10	1.20	0.00	0.00	0.21	2.48	0.025
April	9.0%	0.34	4.05	0.10	1.24	0.00	0.00	0.34	4.05	0.041
May	12.0%	0.45	5.40	0.11	1.32	0.00	0.00	0.45	5.40	0.054
June	14.5%	0.54	6.53	0.11	1.30	0.00	0.00	0.54	6.53	0.065
July	15.0%	0.56	6.75	0.13	1.59	0.00	0.00	0.56	6.75	0.068
August	13.5%	0.51	6.08	0.14	1.71	0.00	0.00	0.51	6.08	0.061
September	10.0%	0.38	4.50	0.14	1.64	0.00	0.00	0.38	4.50	0.045
October	7.0%	0.26	3.15	0.12	1.38	0.00	0.00	0.26	3.15	0.032
November	4.0%	0.15	1.80	0.10	1.23	0.00	0.00	0.15	1.80	0.018
December	3.0%	0.11	1.35	0.10	1.25	0.00	0.00	0.11	1.35	0.014
	100.0%	3.75	45.00	1.34	16.09	0.00	0.00	3.75	45.00	0.450

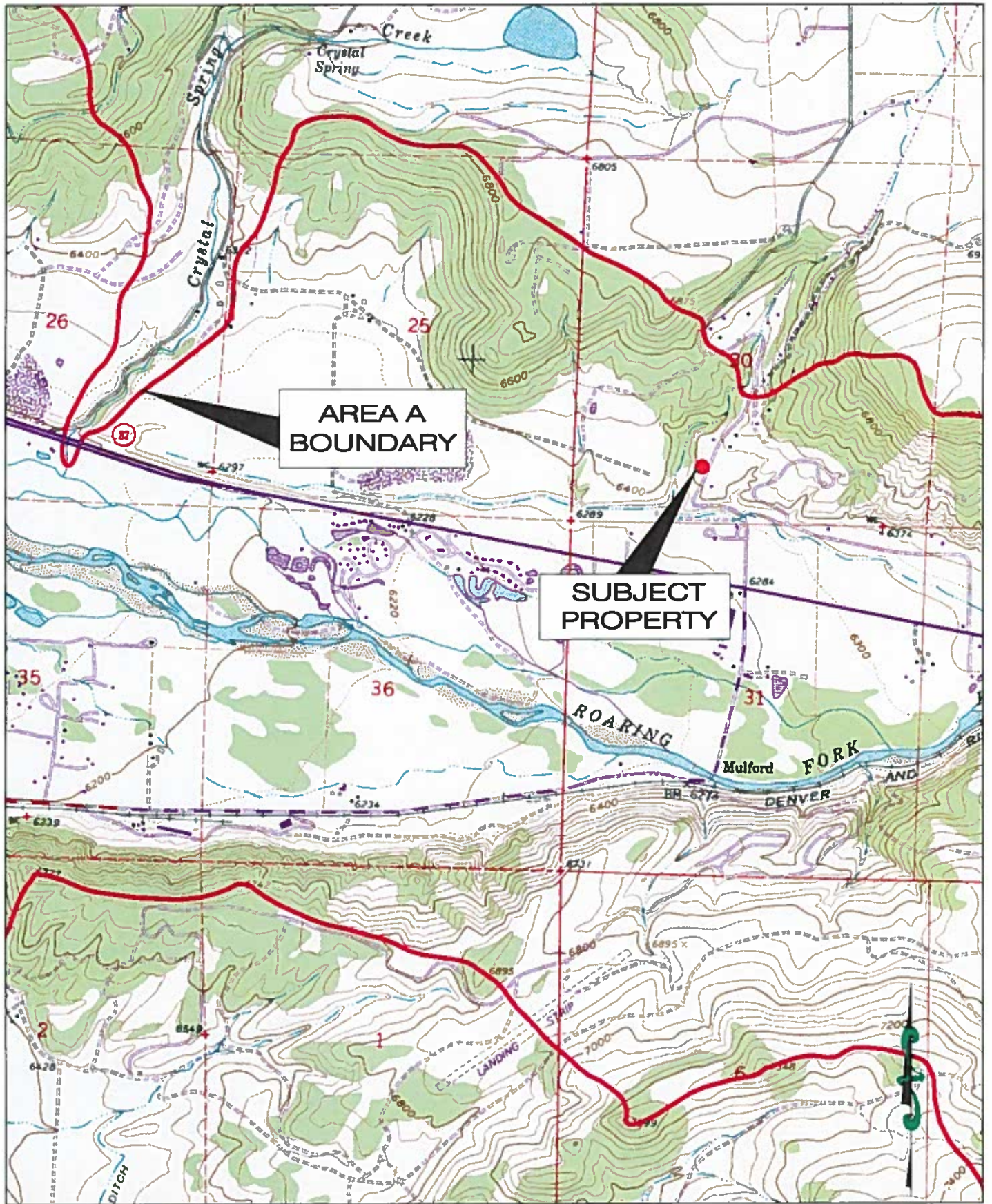
(1) = Monthly distribution of gross annual evaporation rate in accordance with SEO General Criteria <6500 feet.

(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) = Column (4) x Open Water Surface Area (0.120 acres) x Column (4) in feet.



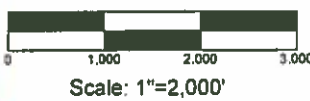
**AREA A
BOUNDARY**

**SUBJECT
PROPERTY**

Figure 1: Jaime Araujo

File: 033-7.2
Date: 04/29/18

Basalt Water Conservancy District - Contract 686 Amendment



**RESOURCE
ENGINEERING, INC.**

800 Colorado Avenue
Crestwood Springs, CO 81691
(970) 945-6777 Voice 945-1137 Facsimile

**APPLICATION TO AMEND WATER ALLOTMENT CONTRACT NO. 666
BASALT WATER CONSERVANCY DISTRICT**

1. Applicant(s) Contact Information

- a. Name: **Jaime Araujo**
- b. Mailing Address: **18 Kiowa
Carbondale, CO 81623**
- c. Street Address: **3911 Catherine Store Road
Carbondale, CO 81623**
- d. Telephone Numbers: **(970) 309-8653**
- e. Email Address: **jaimesservices@hotmail.com**
- f. If Applicant is represented by an Attorney, please provide the Attorney's contact information, including name, address, telephone, and email:

**Kevin Patrick, Esq.
229 Midland Ave.
Basalt, CO 81621
(970) 920-1028
patrick@waterlaw.com**
- g. Emergency Local Contact Information, including name, address, telephone, and email: **Same as above.**
- 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 above.**

- 2. Type of land use (development) proposed for water allotment contract (i.e. single family home, subdivision, gravel pit, etc.): **Single-family home.**
- 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 enclosed deed and map.**

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: Jaime's Well.

Type of Diversion: Well.

Legal Description: SE Quarter, SW Quarter, Section 30, Township 7S, Range 87W, of the 6th Principal Meridian, at a location 882 feet from the south section line and 1938 feet from the west section line.

UTM Coordinates (NAD 83):

Northing: 4364761.

Easting: 314486.

_____ Zone 12 / Zone 13.

If diversion point is a well, please provide the Well Permit No. 79818-F

Is the well operational/active? _____ Yes, No

At the time of this application, the well has not yet been drilled. Applicant intends to drill the well within the next month.

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

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

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 Fryingpan Rivers).

Note: Applicant is already covered by the District's Umbrella Plan for Augmentation under BWCD Contract No. 666.

_____ 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: NA. (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? See below.
10. What other uses of water occur on the property? This property is currently covered under Contract #42a and water is provided for domestic use via Blue Springs Well. Applicant intends to now provide water for domestic use in his single family home with Well Permit No. 79818-F, with the approval of this amended application.

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> 1 </u>
Duplex(s)	Number of Units: <u> </u>
Condominium(s)	Number of Units: <u> </u>
Apartment(s)	Number of Units/Rooms: <u> </u>
Mobile Home(s)	Number of Units: <u> </u>

Irrigation (lawns, parks, open space)

Total area to be irrigated Sq. Ft. or 0.25 Acres

Type of irrigation system (please check)

 X Sprinkler

 Flood (irrigation ditch)

Domestic stock watering (cattle, horses)

Number of animals: Applicant would like 2 cows, 2 horses, 8 goats, 28 waterfowl, and 30 chickens. We have contacted the DEO and which estimated that 88 chickens/waterfowl drink as much water as one cow.

Period of use (months): 12 months

Other domestic/municipal uses not listed: Replacement of evaporation depletions from a water feature with a surface area of 0.642 acre-feet.

VERIFICATION

STATE OF Colorado)
) ss.
COUNTY OF Eagle)

I, Jaime Araujo, 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 to Amend Water Allotment Contract No. 666;
- 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: 4-28-2016

By: [Signature]

Print Name: Jaime Araujo

Title: Owner

Subscribed and sworn before me this 28th day of April, 2016
by Jaime Araujo.

Witness my hand and seal.



[Signature]
Notary Public

My commission expires:
June 18, 2019