




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

To: BWCD BOARD OF DIRECTORS
From: ERIC MANGEOT 
CC: CHRIS GEIGER
Date: JUNE 29, 2021
File: AMENDMENT – CONTRACT 568

Applicant Name: The Emma Fields, LLC

Type of Use: Domestic Commercial (Split Use 02CW777 & Pending Aug. Plan)
 Industrial _____ Agricultural _____

Amount: 1.0 AF 0.033 cfs 15 gpm (Previous contract amount = 0.4 AF)

Location: Area A A-3 Area B _____ Inclusion _____
 County: PITKIN Contiguous: _____
 BWCD Division: 7

Mid Valley Metro District Notice Required? Yes _____ No

Blue Creek Water Rights Applied? Yes _____ No

02CW77 Umbrella Plan Water Rights Applied? Yes No _____ **Cost:** \$3,750 previously paid (\$2,000)

The Emma Fields, LLC is proposing a distillery in Pitkin County at the intersection of Hoaglund Ranch Road and State Highway 82. The distillery will consist of the distillery operations, three residential units, and about 2,500 square-feet of irrigated landscaping surrounding the facilities. An additional 6.35 acres of agricultural and landscaping area will be irrigated with water from the Kester Ditch (not included in contract). Wastewater from the distillery operations will be treated to water quality levels that allow for direct discharge to the Roaring Fork River. An on-site wastewater treatment facility will be used to treat effluent from the residential units and distillery sanitary facilities. Total contract depletions for the proposed facilities are 1.0 acre-feet (AF) as shown on the attached tables.

The contract will be considered split use for the domestic and commercial components of the contract. Furthermore, the contract will be split between the portion of the contract that will be covered under the District's 02CW77 Plan for Augmentation and a future private augmentation plan for the commercial bottling. A private plan for augmentation is required as the bottling portion of the contract does not adhere to BWCD Resolution 2017-3 as this use is considered 100 percent consumptive and is located within Area A-3 of the District.

The property is approximately 8 acres and is owned by The Emma Fields, LLC in Pitkin County (Parcel No. 246720100003). The parcel is in the NE1/4 of Section 20, Township 8 South, Range 86 West of the 6th P.M. The physical address of the property is 100 Hoaglund Ranch Road. The property is within the Division 7 boundary of the District. A BWCD map is also attached showing the location of the property.

The source of supply under the amended contract is an existing well (Permit No. 60572; 15 gpm): Located in the NE1/4 NE1/4 of Section 20, Township 8 South, Range 86 West, of the 6th P.M. at a point 887 feet from the North section line and 406 feet from the East section line (UTM NAD83 Z13 4357276 N, 326647 E).

| | | |
|-----------------|----------------------|-------|
| Water User : | The Emma Fields, LLC | |
| Analysis Date : | June 29, 2021 | |
| District Area: | A-3 | |
| Source Series: | 4 | |
| Maximum Demand: | 15.0 | 0.033 |
| | (GPM) | (CFS) |

BASALT WATER CONSERVANCY DISTRICT
WATER REQUIREMENTS

(acre feet)

Contact 568 Amendment - Overall Contract

| Month | Total Demand | | | | | | Consumptive Use | | | | | | (13)* Delayed Depletions | (14) Source of Aug/Replace |
|------------|-----------------------------|-----------------------------|---------------------------|-------------------------------|------------------|--------------|-----------------------------|-----------------------------|---------------------------|--------------------------------|-------------------|----------------|--------------------------------|----------------------------------|
| | (1) Domestic In-house | (2) Commercial /Other | (3) Lawn Irrigation | (4) Commercial Bottling | (5) Livestock | (6) TOTAL | (7) Domestic In-house | (8) Commercial /Other | (9) Lawn Irrigation | (10) Commercial Bottling | (11) Livestock | (12)* TOTAL | | |
| January | 0.100 | 0.146 | 0.000 | 0.014 | 0.000 | 0.259 | 0.015 | 0.029 | 0.000 | 0.014 | 0.000 | 0.064 | 0.057 | GNM |
| February | 0.090 | 0.132 | 0.000 | 0.012 | 0.000 | 0.234 | 0.014 | 0.026 | 0.000 | 0.012 | 0.000 | 0.058 | 0.056 | GNM |
| March | 0.100 | 0.146 | 0.000 | 0.014 | 0.000 | 0.259 | 0.015 | 0.029 | 0.000 | 0.014 | 0.000 | 0.064 | 0.057 | GNM |
| April | 0.097 | 0.141 | 0.008 | 0.013 | 0.000 | 0.259 | 0.014 | 0.028 | 0.006 | 0.013 | 0.000 | 0.069 | 0.061 | GNM |
| May | 0.100 | 0.146 | 0.026 | 0.014 | 0.000 | 0.285 | 0.015 | 0.029 | 0.021 | 0.014 | 0.000 | 0.087 | 0.095 | GNM |
| June | 0.097 | 0.141 | 0.041 | 0.013 | 0.000 | 0.292 | 0.014 | 0.028 | 0.033 | 0.013 | 0.000 | 0.099 | 0.114 | GNM |
| July | 0.100 | 0.146 | 0.046 | 0.014 | 0.000 | 0.305 | 0.015 | 0.029 | 0.037 | 0.014 | 0.000 | 0.105 | 0.113 | GNM |
| August | 0.100 | 0.146 | 0.037 | 0.014 | 0.000 | 0.296 | 0.015 | 0.029 | 0.030 | 0.014 | 0.000 | 0.097 | 0.095 | GNM |
| September | 0.097 | 0.141 | 0.023 | 0.013 | 0.000 | 0.274 | 0.014 | 0.028 | 0.018 | 0.013 | 0.000 | 0.082 | 0.089 | GNM |
| October | 0.100 | 0.146 | 0.006 | 0.014 | 0.000 | 0.265 | 0.015 | 0.029 | 0.005 | 0.014 | 0.000 | 0.070 | 0.067 | GNM |
| November | 0.097 | 0.141 | 0.000 | 0.013 | 0.000 | 0.251 | 0.014 | 0.028 | 0.000 | 0.013 | 0.000 | 0.062 | 0.058 | GNM |
| December | 0.100 | 0.146 | 0.000 | 0.014 | 0.000 | 0.259 | 0.015 | 0.029 | 0.000 | 0.014 | 0.000 | 0.064 | 0.057 | GNM |
| TOTALS --> | 1.176 | 1.715 | 0.187 | 0.160 | 0.000 | 3.238 | 0.176 | 0.343 | 0.150 | 0.160 | 0.000 | 0.922 | 0.922 | |

| Assumptions | | | | | |
|-------------|--|----------------|--------|---|-------------|
| (1) | NUMBER OF RESIDENCES | 3 | (5) | # of Livestock @ 11 gals/day | 0 |
| | # persons/residence | 3.5 | | % CU for Domestic | 15 |
| | # gallons/person/day | 100 | (7) | % CU for Commercial | 20 |
| (2) | Commercial Use See Attached Tables | 1.715 AF | (9) | % Lawn Irrig. Efficiency Consumption of Irrig. (af/ac) | 80 2.080 |
| (3) | Sq. Ft. of Lawn Irrigated Lawn Application Rate (af/ac) | 2,500 2.600 | (10) | % Crop Irrig. Efficiency Consumption of Irrig. (af/ac) | 50 1.972 |
| (4) | Commercial Bottling 100% Consumptive | 0.160 | (9-10) | Elevation (feet) | 6611 |

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

| | | |
|-----------------|----------------------|-------|
| Water User : | The Emma Fields, LLC | |
| Analysis Date : | June 29, 2021 | |
| District Area: | A-3 | |
| Source Series: | 4 | |
| Maximum Demand: | 15.0 | 0.033 |
| | (GPM) | (CFS) |

BASALT WATER CONSERVANCY DISTRICT
WATER REQUIREMENTS
 (acre feet)
Contact 568 Amendment - 02CW77

| Month | Total Demand | | | | | | Consumptive Use | | | | | | (13)* Delayed Depletions | (14) Source of Aug/Replace |
|----------------------|--------------------------|--------------------------|------------------------|------------------------|------------------|--------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------|----------------|-----------------------------|-------------------------------|
| | (1) Domestic In-house | (2) Commercial /Other | (3) Lawn Irrigation | (4) Crop Irrigation | (5) Livestock | (6) TOTAL | (7) Domestic In-house | (8) Commercial /Other | (9) Lawn Irrigation | (10) Crop Irrigation | (11) Livestock | (12)* TOTAL | | |
| January | 0.100 | 0.146 | 0.000 | 0.000 | 0.000 | 0.246 | 0.015 | 0.029 | 0.000 | 0.000 | 0.000 | 0.049 | 0.042 | GNM |
| February | 0.090 | 0.132 | 0.000 | 0.000 | 0.000 | 0.222 | 0.014 | 0.026 | 0.000 | 0.000 | 0.000 | 0.044 | 0.042 | GNM |
| March | 0.100 | 0.146 | 0.000 | 0.000 | 0.000 | 0.246 | 0.015 | 0.029 | 0.000 | 0.000 | 0.000 | 0.049 | 0.042 | GNM |
| April | 0.097 | 0.141 | 0.008 | 0.000 | 0.000 | 0.246 | 0.014 | 0.028 | 0.006 | 0.000 | 0.000 | 0.054 | 0.046 | GNM |
| May | 0.100 | 0.146 | 0.026 | 0.000 | 0.000 | 0.272 | 0.015 | 0.029 | 0.021 | 0.000 | 0.000 | 0.072 | 0.080 | GNM |
| June | 0.097 | 0.141 | 0.041 | 0.000 | 0.000 | 0.279 | 0.014 | 0.028 | 0.033 | 0.000 | 0.000 | 0.084 | 0.100 | GNM |
| July | 0.100 | 0.146 | 0.046 | 0.000 | 0.000 | 0.292 | 0.015 | 0.029 | 0.037 | 0.000 | 0.000 | 0.090 | 0.098 | GNM |
| August | 0.100 | 0.146 | 0.037 | 0.000 | 0.000 | 0.283 | 0.015 | 0.029 | 0.030 | 0.000 | 0.000 | 0.082 | 0.080 | GNM |
| September | 0.097 | 0.141 | 0.023 | 0.000 | 0.000 | 0.261 | 0.014 | 0.028 | 0.018 | 0.000 | 0.000 | 0.067 | 0.074 | GNM |
| October | 0.100 | 0.146 | 0.006 | 0.000 | 0.000 | 0.252 | 0.015 | 0.029 | 0.005 | 0.000 | 0.000 | 0.055 | 0.052 | GNM |
| November | 0.097 | 0.141 | 0.000 | 0.000 | 0.000 | 0.238 | 0.014 | 0.028 | 0.000 | 0.000 | 0.000 | 0.047 | 0.043 | GNM |
| December | 0.100 | 0.146 | 0.000 | 0.000 | 0.000 | 0.246 | 0.015 | 0.029 | 0.000 | 0.000 | 0.000 | 0.049 | 0.042 | GNM |
| TOTALS --> | 1.176 | 1.715 | 0.187 | 0.000 | 0.000 | 3.078 | 0.176 | 0.343 | 0.150 | 0.000 | 0.000 | 0.744 | 0.744 | |

| | | | | | |
|-------------|--|----------------|--------|---|-------------|
| 0.149219467 | | | | | |
| Assumptions | | | | | |
| (1) | NUMBER OF RESIDENCES | 3 | (5) | # of Livestock @ 11 gals/day | 0 |
| | # persons/residence | 3.5 | (7) | % CU for Domestic | 15 |
| | # gallons/person/day | 100 | | % CU for Commercial | 20 |
| (2) | Commercial Use See Attached Tables | 1.715 AF | (9) | % Lawn Irrig. Efficiency Consumption of Irrig. (af/ac) | 80 2.080 |
| (3) | Sq. Ft. of Lawn Irrigated Lawn Application Rate (af/ac) | 2,500 2.600 | (10) | % Crop Irrig. Efficiency Consumption of Irrig. (af/ac) | 50 0.000 |
| (4) | Acres of Crop Irrigated Crop Application Rate (af/ac) | 0.00 0.000 | (9-10) | Elevation (feet) | 6611 |

Area A-3
Well (Permit No. 60572)
Roaring Fork River
Well Type A

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

| | | |
|-----------------|----------------------|-------|
| Water User : | The Emma Fields, LLC | |
| Analysis Date : | June 29, 2021 | |
| District Area: | A | |
| Source Series: | 4 | |
| Maximum Demand: | 15.0 | 0.033 |
| | (GPM) | (CFS) |

BASALT WATER CONSERVANCY DISTRICT
WATER REQUIREMENTS
(acre feet)

Contact 568 Amendment - Private Augmentation Plan

| Month | Total Demand | | | | | | Consumptive Use | | | | | | (13)* Delayed Depletions | (14) Source of Aug/Replace |
|------------|--------------------------|--------------------------|------------------------|------------------------|------------------|--------------|--------------------------|--------------------------|------------------------|-------------------------|-------------------|----------------|-----------------------------|-------------------------------|
| | (1) Domestic In-house | (2) Commercial /Other | (3) Lawn Irrigation | (4) Crop Irrigation | (5) Livestock | (6) TOTAL | (7) Domestic In-house | (8) Commercial /Other | (9) Lawn Irrigation | (10) Crop Irrigation | (11) Livestock | (12)* TOTAL | | |
| January | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.014 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 | GNM |
| February | 0.000 | 0.012 | 0.000 | 0.000 | 0.000 | 0.012 | 0.000 | 0.012 | 0.000 | 0.000 | 0.000 | 0.014 | 0.014 | GNM |
| March | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.014 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 | GNM |
| April | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 | GNM |
| May | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.014 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 | GNM |
| June | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 | GNM |
| July | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.014 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 | GNM |
| August | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.014 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 | GNM |
| September | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 | GNM |
| October | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.014 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 | GNM |
| November | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.013 | 0.000 | 0.013 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 | GNM |
| December | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.014 | 0.000 | 0.014 | 0.000 | 0.000 | 0.000 | 0.015 | 0.015 | GNM |
| TOTALS --> | 0.000 | 0.160 | 0.000 | 0.000 | 0.000 | 0.160 | 0.000 | 0.160 | 0.000 | 0.000 | 0.000 | 0.178 | 0.178 | |

| | | | | | |
|-------------|--|---------------|--------|---|-------------|
| 0.149219467 | | | | | |
| Assumptions | | | | | |
| (1) | NUMBER OF RESIDENCES | 0 | (5) | # of Livestock @ 11 gals/day | 0 |
| | # persons/residence | 3.5 | (7) | % CU for Domestic | 15 |
| | # gallons/person/day | 100 | | % CU for Commercial | 100 |
| (2) | Commercial Use See Attached Tables | 0.160 AF | (9) | % Lawn Irrig. Efficiency Consumption of Irrig. (af/ac) | 80 2.080 |
| (3) | Sq. Ft. of Lawn Irrigated Lawn Application Rate (af/ac) | 0 2.600 | (10) | % Crop Irrig. Efficiency Consumption of Irrig. (af/ac) | 50 0.000 |
| (4) | Acres of Crop Irrigated Crop Application Rate (af/ac) | 0.00 0.000 | (9-10) | Elevation (feet) | 6611 |

Area A-3
Well (Permit No. 60572)
Roaring Fork River
Uniform Depletion Rate

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

**Basalt Water Conservancy District
Water Requirements - Distillery, Irrigation, and Residential Uses without Bottling Water**

| | | |
|----------------|------------------------|-----------|
| Water User | Emma Fields Distillery | |
| Analysis Date | 18-Jun-21 | |
| District Area | A | |
| Source Series | 4 | |
| Maximum Demand | 2 gpm | 0.005 cfs |

(all values in acre-feet)

| Month | (1) Total Demand | | | | | | (9) Consumptive Use | | | | | | (13) Reservoir Release Total |
|--------------|-----------------------|-------------------------|---------------------|---------------------|---------------|--------------|-----------------------|--------------------------|----------------------|----------------------|----------------|-------------|------------------------------|
| | (2) Domestic In-House | (3) Commercial or Other | (4) Lawn Irrigation | (5) Crop Irrigation | (6) Livestock | (7) Total | (8) Domestic In-House | (10) Commercial or Other | (11) Lawn Irrigation | (12) Crop Irrigation | (12) Livestock | (12) Total | |
| | January | 0.100 | 0.146 | 0.000 | 0.00 | 0.000 | 0.246 | 0.01 | 0.03 | 0.00 | 0.00 | 0.000 | |
| February | 0.090 | 0.132 | 0.000 | 0.00 | 0.000 | 0.222 | 0.01 | 0.03 | 0.00 | 0.00 | 0.000 | 0.04 | 0.043 |
| March | 0.100 | 0.146 | 0.000 | 0.00 | 0.000 | 0.246 | 0.01 | 0.03 | 0.00 | 0.00 | 0.000 | 0.04 | 0.048 |
| April | 0.097 | 0.141 | 0.008 | 0.00 | 0.000 | 0.246 | 0.01 | 0.03 | 0.01 | 0.00 | 0.000 | 0.05 | 0.053 |
| May | 0.100 | 0.146 | 0.026 | 0.00 | 0.000 | 0.272 | 0.01 | 0.03 | 0.02 | 0.00 | 0.000 | 0.06 | 0.071 |
| June | 0.097 | 0.141 | 0.041 | 0.00 | 0.000 | 0.278 | 0.01 | 0.03 | 0.03 | 0.00 | 0.000 | 0.07 | 0.082 |
| July | 0.100 | 0.146 | 0.046 | 0.00 | 0.000 | 0.291 | 0.01 | 0.03 | 0.04 | 0.00 | 0.000 | 0.08 | 0.088 |
| August | 0.100 | 0.146 | 0.037 | 0.00 | 0.000 | 0.282 | 0.01 | 0.03 | 0.03 | 0.00 | 0.000 | 0.07 | 0.080 |
| September | 0.097 | 0.141 | 0.023 | 0.00 | 0.000 | 0.260 | 0.01 | 0.03 | 0.02 | 0.00 | 0.000 | 0.06 | 0.066 |
| October | 0.100 | 0.146 | 0.006 | 0.00 | 0.000 | 0.252 | 0.01 | 0.03 | 0.01 | 0.00 | 0.000 | 0.05 | 0.053 |
| November | 0.097 | 0.141 | 0.000 | 0.00 | 0.000 | 0.238 | 0.01 | 0.03 | 0.00 | 0.00 | 0.000 | 0.04 | 0.046 |
| December | 0.100 | 0.146 | 0.000 | 0.00 | 0.000 | 0.246 | 0.01 | 0.03 | 0.00 | 0.00 | 0.000 | 0.04 | 0.048 |
| Total | 1.176 | 1.715 | 0.186 | 0.00 | 0.00 | 3.077 | 0.176 | 0.335 | 0.149 | 0.00 | 0.00 | 0.66 | 0.726 |

Assumptions

| | | | |
|---|-----------------------|----------------------------|--------|
| Number of EQR's | 3 | Number of Livestock | 0 |
| Person per EQR's | 3.5 | Gallons per day per animal | 11 |
| Gallons per Day per Person | 100 | Commercial CU Rate | 20.0% |
| Industrial/Other Demand | | Domestic CU Rate | 15% |
| Distillery | 1.556 <i>af/yr</i> | Bottling Water CU Rate | 100.0% |
| Distillery Bottling Water | 0.000 <i>af/yr</i> | Lawn Efficiency Rate | 80% |
| Distillery Employees | 0.16 <i>af/yr</i> | Crop Efficiency Rate | 50% |
| Total Industrial Demand | 1.71 <i>af/yr</i> | Elevation (feet) | 6611 |
| Sq. Ft of Lawn Irrigated | 2500 <i>sqft</i> | | |
| Lawn Application Rate | 2.60 <i>af per ac</i> | | |
| <i>application rate assumed to be 80%</i> | | | |
| Acres of Crop Irrigated | 0 <i>ac</i> | | |
| Crop Application Rate | 2.62 <i>af per ac</i> | | |
| <i>application rate assumed to be 80%</i> | | | |

| | |
|--------------------------------|-----|
| Green Mtn Release Transit Loss | 10% |
| Ruedi Reservoir Transit Loss | 5% |

- (1) Equals Number of EQR's times Persons per EQR Gallon per Day per Person times Number of Days in the month.
- (2) Equals Total Industrial Demand divided by 365 times Number of Days in the month.
- (3) Equals Sq. Ft of Lawn Area divided by 43560 times calculated CIR divided by Application Rate
- (4) Equals Acres of Crop Irrigated Area divided by 43560 times calculated CIR divided by Application Rate
- (5) Equals Number of Livestock times Gallons per day per animal times Number of Days in the month.
- (6) Equals the sum of Columns (1-5)
- (7) Equals Column (1) times Domestic CU Rate
- (8) Equals Distillery Demand times Commercial CU Rate plus Bottling Water Demand times Botting Water CU Rate plus the Distillery Employees Demand times the Domestic CU rate
- (9) Equals Column (3) times Lawn Efficiency Rate.
- (10) Equals Column (4) times Crop Efficiency Rate.
- (11) Equals Column (5).
- (12) Equals the sum of Columns (7-11)
- (13) Equals Column (12) plus Column (12) times presented transit loss.

Distillery Industrial Demand based on 975 gallons per cycle, 2 cycles per day, and 260 days of operations.

Distillery Bottling Water based on 100 gallons per cycle, 2 cycles per day, and 260 days of operations.

Distillery Employee Demand based upon 20 gpd per employee and 10 employees.

Crop Demands assumed to be covered by Kester Ditch water rights.

All releases assume to come from Green Mtn Reservoir

**Basalt Water Conservancy District
Water Requirements - Distillery Bottling Water Only**

| | | |
|----------------|------------------------|-----------|
| Water User | Emma Fields Distillery | |
| Analysis Date | 18-Jun-21 | |
| District Area | A | |
| Source Series | 4 | |
| Maximum Demand | 0 gpm | 0.000 cfs |

(all values in acre-feet)

| Month | Total Demand | | | | | | Consumptive Use | | | | | | Reservoir Release Total |
|--------------|--------------------------|----------------------------|------------------------|------------------------|------------------|--------------|--------------------------|----------------------------|------------------------|-------------------------|-------------------|---------------|-------------------------|
| | (1) Domestic In-House | (2) Commercial or Other | (3) Lawn Irrigation | (4) Crop Irrigation | (5) Livestock | (6) Total | (7) Domestic In-House | (8) Commercial or Other | (9) Lawn Irrigation | (10) Crop Irrigation | (11) Livestock | (12) Total | |
| January | 0.000 | 0.014 | 0.000 | 0.00 | 0.000 | 0.014 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.015 |
| February | 0.000 | 0.012 | 0.000 | 0.00 | 0.000 | 0.012 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.014 |
| March | 0.000 | 0.014 | 0.000 | 0.00 | 0.000 | 0.014 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.015 |
| April | 0.000 | 0.013 | 0.000 | 0.00 | 0.000 | 0.013 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.014 |
| May | 0.000 | 0.014 | 0.000 | 0.00 | 0.000 | 0.014 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.015 |
| June | 0.000 | 0.013 | 0.000 | 0.00 | 0.000 | 0.013 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.014 |
| July | 0.000 | 0.014 | 0.000 | 0.00 | 0.000 | 0.014 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.015 |
| August | 0.000 | 0.014 | 0.000 | 0.00 | 0.000 | 0.014 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.015 |
| September | 0.000 | 0.013 | 0.000 | 0.00 | 0.000 | 0.013 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.014 |
| October | 0.000 | 0.014 | 0.000 | 0.00 | 0.000 | 0.014 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.015 |
| November | 0.000 | 0.013 | 0.000 | 0.00 | 0.000 | 0.013 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.014 |
| December | 0.000 | 0.014 | 0.000 | 0.00 | 0.000 | 0.014 | 0.00 | 0.01 | 0.00 | 0.00 | 0.000 | 0.01 | 0.015 |
| Total | 0.000 | 0.160 | 0.000 | 0.00 | 0.00 | 0.160 | 0.000 | 0.160 | 0.000 | 0.00 | 0.00 | 0.16 | 0.176 |

Assumptions

| | | | |
|---|-----------------------|----------------------------|--------|
| Number of EQR's | 0 | Number of Livestock | 0 |
| Person per EQR's | 3.5 | Gallons per day per animal | 11 |
| Gallons per Day per Person | 100 | Commercial CU Rate | 20.0% |
| Industrial/Other Demand | | Domestic CU Rate | 15% |
| Distillery | 0.000 <i>af/yr</i> | Bottling Water CU Rate | 100.0% |
| Distillery Bottling Water | 0.160 <i>af/yr</i> | Lawn Efficiency Rate | 80% |
| Distillery Employees | 0.00 <i>af/yr</i> | Crop Efficiency Rate | 50% |
| Total Industrial Demand | 0.16 <i>af/yr</i> | Elevation (feet) | 6611 |
| Sq. Ft of Lawn Irrigated | 0 <i>sqft</i> | | |
| Lawn Application Rate | 2.60 <i>af per ac</i> | | |
| <i>application rate assumed to be 80%</i> | | | |
| Acres of Crop Irrigated | 0 <i>ac</i> | | |
| Crop Application Rate | 2.62 <i>af per ac</i> | | |
| <i>application rate assumed to be 80%</i> | | | |

| | |
|--------------------------------|-----|
| Green Mtn Release Transit Loss | 10% |
| Ruedi Reservoir Transit Loss | 5% |

- (1) Equals Number of EQR's times Persons per EQR Gallon per Day per Person times Number of Days in the month.
- (2) Equals Total Industrial Demand divided by 365 times Number of Days in the month.
- (3) Equals Sq. Ft of Lawn Area divided by 43560 times calculated CIR divided by Application Rate
- (4) Equals Acres of Crop Irrigated Area divided by 43560 times calculated CIR divided by Application Rate
- (5) Equals Number of Livestock times Gallons per day per animal times Number of Days in the month.
- (6) Equals the sum of Columns (1-5)
- (7) Equals Column (1) times Domestic CU Rate
- (8) Equals Distillery Demand times Commercial CU Rate plus Bottling Water Demand times Botting Water CU Rate plus the Distillery Employees Demand times the Domestic CU rate
- (9) Equals Column (3) times Lawn Efficiency Rate.
- (10) Equals Column (4) times Crop Efficiency Rate.
- (11) Equals Column (5).
- (12) Equals the sum of Columns (7-11)
- (13) Equals Column (12) plus Column (12) times presented transit loss.

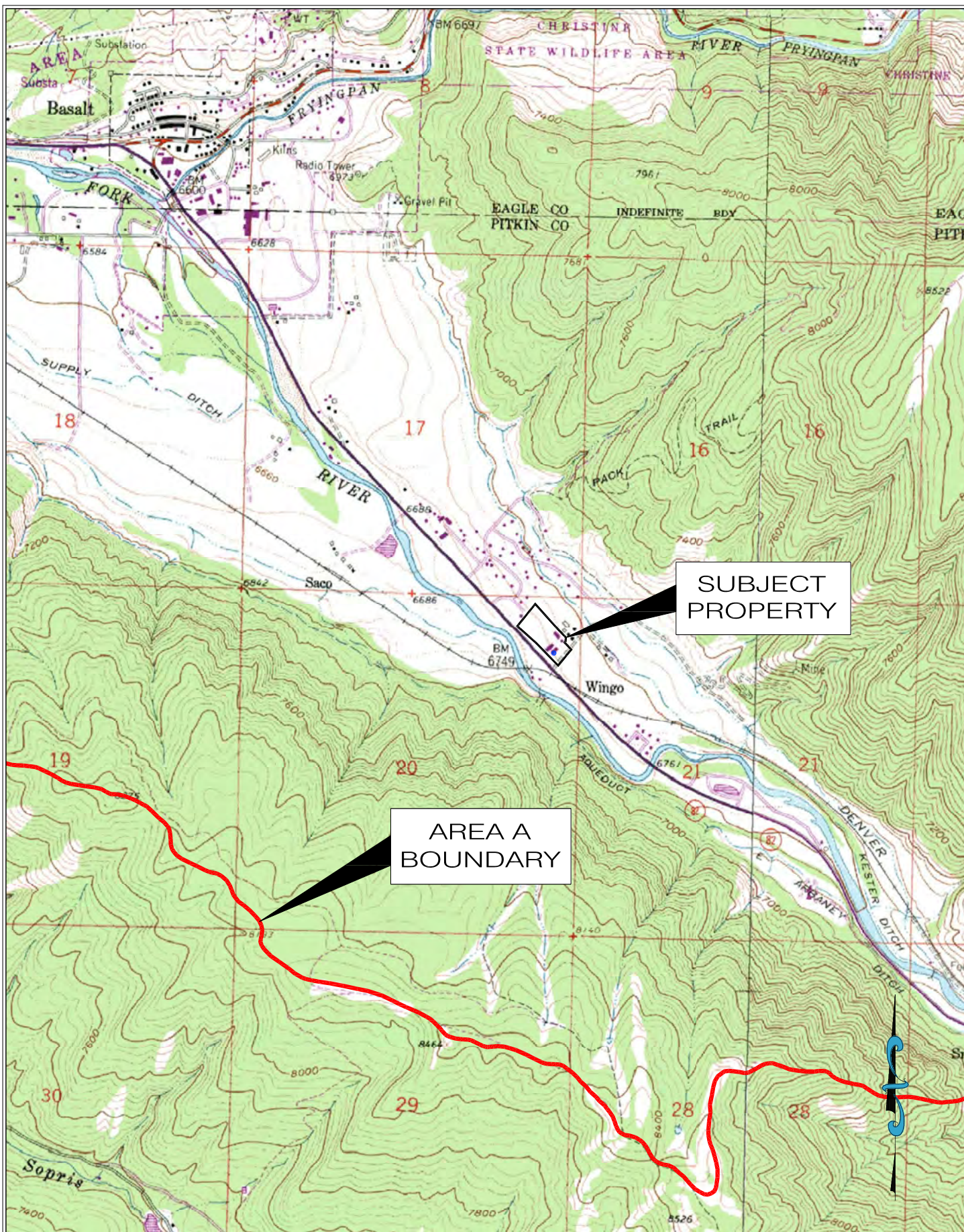
Distillery Industrial Demand based on 975 gallons per cycle, 2 cycles per day, and 260 days of operations.

Distillery Bottling Water based on 100 gallons per cycle, 2 cycles per day, and 260 days of operations.

Distillery Employee Demand based upon 20 gpd per employee and 10 employees.

Crop Demands assumed to be covered by Kester Ditch water rights.

All releases assume to come from Green Mtn Reservoir



SUBJECT PROPERTY

AREA A BOUNDARY

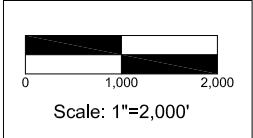


Figure 1: The Emma Fields, LLC
 Water Allotment Contract Amendment (Contract 568)
 Basalt Water Conservancy District

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

** Please note this is an application to amend existing Contract No. 568 to increase the amount of storage water allotted thereunder to a total of 0.902 acre-feet (flow rate to be determined) from 0.067 c.f.s. and 0.4 acre-feet due to a change in use of the well located on Applicant's property and operated pursuant to Well Permit 60572 (which will be amended after approval of this amendment). Revised tables of uses, diversions and depletions is attached hereto.

1. Applicant(s) Contact Information

a. Name: The Emma Fields, LLC

b. Mailing Address:

Attn: Matt Patel
42 Pinehurst Place
Springboro, OH 45066

c. Street Address:

100 Hoaglund Ranch Road
Basalt, CO 81621

d. Telephone Numbers:

(937) 416-0956

e. Email Address:

Matpat775@gmail.com

f. If Applicant is represented by an Attorney, please provide the Attorney's contact information, including name, address, telephone, and email:

Mary Elizabeth Geiger
Garfield & Hecht, PC
901 Grand Ave., Suite 201
Glenwood Springs, CO 81601
(970) 452-9047
megeiger@garfieldhecht.com

- g. Emergency Local Contact Information, including name, address, telephone, and email:

Ryan Ivy
2579 CR 115
Glenwood Springs, CO 81601
(262) 771-2055
(970) 618-1422
Ryanivy6@gmail.com

Also: Dawnette Smith
Dawnette.smith@gmail.com
(970) 618-1422

- 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:

Ryan Ivy
2579 CR 115
Glenwood Springs, CO 81601
(262) 771-2055
(970) 618-1422
Ryanivy6@gmail.com

Also: Dawnette Smith
Dawnette.smith@gmail.com
(970) 618-1422

2. Type of land use (development) proposed for water allotment contract (i.e. single family home, subdivision, gravel pit, etc.):

Operation of a distillery and associated buildings; domestic use inside three single family dwellings; minimal lawn and garden irrigation; crop production (irrigation water supplied by the Kester Ditch), all pursuant to the approvals set forth in Pitkin County BOCC Resolution 35-2021, attached hereto.

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)*: This is an amendment to an existing contract; vesting deed to The Emma Fields is attached.

Address: 100 Hoaglund Ranch Road, Basalt, CO 81621

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):

Well Permit No. 60572.

Type of Diversion: Well

Legal Description: NE Quarter, NE Quarter, Section 20, Township 8 S, Range 86 W, of the 6th Principal Meridian, at a location 903 feet from the North Section line and 381 feet from the East Section line.

This is per the Correction of Well Location document that has been filed with the Division of Water Resources and is attached hereto.

UTM Coordinates (NAD 83):

Northing: 4357276.

Easting: 326647.

Zone 13.

If diversion point is a well, please provide the Well Permit No. 60572.

Is the well operational/active? Yes

Is there currently an operating well meter? Yes (same as above), No

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

6. Legal Water Supply: (please check one)

This Contract is currently operated under 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 has its own plan for augmentation by applying to the Water Court, Water Division 5 within 2 years of this application. **This will be solely for the water that is 100% consumptive as it goes into the product of the distillery; this information is provided on a separate table attached hereto.

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

Tap to central waste water treatment facility

Septic tank/leachfield system

Evapotranspiration system

Other: The distillery operation will have its own closed wastewater system on site.

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.

X Sprinkler

 Flood (irrigation ditch)

Domestic stock watering (cattle, horses)

Number of animals: 0

Period of use (months):

Other domestic/municipal uses not listed:

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

COMMERCIAL WATER USES

In-House

Hotel: _____

Office(s), square footage: 3,000 sq. ft. _____

Warehouse/distributor, square footage: 4,000 sq. ft.

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:

Distillery: usage in production of distilled spirits but not consumed in the product itself

Distillery Product: bottled distilled spirits removed off-site (100% consumptive)

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: See above for Distillery, we were not sure whether to classify as commercial or industrial.

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:


VERIFICATION

STATE OF Colorado)
) ss.
COUNTY OF Denver)

I, Alan J. Leak, P.E., water rights engineer for Applicant (name of Applicant or Applicant's duly authorized representative), being first duly sworn, upon oath, depose and state as follows:

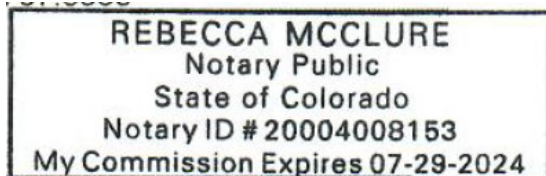
- 1) I am the Applicant or a duly authorized officer, manager, agent or attorney-in-fact for the Applicant for this Application for Water Allotment Contract;
- 2) I have read and know the contents of this Application;
- 3) The information contained herein is an accurate and complete description of the 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: June 28, 2021

By: 
Print Name: Alan J. Leak, P.E.
Title: Principal

Subscribed and sworn before me this 28th__ day of June __, 2021__ by Alan J. Leak

Witness my hand and seal.




Notary Public
My commission expires: June 29, 2024