




Resource Engineering, Inc.  
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# Memorandum

**To:** BWCD BOARD OF DIRECTORS  
**From:** ERIC MANGEOT   
**CC:** CHRIS GEIGER  
**Date:** APRIL 1, 2021  
**File:** APPLICATION

**Applicant Name:** Nathaniel W. Oetter

**Type of Use:** Domestic   X   Commercial \_\_\_\_\_  
 Industrial \_\_\_\_\_ Agricultural \_\_\_\_\_

**Amount:**   0.8   AF   0.033   cfs   30   gpm

**Location:** Area A   A-4   Area B \_\_\_\_\_ Inclusion \_\_\_\_\_  
 County:   EAGLE   Contiguous: \_\_\_\_\_  
 BWCD Division:   3  

**Mid Valley Metro District Notice Required?** Yes \_\_\_\_\_ No   X  

**Blue Creek Water Rights Applied?** Yes   X   No   X  

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

This application is to cover depletions associated with two single family dwellings (or home and ADU), 12,000 square feet of irrigation, 2 horses, and a hot tub located on the Nathaniel W. Otter's (Applicant) property. Total contract depletions are 0.8 acre-feet (AF) as shown on the attached table.

The contract will be associated with Lot 9 of the Los Pinones Estates Lot 9. The overall property is 2.17 acres and is located at 127 Paseo Road, Carbondale, Colorado (Eagle County Parcel No. 2391-274-02-007). The property is in the SE1/4 of Section 27, Township 7 South, Range 87 West of the 6<sup>th</sup> P.M. The property is also within Division 3 of the District. A BWCD map is also attached showing the location of the property.

The source of supply for is an existing well (Permit No. 101333) located in the NW1/4 SE1/4 of Section 27 Township 7 South, Range 87 West, of the 6<sup>th</sup> P.M. at a point 2,040 feet from the South section line and 2,530 feet from the East section line (NAD83 Z13 UTM(x)=319652.0, UTM(y)=4364990.6).

Water User :	Nathaniel W. Oetter	
Analysis Date :	April 1, 2021	
District Area:	A-4	
Source Series:	4	
Maximum Demand:	15	0.033
	(GPM)	(CFS)

BASALT WATER CONSERVANCY DISTRICT  
WATER REQUIREMENTS  
(acre feet)

Month	Total Demand						Consumptive Use							(14) Source of Aug/Replace
	(1) Domestic In-house	(2) Pond Evaporation	(3) Domestic Irrigation	(4) Agriculture	(5) Livestock	(6) TOTAL	(7) Domestic In-house	(8) Pond Evaporation	(9) Domestic Irrigation	(10) Agriculture	(11) Livestock	*(12) TOTAL	*(13) Depletions	
January	0.067	0.000	0.000	0.000	0.002	<b>0.069</b>	0.010	0.000	0.000	0.000	0.002	0.013	<b>0.059</b>	GNM
February	0.060	0.000	0.000	0.000	0.002	<b>0.062</b>	0.009	0.000	0.000	0.000	0.002	0.012	<b>0.060</b>	GNM
March	0.067	0.000	0.000	0.000	0.002	<b>0.069</b>	0.010	0.000	0.000	0.000	0.002	0.014	<b>0.060</b>	GNM
April	0.064	0.000	0.009	0.000	0.002	<b>0.076</b>	0.010	0.000	0.007	0.000	0.002	0.021	<b>0.060</b>	GNM
May	0.067	0.001	0.122	0.000	0.002	<b>0.191</b>	0.010	0.001	0.097	0.000	0.002	0.121	<b>0.060</b>	GNM
June	0.064	0.001	0.160	0.000	0.002	<b>0.227</b>	0.010	0.001	0.128	0.000	0.002	0.155	<b>0.060</b>	GNM
July	0.067	0.001	0.149	0.000	0.002	<b>0.219</b>	0.010	0.001	0.120	0.000	0.002	0.146	<b>0.059</b>	GNM
August	0.067	0.001	0.088	0.000	0.002	<b>0.157</b>	0.010	0.001	0.070	0.000	0.002	0.092	<b>0.059</b>	GNM
September	0.064	0.001	0.081	0.000	0.002	<b>0.148</b>	0.010	0.001	0.065	0.000	0.002	0.085	<b>0.059</b>	GNM
October	0.067	0.000	0.019	0.000	0.002	<b>0.088</b>	0.010	0.000	0.015	0.000	0.002	0.030	<b>0.059</b>	GNM
November	0.064	0.000	0.000	0.000	0.002	<b>0.067</b>	0.010	0.000	0.000	0.000	0.002	0.013	<b>0.059</b>	GNM
December	0.067	0.000	0.000	0.000	0.002	<b>0.069</b>	0.010	0.000	0.000	0.000	0.002	0.013	<b>0.059</b>	GNM
TOTALS -->	0.784	0.005	0.628	0.000	0.025	<b>1.441</b>	0.118	0.005	0.502	0.000	0.025	0.714	<b>0.714</b>	

Assumptions						
(1)	NUMBER OF RESIDENCES	2		(5)	# of Livestock @ 11 gals/day	2
	# persons/residence	3.5				
	# gallons/person/day	100		(7)	% CU for Domestic/Commercial	15
(2)	Commercial/Other Demand (af)	0.000	Office	(9)	% Lawn Irrig. Efficiency	80
	Pond Evaporation	0.005	AF		Consumption of Irrig. (af/ac)	1.827
(3)	Sq. Ft. of Lawn Irrigated	12,000		(10)	% Crop Irrig. Efficiency	80
	Lawn Application Rate (af/ac)	2.283			Consumption of Irrig. (af/ac)	0.000
(4)	Acres of Crop Irrigated	0.00		(9-10)	Elevation (feet)	7140
	Crop Application Rate (af/ac)	0.000				

Area A-4  
Well Type E ; Permit No. 101333  
Blue Creek

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

**TABLE 1  
EVAPORATION CALCULATION - > 6,500 HOT TUB**

Month	SEO Monthly Distribution	(1) Gross Lake Evaporation		(2) Average Precipitation		(3) Effective Precipitation		(4) Net Evaporation		(5) Total Evaporation
		(feet)	(inches)	(feet)	(inches)	(feet)	(inches)	(feet)	(inches)	(acre-feet)
January	1.0%	0.04	0.43	0.08	0.96	0.00	0.00	0.04	0.43	0.000
February	3.0%	0.11	1.28	0.10	1.24	0.00	0.00	0.11	1.28	0.000
March	6.0%	0.21	2.55	0.11	1.30	0.00	0.00	0.21	2.55	0.000
April	9.0%	0.32	3.83	0.08	1.00	0.00	0.00	0.32	3.83	0.000
May	12.5%	0.44	5.31	0.10	1.18	0.00	0.00	0.44	5.31	0.001
June	15.5%	0.55	6.59	0.15	1.76	0.00	0.00	0.55	6.59	0.001
July	16.0%	0.57	6.80	0.13	1.57	0.00	0.00	0.57	6.80	0.001
August	13.0%	0.46	5.53	0.06	0.73	0.00	0.00	0.46	5.53	0.001
September	11.0%	0.39	4.68	0.12	1.41	0.00	0.00	0.39	4.68	0.001
October	7.5%	0.27	3.19	0.09	1.11	0.00	0.00	0.27	3.19	0.000
November	4.0%	0.14	1.70	0.09	1.04	0.00	0.00	0.14	1.70	0.000
December	1.5%	0.05	0.64	0.10	1.26	0.00	0.00	0.05	0.64	0.000
	<b>100.0%</b>	<b>3.54</b>	<b>42.50</b>	<b>1.21</b>	<b>14.56</b>	<b>0.00</b>	<b>0.00</b>	<b>3.54</b>	<b>42.50</b>	<b>0.005</b>

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

Surface Area =                      64 square feet  
   0.001 acres







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

1. Applicant(s) Contact Information

- a. Name: *Nathaniel Oetter*
- b. Mailing Address: *127 Paseo Rd  
Carbondale CO 81623*
- c. Street Address: *\\* *//*
- d. Telephone Numbers: *970-560-6058*
- e. Email Address: *nathan.oetter@gmail.com*
- f. If Applicant is represented by an Attorney, please provide the Attorney's contact information, including name, address, telephone, and email:  
*NA*
- g. Emergency Local Contact Information, including name, address, telephone, and email:  
*Ashley Oetter 970-404-5567*
- 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:

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)\*: *Same as mailing address, Los Pinones Estates Lot 9*

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 Otter well. current permit number 101333

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

Legal Description: NW Quarter, SE Quarter, Section 27, Township 7  
N / (S) Range 87 E / (W) of the 6<sup>th</sup> Principal Meridian, at a location  
2040 feet from the S Section line and 2530 feet  
from the E Section line.

UTM Coordinates (NAD 83):

Northing: 4364990.6

Easting: 319652.0

\_\_\_\_\_ Zone 12 / \_\_\_\_\_ Zone 13.

If diversion point is a well, please provide the Well Permit No. 101333.

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.

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).

\_\_\_\_ 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: pending. (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?

NA

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

NA





Please complete this page if you selected commercial use on Page 3, No. 8

COMMERCIAL WATER USES

In-House

Hotel: \_\_\_\_\_

Office(s), square footage: \_\_\_\_\_

Warehouse/distributor, square footage: \_\_\_\_\_

Retail, square footage: \_\_\_\_\_

Restaurant, number of seats: \_\_\_\_\_

Bar, number of seats: \_\_\_\_\_

Irrigation (lawns, parks, open space)

Total area to be irrigated \_\_\_\_\_ Sq. Ft. or \_\_\_\_\_ Acres

Type of irrigation system (please check)

\_\_\_\_\_ Sprinkler

\_\_\_\_\_ Flood (irrigation ditch)

Other Commercial Uses Not Listed:

Please complete this page if you selected industrial use on Page 3, No. 8

INDUSTRIAL WATER USES

Please describe your industrial development in some detail:

Irrigation (lawns, parks, open space)

Total area to be irrigated \_\_\_\_\_ Sq. Ft. or \_\_\_\_\_ Acres

Type of irrigation system (please check)

- \_\_\_\_\_ Sprinkler
- \_\_\_\_\_ Flood (irrigation ditch)

Please complete this page if you selected agricultural use on Page 3, No. 8.

AGRICULTURAL WATER USE

Irrigation

Type of crop(s) (pasture, alfalfa, beans, etc.) and irrigation system:

Crop: \_\_\_\_\_ Acres: \_\_\_\_\_ Sprinkler: \_\_\_\_\_ Flood: \_\_\_\_\_

Crop: \_\_\_\_\_ Acres: \_\_\_\_\_ Sprinkler: \_\_\_\_\_ Flood: \_\_\_\_\_

Crop: \_\_\_\_\_ Acres: \_\_\_\_\_ Sprinkler: \_\_\_\_\_ Flood: \_\_\_\_\_

Crop: \_\_\_\_\_ Acres: \_\_\_\_\_ Sprinkler: \_\_\_\_\_ Flood: \_\_\_\_\_

Stock Watering (cattle, horses)

Number of animals:

Months of use:

Other agricultural uses not listed:

