



# **WATER RESOURCES REPORT — HOMESTEAD NORTH AT STERLING RANCH FILING 3 PRELIMINARY PLAN**

## **TOPICAL REPORT RSI-3232 B**



### **PREPARED BY**

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### **RESPEC**

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### **PREPARED FOR**

Falcon Area Water and Wastewater Authority

**OCTOBER 2022**

Project Number W0242.22001



## EXECUTIVE SUMMARY

This report is a submittal for Homestead North at Sterling Ranch Filing #3 Preliminary Plan, also known as parcel 12 in the Sterling Ranch overall planning map. The land is to be provided central water and sewer services through the Falcon Area Water and Wastewater Authority (FAWWA), which will become the overall service entity for, not only the Sterling Ranch Metropolitan District, but also the Retreat and the future Ranch.

It is expected that an urban residential home in Sterling Ranch will require an average of 0.353 annual acre-feet, which is the adopted user characteristic for FAWWA. This is consistent with historic needs for nearby developments. Note that for the very small high-density lots, FAWWA has adopted an SFE equivalency ratio to account for substantially reduced water needs, although this is partially offset by estimation of common area irrigation needs.

Homestead North at Sterling Ranch Filing #3 Preliminary Plan includes 77 single family lots which fall into high-density development ratios for small lots, and roughly 5.65 acres of irrigated landscaping. **The resulting water demand is 41.31 acre-feet.**

**Appendix F is an accounting of active water commitments, which total 877.21 acre-feet including all subdivisions committed through October 31, 2022.**

**A major addition in this report is the addition of substantial supplies of water through the McCune ( BD-1689, BD-1690, BD-1691), Bar-X (85CW-445 and 93 CW-018), and Shamrock West (85 CW 131) acquisitions. With the recent acquisitions, the current available water supply for FAWWA or SRMD is now 1901.83 acre-feet <sub>300 year</sub>. Current Water Supply Inventory is in Table 3.**

**This leaves a net excess of currently available water of 1024.62 AF<sub>300 year</sub> and therefore there is more than sufficient water supply to meet the needs of Homestead North at Sterling Ranch Filing #3 Preliminary Plan on the 300-year basis.**

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## 1.0 INTRODUCTION

The purpose of this study is to provide a preliminary outline of the water resources and wastewater needs that would be necessary for the Homestead North at Sterling Ranch Filing #3 Preliminary Plan development.

### 1.1 NEW DEVELOPMENT DESCRIPTION

The Homestead North at Sterling Ranch Filing #3 Preliminary Plan development is located east of Vollmer Road and north of Woodmen Road..

Appendix A contains the *Overall Service Area Map* for FAWWA, which includes SRMD.

Appendix B contains the proposed Homestead North at Sterling Ranch Filing #3 Preliminary Plan

## 2.0 PROJECTION OF WATER NEEDS

### 2.1 ANALYSIS OF WATER NEEDS

It is expected that the residential lots on central water will be developed with single-family housing with anticipated turf grass landscaping.

For the last five years, there has been a trend in land use that provides for much smaller lots and much denser development in certain areas. Lots smaller than 7,000 square feet are anticipated in certain areas. This is resulting in much lower water needs for these types of developments. The standard SFE adopted in Sterling Ranch has been 0.353 annual acre-feet. However, this is for the formerly typical household anticipating 1500 square feet or more of landscaping. In order to adjust for such increases in density, we are adopting a scaled down equivalency to meet the changes in lot sizes. For instance, lot areas less than 3500 sf have reduced water use that roughly is equivalent to apartments or townhomes where water use is indoor only.

Based on data from other areas, we have established a SFE equivalency factor scale as follows for these smaller lot sizes;

Table 1. SFE Equivalency for High Density Lots

Lot Size	SFE Ratio	Effective Annual Demand
Lots < 2000 SF	0.65	0.23
Lots < 3500 SF	0.75	0.265
Lots < 7000 SF	0.90	0.318
Lots > 7000 SF	1.0	0.353



Homestead North at Sterling Ranch Filing #3 Preliminary Plan. There is significant active irrigation within these areas so common irrigation partially makes up for the reduced lot use. The landscaping plan indicates a net active irrigation area of 5.65 acres.

Using the above criteria, there are 77 lots in the >7000 SF category. The expected water demands are shown in Table 2 following:

**Table 2. Projected Water Demands for Sterling Ranch East Preliminary Plan 2**

# of Units	Land Use	Water Use Per Unit (AF/Unit)	Annual Demand (AF)	Average Daily Flow (ADF) (GPD)	Maximum Daily Flow (MDF) (@2.45 x ADF) (GPD)	Peak-Hour Flow (@ 1.5 x MDF) (GPM)
0	Residential < 2000 SF	0.23	0	0	0	0
0	Residential < 3500 SF	0.265	0	0	0	0
0	Residential < 7000 SF	0.318	0	0	0	0
77	Residential > 7000 SF	0.353	27.18	24,266	60,663	63
5.65	Acres-Active Net Irrigation	2.5	14.13	12,160	31,524	33
<b>Total</b>			<b>41.31</b>	<b>36,676</b>	<b>92,189</b>	<b>96</b>

The total annual demand is 41.31 AF.



## 3.0 WATER RIGHTS AND SYSTEM FACILITIES

### 3.1 WATER RIGHTS

Water rights adjudications have been decreed by the State of Colorado, Water Division 2 District Court, Water Division 1 District Court, and the Colorado Groundwater Commission. The comprehensive rights for the FAWWA service include both decrees and determinations. Local groundwater rights are associated with the service area components, Sterling, and the Retreat. Each of these sites has existing decrees and/or determinations outlining the rights associated with the development lands.

The most recent water rights added to the Sterling Ranch Inventory are three acquisitions noted in Table 3. Both the water decrees and determinations are included in **Appendix C** as well as the deeds for the water.

The three acquisitions are;

- McCune	BD-1689, BD-1690, BD-1691	391.33 acre-feet <sub>300 year</sub>
- Bar-X Ranch	85CW-445 and 93 CW-018	592.78 acre-feet <sub>300 year</sub>
- Shamrock West	85 CW 131	220.10 acre-feet <sub>300 year</sub>

Table 3 on the following page details all of the water rights currently available for the FAWWA service area which now total 1901.83 acre-feet <sub>300 year</sub>



Table 3  
Falcon Area Water and Wastewater Authority  
Comprehensive Water Supply Inventory  
Current Legal Supply

Update September 30, 2022

Land Formation/Aquifer	Reference Finding/ Determination/ Decree	Tributary Status	Volume	Annual Allocation 100 Year	Annual Allocation 300 Year	Reference Deed	Notes	Sand Thickness	Saturated Specific Yield
			Acres-Feet	Acres-Feet	Acres-Feet				
<b>On-Site Sterling Water Legal Sources</b>									
Laramie Fox Hills	86-CW-19 08CW113	NT	53,900	539.00	179.67	FAWWA Assignment from SR Water	Under 1410 acres	255	15%
Arapahoe	86-CW-18	NT	57500	575.00	191.67		Under 4144 acres, reduced to 1444 acres	240	17%
					371.47				
<b>On-Site Augmented Sterling Water Legal Sources</b>									
Laramie Fox Hills	20CW 3059	NT	2780	27.80	9.27	FAWWA Assignment from SR Water	97.54 acres SR Quarry (Note 5)	190	
Arapahoe	20CW 3059	NNT	4320	43.20	14.40		97.54 acres SR Quarry (Note 5)	260.5	
Denver	20CW 3059	NNT	4895	48.95	16.32		97.54 acres SR Quarry (Note 5)	295.2	
Denver	08CW113 Aug 20CW 3059	NNT	72893	728.93	242.98		Sterling Ranch 1410 acres		
Arapahoe	08CW113 Aug 20CW 3059	NNT	60	0.60	0.20		Sterling Ranch 41.44 reduced to 1.44 acres		
					283.16				
<b>Off-site Bar-X Ground Water Sources (Note 4)</b>									
Laramie Fox Hills	93-CW-018 85 CW 445	NT				Special Warranty Deed Bar-X Shamrock West	All water already sold (427 - 100 yr)	200	15%
Arapahoe	93-CW-018 85 CW 445	NT	74250	742.50	247.50		Shamrock/Bar-X Rights	260	17%
Denver	93-CW-018 85 CW 445	NT	119900	1199.00	399.67		Shamrock/Bar-X Rights	435	17%
		NT	-16317	-163.17	-54.39		Net Set Aside for Sterling Ranch Post Pumping Depletions (20 CW 3059)		
Dawson	93-CW-018	NNT	128800	1288.00	0.00		Need Augmentation Plan	490	20%
Total Net Supply Bar-X (without augmentation)					592.78				
<b>Shamrock West Ground Water Sources</b>									
Dawson	85 CW131	NNT	49,800	498	0.00	Special Warranty Deed Bar-X Shamrock West	Needs Augmentation		
Denver NNT	85 CW131	NNT	105,700	1057	0.00		Needs Augmentation		
Denver NT	85 CW131	NT	18,700	187	62.33		Needs Augmentation		
Arapahoe NNT	85 CW131	NNT	2,500	25	0.00		Needs Augmentation		
Arapahoe NT	85 CW131	NT	47,400	474	158.00		Needs Augmentation		
Total Additional Contingent Supply (without augmentation)				661.00	220.3				
<b>Off-site McCune Ground Water Sources (Note 5)</b>									
Laramie Fox Hills	1689-BD	NT	26,300	263.00	87.67	Special Warranty Deed McCune	900.52 acres		
Arapahoe	1690-BD	NT	39800	398.00	132.67		900.52 acres		
Denver	1691-BD	NT	51300	513.00	171.00		900.52 acres 1500 AF Retained		
Total Net Supply McCune (without augmentation)					391.33				
<b>On-Site Retreat Water Legal Sources (Note 1)</b>									
Laramie Fox Hills in title	17CW3002	NT	6,440	-612			Under 225.97 acres	190	15%
LPH (Relinquishment)	18CW3002	NT	3,032	-2.796	10.11		PPD Augmenting 29 wells		
Arapahoe	17CW3002	NT	9,796	97.96	32.63		Under 225.97 acres	255	17%
Legal Supply: Phase 3, Phase 4 (excluding Lots 39-41) and Phase 6			12,828	128.28	42.76				
Augmentation (Dawson NNT)	18CW3002	Aug	2,796	27.96	9.32	20 Single Family Wells (Phase 2) (excluding Lots 1 & 12), Lots 39, 40 & 41 of Phase 2, & 5	Replace a min of 4% of pumping		
Augmentation (Dawson NNT)	18CW3002	Aug	1,467.5	14.68	5.23	20 Single Family Wells (Phase 2)	Replace actual depletion		
Legal Supply: Phase 1					5.23				
<b>Currently Available Off-Site Ground Water Legal Sources</b>									
Augmentation (Dawson NNT)	18CW3002	Aug	240.0	2.40	0.80	2 Single Family Wells (Phase 2 - Lots 1 & 12)	Replace a min of 10% of pumping		
			240.0	2.4	0.8				

Note 1. The water listed in the shaded area will be used to serve single family wells and is not included in the Total Available for the Central System.  
Note 2. In February, 2022, removed the existing Bar-X holdings from the supply sheet as the LPH water is dedicated to post-pumping depletions for Augmentation Case 20 CW 3059 and added the water yield from Case 20 CW 3059

Total Current 300-Year Water Supply (AF)

1901.83

Acres-Feet (Legal Water Supply For Falcon Area Water and Wastewater Authority Central System)

FAWWA On-Site Supplies

FAWWA Off-Site Supplies

FAWWA Retreat Water Supplies

Retreat Water private wells not included in Calculation

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JDS-Hydro Consultants, Inc.

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### 3.2 ADEQUACY OF WATER RIGHTS CURRENT SUPPLY

The current water rights inventory by area is as follows:

/ Sterling original on-site non-tributary (NT) water rights	371.47 AF <sub>300 year</sub>
/ 02 CW 3059	283.16 AF <sub>300 year</sub>
/ Retreat at Timber Ridge on-site rights –	42.76 AF <sub>300 year</sub>
/ McCune BD-1689, BD-1690, BD-1691	391.33 acre-feet <sub>300 year</sub>
/ Bar-X Ranch 85CW-445 and 93 CW-018	592.78 acre-feet <sub>300 year</sub>
/ Shamrock West 85 CW 131	220.10 acre-feet <sub>300 year</sub>

Sterling-owned and currently available on-site NT and adjudicated not non-tributary (NNT) water totals are 1901.83 AF<sub>300 year</sub>, which would be adequate supply to meet the needs of 5,387 SFE.

As of this report 2022, the total water commitment within SRMD requires 877.21 AF<sub>300 year</sub>. See Appendix F – FAWWA Water Supply vs Current Water Commitments. As of this report, the above includes Sterling Ranch East Phases One, Two, Three, and Homestead North at Sterling Ranch Filing 3.

**This leaves a net excess of currently available water of 1024.62 AF<sub>300 year</sub> and therefore there is more than sufficient water supply to meet the needs of Homestead North at Sterling Ranch Filing #3 Preliminary Plan on the 300-year basis.**

### 3.3 MASTER PLANNING AND LONG-TERM AND FUTURE SOURCES OF SUPPLY

The FAWWA water system has only been in operation for three years, so little-to-no usable historic information would be reliable for unique, long-term planning. However, substantial nearby data from the Falcon area is available for use. As of the end of 2021, the system had approximately only 300 active users. Therefore, initial projections have been based on area-wide water user characteristics and a linear buildout rate. This rate is considered to be an average annual rate that might be reasonably maintainable over a 10-year period. The average growth rate is projected as 180 units added per year.

- / **2040 Scenario:** Based on the above factors, the FAWWA system might conservatively anticipate serving 3,710 SFEs in the year 2040. This number is a service area projection and includes the Retreat and The Ranch, as well as the main Sterling Ranch residents. This would require no additional water.
- / **2060 Scenario:** Based on the same factors, the Sterling system might be expected to serve 7,310 SFEs within its expanded service area, which includes the Retreat and The Ranch. This would be substantially greater than the actual Sterling Ranch. The annual acre-foot requirement might be 679 annual AF, but supply would include water from The Ranch which has not yet been added to inventory.

In addition to adding off-site sources, potential, additional supplies include renewable resources and/or regional projects bringing new water to the area



**Long-Term Planning:** Future water supply has already been contracted for and plans for implementation are underway. The first project recently completed provides augmentation for certain on-site NNT water, so that that water may be used in existing and expanded well fields on-site.

1. **Regionalization Opportunities:** FAWWA's main supply source is centralized at a point that both Cherokee Metropolitan District and Woodmen Hills Metropolitan District have adjacent major storage and delivery facilities. There are currently no arrangements in place to make connections, but in the future, SRMD may seek to have interconnections and possibly share supply.

The second element is a much broader regionalization: conducting cooperative actions with Colorado Springs Utilities (CSU), which SRMD has been open to. CSU is potentially also open to shared physical facility utilization, which would enable Sterling to expand its scope in seeking water rights. While it is not expected that Sterling will provide actual water, the access to facilities opens greater doors for SRMD.

2. **Indirect, Reuse, Lawn Irrigation Return Flows (LIRF) Credits, Aquifer Storage/Recharge, and Direct Reuse:** Regarding return flows, initial development is being planned around sourcing available physical supplies. These supplies are all fully-consumable and ultimately result in potential return-flow capabilities. Since SRMD wastewater is discharged to the Meridian system, which in turn has the potential to convert some reusable flows to available physical supplies, those options will be available and considered by Sterling. With regard to LIRF credits, Sterling has already initiated a case that will make augmentation use of its potential LIRF credits.

### 3.4 SYSTEM INTERCONNECTS

FAWWA currently has no system interconnections. However, as discussed previously, FAWWA's main supply source is centralized at a point that both Cherokee Metropolitan District and Woodmen Hills Metropolitan District have adjacent major storage and delivery facilities. It is possible that future agreements could be made.

### 3.5 SOURCE OF PHYSICAL SUPPLY

Municipal water demand would be met using primarily Arapahoe and Laramie-Fox Hills formation wells in the SRMD area. The first well site will be drilled with an Arapahoe Well (A-1) and Laramie-Fox Hills Well (LFH-1); well site #1 includes both an Arapahoe and a Laramie-Fox Hills well. Additional permits will be obtained as needed to ultimately continue to add to the system as needed. Existing well permits are included in **Appendix D**.

FAWWA has begun the process of filing to drill the second set of wells on the Retreat site which will possibly be needed in 2024.

Off-site water to the north of the SRMD service area is generally in the Denver and Arapahoe formations.



### 3.6 WATER QUALITY AND TREATMENT

Appendix E contains the water quality reports for the initial wells drilled at Sterling Ranch. The quality is generally consistent with Denver Basin water typically encountered in the Falcon area. The quality of water in these aquifers in this area has typically been suitable for potable use with the addition of iron and manganese treatment.

### 3.7 WATER STORAGE, DISTRIBUTION, AND TRANSMISSION LINES

An initial 1.0-million-gallon tank has already been constructed at the SRMD site.

For the purpose of fire protection, we recommend eight-inch lines throughout the residential subdivision. The lines should be looped wherever the street layout allows. A transmission line of 24-inches in diameter has been extended south-southwesterly along one of the major roadways from the storage tank into Phase One of the development.

### 3.8 PUMPING FOR SERVICE PRESSURES

Ground elevations within the development service area range from approximately 6,970 feet to 7,320 feet. Adequate service pressures are generally considered 60 psi for residential service. The tank site is on the Sterling property at a base elevation of approximately 7,310 feet, which would be capable of supplying acceptable service pressures to ground elevations of approximately 7,190 feet. Initial development is anticipated to be at elevations below 7,190 feet, so the tank site will be able to provide adequate pressure.

Development construction has progressed such that the pressure system is likely to be needed sometime in 2023, FAWWA is currently constructing the pressure pump station so that it will be ready when needed next year.

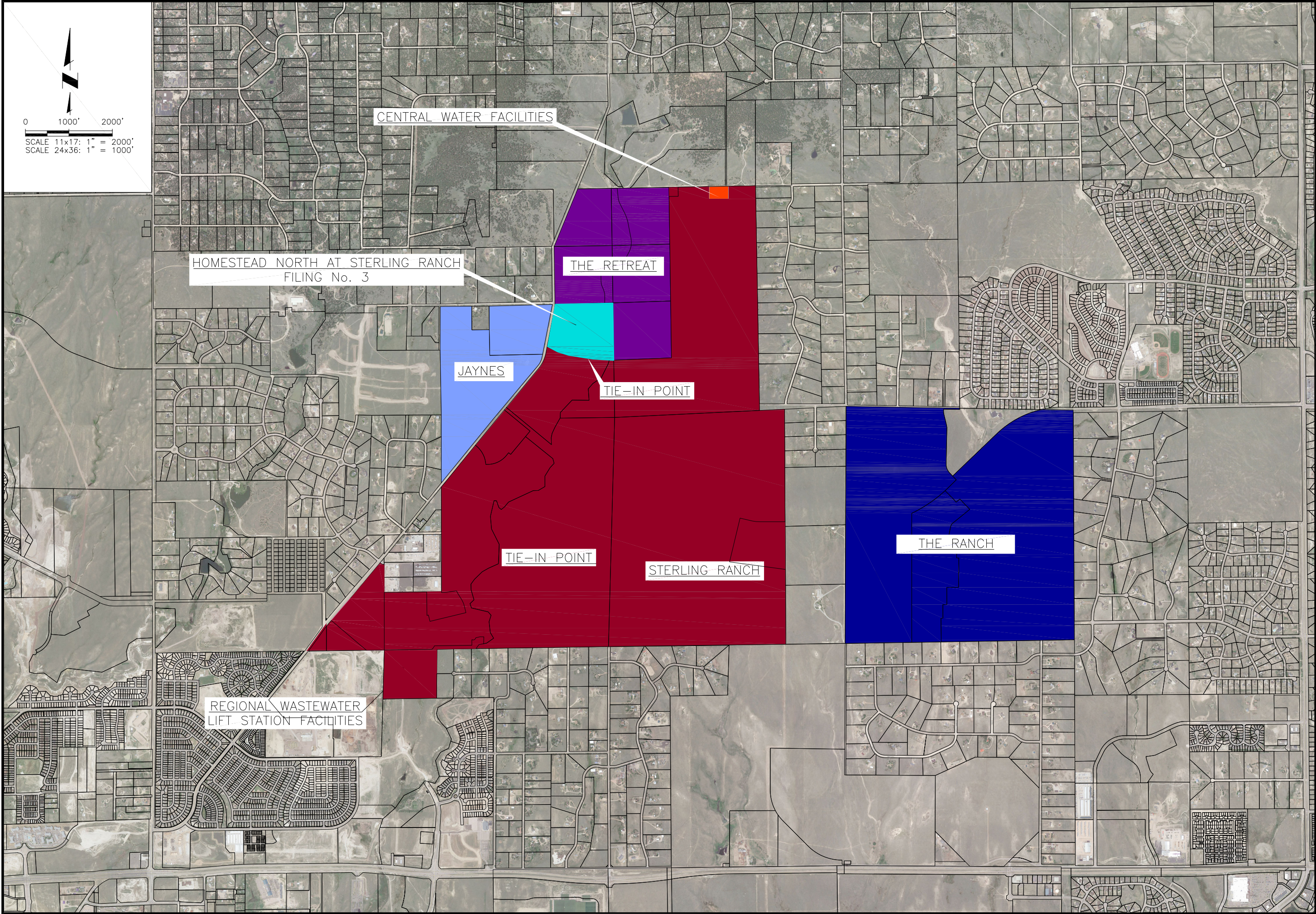


## APPENDIX A

# WATER SERVICE AREAS



N:\Projects\WD242.22001--FAWA General Engineering\Water Reports\Drawings\Sterling\_Exhibit.dwg 2022/11/02 10:53 AM By: Jeffrey Bray





a Division of

**RESPEC**

5540 TECH CENTER DR., SUITE 100  
COLORADO SPRINGS, COLORADO 80919  
(719) 227-0072

DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS SHALL BE REPORTED TO JDS-HYDRO, A DIVISION OF RESPEC. JDS-HYDRO ASSUMES NO LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

APPENDIX A

FALCON AREA WATER AND WASTEWATER AUTHORITY

SERVICE AREA

REVISIONS		
NO.	DESCRIPTION	BY APP. DATE
1		
2		
3		
4		
5		
6		
7		

Project No.: 161.04

Date: 10/11/22

Design: JPM

Drawn: JLB

Check: JPM

PLAN

SHEET 1 OF 1

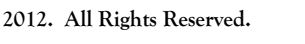
EXHIBIT



APPENDIX B

# STERLING RANCH PRELIMINARY PLAN 2

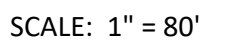




## OLLMER ROAD

.04.2022  
BARLOW  
B. ITEN

1





## APPENDIX C

# WATER RIGHTS DECREES



## Appendix C

### Listing of Decrees/Determinations/Deeds in Appendix

#### Decrees/Determinations

08 CW 113

86 CW 18

86 CW 19

17 CW 3002

18 CW 3002

20 CW 3059

93 CW 018

85 CW 445

85 CW 131

1689 BD

1690 BD

1691 BD

#### Deeds

FAWWA Assignment

FAWWA Assignment

FAWWA Assignment

FAWWA Assignment

Special Warranty Deed Bar-X Shamrock  
West

Special Warranty Deed Bar-X Shamrock  
West

Special Warranty Deed Bar-X Shamrock  
West

Special Warranty Deed McCune

Special Warranty Deed McCune

Special Warranty Deed McCune

## ASSIGNMENT AND ASSUMPTION

**THIS ASSIGNMENT AND ASSUMPTION (the “Assignment”)** is entered into on July 19, 2022, effective as of February 1, 2022, by and between SR WATER, LLC, a Colorado limited liability company (the “Assignor”), and FALCON AREA WATER AND WASTEWATER AUTHORITY, a public corporation and political subdivision of the State of Colorado (the “Assignee”), with reference to the facts set forth below.

### RECITALS

A. Sterling Ranch Metropolitan District No. 1, Sterling Ranch Metropolitan District No. 2, and Sterling Ranch Metropolitan District No. 3 (collectively, the “Districts”) and the Assignee have been cooperatively transitioning operations of water and sanitary sewer services since February 1, 2022.

B. The Assignor has entered into various contracts and agreements relating to water and sanitary sewer services that are or will be provided by the Authority, which contracts and agreements are identified in **Exhibit A**, attached hereto and incorporated herein (the “Agreements”).

C. The Assignor and Assignee desire to contract with each other for Assignor to assign all of its rights, responsibilities, Agreements, accounts receivable, payment obligations and general obligations related to the provision of water and sanitary services by the Districts and/or the Authority, as identified in Exhibit A, to Assignee and Assignee desires to accept such assignment.

D. Assignee finds that it is in the best interest of its constituents to enter into this Assignment.

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor and Assignee agree as follows:

### AGREEMENT

1. **Assignment.** Assignor hereby conveys, transfers and assigns to Assignee all of its rights, responsibilities, Agreements, accounts receivable, payment obligations and general obligations to the Authority related to the provision of water and sanitary sewer service by the Districts and/or the Authority, as identified in Exhibit A.

2. **Assumption.** Assignee hereby accepts the assignment of the Agreements and assumes and covenants and shall perform and fulfill all of the obligations, terms and conditions of Assignor occurring on and after the effective date of this Assignment. Assignee also agrees to, as applicable, assume and accept all rights, responsibilities, accounts receivable, payment obligations and general obligations of Assignor, as identified in Exhibit A.

3. **Effect of Assignment.** Except as amended herein the Agreements remain in full force and effect.

4. **Governing Law.** This Assignment shall be governed by and construed in accordance with the laws of the State of Colorado, without giving effect to the principles of conflicts of laws of that state.

5. **Further Assurances.** Each party to this Assignment shall execute all instruments and documents and take all actions as may be reasonably required to effectuate this Assignment.

6. **Prevailing Party.** If a party hereto brings any action or suit against the other party hereto by reason of any breach of any of the covenants, conditions, agreements or provisions on the part of the other party arising out of this Assignment, then the prevailing party shall have and recover from the other party all costs and expenses of the action or suit including reasonable attorney's fees.

7. **Counterparts/Facsimile.** Any number of counterparts of this Assignment may be executed. Each counterpart will be deemed to be an original instrument and all counterparts taken together will constitute one agreement. Executed copies of this Assignment may be delivered by facsimile, PDF, or email and, upon receipt, shall be deemed originals and binding upon the parties hereto. Without limiting or otherwise affecting the validity of executed copies hereof that have been delivered by facsimile, PDF, or email, the parties will use their commercially reasonable efforts to deliver originals as promptly as possible after execution.

8. **Certain Interpretive Matters.** The headings contained in this Assignment are provided for convenience only and will not affect its construction or interpretation.

[REST OF PAGE LEFT BLANK INTENTIONALLY]

The parties hereto have executed this Assignment as of the day and year first set forth above.

**ASSIGNOR:**

SR WATER, LLC, a Colorado limited liability company

By: \_\_\_\_\_

Name: \_\_\_\_\_

Its: \_\_\_\_\_

**ASSIGNEE:**

FALCON AREA WATER AND WASTERWATER AUTHORITY, a public corporation and political subdivision of the State of Colorado

\_\_\_\_\_  
President

ATTEST:

\_\_\_\_\_  
Secretary

## **EXHIBIT A**

(To be assigned by SR WATER, LLC to Falcon Area Water and Wastewater Authority)

1. All improvements identified in the attached RESPEC engineering reports.
2. Purchase Contract between McCune Ranch, LLC and SR Water, LLC, attached hereto.
3. Contract for the Purchase and Sale of Water Rights between Shamrock Water, LLC and SR Water, LLC, attached hereto.

## PURCHASE CONTRACT

THIS PURCHASE CONTRACT (this "**Contract**") between MCCUNE RANCH, LLC, a Colorado limited liability company ("**Seller**"), and SR WATER, LLC ("**Purchaser**") is dated as of the day Seller and Purchaser have both signed it, as indicated by their signatures below (the latter of which shall be the "**Effective Date**").

### RECITALS

A. Seller owns the water rights described on the attached Exhibit A (the "**McCune Ranch Water Rights**") underlying the property located in El Paso County, Colorado described more particularly on the attached Exhibit B (the "**McCune Ranch**").

B. Seller is establishing certain easement rights for use in connection with the withdrawal, development and transmission of the McCune Ranch Water Rights which easements are described more particularly on the attached **Water Wells and Pipeline Easement Agreement** Exhibit C (the "**Easement Agreement**").

C. Purchaser intends to develop certain real property located in El Paso County, Colorado and requires water rights in order to service such development.

D. Purchaser desires to purchase from Seller and Seller desires to sell to Purchaser that portion of the McCune Ranch Water Rights described on Exhibit D (the "**Water Rights**") under the terms set forth in this Contract. In connection with the purchase and sale of the McCune Ranch Water Rights, Purchaser desires to acquire from Seller and Seller desires to convey to Purchaser, the Easements subject to the terms, conditions and limitations of this Contract.

### AGREEMENT

IN CONSIDERATION of the Recitals and the following valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

#### Section 1. THE PURCHASE.

1.1 Purchase and Sale. Purchaser hereby agrees to purchase ("**Purchase**") from Seller and Seller agrees to sell to Purchaser the Water Rights and Easements for the purchase price of \$3,567,000.00 (the "**Purchase Price**"), which represents a price of \$3,000 per determined nontributary acre foot. However, as provided in Paragraph 1.1(c), below, the ultimate total amount paid by Purchaser will be based upon a price of \$3,000 per acre foot of "Transferable Yield" following completion of the Change in Place of Use proceeding, based upon the amount of water approved for Purchaser's use in places other than the McCune Ranch overlying land. The Closing Date shall be no later than thirty (30) days after approval by the Colorado Ground Water Commission of a requested "Change in Place of Use" application for the Water Rights ("**Closing Date**"), provided that such Closing Date shall not be later than October 1, 2018, unless otherwise agreed to by the Parties hereto.

(a) Definition of Transferable Yield. For purposes of this Agreement, "Transferable Yield" means the cumulative net amount of nontributary ground water in the combined Denver, Arapahoe and Laramie-Fox Hills aquifers, as measured in acre feet, which the Colorado Ground Water Commission allows, by final, unappealable ruling to be entered in the "Change of Place of Use" application to be filed by Purchaser and completed prior to closing, which may be utilized on properties other than the overlying McCune Ranch (hereinafter referred to as the "Commission Change"). For purposes of determining "Transferable Yield" and calculation of the purchase price to Seller, the following provisions shall apply: (1) The amount of Transferable Yield quantified for purposes of calculating the purchase price shall be a net number of acre feet of nontributary ground water approved for use on properties other than the overlying land in the Commission Change, including the 2% of such water rights which Purchaser is statutorily obligated to forego consumption of; and, (2) the final determination of Transferable Yield shall be after a final unappealable ruling of the Commission in the Commission Change has been obtained to the satisfaction of the Purchaser, and all deadlines in such ruling, if any, allowing potential reduction in the amount of Transferable Yield have expired.

(b) Initial Payment for the Water Rights. Within 15 days of mutual execution of this Contract, the Purchaser shall pay to Seller an Initial Payment of one hundred thousand dollars (\$100,000.00), and said Initial Payment shall be nonrefundable, notwithstanding any other provision of this Agreement. No portion of the Initial Payment shall be refundable by Seller, even in the event that the Commission Change produces a ruling awarding less Transferable Yield than anticipated. The parties acknowledge and agree that in the event the final, unappealable Commission Change ruling quantifies less than 34 acre feet of Transferable Yield, there still shall be no rebate to Purchaser from Seller for any portion of the \$100,000.00 Initial Payment.

(c) Payment for balance of Water Rights at Closing. Within forty-five (45) days of entry of the final, unappealable ruling in the Commission Change action, Purchaser shall pay to Seller an additional sum equal to the number of acre feet of Transferable Yield determined by the Commission Change ruling multiplied by the per acre foot price of \$3,000.00 after credit is given to Purchaser for the Initial Payment paid to Seller as described in Paragraph 1.1(b), above. For example, if the Water Court determines that 100% of the previously determined nontributary Denver Basin ground water may be utilized by Purchaser on at the other places of use sought, rendering all of the previously determined water rights as "Transferable Yield", then Purchaser shall pay Seller the balance of the purchase price for all of the Transferable Yield in excess of the approximately 33.3 acre feet already paid for, a balance of \$3,467,000, and this payment shall constitute payment in full for the Water Rights. Such payment shall be reduced by \$3,000 per acre foot of water previously determined, but not included in the Transferable Yield as determined in the Commission Change.

## 1.2 Closing Procedure.

(a) Payment. At the time if Initial Payment, to occur at a time and place to be mutually agreed upon by the Parties not later than 15 days following mutual execution of this agreement, Purchaser shall pay Seller, in cash, certified funds, or by wire transfer an amount

equal to the Initial Payment, \$100,000. At Closing, within forty-five (45) days of entry of the final, unappealable ruling in the Commission Change action, Purchaser shall pay the balance due, as calculated based upon Transferrable Yield, described in Paragraphs 1.1(b) and (c), above;

(b) Deed. At Closing, Seller shall convey by special warranty deed the McCune Ranch Water Rights, subject only to the Permitted Exceptions (defined in Section 2 below);

(c) Easements. At the Closing, the Seller shall execute and deliver to Purchaser the **"Water Wells and Pipelines Easement Agreement"**, attached as Exhibit C hereto, under which Seller grants Purchaser non-exclusive easements for use in connection with the withdrawal, development and transmission of the McCune Water Rights (the "Easements");

(d) Title. Seller shall provide Purchaser a title commitment with respect to the Easements issued by \_\_\_\_\_ (the **"Title Company"**) within ten (10) days of the Effective Date.

(e) At each Closing, Seller/Optionor and Purchaser/Optionee shall each deliver such affidavits and agreements as the Title Company may require or request in order to consummate the transactions contemplated by this Contract; and

### 1.3 Activities Prior to Closing.

(a) Seller represents that there are no known liens or encumbrances affecting the Water Rights or Easements. Within ten (10) days of the Effective Date, Seller shall furnish to Purchaser copies of any and all water court decrees, groundwater determinations, well permits, agreements, engineering reports, or other documents in its possession relating to or concerning the yield and use of the Water Rights and the Easements.

(b) Purchaser, at its expense, shall retain a water resources engineer and/or water attorney to examine the Water Rights, including any documents received from Seller, and complete a good faith legal and engineering analysis of the use and physical yield of the Water Rights.

(c) Purchaser, at its expense, shall use its best efforts to timely obtain the approval of the Colorado Ground Water Commission of a Change in Place of Use of the Water Rights outside of the Kiowa Bijou Designated Ground Water Basin, and Seller expressly consents to Purchaser's actions in this regard prior to closing.

(d) Purchaser may perform such further due diligence investigations concerning the Water Rights, including title investigations as it deems appropriate. Seller shall cooperate with Purchaser in such investigations or negotiations, provided that Seller will not be obligated to incur any expense in such cooperation.

(e) Seller shall be free to enter into negotiations with third parties concerning the Water Rights prior to Initial Payment and to enter into back-up contracts or back-up options

on all or a part of the Water Rights, provided that such options or contracts expressly acknowledge and are subject to Purchaser's rights hereunder to purchase all of the Water Rights, and the Easements subject to the terms of the Exhibit C Easement Agreement..

1.4 Conditions to Closing.

(a) Purchaser's Conditions. Purchaser's obligations under this Contract to purchase the Water Rights and Easements are subject to the following conditions precedent, which must be satisfied or waived on or before Closing (unless otherwise provided):

i. Representations by Seller. The representations and warranties made by Seller in this Contract must be true and correct as of the Closing.

ii. Compliance by Seller. Seller shall have complied with the terms and conditions of this Contract in all material respects.

iii. No Material Change. Title to the Water Rights and Easements shall be subject to no matters other than the Permitted Exceptions.

iv. Change in Place of Use. Prior to Closing, The Colorado Ground Water Commission shall have satisfactorily approved a Change in Place of Use of the Water Rights outside the Kiowa Bijou Designated Ground Water Basin for use by Purchaser in the Falcon, Colorado, area. Purchaser will diligently prosecute such change at its sole expense, and with Seller's express consent and cooperation.

(b) Seller's Conditions. Seller's obligations under this Contract to sell the Water Rights and Easements are the subject to the following conditions precedent, which must be satisfied or waived on or before Closing:

i. Representations by Purchaser. The representations and warranties made by Purchaser in this Contract must be true and correct as of the Closing.

ii. Compliance by Purchaser. Purchaser shall have complied with the terms and conditions of this Contract in all material respects.

Section 2. TITLE.

2.1 Title to the Water Rights and Easements shall be marketable and shall be free and clear of all liens and encumbrances, subject in both instances only to:

(a) The lien for real property taxes for the year of Initial Closing and all subsequent years, if any.

(b) Any exceptions shown on a title commitment for the Easements that do not impair the use of the Water Rights or the Easements for their allowed uses; and

(c) Any defects or encumbrances created by Purchaser, at the instance of Seller, or with Seller's consent.

The foregoing title exceptions are hereinafter called the "**Permitted Exceptions**".

Section 3. REPRESENTATIONS AND WARRANTIES.

3.1 Representations, Warranties and Covenants of Seller. Seller hereby represents, warrants and covenants to Seller that, as of the date hereof and the date of each Closing:

(a) Authority. The execution and delivery by Seller of this Contract are within Seller's powers and have been duly authorized by all requisite organizational actions. The person executing this Contract on behalf of Seller has the authority to do so. This Contract is a legal, valid and binding obligation of Seller, enforceable in accordance with its terms.

(b) Title. Seller holds good and marketable title to the Water Rights and Easements free and clear of all liens and encumbrances except the Permitted Encumbrances. During the term of this Contract, Seller will not enter into any agreement or suffer any lien with respect to the Water Rights or Easements, excepting "back-up" agreements, as described in Paragraph 1.3(e), above.

(c) Litigation. To the knowledge of Seller, there is no pending or threatened litigation affecting the Water Rights or Easements.

(d) Governmental Notices. Seller has not received any notices or directives from any governmental entities with jurisdiction over the Water Rights or Easements claiming that any current use of or current condition with the Water Rights or Easements violates any federal, state, or local laws or regulations.

(e) No Other Warranties. Other than the foregoing representations, warranties and covenants, no representations and warranties have been made by Seller or anyone on its behalf to the Purchaser as to the condition of the Water or Easements.

3.2 Representations, Warranties and Covenants of Purchaser. Purchaser hereby represents, warrants and covenants to Seller that, as of the date hereof:

(a) Authority. The execution and delivery by Purchaser of this Contract are within Purchaser's powers and have been duly authorized by all requisite organizational actions. The person executing this Contract on behalf of Purchaser has the authority to do so. This Contract is a legal, valid and binding obligation of Purchaser, enforceable in accordance with its terms.

3.3 Seller's Disclaimers. Seller makes no warranty or representation regarding the physical yield and quality of the Water Rights or that the Water Rights are fit for the purposes for their int

Section 4. DEFAULT AND SPECIFIC PERFORMANCE.

4.1 Default by Seller. The parties agree that in view of the unique nature of the Water Rights and Purchaser's agreement to pursue the Change in Place of Use approval from the Colorado Ground Water Commission, in the case of default by Seller damages will not provide an adequate remedy for Purchaser. Therefore, in case of default by Seller, Purchaser shall have the right to specific performance and damages, in addition to any other remedies available in law or equity.

4.2 Default by Purchaser. In case of default by Purchaser, Seller shall be entitled to all remedies available in law or equity.

Section 5. MISCELLANEOUS.

5.1 Effect of Headings. The subject headings of paragraphs and subparagraphs of this Contract are included for purposes of convenience only, and shall not affect the construction or interpretation of any of its provisions.

5.2 Entire Contract; Survival of Contract; Construction. This Contract constitutes the entire agreement between the parties hereto and supersedes all prior and contemporaneous agreements, representations and understandings of the parties regarding the subject matter of this Contract. No supplement, modification or amendment of this Contract shall be binding unless executed in writing by the parties hereto. Both parties participated in the preparation of this Contract and consequently any rule of construction construing any provision against the drafter shall not be applicable.

5.3 Counterparts. This Contract may be executed in one or more counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument.

5.4 Assignment. Purchaser may assign its interest in this Contract only with the express written approval of Optionor, which shall not be unreasonably withheld.

5.5 Notices. All notices and other communications under this Contract shall be in writing and shall be given either personally or by an overnight courier service (which obtains a receipt evidencing delivery) and shall be addressed as follows:

To Purchaser: SR Water, LLC  
20 Boulder Crescent, Suite 200  
Colorado Springs, CO 80906

To Seller: McCune Ranch, LLC  
17480 Meridian Road North  
Peyton, CO

5.6 Governing Law. This Contract shall be construed in accordance with the laws of the State of Colorado.

5.7 Brokers' Fees. Seller has employed the services of Remax Performance Group, Marty Chase, as broker, agent, and finder, and same is entitled to receive a commission, finder's fee, or other compensation in connection with this transaction, which commission, finder's fee or other compensation shall be Seller's sole responsibility to pay. Purchaser has not employed the services of any person as broker, agent, finder and no such broker, agent, finder or other person is entitled to receive a commission, finder's fee or other compensation in connection with this transaction. Each of the parties agrees to indemnify and hold harmless the other against any loss, liability, damage, cost, claim or expense incurred by reason of any brokerage commission or finder's fee alleged to be payable because of any act, omission or statement of the indemnifying party.

5.8 Prohibition Against Recording. This Contract shall not be recorded without the prior written consent of the Seller. If it is recorded without such prior written consent, this Contract shall terminate, and such recording shall constitute notice to all third parties that this Contract has been terminated and the Purchaser has no right, title, claim, or interest in the Water Rights or Easements.

5.9 Recovery of Litigation Costs. If any legal action or proceeding is brought for the enforcement of this Contract, or because of an alleged dispute, breach, default, or misrepresentation in connection with any of the provisions of this Contract, the successful or prevailing party shall be entitled to recover attorneys' fees and other costs incurred in that action or proceeding, in addition to any other relief to which it or they may be entitled. As used herein, "attorneys' fees" shall mean the full and actual costs of any legal services actually rendered in connection with the matters involved, calculated on the basis of the usual fee charged by the attorneys performing such services and shall not be limited to "reasonable fees" as defined by any statute, case law or rule of court. The parties intend that in addition to all other legal and equitable remedies available, injunctive relief and the remedy of specific performance may be utilized in the event of the breach or threatened breach of this Contract.

5.10 Further Assurances. Each of the parties hereto undertakes and agrees to execute and deliver such documents, writings, and further assurances as may be required to carry out the intent and purpose of this Contract.

5.11 Dates. If any date set forth in this Contract for the delivery of a document or occurrence of any event (such as closings and payment hereunder) should, under the terms hereof, fall on a weekend or holiday, then such date shall automatically be extended to the next succeeding weekday that is not a holiday.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

SELLER:

MCCUNE RANCH, LLC, a Colorado limited liability company

By: Mary Sue Liss 

Name: Mary Sue Liss

Title: Trustee

Date: 9-10-2017

PURCHASER:

SR WATER, LLC, a Colorado limited liability

By: 

Name: JAMES F. MORLEY

Title: MANAGER

Date: 9/10/17

**Exhibit A**  
**McCune Ranch Water Rights**

Determination # 1962BD 819.5 acre feet Lower Dawson  
# 1961 BD 528 acre feet Denver  
# 1962 BD 398 acre feet Arapahoe  
# 1689 BD 263 acre feet Laramie Fox Hills

**Exhibit B**  
**McCune Ranch Land**

The Southwest quarter of the Southwest quarter Section 18, the West half of the Northwest quarter and the West half of the Southwest quarter, Section 19, Township 11 South, Range 64 West of the 6<sup>th</sup> PM and the South half of the Southeast quarter, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6<sup>th</sup> Principal Meridian, in El Paso County, Colorado.

**Exhibit C**  
**McCune Ranch Easement Agreement**

## **FIRST AMENDMENT TO CONTRACT FOR THE PURCHASE NONTRIBUTARY WATER RIGHTS**

THIS First Amendment to Contract for the Purchase of McCune Ranch Nontributary Water Rights ("First Amendment") is dated as of the date of mutual execution by Buyer and Seller ("Effective Date"), and is by and between **McCune Ranch, LLC**, a Colorado limited liability company ("Seller"), and **SR Water, LLC**, a Colorado limited liability company ("Buyer").

### **RECITALS**

A. On September 10, 2017, Seller and Buyer entered into that certain Contract for the Purchase of Nontributary Water Rights (the "Purchase Contract") concerning the water rights more particularly described therein (the "McCune Water Rights"). The Purchase Contract and this First Amendment shall collectively be termed the "Agreement".

B. Seller has requested that an addendum or amendment be made to the Purchase Contract allowing Seller to reserve from closing, at Seller's discretion, a portion of the nontributary groundwater contained in the Denver aquifer, for conveyance to the purchase of the surface of Seller's land, should such nontributary supplies be necessary for the development thereof.

C. A condition to closing under the Purchase Contract is the completion of certain "change in place of use" proceedings before the Colorado Ground Water Commission ("GWC") of the McCune Water Rights, though the Purchase Contract calls for closing to occur prior to October 1, 2018. The parties wish to extend the closing date to allow for completion of such change proceedings before the GWC, which have now been filed and are pending approval;

NOW THEREFORE, in consideration of the promises and mutual covenants set forth herein, and other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

### **AGREEMENT**

1. All foregoing recitals are incorporated herein by reference.
2. Section 1.1 of the Purchase Contract is hereby replaced in its entirety with the following language:

Purchaser hereby agrees to purchase ("**Purchase**") from Seller and Seller agrees to sell to Purchaser the Water Rights and Easements for the purchase price of \$3,567,000.00 (the "**Purchase Price**"), which represents a price of \$3,000 per determined nontributary acre foot. However, as provided in Paragraph 1.1(c), the ultimate total amount paid by Purchaser will be based upon a price of \$3,000 per acre foot of "Transferable Yield" following completion of the Change in Place of Use proceeding before the

GWC, based upon the amount of water approved for Purchaser's use in places other than the McCune Ranch overlying land. Further, the ultimate total amount paid by Purchaser may be further reduced should Buyer elect to reserve a portion of the Denver aquifer, as provided in Section 2, below, again on a \$3,000 per annual acre foot basis as to the amount reserved. The Closing Date shall be no later than thirty (30) days after approval by the GWC of the pending "Change in Place of Use" applications for the Water Rights ("**Closing Date**"), provided that such Closing Date shall not be later than March 31, 2020, unless otherwise agreed to by the Parties hereto.

2. Seller may elect either prior to or at closing, to reserve from sale to Buyer a portion of the Denver aquifer, so as to instead convey such reserved portion to the purchaser of the overlying land for use in the development therefor. Seller may reserve a maximum of 178 annual acre feet from the Denver aquifer, and any such reservation shall be made in writing with notice to Buyer as provided in the Purchase Contract. The Purchase Price shall be reduced by \$3,000 for each acre foot of water so reserved.

IN WITNESS WHEREOF, the parties hereto have executed this First Amendment.

MCCUNE RANCH, LLC, a Colorado limited liability company

By: Mary Sue Liss  
Name: Mary Sue Liss  
Title: Manager  
Date: 8/2/19

SR WATER, LLC, a Colorado limited liability company

By: James F. Morley  
Name: JAMES F. MORLEY  
Title: MANAGER  
Date: 8/2/19

## **SECOND AMENDMENT TO CONTRACT FOR THE PURCHASE NONTRIBUTARY WATER RIGHTS**

THIS Second Amendment to Contract for the Purchase of McCune Ranch Nontributary Water Rights ("First Amendment") is dated as of the date of mutual execution by Buyer and Seller ("Effective Date"), and is by and between **McCune Ranch, LLC**, a Colorado limited liability company ("Seller"), and **SR Water, LLC**, a Colorado limited liability company ("Buyer").

### **RECITALS**

A. On September 10, 2017, Seller and Buyer entered into that certain Contract for the Purchase of Nontributary Water Rights, and on August 2, 2019 Seller and Buyer entered into the 1<sup>st</sup> Amendment thereto (collectively the "Purchase Contract") concerning the water rights more particularly described therein (the "McCune Water Rights"). The Purchase Contract and this Second Amendment shall collectively be termed the "Agreement"; and,

B. Despite the Purchase Contract having expired per its terms, Seller and Buyer by this Second Amendment ratify the terms thereof and include such terms by reference herein to the extent not inconsistent with this Second Amendment, and both Seller and Buyer expressly agree and acknowledge that this Second Amendment acts to ratify and renew the Agreement; and,

C. A condition to closing under the Purchase Contract was the completion of certain "change in place of use" proceedings before the Colorado Ground Water Commission ("GWC") of the McCune Water Rights, allowing the use of the McCune Water Rights for Buyer's purposes at Buyer's locations. Such GWC proceedings were completed in Determination Nos. 1689-BD (Laramie-Fox Hills), 1690-BD (Arapahoe) and 1691-BD (Denver) in February of 2020, and the Parties expressly agree and acknowledge that this condition has been met; and,

D. By agreement dated March 31, 2020, Seller granted to Buyer certain easements necessary to facilitate the construction of wells and pipelines for withdrawal and deliver of the Nontributary Water Rights described in the Purchase Contract; and,

E. The Parties, for the good and valuable consideration described herein, wish to extend the closing date under the Agreement.

NOW THEREFORE, in consideration of the promises and mutual covenants set forth herein, and other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

### **AGREEMENT**

1. All foregoing recitals are incorporated herein by reference.

2. Section 1.1 of the Purchase Contract is hereby replaced in its entirety with the following language:

Purchaser hereby agrees to purchase ("**Purchase**") from Seller and Seller agrees to sell to Purchaser the Water Rights and Easements for the purchase price of \$3,522,000 (the "**Purchase Price**"), which represents a price of \$3,000 per determined nontributary acre foot subject of this Agreement, as described in Ground Water Commission Determination Nos. 1689-BD (Laramie-Fox Hills), 1690-BD (Arapahoe) and 1691-BD (Denver) issued in February of 2020, less 15 annual acre feet (100-year) of Denver aquifer water reserved by Seller and transferred to Winsome, LLC by separate contract. The Closing Date ("**Closing Date**") shall not be later than December 31, 2021, unless otherwise extended consistent with the terms of this Agreement.


3. Buyer has provided Seller with additional consideration, above and beyond that described in the Purchase Contract, of \$50,000.00, the receipt of which is acknowledged by Seller, in exchange for the extension in the Closing Date described above, and in exchange for Seller's ratification and renewal of this Agreement, as provided in this Second Amendment. Seller may provide further consideration in the form of an additional \$50,000.00, and thereby extend the Closing Date as described in Paragraph 2, above (Section 1.1 as amended) further until and including March 31, 2022. Such additional consideration is not included within and shall not be applied to the Purchase Price at closing, as described in revised Paragraph 1.1, above.

4. Should the transaction described in this Agreement fail to close prior to March 31, 2022, unless expressly agreed to the contrary by subsequent agreement signed by the Parties, the Grant of Easements Agreement dated March 31, 2020 shall be null and void and all easements granted therein shall revert to McCune Ranch, LLC. Seller and Buyer shall cooperate in executing and recording all necessary documents to evidence such reversion.


5. Confidentiality of Communications and Documents. All past and future written or oral communications among and between the Parties, their employees, Consultants, agents or Counsel, and all documents shared among and between the Parties, their employees, Consultants, agents or Counsel in connection with or relating to the subject water rights shall remain privileged and confidential to the extent provided by law, until closing of the transaction described in this 2<sup>nd</sup> Amendment and the Purchase Contract. Except as set forth herein, all such communications and documents ("Common Interest Information") shall, until closing, continue to be protected from disclosure to the extent provided by law by all applicable privileges and immunities, including but not limited to the attorney-client privilege, work product privilege, common interest doctrine, fiduciary law principles, joint plaintiffs privilege, the allied lawyer doctrine, deliberative process privilege and settlement negotiation privilege. Notwithstanding the foregoing, SR Water may disclose quantities, location and determination information concerning the subject water rights only as necessary for municipal water planning purposes.

IN WITNESS WHEREOF, the parties hereto have executed this Second Amendment to Purchase and Sale Agreement.

MCCUNE RANCH, LLC,  
a Colorado limited liability company

By:   
Name: Mary Sue Liss, Manager  
Date: 9/17/21

SR WATER, LLC,  
a Colorado limited liability company

By:   
Name: James Morley, Manager  
Date: 9/17/2021

### **THIRD AMENDMENT TO CONTRACT FOR THE PURCHASE NONTRIBUTARY WATER RIGHTS**

THIS Third Amendment to Contract for the Purchase of McCune Ranch Nontributary Water Rights ("Third Amendment") is dated as of the date of mutual execution by Buyer and Seller ("Effective Date"), and is by and between **McCune Ranch, LLC**, a Colorado limited liability company ("Seller"), and **SR Water, LLC**, a Colorado limited liability company ("Buyer").

#### **RECITALS**

A. On September 10, 2017, Seller and Buyer entered into that certain Contract for the Purchase of Nontributary Water Rights, and on August 2, 2019 Seller and Buyer entered into the 1<sup>st</sup> Amendment thereto, and on September 17, 2021 Seller and Buyer entered into the 2<sup>nd</sup> Amendment thereto (collectively the "Purchase Contract") concerning the water rights more particularly described therein (the "McCune Water Rights"). The Purchase Contract and this Third Amendment shall collectively be termed the "Agreement"; and,

B. The Parties, for the good and valuable consideration described herein, wish to extend the closing date under the Agreement.

NOW THEREFORE, in consideration of the promises and mutual covenants set forth herein, and other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

#### **AGREEMENT**

1. All foregoing recitals are incorporated herein by reference.
2. Section 1.1 of the Purchase Contract is hereby replaced in its entirety with the following language:

Purchaser hereby agrees to purchase ("**Purchase**") from Seller and Seller agrees to sell to Purchaser the Water Rights and Easements for the purchase price of \$3,522,000 (the "**Purchase Price**"), which represents a price of \$3,000 per determined nontributary acre foot subject of this Agreement, as described in Ground Water Commission Determination Nos. 1689-BD (Laramie-Fox Hills), 1690-BD (Arapahoe) and 1691-BD (Denver) issued in February of 2020, less 15 annual acre feet (100-year) of Denver aquifer water reserved by Seller and transferred to Winsome, LLC by separate contract. The Closing Date ("**Closing Date**") shall not be later than June 30, 2022, unless otherwise extended consistent with the terms of this Agreement.

3. Should the transaction described in this Agreement fail to close prior to June 30, 2022, unless expressly agreed to the contrary by subsequent agreement signed by the Parties, the Grant of Easements Agreement dated March 31, 2020 shall be null and

void and all easements granted therein shall revert to McCune Ranch, LLC. Seller and Buyer shall cooperate in executing and recording all necessary documents to evidence such reversion.

4. Consideration. In exchange for this extension of the closing deadline, Buyer shall pay to Seller a one time fee, not applicable to the Purchase Price at closing, and non-refundable should Buyer fail to timely close on the Agreement, of Fifty Thousand US Dollars and no/100's (\$50,000.00), due at the time of mutual execution of this 3<sup>rd</sup> Amendment.

5. Confidentiality of Communications and Documents. All past and future written or oral communications among and between the Parties, their employees, Consultants, agents or Counsel, and all documents shared among and between the Parties, their employees, Consultants, agents or Counsel in connection with or relating to the subject water rights shall remain privileged and confidential to the extent provided by law, until closing of the transaction described in this 3<sup>rd</sup> Amendment and the Purchase Contract. Except as set forth herein, all such communications and documents ("Common Interest Information") shall, until closing, continue to be protected from disclosure to the extent provided by law by all applicable privileges and immunities, including but not limited to the attorney-client privilege, work product privilege, common interest doctrine, fiduciary law principles, joint plaintiffs privilege, the allied lawyer doctrine, deliberative process privilege and settlement negotiation privilege. Notwithstanding the foregoing, SR Water may disclose quantities, location and determination information concerning the subject water rights only as necessary for municipal water planning purposes.

IN WITNESS WHEREOF, the parties hereto have executed this Third Amendment to Purchase and Sale Agreement.

MCCUNE RANCH, LLC,  
a Colorado limited liability company

By: Mary Sue Liss  
Name: Mary Sue Liss, Manager  
Date: 3-4-22

SR WATER, LLC,  
a Colorado limited liability company

By: James Morley  
Name: James Morley, Manager  
Date: 4/24/2022

## **FOURTH AMENDMENT TO CONTRACT FOR THE PURCHASE NONTRIBUTARY WATER RIGHTS**

THIS Fourth Amendment to Contract for the Purchase of McCune Ranch Nontributary Water Rights ("Third Amendment") is dated as of the date of mutual execution by Buyer and Seller ("Effective Date"), and is by and between **McCune Ranch, LLC**, a Colorado limited liability company ("Seller"), and **SR Water, LLC**, a Colorado limited liability company ("Buyer").

### **RECITALS**

A. On September 10, 2017, Seller and Buyer entered into that certain Contract for the Purchase of Nontributary Water Rights, and on August 2, 2019 Seller and Buyer entered into the 1<sup>st</sup> Amendment thereto, and on September 17, 2021 Seller and Buyer entered into the 2<sup>nd</sup> Amendment thereto, and on March 4, 2022 Seller and Buyer entered into the 3<sup>rd</sup> Amendment thereto, (collectively the "Purchase Contract") concerning the water rights more particularly described therein (the "McCune Water Rights"). The Purchase Contract and this Fourth Amendment shall collectively be termed the "Agreement"; and,

B. The Parties, for the good and valuable consideration described herein, wish to extend the closing date under the Agreement.

NOW THEREFORE, in consideration of the promises and mutual covenants set forth herein, and other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

### **AGREEMENT**

1. All foregoing recitals are incorporated herein by reference.
2. Section 1.1 of the Purchase Contract is hereby replaced in its entirety with the following language:

Purchaser hereby agrees to purchase ("**Purchase**") from Seller and Seller agrees to sell to Purchaser the Water Rights and Easements for the purchase price of \$3,522,000 (the "**Purchase Price**"), which represents a price of \$3,000 per determined nontributary acre foot subject of this Agreement, as described in Ground Water Commission Determination Nos. 1689-BD (Laramie-Fox Hills), 1690-BD (Arapahoe) and 1691-BD (Denver) issued in February of 2020, less 15 annual acre feet (100-year) of Denver aquifer water reserved by Seller and transferred to Winsome, LLC by separate contract. The Closing Date ("**Closing Date**") shall not be later than August 31, 2022, unless otherwise extended consistent with the terms of this Agreement.

3. Should the transaction described in this Agreement fail to close prior to August 31, 2022, unless expressly agreed to the contrary by subsequent agreement

signed by the Parties or extended by the payment described below, the Grant of Easements Agreement dated March 31, 2020 shall be null and void and all easements granted therein shall revert to McCune Ranch, LLC. Seller and Buyer shall cooperate in executing and recording all necessary documents to evidence such reversion.

4. Consideration. Buyer accepts prior consideration as sufficient to support this extension of the closing deadline; however, should Buyer be unable to close prior to the August 31, 2022 deadline described herein, Buyer shall pay to Seller a one time fee, not applicable to the Purchase Price at closing, and non-refundable, of Fifty Thousand US Dollars and no/100's (\$50,000.00), due on or before August 31, 2022, which will allow closing to be extended only to September 30, 2022. Seller does not anticipate further extension of this Agreement.

5. Confidentiality of Communications and Documents. All past and future written or oral communications among and between the Parties, their employees, Consultants, agents or Counsel, and all documents shared among and between the Parties, their employees, Consultants, agents or Counsel in connection with or relating to the subject water rights shall remain privileged and confidential to the extent provided by law, until closing of the transaction described in this 4<sup>th</sup> Amendment and the Purchase Contract. Except as set forth herein, all such communications and documents ("Common Interest Information") shall, until closing, continue to be protected from disclosure to the extent provided by law by all applicable privileges and immunities, including but not limited to the attorney-client privilege, work product privilege, common interest doctrine, fiduciary law principles, joint plaintiffs privilege, the allied lawyer doctrine, deliberative process privilege and settlement negotiation privilege. Notwithstanding the foregoing, SR Water may disclose quantities, location and determination information concerning the subject water rights only as necessary for municipal water planning purposes.

IN WITNESS WHEREOF, the parties hereto have executed this Third Amendment to Purchase and Sale Agreement.

MCCUNE RANCH, LLC,  
a Colorado limited liability company

By: Mary Sue Liss  
Name: Mary Sue Liss, Manager  
Date: 6/23/22

SR WATER, LLC,  
a Colorado limited liability company

By: \_\_\_\_\_  
Name: James Morley, Manager  
Date: \_\_\_\_\_

signed by the Parties or extended by the payment described below, the Grant of Easements Agreement dated March 31, 2020 shall be null and void and all easements granted therein shall revert to McCune Ranch, LLC. Seller and Buyer shall cooperate in executing and recording all necessary documents to evidence such reversion.

4. Consideration. Buyer accepts prior consideration as sufficient to support this extension of the closing deadline; however, should Buyer be unable to close prior to the August 31, 2022 deadline described herein, Buyer shall pay to Seller a one time fee, not applicable to the Purchase Price at closing, and non-refundable, of Fifty Thousand US Dollars and no/100's (\$50,000.00), due on or before August 31, 2022, which will allow closing to be extended only to September 30, 2022. Seller does not anticipate further extension of this Agreement.

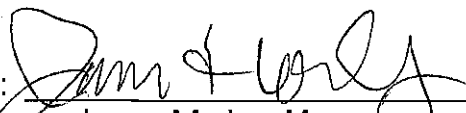
5. Confidentiality of Communications and Documents. All past and future written or oral communications among and between the Parties, their employees, Consultants, agents or Counsel, and all documents shared among and between the Parties, their employees, Consultants, agents or Counsel in connection with or relating to the subject water rights shall remain privileged and confidential to the extent provided by law, until closing of the transaction described in this 4<sup>th</sup> Amendment and the Purchase Contract. Except as set forth herein, all such communications and documents ("Common Interest Information") shall, until closing, continue to be protected from disclosure to the extent provided by law by all applicable privileges and immunities, including but not limited to the attorney-client privilege, work product privilege, common interest doctrine, fiduciary law principles, joint plaintiffs privilege, the allied lawyer doctrine, deliberative process privilege and settlement negotiation privilege. Notwithstanding the foregoing, SR Water may disclose quantities, location and determination information concerning the subject water rights only as necessary for municipal water planning purposes.

IN WITNESS WHEREOF, the parties hereto have executed this Third Amendment to Purchase and Sale Agreement.

MCCUNE RANCH, LLC,  
a Colorado limited liability company

By: \_\_\_\_\_  
Name: Mary Sue Liss, Manager  
Date: \_\_\_\_\_

SR WATER, LLC,  
a Colorado limited liability company

By:   
Name: James Morley, Manager  
Date: 6/21/22

# **EXHIBIT H**

## **CONTRACT FOR THE PURCHASE AND SALE OF WATER RIGHTS**

THIS CONTRACT FOR THE PURCHASE AND SALE OF WATER RIGHTS (this "Contract") between Shamrock Water, LLC, a Colorado limited liability company ("Shamrock" or "Seller"), and the SR Water, LLC, a Colorado limited liability company ("SR Water" or "Buyer") is dated as of the day Seller and Buyer have both signed it, as indicated by their signatures below (the latter of which shall be the "Effective Date").

### **RECITALS**

A. Seller owns the water rights from nontributary and not-nontributary Denver Basin aquifers described on the attached Exhibit A (the "Bar X Water Rights") underlying the property located in El Paso County, Colorado described more particularly on the attached Exhibit B (the "Bar X Land"). Seller has previously sold to SR Water a portion of the nontributary groundwater rights underlying the Bar X Land ("Previously Purchased Water Rights") and the Previously Purchased Water Rights are not included in the Bar X Water Rights as described herein and on the attached Exhibit A.

B. Seller also holds certain easement rights for use in connection with the withdrawal, development and transmission of the Bar X Water Rights which easements are described more particularly on the attached Exhibit C (the "Bar X Easements").

C. Seller also owns the water rights described on the attached Exhibit D (the "Shamrock West Water Rights") underlying the property located in El Paso County, Colorado described more particularly on the attached Exhibit E (the "High Forest Ranch Land"). Seller's Bar X Water Rights, together with the Shamrock West Water Rights, are referred to collectively in this Contract as the "Subject Water Rights".

D. Seller also holds certain easement rights for use in connection with the withdrawal, development and transmission of the Shamrock West Water Rights. These easements were platted as part of the High Forest Ranch Land subdivision proceeding, as well as being decreed by the Division 2 Water Court in the proceedings described in Exhibit D. The "High Forest Ranch Easements", as platted, are depicted on the attached Exhibit F and shall be more particularly described by deed at the time of Closing of this Contract.

E. Seller previously sold to buyer a separate portion of the Bar X Water Rights by prior contract, and such contract included earnest money deposits by Buyer on the Bar X Water Rights subject of this Contract which were forfeit to Seller. Buyer now desires to purchase the Subject Water Rights, the Bar X Easements and the High Forest Ranch Easements, and Seller desires to sell to Buyer such Subject Water Rights under the terms and conditions set forth in this Contract. It is Seller's intent to convey to Buyer any and all of Seller's rights to the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements, all of which are described herein to the best of Seller's knowledge.

F. Buyer intends to assign the purchase of the Subject Water Rights, Bar X Easements and High Forest Ranch Easements, described in this Contract, or to re-sell post purchase, to a municipal entity, the Falcon Area Water and Wastewater Authority ("FAWWA"), or similar. FAWWA intends to construct a regional water distribution system, including the construction of wells and pipelines within the Bar X Land (through the exercise of the Bar X Easements) and the High Forest Ranch Land (through the High Forest Ranch Easements), and one or more pipelines from the Bar X Land and High Forest Ranch Land to the lands that will be provided water service by FAWWA, including the Sterling Ranch development in El Paso County ("Sterling Ranch") and for further distribution of water within the respective service areas of FAWWA's member entities (the "Water Transmission Pipeline").

## AGREEMENT

IN CONSIDERATION of the Recitals and the following valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

### Section 1. PURCHASE AND SALE.

1.1 Purchase and Sale; Purchase Price. Buyer hereby agrees to purchase from Seller and Seller agrees to sell to Buyer the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements (the "Purchase") for the purchase price of Seven Million Seven Hundred and Fifty Thousand Dollars (\$7,750,000.00) (the "Purchase Price").

1.2 Consideration – Extension Deposits. The Parties acknowledge the sufficiency of earnest money previously forfeit to Seller pursuant to prior contracts, in combination with the other good and valuable consideration described herein, and no additional earnest money or deposit is necessary provided this Contract closes prior to August 30, 2022. Should Buyer wish to extend closing beyond August 30, 2022, Buyer shall deposit with Seller for each month of extension of Closing sought, the amount of \$300,000.00 ("Extension Deposits"). Extension Deposits shall be non-refundable, but shall be applied to the Purchase Price at Closing. Buyer may extend Closing through the use of such Extension Deposits for a maximum of four (4) months, to no later than December 31, 2022. Upon Closing, the Extension Deposits shall be applied to the Purchase Price. If Buyer fails to timely pay any Extension Deposit, this Contract shall automatically terminate and neither party shall have any rights or obligations hereunder.

1.3 Closing Date. The Purchase will be closed at the offices of Land Title Guarantee Company located at 1755 Telstar Drive, Colorado Springs, CO 80920, on the earlier of:

- (a) August 30, 2022, at 12:00 PM, Mountain Standard Time, or

(b) another date and time agreed to by the parties, including dates beyond August 30, 2022 pursuant to Extension Deposits described in Paragraph 1.2, above (the "Closing Date").

The failure of Buyer to close on the Purchase on the Closing Date shall be a default of this Contract, and Seller shall be entitled to retain the Deposit as damages.

1.4 Title Insurance. Seller will provide to Buyer a title commitment(s) with respect to the Bar X Easements and the High Forest Ranch Easements to be issued by Land Title Guarantee Company ("Title Company"), within ten (10) days of mutual execution of this Contract. Promptly after the Closing, Seller shall, at Seller's expense, cause the Title Company to issue to Buyer an owner's policy of title insurance insuring title to the interests in the Bar X Easements and High Forest Ranch Easements conveyed to Buyer in the amount of \$500,000.00.

1.5 Deliveries at Closing.

(a) At Closing, Seller shall deliver to Title Company:

i. A special warranty deed conveying to Buyer the Subject Water Rights in a form substantially similar to that attached hereto as Exhibit G.

ii. A special warranty deed conveying to Buyer the Bar X Easements and the High Forest Ranch Easements, so as to allow Buyer rights of ingress and egress to construct, operate and maintain water wells and water transmission/supply pipelines, and any appurtenances thereto, and to withdraw, develop and use the Subject Water Rights. Said special warranty deed shall be in a form substantially similar to that attached hereto as Exhibit H.

iii. An affidavit setting forth its federal tax identification number and a certificate that it is not a "foreign person" with the meaning of the Internal Revenue Code.

iv. A settlement statement and such other affidavits and documents required or requested by the Title Company to consummate the transactions contemplated by this Contract.

(b) At Closing, Buyer shall deliver to Title Company:

i. The balance of the Purchase Price, less the Deposit, and credited and debited with applicable Closing costs.

ii. A settlement statement and such affidavits and documents required or requested by the Title Company to consummate the transactions contemplated by this Contract.

(c) Title Company shall disburse funds in accordance with the settlement statements. Each party agrees to execute and deliver such additional documents as are customary in such transactions or may be reasonably requested by the other party or the Title Company.

(d) Closing Costs. Costs to record all closing documents to be recorded in the office of the Clerk and Recorder for El Paso County, including documentary fees, shall be paid for by the Buyer. The closing fees charged by Title Company, shall be shared equally by Seller and Buyer. All other closing costs shall be paid by the parties in accordance with the local prevailing custom for transactions of this kind in El Paso County, Colorado.

(e) All payments required to be made under this Contract shall be by direct wire transfer of immediately available U.S. funds.

#### 1.6 Conditions to Closing.

(a) Buyer's Conditions. Buyer's obligations under this Contract to purchase the Bar X Nontributary Water Rights are subject to the following conditions precedent, which must be satisfied or waived on or before Closing:

i. Representations by Seller. The representations and warranties made by Seller in this Contract must be true and correct as of the Closing.

ii. Compliance by Seller. Seller shall have complied with the terms and conditions of this Contract in all material respects.

iii. No Material Change. Title to the Subject Water Rights, Bar X Easements and High Forest Ranch Easements shall be subject to no matters other than the Permitted Exceptions.

(b) Seller's Conditions. Seller's obligations under this Contract to sell the Bar X Nontributary Water Rights are the subject to the following conditions precedent, which must be satisfied or waived on or before Closing:-

i. Representations by Buyer. The representations and warranties made by Buyer in this Contract must be true and correct as of the Closing.

ii. Compliance by Buyer. Buyer shall have complied with the terms and conditions of this Contract in all material respects.

(c) Failure of Conditions Precedent; Cancellation. If any of the foregoing conditions precedent to Closing has not been satisfied by the Closing Date, the party benefited by the failed condition may elect, at its option and by notice to the other party, to (i) cancel this Contract, in which case neither party shall have any further rights or obligations under the Contract; or (ii) waive the conditions and proceed to Closing, and (iii) in the event of a default by the other party, pursue any remedies

available for the default under this Contract, at law or in equity. The parties agree that notwithstanding the failure of any conditions precedent, Seller shall be entitled to retain the Deposit as consideration for entering into the Contract.

## Section 2. TITLE.

2.1. Title to the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements shall be marketable and shall be free and clear of all liens and encumbrances, subject in both instances only to:

(a) Any exceptions shown on a title commitment for the Bar X Easements and High Forest Ranch Easements that do not impair the use of the Subject Water Rights, or the Bar X Easements, or the High Forest Ranch Easements, for their allowed uses; and

(b) Any defects or encumbrances created by Buyer, at the instance of Seller, or with Seller's consent.

The foregoing title exceptions are hereinafter called the "Permitted Exceptions".

## Section 3. BUYER'S ACCESS TO BAR X LAND and HIGH FOREST RANCH LAND for DUE DILIGENCE.

3.1 Buyer's Access to Bar X Land and High Forest Ranch Land. Seller grants permission to Buyer, its agents and/or employees, from and after the Effective Date, and subject to the provisions of this Section 3.1, to exercise the access rights under the Bar X Easements to enter upon the Bar X Land, and to exercise the access rights under the High Forest Ranch Easements to enter upon the High Forest Ranch Land, for purposes of making surveys, engineering studies, soil tests, water tests, obtaining topographical information and for other similar preliminary work in connection with the proposed withdrawal, use and transmission of the Subject Water Rights. Buyer hereby agrees to hold Seller harmless from any mechanic's liens which might be filed against the Bar X Land or the High Forest Ranch Land by reason of the performance of any of the acts herein mentioned, and from any and all claims, demands, losses, costs, expenses or liabilities resulting from the performance of any of the acts herein mentioned, including reasonable attorneys' fees incurred by Seller. Prior to any entry by Buyer, its agents and employees on to the Bar X Land and/or High Forest Ranch Land, Buyer shall, at its sole cost and expense, obtain a policy of public liability insurance, in connection with Buyer's activities on the Bar X Land and/or High Forest Ranch Land, from an insurer reasonably acceptable to Seller and in form and content reasonably acceptable to Seller, in an amount of not less than One Million Dollars (\$1,000,000.00), naming Seller as an additional insured party, which policy shall be maintained by Buyer, at its sole cost and expense, in full force and effect until the last Closing to occur hereunder or the termination of this Contract, as the case may be.

3.2 Other Investigations. Previously, Seller delivered to representatives of Buyer copies of any and all water court decrees, agreements, engineering reports, the Bar X Easements, the High Forest Ranch Easements, and other documents in its possession relating to or concerning the Subject Water Rights, Bar X Easements, and High Forest Ranch Easements. Buyer, at its expense, shall have the option to retain a water resources engineer and/or attorney to examine the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements, including any documents received from Seller. Buyer may also perform such further due diligence investigations concerning the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements, and the withdrawal, use and transmission of the Subject Water Rights and exercise of rights under the Bar X Easements and High Forest Ranch Easements as it deems appropriate. Seller shall cooperate in such investigations; provided, however, that Seller shall not be required to bear any more than nominal expense in so doing.

#### Section 4. REPRESENTATIONS AND WARRANTIES.

4.1 Representations, Warranties and Covenants of Seller. Seller hereby represents, warrants and covenants to Buyer that, as of the date hereof and the date of each Closing:

(a) Authority. The execution and delivery by Seller of this Contract are within Seller's powers and have been duly authorized by all requisite organizational actions. The person executing this Contract on behalf of Seller has the authority to do so. This Contract is a legal, valid and binding obligation of Seller, enforceable in accordance with its terms.

(b) Title. Seller holds good and marketable title to the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements, free and clear of all liens and encumbrances except the Permitted Encumbrances. During the term of this Contract, Seller will not enter into any agreement or suffer any lien with respect to the Subject Water Rights, Bar X Easements, or High Forest Ranch Easements.

(c) Litigation. To the knowledge of Seller, there is no pending or threatened litigation affecting the Subject Water Rights, Bar X Easements, and High Forest Ranch Easements.

(d) Governmental Notices. Seller has not received any notices or directives from any governmental entities with jurisdiction over the Subject Water Rights, Bar X Easements, and High Forest Ranch Easements claiming that any current use of or current condition with the Subject Water Rights, Bar X Easements and/or High Forest Ranch Easements violates any federal, state, or local laws or regulations.

(e) No Other Warranties. Other than the foregoing representations, warranties and covenants, no representations and warranties have been made by Seller or anyone on its behalf to the Buyer as to the condition of the Subject Water Rights, Bar

X Easements, or High Forest Ranch Easements, and it is understood and agreed that the same are sold "as is" at the time of each Closing.

4.2 Representations, Warranties and Covenants of Buyer. Buyer hereby represents, warrants and covenants to Seller that, as of the date hereof and the date of each Closing:

(a) Authority. The execution and delivery by Buyer of this Contract are within Buyer's powers and have been duly authorized by all requisite organizational actions. The person executing this Contract on behalf of Buyer has the authority to do so. This Contract is a legal, valid and binding obligation of Seller, enforceable in accordance with its terms.

4.3 Seller's Disclaimers. Seller makes no warranty or representation regarding the physical yield and quality of the Subject Water Rights or that the Subject Water Rights are fit for the purposes for their intended use by Buyer.

## Section 5. DEFAULT; REMEDIES.

5.1 Default. Time is of the essence hereof, and if any payment or any other condition is not made, tendered or performed as herein provided, there shall be the following remedies:

(a) Breach by Buyer. In the event of any breach by Buyer of its obligation to purchase the Subject Water Rights, Seller will give Buyer written notice of Buyer's default. If Buyer fails to cure the default within ten (10) days after Seller's notice, Seller shall be entitled terminate this Contract, retain the Deposit, and may also avail itself to all remedies normally available therefor, at law or in equity, including the remedy of specific performance, and continue to enforce the obligations of Buyer that are intended to survive the termination of this Contract.

(b) Breach by Seller. In the event of a breach by Seller to sell the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements, Buyer will give Seller written notice of Seller's default. If Seller fails to cure the default within ten (10) days after Buyer's notice Buyer may, at its election, treat this Contract as terminated, and the Deposit shall be returned to Buyer; provided, however, that Buyer may, at its election, treat this Contract as being in full force and effect with the right to an action for specific performance, damages or both.

## Section 6. NO ENCUMBRANCE OF BUYER'S CONTRACT INTEREST.

6.1 Buyer shall not grant a security interest in or a collateral assignment of, or otherwise encumber: its rights in, obligations under or interest in this Contract. Any purported grant of such a security interest, collateral assignment or encumbrance shall be void *ab initio* and shall constitute a default under this Contract.

## Section 7. MISCELLANEOUS.

7.1 Replacement of Prior Contracts. All prior contractual commitments between Seller and SR Water, LLC concerning the Subject Water Rights, the Bar X Easements and/or the High Forest Ranch Easements, including that "Water Wells and Pipelines Easement and Sharing Agreement" dated September 17, 2014, are hereby expressly terminated by the Parties, and shall no longer be of any force or effect.

7.2 Effect of Headings. The subject headings of paragraphs and subparagraphs of this Contract are included for purposes of convenience only, and shall not affect the construction or interpretation of any of its provisions.

7.3 Entire Contract; Survival of Contract; Construction. This Contract constitutes the entire agreement between the parties hereto and supersedes all prior and contemporaneous agreements, representations and understandings of the parties regarding the subject matter of this Contract. No supplement, modification or amendment of this Contract shall be binding unless executed in writing by the parties hereto. Both parties participated in the preparation of this Contract and consequently any rule of construction construing any provision against the drafter shall not be applicable.

7.4 Counterparts. This Contract may be executed in one or more counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument.

7.5 Assignment. Buyer may assign its interest in this Contract to FAWWA without prior written approval of Seller. Buyer may assign its interest in this Contract to any other entity or person only with the express written approval of Seller, which shall not be unreasonably withheld.

7.6 Notices. All notices and other communications under this Contract shall be in writing and shall be given either personally or by an overnight courier service (which obtains a receipt evidencing delivery) and shall be addressed as follows:

To Buyer: SR Water, LLC  
20 Boulder Crescent, Suite 200  
Colorado Springs, Colorado 80915

To Seller: Shamrock Water, LLC  
1826 North Loop 1604 West, Suite 200  
San Antonio, Texas 78212

A party may change its addresses for purposes of receiving notice by providing the other party with notice of its new address.

7.7 Governing Law. This Contract shall be construed in accordance with the laws of the State of Colorado, and venue shall be proper in the District Court for El Paso County, Colorado.

7.8 Prohibition Against Recording. This Contract shall not be recorded without the prior written consent of the Seller. If it is recorded without such prior written consent, this Contract shall terminate, and such recording shall constitute notice to all third parties that this Contract has been terminated and the Buyer has no right, title, claim, or interest in the Lots.

7.9 Recovery of Litigation Costs. If any legal action or proceeding is brought for the enforcement of this Contract, or because of an alleged dispute, breach, default, or misrepresentation in connection with any of the provisions of this Contract, the successful or prevailing party shall be entitled to recover attorneys' fees and other costs incurred in that action or proceeding, in addition to any other relief to which it or they may be entitled. As used herein, "attorneys' fees" shall mean the full and actual costs of any legal services actually rendered in connection with the matters involved, calculated on the basis of the usual fee charged by the attorneys performing such services and shall not be limited to "reasonable fees" as defined by any statute, case law or rule of court. The parties intend that in addition to all other legal and equitable remedies available, injunctive relief and the remedy of specific performance may be utilized in the event of the breach or threatened breach of this Contract.

7.10 Further Assurances. Each of the parties hereto undertakes and agrees to execute and deliver such documents, writings, and further assurances as may be required to carry out the intent and purpose of this Contract.

7.11 Dates. If any date set forth in this Contract for the delivery of a document or occurrence of any event (such as closings and payment hereunder) should, under the terms hereof, fall on a weekend or holiday, then such date shall automatically be extended to the next succeeding weekday that is not a holiday.

7.12 Recording of Memorandum. The parties may execute and record a memorandum of this Contract to put third parties on notice of Buyer's interest in the Subject Water Rights, Bar X Easements and High Forest Ranch Easements. In the event this Contract terminates, Buyer grants permission to Seller to record on behalf of both parties a memorandum notifying third parties of such termination.

*(remainder of page intentionally blank, signatures follow)*

7.8 Prohibition Against Recording. This Contract shall not be recorded without the prior written consent of the Seller. If it is recorded without such prior written consent, this Contract shall terminate, and such recording shall constitute notice to all third parties that this Contract has been terminated and the Buyer has no right, title, claim, or interest in the Lots.

7.9 Recovery of Litigation Costs. If any legal action or proceeding is brought for the enforcement of this Contract, or because of an alleged dispute, breach, default, or misrepresentation in connection with any of the provisions of this Contract, the successful or prevailing party shall be entitled to recover attorneys' fees and other costs incurred in that action or proceeding, in addition to any other relief to which it or they may be entitled. As used herein, "attorneys' fees" shall mean the full and actual costs of any legal services actually rendered in connection with the matters involved, calculated on the basis of the usual fee charged by the attorneys performing such services and shall not be limited to "reasonable fees" as defined by any statute, case law or rule of court. The parties intend that in addition to all other legal and equitable remedies available, injunctive relief and the remedy of specific performance may be utilized in the event of the breach or threatened breach of this Contract.

7.10 Further Assurances. Each of the parties hereto undertakes and agrees to execute and deliver such documents, writings, and further assurances as may be required to carry out the intent and purpose of this Contract.

7.11 Dates. If any date set forth in this Contract for the delivery of a document or occurrence of any event (such as closings and payment hereunder) should, under the terms hereof, fall on a weekend or holiday, then such date shall automatically be extended to the next succeeding weekday that is not a holiday.

7.12 Recording of Memorandum. The parties may execute and record a memorandum of this Contract to put third parties on notice of Buyer's interest in the Subject Water Rights, Bar X Easements and High Forest Ranch Easements. In the event this Contract terminates, Buyer grants permission to Seller to record on behalf of both parties a memorandum notifying third parties of such termination.

*(remainder of page intentionally blank, signatures follow)*

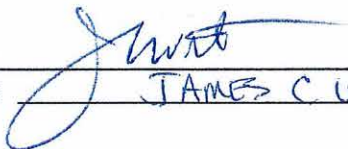
IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

SELLER:

SHAMROCK WATER, LLC, a Colorado limited liability company

By: \_\_\_\_\_

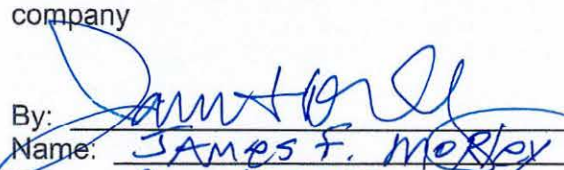
Name: \_\_\_\_\_

  
JAMES C. WORTH

Title: MANAGER  
Date: JUNE 19, 2022

BUYER:

SR WATER, LLC, a Colorado limited liability  
company

By:   
Name: JAMES F. MORLEY  
Title: MANAGER  
Date: 6/20/22

**Exhibit A**  
**Bar X Water Rights**

The "Bar-X Water Rights" are defined as all of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying all or a portion of the Bar-X Property, described more particularly on the attached Exhibit B, that were decreed by and are subject to the terms and conditions set forth in the Amended Ruling and Decree of the Water Court, Water Division No. 1, Case No. 93-CW-018 (85-CW-445) entered on March 17, 1995, amending the decree entered in Case No. 85-CW-445, Water Division No. 1 on December 31, 1985. Said Bar-X Water Rights are comprised of the following decreed average annual amounts of withdrawal of nontributary groundwater from the following Denver Basin aquifers:

Dawson – 1,288 acre-feet

Denver – 1,199 acre-feet

Arapahoe – 742.5 acre-feet

together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions, said groundwater rights being subject to the retained jurisdiction of the Water Court pursuant to the terms of said decree.

**Exhibit B**  
**Bar X Land**

A parcel of land located in Township 11 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

All of Section 16; the E1/2 of the SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 of the W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21.

**Exhibit C**  
**Bar X Easements**

Declaration of Establishment of Water Rights Easements, recorded at Reception No. 097024427 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Water Site, Water Storage Tank and Water Transmission Line Agreement, recorded at Reception No. 097024428 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Water Rights Special Warranty Deed, recorded at Reception No. 097025568 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Amended and Restated Declaration Creating Covenants, Conditions and Easements for Highland Estates, recorded at Book 6623, Page 1310 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Second Amended and Restated Declaration Creating Conditions, Covenants and Restrictions for Highland Estates, recorded at Reception No. 201087557 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Well Field Easement, recorded at Book 6487, Page 1183, Reception No. 094097789 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Easement, recorded at Book 6487, Page 1190, Reception No. 094097790 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Easement, recorded at Book 6203, Page 1085, Reception No. 002314866 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Easement, recorded at Book 4224, Page 523, Reception No. 002328991 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Well Field Easement, recorded at Book 6224, Page 529, Reception No. 002328892 in the Office of the Clerk and Recorder of El Paso County, Colorado.

## **Exhibit D**

### **Shamrock West Water Rights**

The "Shamrock West Water Rights" are defined as all of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying all or a portion of the High Forest Ranch Land, described more particularly on the attached Exhibit E, that were decreed by and are subject to the terms and conditions set forth in the Ruling and Decree of the Water Court, Water Division No. 2, Case No. 85-CW-131(B) entered on March 8, 1996, amending the decree entered in Case No. 85-CW-131, Water Division No. 2 on December 31, 1985. Said Shamrock West Water Rights are comprised of the following decreed average annual amounts of withdrawal of nontributary groundwater and not nontributary groundwater from the following Denver Basin aquifers:

Dawson (not nontributary) – 498 acre-feet  
Denver (nontributary) – 187 acre-feet  
Denver (not nontributary) – 1057 acre-feet  
Arapahoe (nontributary) – 474 acre-feet  
Arapahoe (not nontributary) – 25 acre-feet

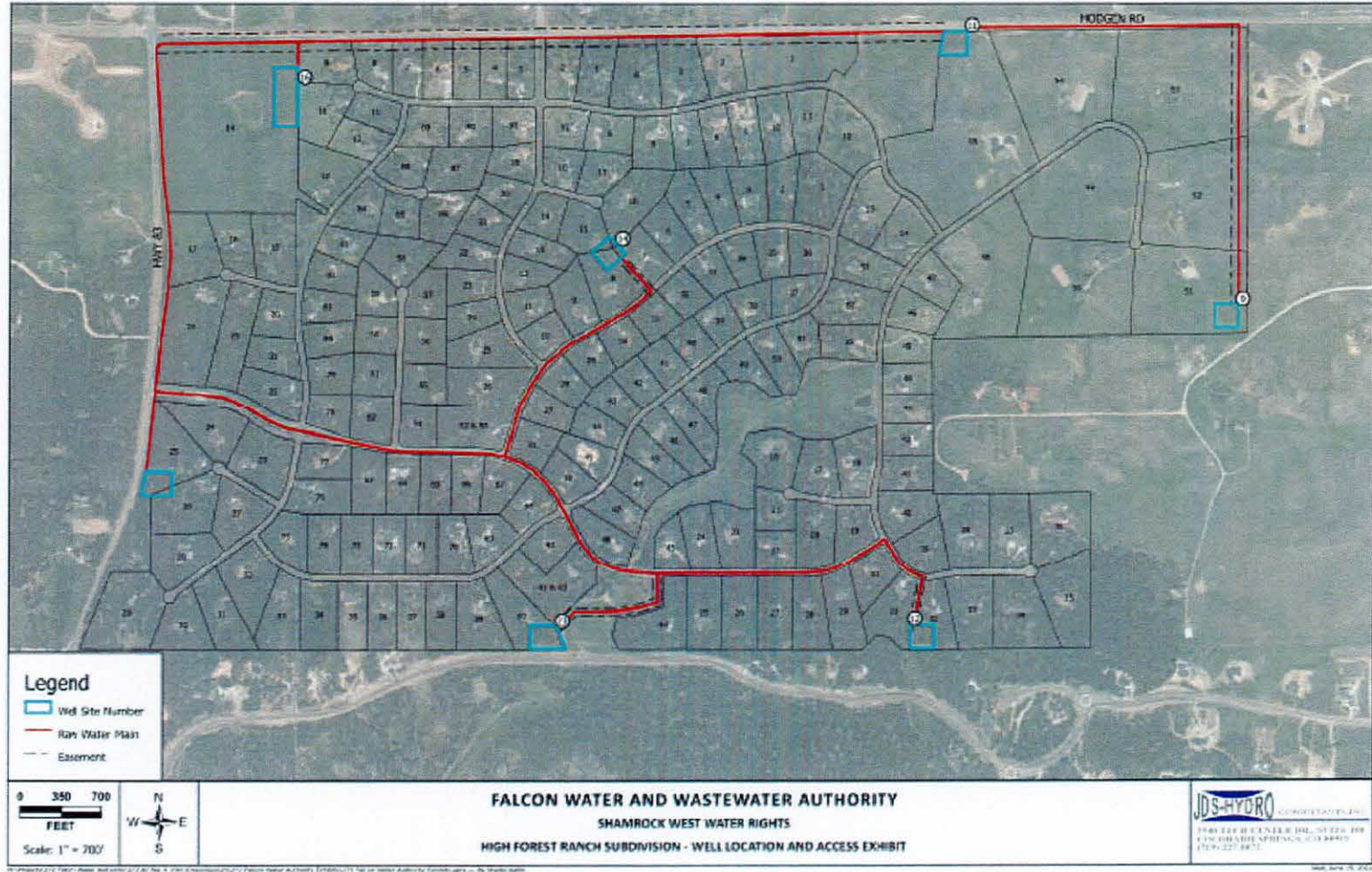
together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions, said groundwater rights being subject to the retained jurisdiction of the Water Court pursuant to the terms of said decree.

**Exhibit E**  
**High Forest Ranch Land**

A parcel of land located in Township 11 South, Range 66 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

The following portion of Section 25: The NW 1/4 and the SW1/4 of the SW1/4; All of Section 26; The following portion of Section 27: that part of the E1/2 of the E1/2 and of the W1/2 of the SE1/4 of the SW1/4 of the SE1/4 lying East of Colorado State Highway 83; The E1/2 of the SE1/4 of the SW1/4 of the SE1/4 and that part of the SE1/4 of the NW1/4 of the SE1/4 lying East of Colorado State Highway 83; The following portion of Section 34: The E1/2 of the E1/2 and that part of the E1/2 of the W1/2 of the E1/2 and of the E1/2 of the SW1/4 and of the W1/2 of the W1/2 of the SE1/4 lying East of the center line of the road described in deed recorded in Book 781 at Page 87 in the office of the clerk and recorder of El Paso County, Colorado.

# Exhibit F High Forest Ranch Easements



**Exhibit G**  
**Form Special Warranty Deed – Subject Water Rights**

**SPECIAL WARRANTY DEED**  
(Water Rights)

THIS DEED, made this \_\_\_\_ day of \_\_\_\_\_, 2022, between **Shamrock Water, LLC**, a \_\_\_\_\_ limited liability company ("Grantor"), and **SR Water, LLC**, a Colorado limited liability company ("Grantee"), whose address is 20 Boulder Crescent, Colorado Springs, Colorado 80903.

WITNESS, that the Grantor, for and in consideration of the sum of ten dollars and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, has remised, released, sold, and conveyed and quitclaimed, and by these presents does remise, release, sell, convey and quitclaim unto the Grantee, his heirs and assigns forever, all right, title and interest in and to the following described water and water rights located in the County of El Paso, State of Colorado:

All of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying all or a portion of the real property described more particularly on Attachment A, that were decreed by and are subject to the terms and conditions set forth in the Amended Ruling and Decree of the Water Court, Water Division No. 1, Case No. 93CW018 (85CW445) entered on March 17, 1995, amending the decree entered in Case No. 85CW445, Water Division No. 1 on December 31, 1985, including, but not limited to the following decreed average annual amounts of withdrawal of nontributary groundwater from the following Denver Basin aquifers: (a) not-nontributary Dawson aquifer – 1,288 acre-feet; (b) nontributary Denver aquifer, 1,199 acre-feet; and, (c) nontributary Arapahoe aquifer – 742.5 acre-feet; together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions. Such groundwater rights are subject to the retained jurisdiction of the Water Court pursuant to the terms of the 93CW018 and 85CW445 decrees, and include all licenses, permits, certificates, contracts and decrees evidencing such water and water rights, and all wells and fixtures relating thereto, along with all replacements, substitutions, accessions thereto and proceeds deriving therefrom; along with,

All of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying all or a portion of the real property described more particularly on Attachment B, that were decreed by and are subject to the terms and conditions set forth in the Ruling and Decree of the Water Court, Water Division No. 2, Case No. 85CW131(B) entered on March 8, 1996, amending the decree entered in Case No. 85CW131, Water Division No. 2 on December 31, 1985. Said Denver Basin groundwater rights include, but are not limited to, the following decreed average annual amounts of withdrawal of nontributary groundwater and not nontributary groundwater from the following

Denver Basin aquifers: (d) not-nontributary Dawson aquifer – 498 acre-feet; (b) not-nontributary Denver aquifer – 1,057 (c) not-nontributary Arapahoe aquifer – 25 acre-feet; (d) nontributary Denver aquifer – 187 acre-feet; and, (e) nontributary Arapahoe aquifer – 474 acre-feet; together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions, said groundwater rights being subject to the retained jurisdiction of the Water Court pursuant to the terms of said decree. Such groundwater rights are subject to the retained jurisdiction of the Water Court pursuant to the terms of the 85CW131(b) decree, and include all licenses, permits, certificates, contracts and decrees evidencing such water and water rights, and all wells and fixtures relating thereto, along with all replacements, substitutions, accessions thereto and proceeds deriving therefrom.

TOGETHER, with all the hereditaments and appurtenances thereunto belonging, or in anywise appertaining, the reversions, remainders, rents, issues, and profits thereof, and all the estate, right, title, interest, claim, and demand whatsoever of the Grantor, either in law or equity, in and to the above bargained premises;

TO HAVE AND TO HOLD the rights to divert, apply, extract and use the water and groundwater rights above bargained and described, with the appurtenances, unto the Grantee and assigns forever. The Grantor, for himself and his successors and assigns, does hereby covenant and agree that Grantor shall and will WARRANT AND FOREVER DEFEND the above bargained premises in the quiet and peaceable possession of the Grantee, his successors and assigns, against all and every person or persons claiming the whole or any part thereof, by, through or under the Grantor.

IN WITNESS WHEREOF, the Grantor has executed this Special Warranty Deed on the date set forth above.

\_\_\_\_\_, as \_\_\_\_\_  
Of Shamrock Water, LLC, a \_\_\_\_\_ limited  
liability company

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

The foregoing instrument was acknowledged before me this \_\_\_\_ day of \_\_\_\_\_, 2022, by \_\_\_\_\_, as the \_\_\_\_\_ of Shamrock Water, LLC, a \_\_\_\_\_ limited liability company.

Witness my hand and official seal.

My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

ATTACHMENT A  
Legal Description of Land

A parcel of land located in Township 11 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

All of Section 16; the E1/2 of the SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 of the W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21.

ATTACHMENT B  
Legal Description of Land

A parcel of land located in Township 11 South, Range 66 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

The following portion of Section 25: The NW 1/4 and the SW1/4 of the SW1/4; All of Section 26; The following portion of Section 27: that part of the E1/2 of the E1/2 and of the W1/2 of the SE1/4 of the SW1/4 of the SE1/4 lying East of Colorado State Highway 83; The E1/2 of the SE1/4 of the SW1/4 of the SE1/4 and that part of the SE1/4 of the NW1/4 of the SE1/4 lying East of Colorado State Highway 83; The following portion of Section 34: The E1/2 of the E1/2 and that part of the E1/2 of the W1/2 of the E1/2 and of the E1/2 of the SW1/4 and of the W1/2 of the W1/2 of the SE1/4 lying East of the center line of the road described in deed recorded in Book 781 at Page 87 in the office of the clerk and recorder of El Paso County, Colorado.

**Exhibit H**  
**Form Special Warranty Deed – Bar X Easements**  
**and High Forest Ranch Easements**

**SPECIAL WARRANTY DEED**  
(Easements)

THIS DEED, made this \_\_\_\_ day of \_\_\_\_\_, 2022, between **Shamrock Water, LLC**, a Colorado limited liability company ("Grantor"), and **SR Water, LLC**, a Colorado limited liability company ("Grantee"), whose address is 20 Boulder Crescent, Colorado Springs, Colorado 80903.

WITNESS, that the Grantor, for and in consideration of the sum of ten dollars and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, has remised, released, sold, and conveyed and quitclaimed, and by these presents does remise, release, sell, convey and quitclaim unto the Grantee, his heirs and assigns forever, all right, title and interest in and to the following described property located in the County of El Paso, State of Colorado:

All of Seller's right, title and interest in and to those easements encumbering the real property described more particularly on Attachment A, that were decreed by and are subject to the terms and conditions set forth in the Amended Ruling and Decree of the Water Court, Water Division No. 1, Case No. 93CW018 (85CW445) entered on March 17, 1995, amending the decree entered in Case No. 85CW445, Water Division No. 1 on December 31, 1985, and further subject to recorded plats in El Paso County, Colorado associated with the Bar X Subdivision, as recorded at Reception Nos. \_\_\_\_\_, as more particularly described on Attachment C, hereto, and depicted on Attachment D, as incorporated herein; along with,

All of Seller's right, title and interest in and to those easements encumbering the real property described more particularly on Attachment B, that may be subject to the terms and conditions set forth in the Ruling and Decree of the Water Court, Water Division No. 2, Case No. 85CW131(B) entered on March 8, 1996, amending the decree entered in Case No. 85CW131, Water Division No. 2 on December 31, 1985, and further subject to recorded plats in El Paso County, Colorado associated with the High Forest Ranch Subdivision, as recorded at Reception Nos. \_\_\_\_\_, as more particularly described on Attachment E, hereto, and depicted on Attachment F, as incorporated herein.

TOGETHER, with all the hereditaments and appurtenances thereunto belonging, or in anywise appertaining, the reversions, remainders, rents, issues, and profits thereof, and all the estate, right, title, interest, claim, and demand whatsoever of the Grantor, either in law or equity, in and to the above bargained premises;

TO HAVE AND TO HOLD the rights to divert, apply, extract and use the water and groundwater rights above bargained and described, with the appurtenances, unto the Grantee and assigns forever. The Grantor, for himself and his successors and assigns, does hereby covenant and agree that Grantor shall and will WARRANT AND FOREVER DEFEND the above



ATTACHMENT A  
Legal Description of Land

A parcel of land located in Township 11 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

All of Section 16; the E1/2 of the SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 of the W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21.

ATTACHMENT B  
Legal Description of Land

A parcel of land located in Township 11 South, Range 66 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

The following portion of Section 25: The NW 1/4 and the SW1/4 of the SW1/4; All of Section 26; The following portion of Section 27: that part of the E1/2 of the E1/2 and of the W1/2 of the SE1/4 of the SW1/4 of the SE1/4 lying East of Colorado State Highway 83; The E1/2 of the SE1/4 of the SW1/4 of the SE1/4 and that part of the SE1/4 of the NW1/4 of the SE1/4 lying East of Colorado State Highway 83; The following portion of Section 34: The E1/2 of the E1/2 and that part of the E1/2 of the W1/2 of the E1/2 and of the E1/2 of the SW1/4 and of the W1/2 of the W1/2 of the SE1/4 lying East of the center line of the road described in deed recorded in Book 781 at Page 87 in the office of the clerk and recorder of El Paso County, Colorado.

ATTACHMENT C  
**Bar X Easements**

Declaration of Establishment of Water Rights Easements, recorded at Reception No. 097024427 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Water Site, Water Storage Tank and Water Transmission Line Agreement, recorded at Reception No. 097024428 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Water Rights Special Warranty Deed, recorded at Reception No. 097025568 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Amended and Restated Declaration Creating Covenants, Conditions and Easements for Highland Estates, recorded at Book 6623, Page 1310 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Second Amended and Restated Declaration Creating Conditions, Covenants and Restrictions for Highland Estates, recorded at Reception No. 201087557 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Well Field Easement, recorded at Book 6487, Page 1183, Reception No. 094097789 in the Office of the Clerk and Recorder of El Paso County, Colorado.

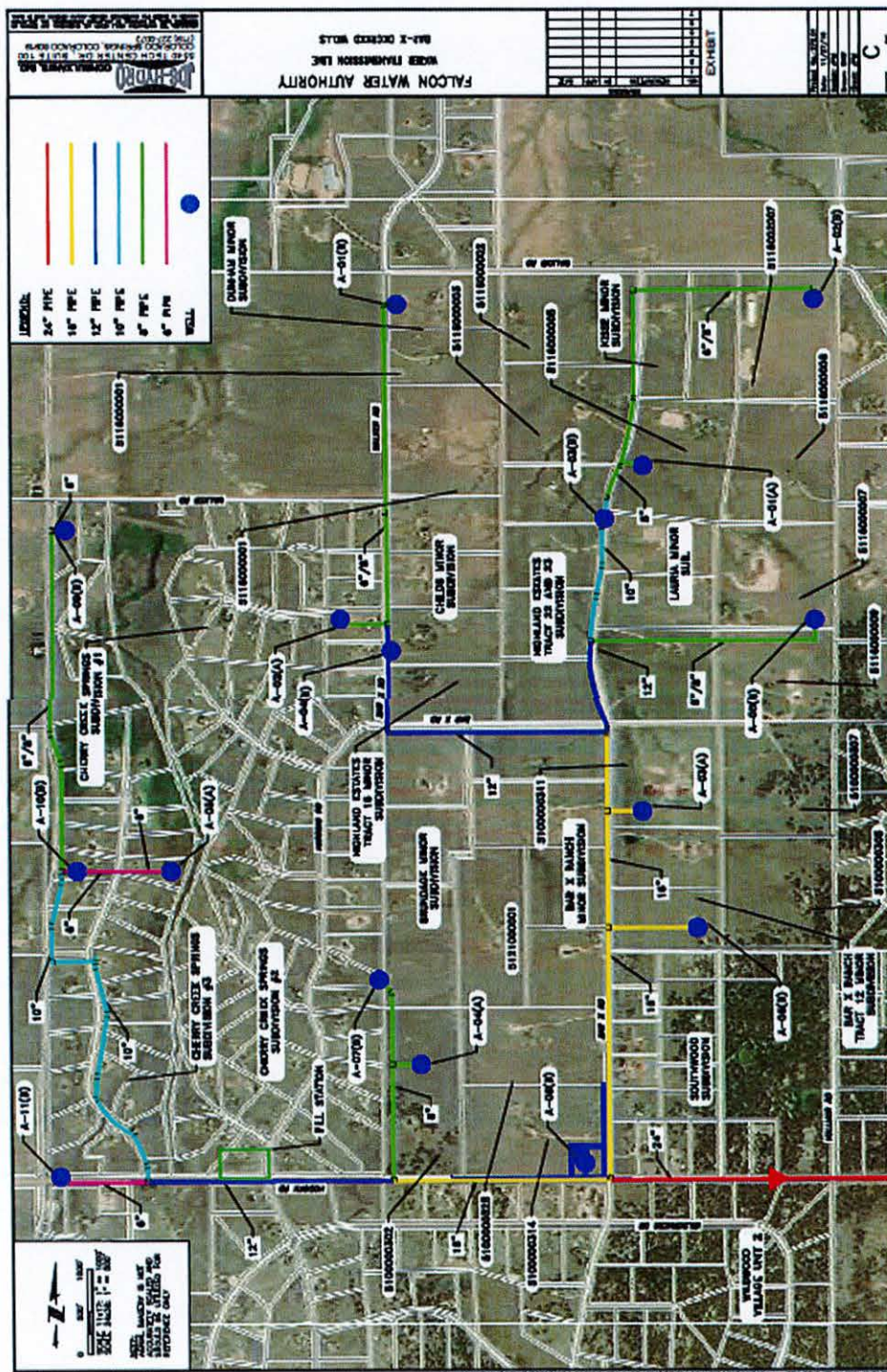
Easement, recorded at Book 6487, Page 1190, Reception No. 094097790 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Easement, recorded at Book 6203, Page 1085, Reception No. 002314866 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Easement, recorded at Book 4224, Page 523, Reception No. 002328991 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Well Field Easement, recorded at Book 6224, Page 529, Reception No. 002328892 in the Office of the Clerk and Recorder of El Paso County, Colorado.

### Bar X Easements Map



ATTACHMENT E  
**Shamrock West Easements**



**State Documentary Fee**Date 9-7-2022\$ 775.00**SPECIAL WARRANTY DEED**  
(Water Rights)

THIS DEED, made this 7<sup>th</sup> day of September, 2022, between **Shamrock Water, LLC**, a Colorado limited liability company ("Grantor"), and **Falcon Area Water & Wastewater Authority**, a public corporation and political subdivision of the State of Colorado ("Grantee"), whose address is c/o Spencer Fane LLP, 1700 Lincoln Street, Suite 2000, Denver, CO 80203.

WITNESS, that the Grantor, for and in consideration of the sum of ten dollars and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, has remised, released, sold, and conveyed and quitclaimed, and by these presents does remise, release, sell, convey and quitclaim unto the Grantee, his heirs and assigns forever, all right, title and interest in and to the following described water and water rights located in the County of El Paso, State of Colorado:

All of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying all or a portion of the real property described more particularly on Attachment A, that were decreed by and are subject to the terms and conditions set forth in the Amended Ruling and Decree of the Water Court, Water Division No. 1, Case No. 93CW018 (85CW445) entered on March 17, 1995, amending the decree entered in Case No. 85CW445, Water Division No. 1 on December 31, 1985, including, but not limited to the following decreed average annual amounts of withdrawal of nontributary groundwater from the following Denver Basin aquifers: (a) not-nontributary Dawson aquifer – 1,288 acre-feet; (b) nontributary Denver aquifer, 1,199 acre-feet; and, (c) nontributary Arapahoe aquifer – 742.5 acre-feet; together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions. Such groundwater rights are subject to the retained jurisdiction of the Water Court pursuant to the terms of the 93CW018 and 85CW445 decrees, and include all licenses, permits, certificates, contracts and decrees evidencing such water and water rights, and all wells and fixtures relating thereto, along with all replacements, substitutions, accessions thereto and proceeds deriving therefrom; along with,

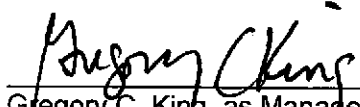
All of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying all or a portion of the real property described more particularly on Attachment B, that were decreed by and are subject to the terms and conditions set forth in the Ruling and Decree of the Water Court, Water Division No. 2, Case No. 85CW131(B) entered on March 8, 1996, amending the decree entered in Case No. 85CW131, Water Division No. 2 on December 31, 1985. Said Denver Basin groundwater rights include, but are not limited to, the following decreed average annual amounts of withdrawal of nontributary groundwater and not nontributary groundwater from the following Denver Basin aquifers: (d) not-nontributary Dawson aquifer – 498 acre-feet; (b) not-nontributary Denver aquifer – 1,057 (c) not-nontributary Arapahoe aquifer – 25 acre-feet; (d) nontributary Denver aquifer – 187 acre-feet; and, (e) nontributary Arapahoe aquifer – 474 acre-feet; together with all of Seller's share of any

"banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions, said groundwater rights being subject to the retained jurisdiction of the Water Court pursuant to the terms of said decree. Such groundwater rights are subject to the retained jurisdiction of the Water Court pursuant to the terms of the 85CW131(b) decree, and include all licenses, permits, certificates, contracts and decrees evidencing such water and water rights, and all wells and fixtures relating thereto, along with all replacements, substitutions, accessions thereto and proceeds deriving therefrom.

TOGETHER, with all the hereditaments and appurtenances thereunto belonging, or in anywise appertaining, the reversions, remainders, rents, issues, and profits thereof, and all the estate, right, title, interest, claim, and demand whatsoever of the Grantor, either in law or equity, in and to the above bargained premises;

TO HAVE AND TO HOLD the rights to divert, apply, extract and use the water and groundwater rights above bargained and described, with the appurtenances, unto the Grantee and assigns forever. The Grantor, for himself and his successors and assigns, does hereby covenant and agree that Grantor shall and will WARRANT AND FOREVER DEFEND the above bargained premises in the quiet and peaceable possession of the Grantee, his successors and assigns, against all and every person or persons claiming the whole or any part thereof, by, through or under the Grantor.

IN WITNESS WHEREOF, the Grantor has executed this Special Warranty Deed on the date set forth above.

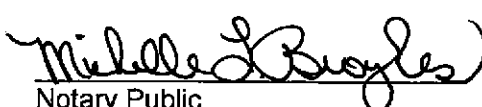
  
 Gregory C. King, as Manager  
 of Shamrock Water, LLC,  
 a Colorado limited liability company

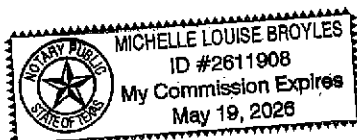
STATE OF Texas )  
 ) ss.  
 COUNTY OF Bexar )

The foregoing instrument was acknowledged before me this 6<sup>th</sup> day of September, 2022, by Gregory C. King, as the Manager of Shamrock Water, LLC, a Colorado limited liability company.

Witness my hand and official seal.

My commission expires: 05/19/2026

  
 Notary Public



ATTACHMENT A  
Legal Description of Land

A parcel of land located in Township 11 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

All of Section 16; the E1/2 of the SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 of the W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21.

ATTACHMENT B  
Legal Description of Land

A parcel of land located in Township 11 South, Range 66 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

The following portion of Section 25: The NW 1/4 and the SW1/4 of the SW1/4; All of Section 26; The following portion of Section 27: that part of the E1/2 of the E1/2 and of the W1/2 of the SE1/4 of the SW1/4 of the SE1/4 lying East of Colorado State Highway 83; The E1/2 of the SE1/4 of the SW1/4 of the SE1/4 and that part of the SE1/4 of the NW1/4 of the SE1/4 lying East of Colorado State Highway 83; The following portion of Section 34: The E1/2 of the E1/2 and that part of the E1/2 of the W1/2 of the E1/2 and of the E1/2 of the SW1/4 and of the W1/2 of the W1/2 of the SE1/4 lying East of the center line of the road described in deed recorded in Book 781 at Page 87 in the office of the clerk and recorder of El Paso County, Colorado.

**SPECIAL WARRANTY DEED**  
(Water Rights)

THIS DEED, made this 31 day of August, 2022, between **McCune Ranch, LLC**, a Colorado limited liability company ("Grantor"), and **Falcon Area Water and Wastewater Authority**, a public corporation and political subdivision of the State of Colorado ("Grantee"), whose address is c/o Spencer Fane LLP, 1700 Lincoln Street, Suite 2000, Denver, CO 80203.

WITNESS, that the Grantor, for and in consideration of the sum of ten dollars and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, has remised, released, sold, and conveyed and quitclaimed, and by these presents does remise, release, sell, convey and quitclaim unto the Grantee, its heirs and assigns forever, all right, title and interest in and to the following described water and water rights located in the County of El Paso, State of Colorado:

All of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying the real property described more particularly on Attachment A, that were determined by the Colorado Ground Water Commission in Determination Nos. 1689-BD, 1690-BD, and 1691-BD, and subject to the terms and conditions set forth therein. Said water rights are more particularly described as entitlements to the following decreed average annual amounts of withdrawal of nontributary groundwater from the following Denver Basin aquifers: (a) nontributary Denver aquifer, 513 annual acre-feet (100-year allocation); (b) nontributary Arapahoe aquifer – 398 annual acre-feet; and, (c) nontributary Laramie Fox Hills aquifer – 263 annual acre-feet; together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions. Such groundwater rights include all licenses, permits, certificates, contracts, determinations and decrees evidencing such water and water rights, and all wells and fixtures relating thereto, along with all replacements, substitutions, accessions thereto and proceeds deriving therefrom; as well as all appurtenant easement interests associated with the above described water rights, as described and reserved on the plats associated with the (a) Winsome Subdivision (Plat Nos. 1 and 2), as recorded in the records of the El Paso County Clerk and Recorder at Reception Nos. 221714686, 222714900, respectively, and (b) the to-be-recorded final plat known as Winsome Filing No 3.

TOGETHER, with all the hereditaments and appurtenances thereunto belonging, or in anywise appertaining, the reversions, remainders, rents, issues, and profits thereof, and all the estate, right, title, interest, claim, and demand whatsoever of the Grantor, either in law or equity, in and to the above bargained premises;

TO HAVE AND TO HOLD the rights to divert, apply, extract and use the water and groundwater rights above bargained and described, with the appurtenances, unto the Grantee and assigns forever. The Grantor, for himself and his successors and assigns, does hereby covenant and agree that Grantor shall and will WARRANT AND FOREVER DEFEND the above

bargained premises in the quiet and peaceable possession of the Grantee, his successors and assigns, against all and every person or persons claiming the whole or any part thereof, by, through or under the Grantor.

IN WITNESS WHEREOF, the Grantor has executed this Special Warranty Deed on the date set forth above.

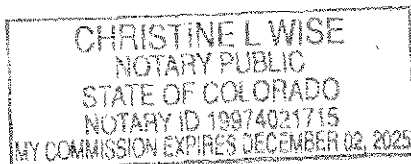
Mary Sue Liss, Manager  
 Mary Sue Liss, as Manager  
 Of McCune Ranch, LLC, a Colorado limited  
 liability company

STATE OF COLORADO     )  
   ) ss.  
 COUNTY OF EL PASO     )

The foregoing instrument was acknowledged before me this 31<sup>st</sup> day of August, 2022, by Mary Sue Liss, as the Manager of McCune Ranch, LLC, a Colorado limited liability company.

Witness my hand and official seal.

My commission expires: 12-02-2025



Christine L. Wise  
 Notary Public

ATTACHMENT A  
Legal Description of McCune Ranch Land

The Southwest quarter of the Southwest quarter Section 18, the West half of the Northwest quarter and the West half of the Southwest quarter, Section 19, Township 11 South, Range 64 West of the 6th PM and the South half of the Southeast quarter, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County, Colorado.

OFFICE OF THE STATE ENGINEER  
DETERMINATION OF FACTS

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IN THE MATTER OF AN APPLICATION FOR UNDERGROUND WATER RIGHTS IN WATER  
DIVISION NO. 2, EL PASO COUNTY, COLORADO

CASE NO.: 08CW113

APPLICANT: MORLEY-BENTLEY INVESTMENTS, LLC

AQUIFER : DAWSON

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In compliance with C.R.S. 37-92-302(2), Morley-Bentley Investments, LLC, (hereinafter "applicant") submitted an application to the Water Court for a determination of the amount of water available pursuant to C.R.S. 37-90-137(4). Based on information provided to the Court by the applicant and records of the Division of Water Resources, the State Engineer finds as follows:

1. The application was received by the Water Court on December 31, 2008.
2. According to the application, the applicant owns, or has consent to withdraw ground water underlying 1451.44 acres of land as further described in said application.
3. The quantity of water in the Dawson Aquifer (hereinafter "aquifer"), exclusive of artificial recharge, underlying the 1451.44 acres of land claimed in the application is 42,309 acre-feet. This determination was based on the following as specified in the Denver Basin Rules:
  - a. The average specific yield of the saturated aquifer materials underlying the land claimed in the application is 20 percent.
  - b. The average thickness of the saturated aquifer materials underlying the land claimed in the application is 145.8 feet.
4. In determining the amount of ground water available for withdrawal annually from this aquifer, the provisions of C.R.S. 37-90-137(4) must be applied, and pursuant to C.R.S. 37-90-137(4)(b)(I) annual withdrawals shall be allowed on the basis of an aquifer life of 100 years.
5. A review of the records in the State Engineer's Office has disclosed that there are existing wells or other water rights withdrawing ground water from the aquifer underlying the land claimed by the applicant. The well permit numbers, locations, rates of diversion, and other relevant data concerning such rights are set forth in the attached Exhibit A. To prevent material injury to such vested water rights, the quantity of water underlying the land claimed in the application which is considered available for withdrawal has been reduced to 39,247 acre-feet. This reduction was based on a calculation of the area necessary to provide a quantity of water underlying such lands as would be sufficient for the persons entitled to divert water under existing rights to divert the average annual amount of water from the aquifer for the minimum aquifer life of 100 years. The effect of this calculation is


to reduce the land available for calculating the quantity of water underlying the land claimed in the application to 1,345.92 acres.

6. Withdrawal of ground water from the aquifer underlying the land claimed in the application will within one hundred years, deplete the flow of a natural stream at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and therefore the ground water is not nontributary ground water as defined in C.R.S. 37-90-103(10.7). C.R.S. 37-90-137(9)(c) states that judicial approval of a plan for augmentation shall be required prior to use of ground water of the type sought in this application. In the case of the Dawson aquifer such augmentation plans shall provide for the replacement of actual stream depletions to the extent necessary to prevent any injurious effect, based on actual aquifer conditions in existence at the time of the decree.
7. The allowed average annual amount of water available for withdrawal from the aquifer underlying the lands claimed in the application is 392.5 acre-feet (the quantity of water which is considered available divided by the 100 year aquifer life). It is recommended that the water court retain jurisdiction necessary to provide for adjustment (increase or decrease) of this amount.
8. Underlying the land claimed in the application, the aquifer is, as specified in the Denver Basin Rules, located approximately 54 feet to 346 feet below land surface. A site specific evaluation must be conducted with each well permit to identify the interval due to the varied elevation of the aquifer and surface topography.

Dated this 4th day of March, 2009.



Dick Wolfe, P.E.  
Director/State Engineer

By: 

Sarah Reinsel  
Water Resources Engineer

Prepared by: SKR

EXHIBIT A

<u>Well Number</u>	<u>Location</u>					<u>AF</u>	<u>ST</u>	<u>SY</u>	<u>Radius</u>	<u>Area</u>
	<u>Q40</u>	<u>Q160</u>	<u>Sec.</u>	<u>Twp.</u>	<u>Rng.</u>					
8745-R	NE	SW	33	12S	65W	24.2	109	20	1240	87
8746-R	NE	SW	33	12S	65W	16.1	112	20	1001	71
8747-R	NE	SW	33	12S	65W	12.9	114	20	886	57
8748-R	NE	SW	33	12S	65W	16.1	109	20	1011	74

Well Number = Well permit number and/or water court case number

AF = Annual appropriation of the well (acre-feet)

ST = Thickness of the saturated aquifer material at the well location (feet)

SY = Specific Yield of the saturated aquifer material (%)

Radius = Radius of the cylinder of appropriation (feet)

Area = Area of the applicant's land that is overlapped by the cylinder of appropriation (acres)

DISTRICT COURT, WATER DIVISION NO. 2, STATE OF COLORADO OCT 29 1986

Case No. 86-CW-18

*Riscione*  
*L. L. L. L.*

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE Clerk

CONCERNING THE APPLICATION FOR NONTRIBUTARY GROUND WATER RIGHTS OF THE FIRST INTERSTATE BANK OF DENVER N.A., CARLA W. LEWIS, AND SAMUEL S. SHERMAN AS COTRUSTEES UNDER THE LIFE INSURANCE TRUST OF THOMAS M. DINES FROM THE ARAPAHOE FORMATION, EL PASO COUNTY.

THIS MATTER, having come on ~~for hearing before the~~ Court this 29 day of Oct., 1986 upon the application of The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines ("Applicants") and the Court having considered the pleadings filed and the evidence presented, and being fully advised in the premises, hereby enters the following Findings of Fact, Conclusions of Law, and Judgment and Decree: *get*

#### FINDINGS OF FACT

1. The Applicants are The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines whose address is First Interstate Bank of Denver, 633 Seventeenth Street, Denver, Colorado 80202, Attn: Jack Alexander. Applicants filed the application in this case styled Application For Nontributary Ground Water From The Arapahoe Formation (the "Application") on March 28, 1986, seeking an adjudication of nontributary ground water rights from the Arapahoe Formation underlying lands owned by Applicants in El Paso County.

2. Timely and adequate notice of the Application was published as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether they have appeared or not. None of the lands or water rights involved in this case are within the boundaries of a designated groundwater basin.

3. A timely statement of opposition was filed by JVRC, Inc. No other statements of opposition were filed within the time provided by law nor did any other parties enter their appearance or intervene in these proceedings.

4. The Water Referee by Order dated July <sup>9</sup>19, 1986, under Section 37-92-303(2), C.R.S., rereferred the Application to the Water Judge for all further proceedings. 225

5. The State Engineer issued a Determination of Facts on the Application, dated July 28, 1986, which has been filed with the Court. The Division Engineer adopted the Determination of Facts as his recommendations on August 8, 1986. The Determination of Facts and the findings contained therein have been reviewed and considered by this Court in accordance with Section 37-92-305(6), C.R.S.

6. Applicants seek an adjudication of rights to nontributary ground water from the Arapahoe Formation beneath 1,410 acres of land in El Paso County which are described in Exhibit A and depicted on the map attached as Exhibit B, both of which are incorporated herein by this reference (the "Subject Lands"). Applicants are the owners of the Subject Lands and have the right to withdraw and use the waters from the Arapahoe Formation underlying those lands. The waters claimed herein may be withdrawn through the proposed wells described in Paragraph 7 below and through such additional, replacement and supplemental wells as may be necessary to withdraw all of the water in the Arapahoe Formation underlying the Subject Lands without causing material injury to any vested water right whose source of supply is the Arkansas River and any of its tributaries or any other natural stream, or any ground water tributary thereto, and the Applicants have so proven.

7. Applicants will divert the waters claimed herein from the Arapahoe Formation through Dines Wells KA-1, KA-2, KA-3, and KA-4 more particularly described as follows:

Well Name: Dines Well KA-1

- (a) In the SE 1/4 of the NW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 2500 feet from the North Section line and 2200 feet from the West Section line, in El Paso County.
- (b) Depth: 1900 feet.
- (c) Source: Nontributary Arapahoe Formation.
- (d) Pumping rate: 150 gpm.

(e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KA-2

(a) Location: In the SW 1/4 of the SW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 200 feet from the South Section line and 200 feet from the West Section line, in El Paso County.

(b) Depth: 1800 feet.

(c) Source: Nontributary Arapahoe Formation.

(d) Pumping rate: 150 gpm.

(e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KA-3

(a) Location: In the NW 1/4 of the SE 1/4 of Section 33, Township 12 South, Range 65 West of the 6th P.M., 1500 feet from the South Section line and 2100 feet from the East Section line, in El Paso County.

(b) Depth: 1700 feet.

(c) Source: Nontributary Arapahoe Formation.

(d) Pumping rate: 150 gpm.

(e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KA-4

(a) Location: In the NE 1/4 of the SW 1/4 of Section 34, Township 12 South, Range 65 West of the 6th P.M., 1400 feet from the South Section line and 2100 feet from the West Section line, in El Paso County.

(b) Depth: 1700 feet.

(c) Source: Nontributary Arapahoe Formation.

(d) Pumping rate: 150 gpm.

(e) Annual quantity: 240 acre-feet.

- \* Not to exceed in total the amount available to Applicants from the Arapahoe Formation pursuant to § 37-90-137(4), C.R.S. and the provisions of this decree.

8. Pursuant to §37-90-137(4), C.R.S., five hundred seventy-five (575) acre-feet of water per year are available to Applicants from the Arapahoe Formation underlying the Subject Lands. The average thickness of saturated sand of the Arapahoe Formation underlying the Subject Lands is 240 feet but the final determination on actual saturated sand thickness will be determined when the wells are drilled, and the amount decreed herein may be subsequently adjusted in accordance with that saturated sand thickness as provided in Paragraph 29 below. The specific yield of the Arapahoe Formation is 17% in and beneath the Subject Lands. This finding is specific to the property involved and does not indicate or in any way reflect upon proper values for the subject aquifer elsewhere. All the water in the Arapahoe Formation underlying the Subject Lands remains available for withdrawal by the wells decreed herein.

9. The State Engineer in his Determination of Facts found that 581 acre-feet per year were available for appropriation through the subject wells. The State Engineer's determination is based on a finding that only 1395 acres of the Subject Lands are available for appropriation, and based on saturated sand thicknesses of 245 feet and 250 feet for different parts of the Subject Lands and a specific yield of 17% for the Arapahoe Formation. The State Engineer also found that of the total 581 acre-feet per year of water available for appropriation, 569 acre-feet was nontributary and 12 acre-feet was not nontributary. The 12 acre-feet per year the State Engineer found as not nontributary underly 37 acres of Section 32 of the Subject Lands. Applicant has shown by a preponderance of the evidence that there are no existing wells with a right to water from the Arapahoe Formation underlying the Subject Lands and that the water underlying 1410 acres is available for appropriation by Applicants. The Court also finds that the withdrawals through Applicants' proposed wells of the water claimed herein including the amount of water underlying the 37 acres in Section 32 is nontributary. The proposed wells will not, at their location and withdrawing the amounts decreed herein, within one hundred years deplete the flow of any natural stream at a rate greater than one-tenth of one percent of the annual rate of withdrawal. Applicants' engineer ~~has testified~~ that 575 acre-feet per year is available for appropriation calculated with a saturated sand thickness of 240 feet for the

Arapahoe Formation. Subject to the final determination of saturated sand thickness based on the information derived from the drilling of the wells, Applicants will use 240 feet for the saturated sand thickness of the Arapahoe Formation beneath the Applicants' property.

10. The source of water for the proposed wells is nontributary as defined in Section 37-90-103 (10.5), C.R.S. The proposed withdrawals through Dines Wells KA-1, KA-2, KA-3, and KA-4 in the amount of 575 acre-feet per year, or in any lesser or greater amount determined under Paragraph 29, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal.

11. The waters of the Arapahoe Formation that are the subject of the appropriation claimed herein will be, and Applicants intend that they be used, and Applicants shall have the right of succession of uses, for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock and agricultural uses. The water will be produced for immediate application to beneficial use and for storage and subsequent application to beneficial use. Subject only to the provisions of Paragraph 31, Applicants shall have the right to make any reuse, successive use or disposition of the developed water claimed herein until totally consumed free of any limitations, restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S.

12. All of the requirements of C.R.S. § 37-90-137(4), in effect on this date have been complied with, and the issuance of permits for the subject wells is justified and those permits will be issued as described in Paragraph 34 below.

13. Applicants will relinquish the right to consume after use, reuse, and successive use 2% of the amount of ground water withdrawn through Dines Wells KA-1, KA-2, KA-3 and KA-4 and any additional, supplemental, or replacement, wells without regard to dominion or control of the ground water so relinquished.

14. Applicants seek a decree designating all of the wells described in Paragraph 7 above as original and alternate points of diversion for each other permitting the withdrawal of up to the full cumulative amount by flow rate and volume of water which may be lawfully withdrawn from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested

water right or decreed conditional water right by the granting of this request, and it is hereby granted.

15. Applicants may withdraw more water than the amounts set forth in Paragraph 8 so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Arapahoe Formation.

16. Applicants have requested that the Court determine that Applicants have the right to withdraw all of the unappropriated water from the Arapahoe Formation lying below their land and to increase their annual appropriations based upon the local aquifer characteristics established through information obtained from the drilling of the wells upon notice to all parties and approval by the Court, without amending the Application or republishing. The Court finds that there has been full and adequate notice of these claims and Applicants will be entitled to an adjustment under the provisions of Paragraph 29 below on the amount of water to which the wells are entitled.

17. Applicants may construct any well within 200 feet of the described locations without amending the Application or reopening this decree.

18. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the provisions of Paragraph 34 below are and have been justified and shall apply.

19. As of March 3, 1986, Applicants have intended to claim the waters sought in the Application and have so demonstrated by open and physical acts on the ground and by the completion of an engineering study and hydrogeological investigation on the water available for appropriation in the Arapahoe Formation. Applicants have demonstrated and manifested an intent to appropriate the waters claimed herein by giving sufficient notice thereof, all in accordance with law. The evidence presented shows that the Applicants intend to appropriate the waters claimed herein, that such intent to appropriate has been adequately demonstrated, and that Applicants are entitled to a decree for the water rights herein decreed.

20. There is unappropriated water available for withdrawal by the structures decreed herein and the vested water rights of others will not be materially injured by the appropriations as decreed. Only that quantity of water underlying the Subject Lands has been considered to be

unappropriated; the minimum useful life of the Arapahoe Formation is at least one hundred (100) years, assuming no substantial artificial recharge within one hundred (100) years; and no material injury to vested water rights will result from the issuance of or exercise of the permits for the subject wells.

#### CONCLUSIONS OF LAW

21. The Court has jurisdiction to determine Applicants' rights to nontributary ground water pursuant to Sections 37-90-137(6), 37-92-203(1), and 37-92-302 through 305, C.R.S. (Supp. 1985). The procedures and requirements of these statutes have been complied with, full and adequate notice has been given, and no additional notice is required.

22. The Court concludes as a matter of law that the Application herein is one contemplated by law. The Application for a decree confirming Applicants' right to divert and use ground water from the Arapahoe Formation beneath the Subject Lands, pursuant to C.R.S. § 37-90-137(4), should be granted, subject to the provisions of this decree. The rights confirmed by this decree are vested property rights. The amount of water confirmed in this decree is that quantity of water underlying the Subject Lands and the annual withdrawals are based on an aquifer life of one hundred years.

23. The Court concludes that the rights to ground water determined herein are not conditional water rights and subsequent showings or findings of reasonable diligence under Section 37-92-301(4), C.R.S., are inapplicable and need not be made. Accordingly, each of the water rights adjudicated herein is a final vested property right.

24. Applicants are entitled as a matter of law to use, reuse, and successively use to extinction and dispose of all nontributary ground water decreed herein pursuant to Section 37-82-106, C.R.S. (Supp. 1985) subject only to a 2% relinquishment of Applicants' right to total consumption. Failure to use, reuse or recapture such water, including return flows, shall not be deemed a forfeiture or abandonment of the right to such use, reuse or recapture.

25. The Court shall retain jurisdiction over this matter to make adjustments to the amount of water available for withdrawal annually to conform to the actual aquifer characteristics encountered upon the drilling of the wells. This retained jurisdiction may be invoked only by the parties under Paragraph 36.

## JUDGMENT AND DECREE

26. The Findings of Fact and Conclusions of Law set forth in Paragraphs 1-25, above are incorporated herein by this reference.

27. The Application for determination of water rights for the subject wells is granted subject to the following limitations.

28. A right to five hundred seventy-five (575) acre-feet of nontributary ground water per year is decreed and confirmed in Applicants pursuant to § 37-90-137(4), C.R.S., for Dines Wells KA-1, KA-2, KA-3, and KA-4, from the Arapahoe Formation for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock and agricultural uses. Applicants shall have the right to recapture, reuse, and dispose of the water developed by the subject wells. Applicants shall have the right to withdraw water for immediate application to beneficial use and for storage and subsequent application to beneficial use and shall have the right to make any reuse, successive use or disposition of the developed water claimed herein to extinction free of any limitations, restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S. subject only to the provisions of Paragraph 31 below. The water may be withdrawn through the wells described in Paragraph 7 above and through such additional wells as may be required in order to maintain the annual appropriation as determined herein. The proposed withdrawals through Dines Wells KA-1, KA-2, KA-3, and KA-4 and any additional, supplemental, or replacement wells in the amount of 575 acre-feet per year, or in any additional amounts of water from the Arapahoe Formation underlying the Subject Lands, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal, and those waters are nontributary to any natural surface stream, its alluvium, and any ground water tributary thereto, and the proposed withdrawals will not result in material injury to vested water rights.

29. The total amount of water to which Applicants are entitled and which is available to Applicants from the Arapahoe Formation beneath the Subject Lands shall be 575 acre-feet per year or the lesser or greater amount of water each such well is entitled to as subsequently determined from the saturated sand thickness of the Arapahoe Formation determined from the geophysical data obtained from the construction of the wells. Geophysical logs shall be taken in accordance with the applicable

rules promulgated by the State Engineer. In making the determination of the final amount of water to which the subject wells are entitled, the following criteria shall apply:

(a) Saturated sand thickness shall be defined as the cumulative thickness of saturated materials as shown on the geophysical logs for each well applying standard accepted geophysical log interpretation methodology;

(b) The specific yield for the Arapahoe Formation shall be 17%;

(c) The water in the Arapahoe Formation underlying the 1410 acres of the Subject Lands shall be considered available for appropriation by the wells decreed herein.

After the completion of the wells subject to this decree, Applicants shall submit the geophysical logs and any other geophysical information obtained from the drilling of the wells to the State Engineer and to the other parties in this action together with a statement from Applicants on the final actual saturated sand thickness and final annual appropriation for each well as determined by Applicants. Within 60 days from the date on which Applicants mail copies of the geophysical logs and statement to the parties herein, any party may petition this Court to invoke the Court's retained jurisdiction under Paragraph 36 of this decree to reconsider the saturated sand thickness of the Arapahoe Formation underlying the Subject Lands for the purpose of adjusting the total entitlement of water to the wells decreed herein. Those proceedings shall be limited exclusively to the issue of saturated sand thickness. If the Court's retained jurisdiction is not invoked within the time prescribed in this Paragraph, the respective amounts set forth in Applicants' statement as the final annual entitlement to each well shall be final, which amount shall be confirmed as final by order of the Court upon Applicants' motion to the Court setting forth facts showing compliance with this Paragraph.

30. The issuance by the Colorado Division of Water Resources pursuant to Colorado Revised Statutes, Section 37-90-137(4) of permits to construct the subject wells is justified and the Division of Water Resources is directed to issue the permits in accordance with Paragraph 34 below. Each of the requirements of the statute has been complied with. Unappropriated waters are available for appropriation from the Arapahoe Formation beneath the Subject Lands and the proposed withdrawals will not result in material injury to other vested water rights.

31. Applicants shall relinquish the right to consume, after use, reuse, and successive use 2% of the water withdrawn through Dines Wells KA-1, KA-2, KA-3 and KA-4 and any additional, supplemental, or replacement wells without regard to dominion or control of the ground water so relinquished.

32. All of the wells described in Paragraph 7 may be used as original and alternate points of diversion for each other permitting the withdrawal by flow rate and volume of up to the full cumulative amount of water which may be lawfully withdrawn from all of those wells from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or decreed conditional water right by the granting of this request, and it is hereby granted.

33. Applicants may withdraw more water than the final annual appropriation for each well so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of issuance of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Arapahoe Formation.

34. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the following provisions shall apply.

(a) The State Engineer shall consider the rights granted herein as valid and shall consider the water sought by Applicants as taken and appropriated by Applicants.

(b) When Applicants are prepared to drill a well described in this decree, Applicants shall apply to the State Engineer for a well permit and that permit shall be issued within 60 days under terms and conditions no less stringent than those set forth in this decree with the conditions for equipping and constructing the well as are specified in Paragraph 35 herein. In the event that a well permit expires prior to the construction of the well and the application of water to beneficial use, Applicants may apply for a new well permit and the State Engineer shall within 60 days issue a new well permit with the same terms and conditions as the permit that expired.

(c) Applicants shall submit well permit applications to the State Engineer's office for any replacement, supplemental or additional wells.

(d) Any well permitted pursuant to this decree which is drilled within 200 feet of the decreed location shall be deemed to have been drilled at the decreed well location and shall not require application for a new or amended well permit.

(e) In determining whether good cause exists for granting a request by Applicants to extend well permits for nontributary wells for one or more additional one-year periods pursuant to Section 37-90-137(3)(a)(II), C.R.S. (1985 Supp.), the State Engineer shall recognize that each well decreed herein, and such additional wells as are required from time to time to fully recover the annual appropriation herein, are part of a single integrated water supply system to be constructed over a phased period of time. So long as Applicants still desire to use the groundwater the well permits shall be extended.

(f) Prior to constructing any additional wells, Applicants shall submit well permit applications to the State Engineer. In considering such permit applications, the State Engineer shall be governed by Section 37-90-137(10), C.R.S. (1985 Supp.) and the provisions of this decree. Any such permitting action may be reviewed by this Court pursuant to Section 37-92-305(6), C.R.S. (1985 Supp.).

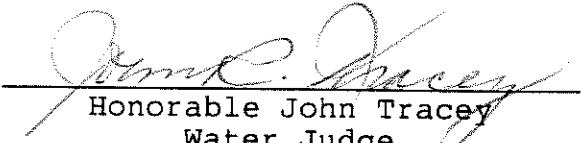
(g) For the purpose of well permit applications, Applicants need not submit separate proof, apart from the terms of this decree, of matters which have been determined herein.

35. Applicants shall geophysically log the entire bore hole of each well prior to the installation of casing. Such logs shall be taken in accordance with the applicable rules promulgated by the State Engineer. In constructing and maintaining any well which will withdraw water from the Arapahoe Formation under this decree, the Applicants shall seal off and encase the well with an impervious lining at all levels, except the level of the Arapahoe Formation, to prevent withdrawal of and mixing of groundwater in other aquifers and a totalizing flow meter shall be installed on each well. After construction the Applicants shall attach an identification tag to the well specifying the name of the well, the permit number and the aquifer from which the water is withdrawn. Applicants shall maintain records of the amounts pumped from each well on a monthly basis and such records shall be provided to the Division Engineer or the State Engineer on request.

36. This Court retains jurisdiction in this case for the reconsideration of the final amounts of water appropriated by the proposed wells in accord with Paragraph 29 above. The Court's retained jurisdiction may be invoked only by the Applicants and JVRC, Inc. The Court's retained jurisdiction may be invoked by written notice to the Court requesting a hearing. Copies of that notice will be served on the parties herein at their latest address of record in this case.

Dated this 29 day of Oct., 1986.

BY THE COURT


  
Honorable John Tracey  
Water Judge  
Water Division No. 2  
State of Colorado

APPROVED AS TO FORM AND SUBSTANCE:

SHERMAN & HOWARD

VRANESH & RAISCH

By:


  
John L. DeWeerdts #9390  
Kenneth L. Salazar #11648  
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Attorneys for Applicants,  
The First Interstate Bank of  
Denver N.A., Carla W. Lewis,  
and Samuel S. Sherman as  
Cotrustees under the Life  
Insurance Trust of Thomas M.  
Dines.

c: Sherman and Howard (Salazar)  
Vranesh & Raisch (Shimmin)  
Division Engineer  
State Engineer

By:

  
Michael D. Shimmin, #9182  
Post Office Box 871  
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Telephone: (303) 443-6151  
Attorneys for Objectors  
JVRC, Inc.

Filed in the office of the  
Clerk, District Court Water  
Division No. 2, State of  
Colorado

OCT 29 1986

  
Clerk

EXHIBIT A

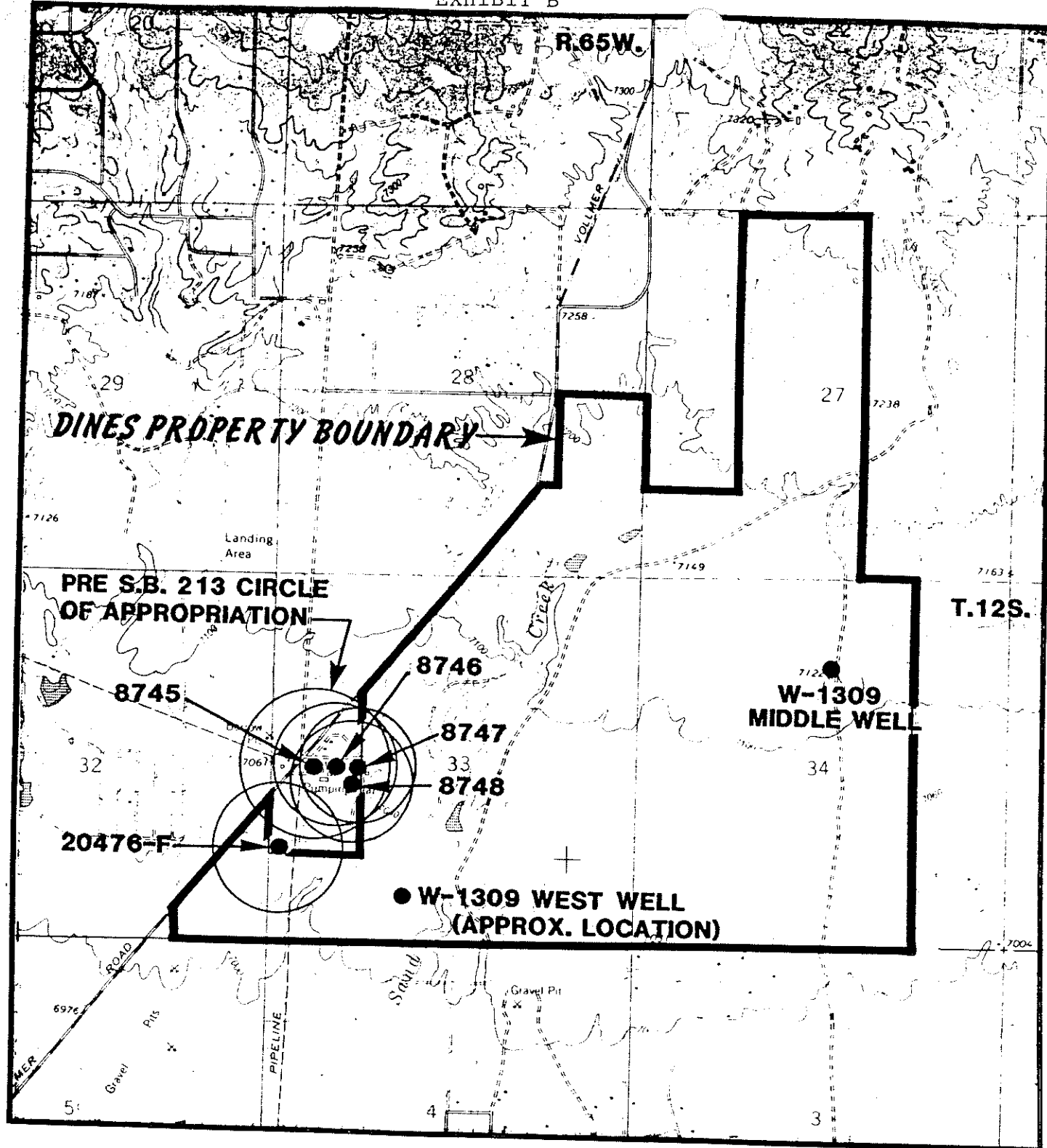
The Subject Lands consist of the following:

The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1/4 SW1/4 of Section 27; the E1/2 SE1/4 and that portion of the SW1/4 SE1/4 lying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, and that portion of the NE1/4 SE1/4 of said Section 32, lying South and East of said County Road; the E1/2 and the E1/2 SW1/4 and the SW1/4 SW1/4 of Section 33, and all that part of the NW1/4 of said Section 33 lying South and East of the said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road containing approximately 10 acres deeded to Colorado Interstate Gas Company by Warranty Deed recorded in Book 1173 at Page 359 of the El Paso County Records; and the W1/2 E1/2 and the W1/2 of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado.

Filed in the office of the  
Clerk, District Court Water  
Division No. 2, State of  
Colorado

OCT 29 1986

*Roselee A. Lyons*  
Clerk



## LOCATION MAP

FIGURE 1

Filed in the office of the  
Clerk, District Court Water  
Division No. 2, State of  
Colorado

OCT 29 1986

*Priscilla S. Lyners*  
Clerk

DISTRICT COURT, WATER DIVISION NO. 2, STATE OF COLORADO

OCT 29 1986

Case No. 86-CW-19

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

*Priscilla A. Lerner*  
Clerk

CONCERNING THE APPLICATION FOR NONTRIBUTARY GROUND WATER RIGHTS OF THE FIRST INTERSTATE BANK OF DENVER N.A., CARLA W. LEWIS, AND SAMUEL S. SHERMAN AS COTRUSTEES UNDER THE LIFE INSURANCE TRUST OF THOMAS M. DINES FROM THE LARAMIE-FOX HILLS AQUIFER, EL PASO COUNTY.

THIS MATTER, having come on ~~for hearing before the~~ *get* Court this 29 day of Oct., 1986 upon the application of The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines ("Applicants") and the Court having considered the pleadings filed and the evidence presented, and being fully advised in the premises, hereby enters the following Findings of Fact, Conclusions of Law, and Judgment and Decree:

FINDINGS OF FACT

1. The Applicants are The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines whose address is First Interstate Bank of Denver, 633 Seventeenth Street, Denver, Colorado 80202, Attn: Jack Alexander. Applicants filed the application in this case styled Application For Nontributary Ground Water From The Laramie-Fox Hills Aquifer (the "Application") on March 28, 1986, seeking an adjudication of nontributary ground water rights from the Laramie-Fox Hills Aquifer underlying lands owned by Applicants in El Paso County.

2. Timely and adequate notice of the Application was published as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether they have appeared or not. None of the lands or water rights involved in this case are within the boundaries of a designated groundwater basin.

3. A timely statement of opposition was filed by JVRC, Inc. No other statements of opposition were filed within the time provided by law nor did any other parties enter their appearance or intervene in these proceedings.

4. The Water Referee by Order dated July 19, 1986, under Section 37-92-303(2), C.R.S., rereferred the Application to the Water Judge for all further proceedings.

5. The State Engineer issued a Determination of Facts on the Application, dated July 28, 1986, which has been filed with the Court. The Division Engineer adopted the Determination of Facts as his recommendations on August 8, 1986. The Determination of Facts and the findings contained therein have been reviewed and considered by this Court in accordance with Section 37-92-305(6), C.R.S.

6. Applicants seek an adjudication of rights to nontributary ground water from the Laramie-Fox Hills Aquifer beneath 1,410 acres of land in El Paso County which are described in Exhibit A and depicted on the map attached as Exhibit B, both of which are incorporated herein by this reference (the "Subject Lands"). Applicants are the owners of the Subject Lands and have the right to withdraw and use the waters from the Laramie-Fox Hills Aquifer underlying those lands. The waters claimed herein may be withdrawn through the proposed wells described in Paragraph 7 below and through such additional, replacement and supplemental wells as may be necessary to withdraw all of the water in the Laramie-Fox Hills Aquifer underlying the Subject Lands without causing material injury to any vested water right whose source of supply is the Arkansas River and any of its tributaries or any other natural stream, or any ground water tributary thereto, and the Applicants have so proven.

7. Applicants will divert the waters claimed herein from the Laramie-Fox Hills Aquifer through Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4 more particularly described as follows:

Well Name: Dines Well KLF-1

- (a) In the SE 1/4 of the NW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 2500 feet from the North Section line and 2300 feet from the West Section line, in El Paso County.
- (b) Depth: 2350 feet.
- (c) Source: Nontributary Laramie-Fox Hills Aquifer.
- (d) Pumping rate: 150 gpm.

(e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KLF-2

(a) Location: In the SW 1/4 of the SW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 100 feet from the South Section line and 100 feet from the West Section line, in El Paso County.

(b) Depth: 2250 feet.

(c) Source: Nontributary Laramie-Fox Hills Aquifer.

(d) Pumping rate: 150 gpm.

(e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KLF-3

(a) Location: In the NW 1/4 of the SE 1/4 of Section 33, Township 12 South, Range 65 West of the 6th P.M., 1400 feet from the South Section line and 2200 feet from the East Section line, in El Paso County.

(b) Depth: 2150 feet.

(c) Source: Nontributary Laramie-Fox Hills Aquifer.

(d) Pumping rate: 150 gpm.

(e) Annual quantity: 240 acre-feet.\*

Well Name: Dines Well KLF-4

(a) Location: In the NE 1/4 of the SW 1/4 of Section 34, Township 12 South, Range 65 West of the 6th P.M., 1400 feet from the South Section line and 2200 feet from the West Section line, in El Paso County.

(b) Depth: 2150 feet.

(c) Source: Nontributary Laramie-Fox Hills Aquifer.

(d) Pumping rate: 150 gpm.

(e) Annual quantity: 240 acre-feet.

- \* Not to exceed in total the amount available to Applicants from the Laramie-Fox Aquifer pursuant to § 37-90-137(4), C.R.S. and the provisions of this decree.

8. Pursuant to §37-90-137(4), C.R.S., five hundred thirty-nine (539) acre-feet of water per year are available to Applicants from the Laramie-Fox Hills Aquifer underlying the Subject Lands. The average thickness of saturated sand of the Laramie-Fox Hills Aquifer underlying the Subject Lands is 255 feet but the final determination on actual saturated sand thickness will be determined when the wells are drilled, and the amount decreed herein may be subsequently adjusted in accordance with that saturated sand thickness as provided in Paragraph 29 below. The specific yield of the Laramie-Fox Hills Aquifer is 15% in and beneath the Subject Lands. This finding is specific to the property involved and does not indicate or in any way reflect upon proper values for the subject aquifer elsewhere. All the water in the Laramie-Fox Hills Aquifer underlying the Subject Lands remains available for withdrawal by the wells decreed herein.

9. The State Engineer in his Determination of Facts found that 423 acre-feet per year were available for appropriation through the subject wells based on a specific yield of 15% and a saturated sand thickness of 200 feet for the Laramie-Fox Hill Aquifer beneath the Subject Lands. Applicants' ~~engineers~~ <sup>alluvium</sup> has testified that 539 acre-feet per year is available for appropriation calculated with a saturated sand thickness of 255 feet for the Laramie-Fox Hills Aquifer derived from a review of wells in the vicinity of the Subject Lands. Subject to the final determination of saturated sand thickness based on the information derived from the drilling of the wells, Applicants have shown by a preponderance of the evidence that the saturated sand thickness for the Laramie-Fox Hills Aquifer is 255 feet beneath the Applicants' property.

10. The source of water for the proposed wells is nontributary as defined in Section 37-90-103 (10.5), C.R.S. The proposed withdrawals through Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4 in the amount of 539 acre-feet per year, or in any lesser or greater amount determined under Paragraph 29, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal.

11. The waters of the Laramie-Fox Hills Aquifer that are the subject of the appropriation claimed herein will be, and Applicants intend that they be used, and Applicants shall have the right of succession of uses, for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock and agricultural uses. The water will be produced for immediate application to beneficial use and for storage and subsequent application to beneficial use. Subject only to the provisions of Paragraph 31, Applicants shall have the right to make any reuse, successive use or disposition of the developed water claimed herein until totally consumed free of any limitations, restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S.

12. All of the requirements of C.R.S. § 37-90-137(4), in effect on this date have been complied with, and the issuance of permits for the subject wells is justified and those permits will be issued as described in Paragraph 34 below.

13. Applicants will relinquish the right to consume after use, reuse, and successive use 2% of the amount of ground water withdrawn through Dines Wells KLF-1, KLF-2, KLF-3 and KLF-4 and any additional, supplemental, or replacement, wells without regard to dominion or control of the ground water so relinquished.

14. Applicants seek a decree designating all of the wells described in Paragraph 7 above as original and alternate points of diversion for each other permitting the withdrawal of up to the full cumulative amount by flow rate and volume of water which may be lawfully withdrawn from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or decreed conditional water right by the granting of this request, and it is hereby granted.

15. Applicants may withdraw more water than the amounts set forth in Paragraph 8 so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Laramie-Fox Hills Aquifer.

16. Applicants have requested that the Court determine that Applicants have the right to withdraw all of the unappropriated water from the Larimie-Fox Hills Aquifer lying

below their land and to increase their annual appropriations based upon the local aquifer characteristics established through information obtained from the drilling of the wells upon notice to all parties and approval by the Court, without amending the Application or republishing. The Court finds that there has been full and adequate notice of these claims and Applicants will be entitled to an adjustment under the provisions of Paragraph 29 below on the amount of water to which the wells are entitled.

17. Applicants may construct any well within 200 feet of the described locations without amending the Application or reopening this decree.

18. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the provisions of Paragraph 34 below are and have been justified and shall apply.

19. As of March 3, 1986, Applicants have intended to claim the waters sought in the Application and have so demonstrated by open and physical acts on the ground and by the completion of an engineering study and hydrogeological investigation on the water available for appropriation in the Laramie-Fox Hills Aquifer. Applicants have demonstrated and manifested an intent to appropriate the waters claimed herein by giving sufficient notice thereof, all in accordance with law. The evidence presented shows that the Applicants intend to appropriate the waters claimed herein, that such intent to appropriate has been adequately demonstrated, and that Applicants are entitled to a decree for the water rights herein decreed.

20. There is unappropriated water available for withdrawal by the structures decreed herein and the vested water rights of others will not be materially injured by the appropriations as decreed. Only that quantity of water underlying the Subject Lands has been considered to be unappropriated; the minimum useful life of the Laramie-Fox Hills Aquifer is at least one hundred (100) years, assuming no substantial artificial recharge within one hundred (100) years; and no material injury to vested water rights will result from the issuance of or exercise of the permits for the subject wells.

#### CONCLUSIONS OF LAW

21. The Court has jurisdiction to determine Applicants' rights to nontributary ground water pursuant to Sections 37-90-137(6), 37-92-203(1), and 37-92-302 through 305, C.R.S. (Supp. 1985). The procedures and requirements of these statutes have been complied with, full and adequate notice has been given, and no additional notice is required.

22. The Court concludes as a matter of law that the Application herein is one contemplated by law. The Application for a decree confirming Applicants' right to divert and use ground water from the Laramie-Fox Hills Aquifer beneath the Subject Lands, pursuant to C.R.S. § 37-90-137(4), should be granted, subject to the provisions of this decree. The rights confirmed by this decree are vested property rights. The amount of water confirmed in this decree is that quantity of water underlying the Subject Lands and the annual withdrawals are based on an aquifer life of one hundred years.

23. The Court concludes that the rights to ground water determined herein are not conditional water rights and subsequent showings or findings of reasonable diligence under Section 37-92-301(4), C.R.S., are inapplicable and need not be made. Accordingly, each of the water rights adjudicated herein is a final vested property right.

24. Applicants are entitled as a matter of law to use, reuse, and successively use to extinction and dispose of all nontributary ground water decreed herein pursuant to Section 37-82-106, C.R.S. (Supp. 1985) subject only to a 2% relinquishment of Applicants' right to total consumption. Failure to use, reuse or recapture such water, including return flows, shall not be deemed a forfeiture or abandonment of the right to such use, reuse or recapture.

25. The Court shall retain jurisdiction over this matter to make adjustments to the amount of water available for withdrawal annually to conform to the actual aquifer characteristics encountered upon the drilling of the wells. This retained jurisdiction may be invoked only by the parties under Paragraph 36.

#### JUDGMENT AND DECREE

26. The Findings of Fact and Conclusions of Law set forth in Paragraphs 1-25, above are incorporated herein by this reference.

27. The Application for determination of water rights for the subject wells is granted subject to the following limitations.

28. A right to five hundred thirty-nine (539) acre-feet of nontributary ground water per year is decreed and confirmed in Applicants pursuant to § 37-90-137(4), C.R.S., for Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4, from the Laramie-Fox Hills Aquifer for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation,

exchange, replacement of depletions, augmentation, livestock and agricultural uses. Applicants shall have the right to recapture, reuse, and dispose of the water developed by the subject wells. Applicants shall have the right to withdraw water for immediate application to beneficial use and for storage and subsequent application to beneficial use and shall have the right to make any reuse, successive use or disposition of the developed water claimed herein to extinction free of any limitations, restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S. subject only to the provisions of Paragraph 31 below. The water may be withdrawn through the wells described in Paragraph 7 above and through such additional wells as may be required in order to maintain the annual appropriation as determined herein. The proposed withdrawals through Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4 and any additional, supplemental, or replacement wells in the amount of 539 acre-feet per year, or in any additional amounts of water from the Laramie-Fox Hills Aquifer underlying the Subject Lands, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal, and is nontributary to any natural surface stream, its alluvium, and any ground water tributary thereto, and the proposed withdrawals will not result in material injury to vested water rights.

29. The total amount of water to which Applicants are entitled and which is available to Applicants from the Laramie-Fox Hills Aquifer beneath the Subject Lands shall be 539 acre-feet per year or the lesser or greater amount of water each such well is entitled to as subsequently determined from the saturated sand thickness of the Laramie-Fox Hills Aquifer determined from the geophysical data obtained from the construction of the wells. Geophysical logs shall be taken in accordance with the applicable rules promulgated by the State Engineer. In making the determination of the final amount of water to which the subject wells are entitled, the following criteria shall apply:

(a) Saturated sand thickness shall be defined as the cumulative thickness of saturated materials as shown on the geophysical logs for each well applying standard accepted geophysical log interpretation methodology;

(b) The specific yield for the Laramie-Fox Hills Aquifer shall be 15%;

(c) The water in the Laramie-Fox Hills Aquifer underlying the 1410 acres of the Subject Lands shall be considered available for appropriation by the wells decreed herein.

After the completion of the wells subject to this decree, Applicants shall submit the geophysical logs and any other geophysical information obtained from the drilling of the wells to the State Engineer and to the other parties in this action together with a statement from Applicants on the final actual saturated sand thickness and final annual appropriation for each well as determined by Applicants. Within 60 days from the date on which Applicants mail copies of the geophysical logs and statement to the parties herein, any party may petition this Court to invoke the Court's retained jurisdiction under Paragraph 36 of this decree to reconsider the saturated sand thickness of the Laramie-Fox Hills Aquifer underlying the Subject Lands for the purpose of adjusting the total entitlement of water to the wells decreed herein. Those proceedings shall be limited exclusively to the issue of saturated sand thickness. If the Court's retained jurisdiction is not invoked within the time prescribed in this Paragraph, the respective amounts set forth in Applicants' statement as the final annual entitlement to each well shall be final, which amount shall be confirmed as final by order of the Court upon Applicants' motion to the Court setting forth facts showing compliance with this Paragraph.

30. The issuance by the Colorado Division of Water Resources pursuant to Colorado Revised Statutes, Section 37-90-137(4) of permits to construct the subject wells is justified and the Division of Water Resources is directed to issue the permits in accordance with Paragraph 34 below. Each of the requirements of the statute has been complied with. Unappropriated waters are available for appropriation from the Laramie-Fox Hills Aquifer beneath the Subject Lands and the proposed withdrawals will not result in material injury to other vested water rights.

31. Applicants shall relinquish the right to consume, after use, reuse, and successive use 2% of the water withdrawn through Dines Wells KLF-1, KLF-2, KLF-3 and KLF-4 and any additional, supplemental, or replacement wells without regard to dominion or control of the ground water so relinquished.

32. All of the wells described in Paragraph 7 may be used as original and alternate points of diversion for each other permitting the withdrawal by flow rate and volume of up to the full cumulative amount of water which may be lawfully withdrawn from all of those wells from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or

decreed conditional water right by the granting of this request, and it is hereby granted.

33. Applicants may withdraw more water than the final annual appropriation for each well so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of issuance of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Laramie-Fox Hills Aquifer.

34. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the following provisions shall apply.

(a) The State Engineer shall consider the rights granted herein as valid and shall consider the water sought by Applicants as taken and appropriated by Applicants.

(b) When Applicants are prepared to drill a well described in this decree, Applicants shall apply to the State Engineer for a well permit and that permit shall be issued within 60 days under terms and conditions no less stringent than those set forth in this decree with the conditions for equipping and constructing the well as are specified in Paragraph 35 herein. In the event that a well permit expires prior to the construction of the well and the application of water to beneficial use, Applicants may apply for a new well permit and the State Engineer shall within 60 days issue a new well permit with the same terms and conditions as the permit that expired.

(c) Applicants shall submit well permit applications to the State Engineer's office for any replacement, supplemental or additional wells.

(d) Any well permitted pursuant to this decree which is drilled within 200 feet of the decreed location shall be deemed to have been drilled at the decreed well location and shall not require application for a new or amended well permit.

(e) In determining whether good cause exists for granting a request by Applicants to extend well permits for nontributary wells for one or more additional one-year periods pursuant to Section 37-90-137(3)(a)(II), C.R.S. (1985 Supp.), the State Engineer shall recognize that each well decreed herein, and such additional

wells as are required from time to time to fully recover the annual appropriation herein, are part of a single integrated water supply system to be constructed over a phased period of time. So long as Applicants still desire to use the groundwater the well permits shall be extended.

(f) Prior to constructing any additional wells, Applicants shall submit well permit applications to the State Engineer. In considering such permit applications, the State Engineer shall be governed by Section 37-90-137(10), C.R.S. (1985 Supp.) and the provisions of this decree. Any such permitting action may be reviewed by this Court pursuant to Section 37-92-305(6), C.R.S. (1985 Supp.).

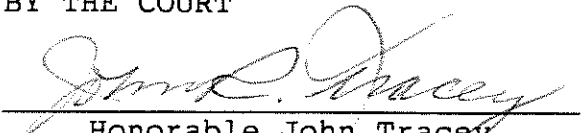
(g) For the purpose of well permit applications, Applicants need not submit separate proof, apart from the terms of this decree, of matters which have been determined herein.

35. Applicants shall geophysically log the entire bore hole of each well prior to the installation of casing. Such logs shall be taken in accordance with the applicable rules promulgated by the State Engineer. In constructing and maintaining any well which will withdraw water from the Laramie-Fox Hills Aquifer under this decree, the Applicants shall seal off and encase the well with an impervious lining at all levels, except the level of the Laramie-Fox Hills Aquifer, to prevent withdrawal of and mixing of groundwater in other aquifers and a totalizing flow meter shall be installed on each well. After construction the Applicants shall attach an identification tag to the well specifying the name of the well, the permit number and the aquifer from which the water is withdrawn. Applicants shall maintain records of the amounts pumped from each well on a monthly basis and such records shall be provided to the Division Engineer or the State Engineer on request.

36. This Court retains jurisdiction in this case for the reconsideration of the final amounts of water appropriated by the proposed wells in accord with Paragraph 29 above. The Court's retained jurisdiction may be invoked only by the Applicants and JVRC, Inc. The Court's retained jurisdiction may be invoked by written notice to the Court requesting a hearing. Copies of that notice will be served on the parties herein at their latest address of record in this case.

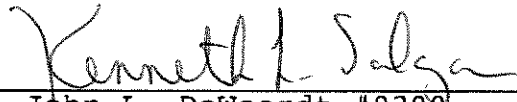
Dated this 29 day of Oct., 1986.

BY THE COURT

  
Honorable John Tracey  
Water Judge  
Water Division No. 2  
State of Colorado

APPROVED AS TO FORM AND SUBSTANCE:

SHERMAN & HOWARD

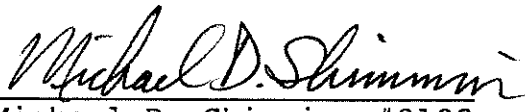
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Denver N.A., Carla W. Lewis,  
and Samuel S. Sherman as  
Cotrustees under the Life  
Insurance Trust of  
Thomas M. Dines.

c: Sherman and Howard (Salazar)  
Vranesh & Raisch (Shimmin)  
Division Engineer  
State Engineer

VRANESH & RAISCH

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JVRC, Inc.

Filed in the office of the  
Clerk, District Court Water  
Division No. 2, State of  
Colorado

OCT 29 1986

  
Clerk

EXHIBIT A

The Subject Lands consist of the following:

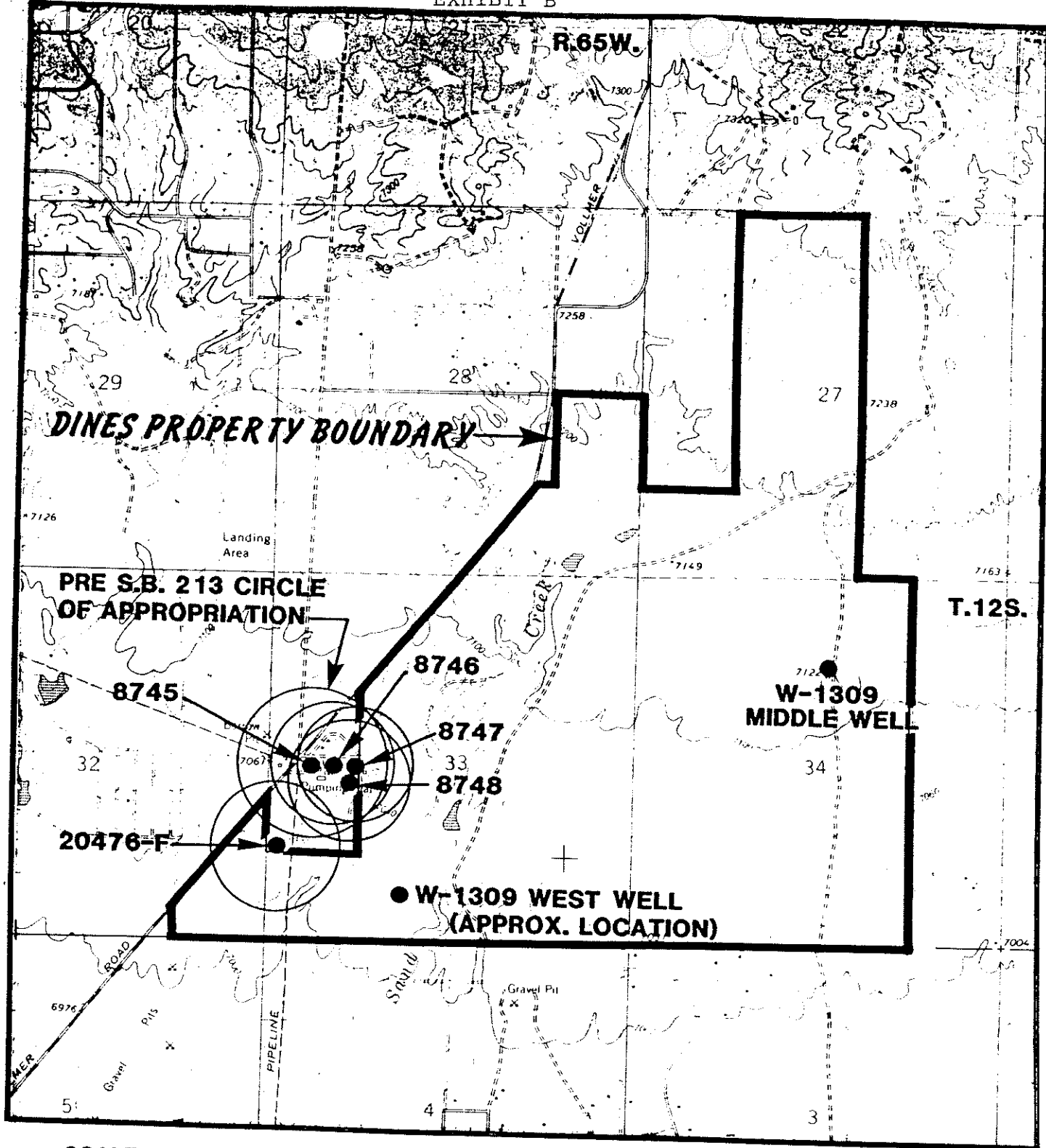
The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1/4 SW1/4 of Section 27; the E1/2 SE1/4 and that portion of the SW1/4 SE1/4 lying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, and that portion of the NE1/4 SE1/4 of said Section 32, lying South and East of said County Road; the E1/2 and the E1/2 SW1/4 and the SW1/4 SW1/4 of Section 33, and all that part of the NW1/4 of said Section 33 lying South and East of the said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road containing approximately 10 acres deeded to Colorado Interstate Gas Company by Warranty Deed recorded in Book 1173 at Page 359 of the El Paso County Records; and the W1/2 E1/2 and the W1/2 of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado.

Filed in the office of the  
Clerk, District Court Water  
Division No. 2, State of  
Colorado

OCT 29 1988

*Roseleen A. Lugo*

Clerk



SCALE 1:24000

Filed in the office of the  
Clerk, District Court Water  
Division No. 2, State of  
Colorado

## LOCATION MAP

OCT 29 1986

FIGURE 1



*Priscilla Lynne*  
Clerk

<b>DISTRICT COURT, WATER DIVISION 2, COLORADO</b>	
Court Address: 501 North Elizabeth Street, Suite 116 Pueblo, CO 81003	DATE FILED: May 31, 2017 9:37 AM CASE NUMBER: 2017CW3002
<b>CONCERNING THE APPLICATION FOR WATER RIGHTS OF:</b>	<b>▲ COURT USE ONLY ▲</b>
<b>ARROYA INVESTMENTS, LLC, JACOB DECOTO, MARVIN ORNES and TERRI WAHLBERG</b>	Case No.: 17CW3002
<b>IN EL PASO COUNTY</b>	
<b>FINDINGS OF FACT, CONCLUSIONS OF LAW, RULING OF REFEREE AND DECREE</b>	

THIS MATTER comes before the Water Referee on the Application filed by Arroya Investments, LLC, Jacob Decoto, Marvin Ornes and Terri Wahlberg, and having reviewed said Application and other pleadings on file, and being fully advised on this matter, the Water Referee makes the following findings and orders:

#### **GENERAL FINDINGS OF FACT**

1. The applicants in this case are Arroya Investments, LLC ("Arroya"), Jacob Decoto ("Decoto"), Marvin Ornes ("Ornes") and Terri Wahlberg ("Wahlberg") (collectively, "Applicants"). Applicants are, collectively, the owners of the four separately owned parcels of land totaling approximately 335.59 acres under which the groundwater sought to be adjudicated herein are located, and are likewise the owners of the place of use where the water is anticipated to be put to beneficial use.
2. The Applicants filed this Application with the Water Court for Water Division 2 on January 31, 2017. The Application was referred to the Water Referee by order of the Court dated February 2, 2017.
3. The time for filing statements of opposition to the Application expired on the last day of March, 2017, and no statements of opposition were timely filed.
4. On February 2, 2017, the Division 2 Water Court ordered that publication occur in the *Daily Transcript* within El Paso County.
5. The Clerk of this Court has caused publication of the Application filed in this matter as provided by statute and the publication costs have been paid. On February 15, 2017, proof of publication in the *Daily Transcript* was filed with the Court. All notices of the Application have been given in the manner required by law.

6. Pursuant to C.R.S. §37-92-302(2), the Office of the State Engineer has filed Determination of Facts for each aquifer with this Court dated March 14, 2017.

7. Pursuant to C.R.S. §37-92-302(4), the office of the Division Engineer for Water Division 2 filed its Consultation Report dated March 29, 2017, with the Court. The Consultation Report has been considered by the Water Referee in the entry of this Ruling.

8. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties whether they have appeared or not. The land and water rights involved in this case are not within a designated groundwater basin.

### **GROUNDWATER RIGHTS**

9. The Applicants requested the adjudication and quantification all Denver Basin groundwater in each aquifer underlying the four (4) specifically described parcels of land owned by each of the Applicants, respectively, as described herein. No plan for augmentation for the use of the not-nontributary groundwater was sought or is decreed herein. The Applicants shall construct such wells as necessary for withdrawal of Applicants' full entitlements of water supplies decreed herein. The following findings are made with respect to such underground water rights:

A. Property Description. All wells to all aquifers will be located on the Applicants respective properties. Such Properties are more specifically described as follows:

i. Arroya Parcel. The "Arroya Parcel" is an approximately 226 acre parcel located in the SE1/4 SE1/4 of Section 21, the W1/2 SW1/4 of Section 22, the E1/2 NE1/4 of Section 28, the W1/2 NW1/4 and the NW1/4 SW1/4 of Section 27, all in Township 21 South, Range 65 West of the 6<sup>th</sup> P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit A**, and depicted on attached **Exhibit E**. The Arroya Parcel is owned by Applicant Arroya Investments, LLC.

ii. West Parcel No. 1. The "West Parcel No. 1" is an approximately 36.01 acre parcel located in the SW1/4 SE1/4 and the SE1/4 SE1/4 of Section 21, and the NE1/4 NE1/4 of Section 27, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit B**, and depicted on attached **Exhibit E**. The West Parcel No. 1 is owned by Applicant Jacob Decoto.

iii. West Parcel No. 2. The "West Parcel No. 2" is an approximately 36.03 acre parcel located in the SW1/4 SE1/4 and the SE1/4 SE1/4 of Section 21, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit C**, and depicted on attached **Exhibit E**. The West Parcel No. 2 is owned by Applicant Jacob Decoto.

iv. West Parcel No. 3. The “West Parcel No. 3” is an approximately 37.58 acre parcel located in the NW1/4 SE1/4 and the NE1/4 SE1/4 of Section 21, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit D**, and depicted on attached **Exhibit E**. The West Parcel No. 3 is owned by Applicants Marvin Ornes and Terri Wahlberg.

B. Existing Wells. There is currently one (1) existing well constructed to the Dawson aquifer on West Parcel No. 2 (Decoto): DWR Permit No. 4554, an exempt domestic well. DWR Permit No. 4554 is an exempt structure; water from the Dawson aquifer sufficient to allow for such continued exempt use has been excluded from the quantification herein. Two additional exempt domestic wells have been permitted since the filing of the application in this matter, DWR Permit No. 304551 on West Parcel No. 1 (Decoto), and DWR Permit No. 304498 on West Parcel No. 3 (Ornes/Wahlberg), and are excluded from quantification herein.

C. Additional Wells. Applicants anticipated additional wells will be constructed on each the Applicants’ respective properties. To the extent any additional wells may be constructed to the not-nontributary Dawson and/or Denver aquifer(s), such wells may be constructed only pursuant to a subsequent decree providing an approved plan for augmentation, or as exempt well structures pursuant to C.R.S. §37-92-602.

10. Of the statutorily described Denver Basin aquifers, the Dawson, Denver, Arapahoe, and Laramie-Fox Hills aquifers all exist beneath the Applicants’ respective properties. The Dawson and Denver aquifers contain not-nontributary water, while the water of the Arapahoe and Laramie-Fox Hills aquifers underlying the Applicants’ respective properties is nontributary. The quantity of water in the Denver Basin aquifers exclusive of artificial recharge underlying each of the Applicants’ respective properties as allocated on a pro-rata per acre basis from the amounts described in the State Engineer’s Determination of Facts, is as follows:

A. Arroya Parcel (225.97 acres):

<b>Aquifer</b>	<b>Sand Thickness (Feet)</b>	<b>Total Ground Water Storage (Acre Feet)</b>	<b>Annual Average Withdrawal – 100 Years (Acre Feet)</b>
Dawson (NNT)	270	12,202	122
Denver (NNT)	310	11,909	119.1
Arapahoe (NT)	255	9,796	98
Laramie-Fox Hills (NT)	190	6,440	64.4

B. West Parcel No. 1 (Decoto – 36.01 acres):

<b>Aquifer</b>	<b>Sand Thickness (Feet)</b>	<b>Total Ground Water Storage (Acre Feet)</b>	<b>Annual Average Withdrawal – 100 Years (Acre Feet)</b>
Dawson (NNT)	270	1,944.4	16.44 <sup>1</sup>
Denver (NNT)	310	1,897.7	18.98
Arapahoe (NT)	255	1,561	15.61
Laramie-Fox Hills (NT)	190	1,026.2	10.26

C. West Parcel No. 2 (Decoto – 36.03 acres):

<b>Aquifer</b>	<b>Sand Thickness (Feet)</b>	<b>Total Ground Water Storage (Acre Feet)</b>	<b>Annual Average Withdrawal – 100 Years (Acre Feet)</b>
Dawson (NNT)	270	1,945.4	16.45 <sup>2</sup>
Denver (NNT)	310	1,898.8	18.99
Arapahoe (NT)	255	1,562	15.62
Laramie-Fox Hills (NT)	190	1,026.8	10.27

D. West Parcel No. 3 (Ornes & Wahlberg – 37.58 acres):

<b>Aquifer</b>	<b>Sand Thickness (Feet)</b>	<b>Total Ground Water Storage (Acre Feet)</b>	<b>Annual Average Withdrawal – 100 Years (Acre Feet)</b>
Dawson (NNT)	270	2,029.2	17.29 <sup>3</sup>
Denver (NNT)	310	1,980.5	19.80
Arapahoe (NT)	255	1,629	16.29
Laramie-Fox Hills (NT)	190	1,071	10.7

<sup>1</sup> Three (3) annual acre feet of Dawson groundwater has been reserved from quantification herein for permitting of an exempt domestic well on this parcel pursuant to C.R.S. §37-92-602, *et seq.*, recently permitted as DWR Permit No. 304551.

<sup>2</sup> Three (3) annual acre feet of Dawson groundwater has been reserved from quantification herein for continued use of DWR Permit No. 4554 as an exempt domestic well on this parcel pursuant to C.R.S. §37-92-602, *et seq.*

<sup>3</sup> Three (3) annual acre feet of Dawson groundwater has been reserved from quantification herein for permitting of an exempt domestic well on this parcel pursuant to C.R.S. §37-92-602, *et seq.*, recently permitted as DWR Permit No. 304498.

11. Pursuant to §37-90-137(9)(c.5)(I), C.R.S., the augmentation requirements for wells in the Dawson aquifer require the replacement to the effected stream systems of actual stream depletions on an annual basis, to the extent necessary to prevent injurious effect, based upon actual aquifer conditions. The augmentation requirements for wells to the Denver aquifer are for 4% of pumping. Applicants shall not be entitled to construct a non-exempt well or use water from the not-nontributary Dawson or Denver aquifers except pursuant to an approved augmentation plan in accordance with C.R.S. §37-90-137(9)(c.5).

12. Applicants shall be entitled to withdraw all legally available groundwater in the Denver Basin aquifers underlying Applicants' respective properties. Said amounts can be withdrawn over the 100-year life for the aquifers as set forth in C.R.S. §37-90-137(4), or withdrawn over a longer period of time based upon local governmental regulations or Applicants' water needs. The average annual amounts of ground water available for withdrawal from the underlying Denver Basin aquifers, based upon the 100-year aquifer life is determined and set forth above, based upon the March 14, 2017 Office of the State Engineer Determination of Facts. Such groundwater may be withdrawn from wells located upon the overlying land or contiguous properties with such contiguity to allow such withdrawal, consistent with the Denver Basin Rules as promulgated by the Office of the State Engineer, as may be amended from time to time.

13. Applicants shall be entitled to withdraw an amount of groundwater in excess of the average annual amount decreed herein from the Denver Basin aquifers underlying Applicants' respective properties, so long as the sum of the total withdrawals from wells in the aquifer does not exceed the product of the number of years since the date of issuance of the original well permit or the date of entry of the decree herein, whichever comes first, and the annual volume of water which Applicants are entitled to withdraw from the aquifer underlying Applicants' respective properties.

14. The Applicants shall have the right to use the ground water for beneficial uses on or off the Applicants' respective properties consisting of domestic, commercial, irrigation, stock water, recreation, wildlife, wetlands, fire protection, piscatorial, and for storage and augmentation associated with such uses. The amount of groundwater decreed for such uses upon the Applicants' respective properties is reasonable as such uses are to be made for the long term use and enjoyment of the Applicants' respective properties and are to establish and provide for adequate water reserves. The nontributary groundwater, may be used, reused, and successively used to extinction, both on and off the Applicants' respective properties subject, however, to the relinquishment of the right to consume two percent of such nontributary water withdrawn. Applicants may use such water by immediate application or by storage and subsequent application to the beneficial uses and purposes stated herein. Provided however, as set forth above, Applicants shall only be entitled to construct a non-exempt well or use water from the not-nontributary Dawson and Denver aquifers pursuant to a decreed augmentation plan entered by the Court. Withdrawals of groundwater available from the nontributary aquifers beneath the Applicants' respective properties in the

amounts determined in accordance with the provisions of this decree will not result in material injury to any other vested water rights or to any other owners or users of water.

15. Applicants may construct such wells on their respective properties as necessary for the withdrawal of all entitlements from each aquifer as described above, and such withdrawals may be made through any combination of wells. As to each of Applicants' respective properties, these wells shall be treated as a well field.

### **CONCLUSIONS OF LAW**

16. The application for adjudication of Denver Basin groundwater was filed with the Water Clerk for Water Division 2 pursuant to C.R.S. §§37-92-302(1)(a) and 37-90-137(9)(c).

17. The Applicants' request for adjudication of these water rights is contemplated and authorized by law, and this Court and the Water Referee have exclusive jurisdiction over these proceedings. C.R.S. §§37-92-302(1)(a), 37-92-203, and 37-92-305.

18. Subject to the terms of this decree, the Applicants are entitled to the sole right to withdraw all the legally available water in the Denver Basin aquifers underlying the Applicants' respective properties, and the right to use that water to the exclusion of all others subject to the terms of this decree.

19. The Applicants have complied with C.R.S. §37-90-137(4), and the groundwater is legally available for withdrawal by the requested nontributary well(s), and legally available for withdrawal by the requested not-nontributary well(s) upon the entry of a subsequent decree approving an augmentation plan pursuant to C.R.S. §37-90-137(9)(c.5). Applicants are entitled to a decree from this Court confirming their rights to withdraw groundwater pursuant to C.R.S. §37-90-137(4).

20. The Denver Basin water rights applied for in this case are not conditional water rights, but are vested water rights determined pursuant to C.R.S. §37-90-137(4). No applications for diligence are required. The claims for nontributary and not-nontributary groundwater meet the requirements of Colorado Law.

21. The determination and quantification of the nontributary and not-nontributary groundwater rights in the Denver Basin aquifers as set forth herein is contemplated and authorized by law. C.R.S. §§37-90-137, and 37-92-302 through 37-92-305.

**IT IS THEREFORE ORDERED, ADJUDGED AND DECREED AS FOLLOWS:**

22. All of the foregoing Findings of Fact and Conclusions of Law are incorporated herein by reference, and are considered to be a part of this decretal portion as though set forth in full.

23. The Application for Adjudication of Denver Basin Groundwater proposed by the Applicants is approved, subject to the terms of this decree.

24. The Applicants have furnished acceptable proof as to all claims and, therefore, the Application for Adjudication of Groundwater as requested by the Applicants is granted and approved in accordance with the terms and conditions of this decree. Approval of this Application will not result in any material injury to senior vested water rights.

25. The Applicants shall comply with C.R.S. §37-90-137(9)(b), requiring the relinquishment of the right to consume two percent (2%) of the amount of the nontributary groundwater withdrawn. Ninety-eight percent (98%) of the nontributary groundwater withdrawn may therefore be consumed. No plan for augmentation shall be required to provide for such relinquishment.

26. The Court retains jurisdiction over this matter to make adjustments in the allowed average annual amount of withdrawal from the Denver Basin aquifers, either upwards or downwards, to conform to actual local aquifer characteristic, and that the Applicants need not refile, republish, or otherwise amend this application to request such adjustments.

A. At such time as adequate data may be available, Applicant or the State Engineer may invoke the Court's retained jurisdiction as provided in this Paragraph 26 for purposes of making a final determination of water rights as to the quantities of water available and allowed average annual withdrawals from any of the Denver Basin aquifers quantified and adjudicated herein. Any person seeking to invoke the Court's retained jurisdiction for such purpose shall file a verified petition with the Court setting forth with particularity the factual basis for such final determination of Denver Basin water rights under this decree, together with the proposed decretal language to effect the petition. Within four months of the filing of such verified petition, the State Engineer's Office shall utilize such information as available to make a final determination of water rights finding, and shall provide such information to the Court, Applicant, and the petitioning party.

B. If no protest is filed with the Court to such findings by the State Engineer's Office within sixty (60) days, this Court shall incorporate by entry of an Amended Decree such "final determination of water rights", and the provisions of this Paragraph 26 concerning adjustments to the Denver Basin ground water rights based upon local aquifer conditions shall no longer be applicable. In the event of a protest

being timely filed, or should the State Engineer's Office make no timely determination as provided in Paragraph 26.A., above, the "final determination of water rights" sought in the petition may be made by the Water Court after notice to all parties and following a full and fair hearing, including entry of an Amended Decree, if applicable in the Court's reasonable discretion.

27. Pursuant to C.R.S. §37-92-502(5)(a), the Applicants shall install and maintain such water measurement devices and recording devices as are deemed essential by the State Engineer or Division Engineers, and the same shall be installed and operated in accordance with instructions from said entities. Applicants are to install and maintain a totalizing flow meter on all wells, and any additional or replacement wells. Applicants are also to maintain records and provide reports to the State Engineer or Division Engineers as instructed by said entities, on at least an annual basis.

28. The vested water rights and water right structures decreed herein shall be subject to all applicable administrative rules and regulations, as currently in place or as may in the future be promulgated, of the offices of Colorado State and Division Engineers for administration of such water rights, to the extent such rules and regulations are uniformly applicable to other similarly situated water rights and water users.

29. This Ruling of Referee, when entered as a decree of the Water Court, shall be recorded in the real property records of El Paso County, Colorado. Copies of this ruling shall be mailed as provided by statute.

DATED THIS 5th day of May, 2017.

BY THE REFEREE:



*Mardell R. DiDomenico*

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Mardell R. DiDomenico, Water Referee  
Water Division 2

## DECREE

THE COURT FINDS THAT NO PROTEST WAS MADE IN THIS MATTER, THEREFOR THE FORGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

Dated: May 31, 2017.



BY THE COURT:

  
LARRY C. SCHWARTZ, WATER JUDGE  
WATER DIVISION 2

## EXHIBIT A

### LEGAL DESCRIPTION – ARROYA PARCEL

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21 AND A PORTION OF THE SOUTHWEST ONE-QUARTER OF SECTION 22, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27;  
THENCE S88°38'56"W ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1047.88 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S88°38'56"W CONTINUING ALONG SAID NORTH LINE, A DISTANCE OF 283.03 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27 SAID POINT ALSO BEING A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE ALONG THE EASTERLY AND NORTHERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

1. N00°37'14"W SAID LINE ALSO BEING THE WEST LINE OF THE SOUTHWEST ONE-QUARTER (SW1/4) OF SAID SECTION 22, A DISTANCE OF 30.00 FEET;
2. S89°40'23"W, A DISTANCE OF 736.82 FEET TO THE POINT OF INTERSECTION OF THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF SAID COUNTY RECORDS;

THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1798.07 FEET;

THENCE N59°58'50"E, A DISTANCE OF 694.83 FEET;

THENCE S14°30'58"E, A DISTANCE OF 567.09 FEET;

THENCE N69°36'18"E, A DISTANCE OF 603.87 FEET;

THENCE S30°23'46"E, A DISTANCE OF 264.58 FEET;

THENCE S61°52'38"W, A DISTANCE OF 227.40 FEET;

THENCE S79°15'47"W, A DISTANCE OF 276.17 FEET;

THENCE S89°39'18"W, A DISTANCE OF 356.07 FEET;

THENCE S40°09'47"W, A DISTANCE OF 310.61 FEET;

THENCE S09°56'46"W, A DISTANCE OF 270.03 FEET;

THENCE S35°00'25"W, A DISTANCE OF 167.38 FEET;

THENCE S57°24'01"W, A DISTANCE OF 235.36 FEET;

THENCE S27°23'34"E, A DISTANCE OF 611.29 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 35.08 ACRES OF LAND, MORE OR LESS.

Along With:

A PARCEL OF LAND BEING THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (SW1/4 NW1/4) OF SECTION 27, THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SECTION 27, A PORTION OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER OF SECTION 28 AND A PORTION OF THE NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4) OF SECTION 28, ALL IN TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S00°54'30"E ALONG THE EAST LINE OF THE WEST ONE-HALF (W1/2) OF SAID SECTION 27, A DISTANCE OF 3925.63 FEET TO THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27;

THENCE S87°35'00"W ALONG THE SOUTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1332.78 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4);

THENCE N00°53'18"W ALONG THE WEST LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1316.78 FEET TO THE NORTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4);

THENCE S89°08'28"W ALONG THE SOUTH LINE OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4) OF SECTION 28, A DISTANCE OF 1326.68 FEET TO THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4);

THENCE N00°30'49"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4), A DISTANCE OF 1270.77 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN

BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1450.84 FEET TO THE POINT OF INTERSECTION OF THE SOUTHERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF SAID COUNTY RECORDS;

THENCE ALONG THE SOUTHERLY AND EASTERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

1. N89°40'23"E, A DISTANCE OF 761.52 FEET TO A POINT ON THE EAST LINE OF SAID NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4);
2. N00°52'58"W ALONG SAID EAST LINE, A DISTANCE OF 30.00 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27;

THENCE N88°38'56"E ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW 1/4 NW 1/4), A DISTANCE OF 1330.91 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 190.89 ACRES OF LAND, MORE OR LESS.

## EXHIBIT B

### LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 1:

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21 AND A PORTION OF THE NORTHEAST ONE-QUARTER (NE1/4) OF SECTION 28, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: THE WEST LINE OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 65 WEST IS ASSUMED TO BEAR N00°25'32"W, A DISTANCE OF 2638.53 FEET.

COMMENCING AT THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER (SE1/4), SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED:

THENCE N00°25'32"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER (SE1/4), A DISTANCE OF 650.11 FEET.

THENCE N89°40'31"E, A DISTANCE OF 2077.12 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF VOLLMER ROAD AS DESCRIBED IN THE DOCUMENT RECORDED IN BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER.

THENCE S21°41'10"W ALONG SAID WESTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 2013.88 FEET TO A POINT ON THE EAST LINE OF THE NORTHWEST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NW1/4 NE1/4) OF SAID SECTION 28.

THENCE N00°41'17"W ALONG SAID EAST LINE, A DISTANCE OF 1212.12 FEET TO THE SOUTHEAST CORNER OF THE SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER (SW1/4 SE1/4) OF SAID SECTION 21;

THENCE S89°40'14"W ALONG THE SOUTH LINE OF SAID SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER (SW1/4 SE1/4), A DISTANCE OF 1343.49 FEET TO THE POINT OF BEGINNING.

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 38.01 ACRES OF LAND, MORE OR LESS.

## EXHIBIT C

### LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 2:

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS. THE WEST LINE OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 65 WEST IS ASSUMED TO BEAR N00°25'32"W, A DISTANCE OF 3638.53 FEET;

COMMENCING AT THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER (SE1/4);

THENCE N00°25'32"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER (SE1/4), A DISTANCE OF 650.13 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE N00°25'32"W CONTINUING ALONG SAID WEST LINE, A DISTANCE OF 706.70 FEET;

THENCE N89°40'31"E, A DISTANCE OF 2364.04 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF VOLLMER ROAD AS DESCRIBED IN THE DOCUMENT RECORDED IN BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE S21°41'10"W ALONG SAID WESTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 762.36 FEET;

THENCE S89°40'31"W, A DISTANCE OF 2077.12 FEET TO THE POINT OF BEGINNING.

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 38.03 ACRES OF LAND, MORE OR LESS.

## EXHIBIT D

### LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 3:

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: THE WEST LINE OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 65 WEST IS ASSUMED TO BEAR N00°25'32"W, A DISTANCE OF 2658.53 FEET;

COMMENCING AT THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER (SE1/4);  
THENCE N00°25'32"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER (SE1/4), A DISTANCE OF 1356.81 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;  
THENCE N00°25'32"W CONTINUING ALONG SAID WEST LINE, A DISTANCE OF 656.30 FEET;  
THENCE N88°40'31"E, A DISTANCE OF 2590.16 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF VOLLMER ROAD AS DESCRIBED IN THE DOCUMENT RECORDED IN BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE ALONG SAID WESTERLY RIGHT-OF-WAY LINE THE FOLLOWING TWO (2) COURSES:

1. S00°37'14"E, A DISTANCE OF 96.54 FEET;
2. S21°16'10"W, A DISTANCE OF 801.81 FEET;

THENCE S88°40'31"W, A DISTANCE OF 2364.04 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 37.58 ACRES OF LAND, MORE OR LESS.

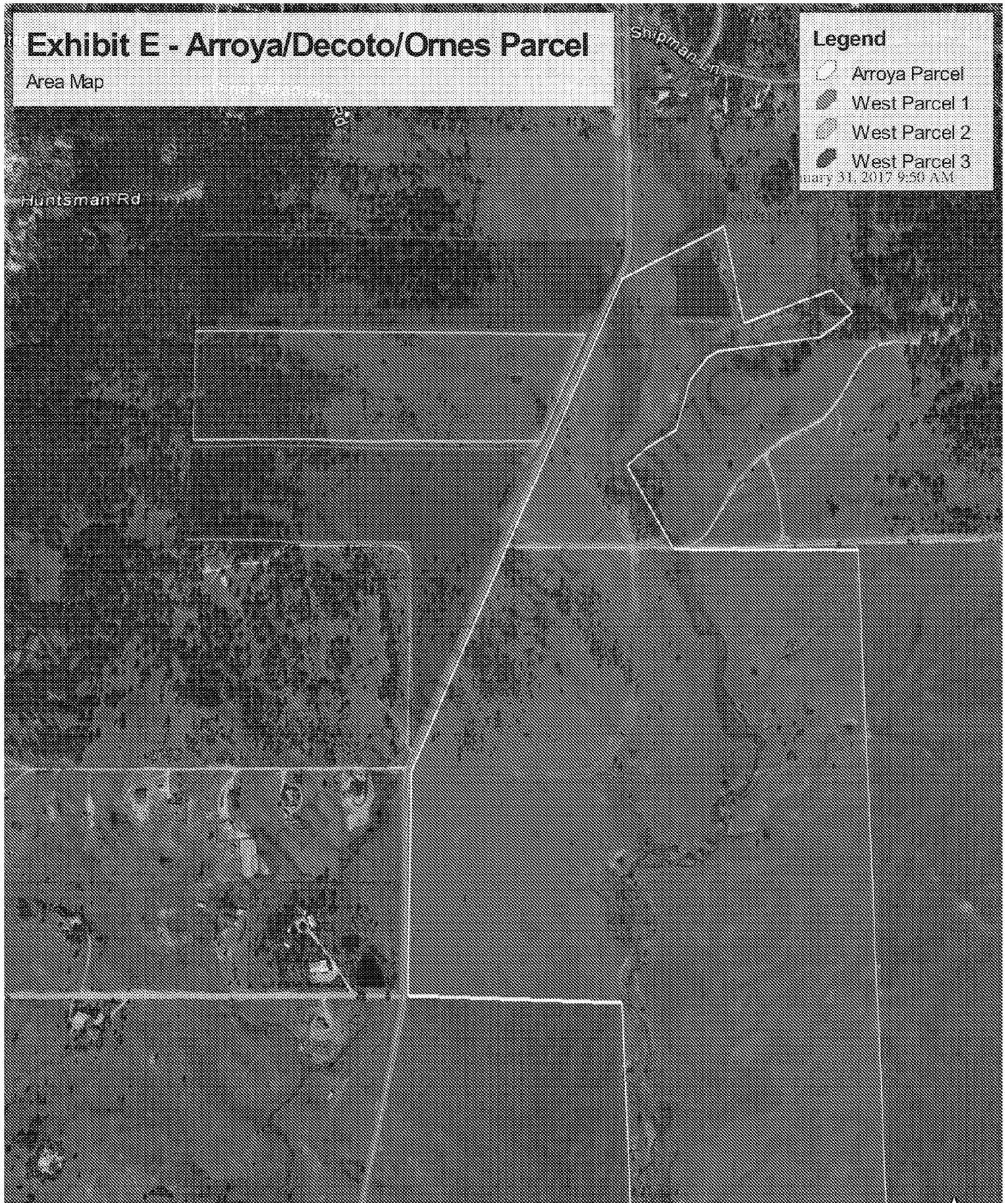
# Exhibit E - Arroya/Decoto/Ornes Parcel

Area Map

## Legend

- Arroya Parcel
- West Parcel 1
- West Parcel 2
- West Parcel 3

January 31, 2017 9:50 AM



<b>DISTRICT COURT, WATER DIVISION 2, CO</b> Court Address: 501 North Elizabeth Street, Suite 116 Pueblo, CO 81003 Phone Number: (719) 404-8832	DATE FILED: August 9, 2018 3:38 PM CASE NUMBER: 2018CW3002
<b>CONCERNING THE APPLICATION FOR WATER RIGHTS OF:</b>  <b>ARROYA INVESTMENTS, LLC</b>  <b>IN EL PASO COUNTY</b>	▲ COURT USE ONLY ▲  <b>Case No.: 18CW3002</b> (17CW3002)
<b>FINDINGS OF FACT, CONCLUSIONS OF LAW, RULING OF REFEREE AND DECREE</b>	

THIS MATTER comes before the Water Referee on the Application filed by Arroya Investments, LLC, and having reviewed said Application and other pleadings on file, and being fully advised on this matter, the Water Referee makes the following findings and orders:

### GENERAL FINDINGS OF FACT

1. The applicant in this case is Arroya Investments, LLC, whose address is 1283 Kelly Johnson Blvd., Colorado Springs, CO 80920 ("Applicant"). Applicant is the owner of the land totaling approximately 72.5 acres (a portion of the larger 225.97-acre Arroya Parcel previously adjudicated in Case No. 17CW3002), on which the structures sought to be adjudicated herein are located, and are the owners of the place of use where the water will be put to beneficial use.

2. The Applicant filed this Application with the Water Court for Water Division 2 on January 9, 2018. The Application was referred to the Water Referee in Division 2 on or about January 18, 2018.

3. The time for filing statements of opposition to the Application expired on the last day of March 2018. No Statements of Opposition were timely filed.

4. On January 18, 2018, the Water Court, Division 2 ordered that publication occur in the *Daily Transcript* within El Paso County.

5. The Clerk of this Court has caused publication of the Application filed in this matter as provided by statute and the publication costs have been paid. On February 15, 2018, proof of publication in the *Daily Transcript* was filed with Water

Court Division 2. All notices of the Application have been given in the manner required by law.

6. Pursuant to C.R.S. §37-92-302(4), the office of the Division Engineer for Water Division 2 has filed its Consultation Report dated May 2, 2018, with the Court, and a Response to the Consultation Report was filed by the Applicant on June 26, 2018. Both the Consultation Report and Response have been considered by the Water Referee in the entry of this Ruling.

7. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties whether they have appeared or not. The land and water rights involved in this case are not within a designated groundwater basin.

8. The Applicant, consistent with the decree entered in Case No. 17CW3002, seeks to utilize ground water rights granted therein for the construction of Timber Ridge Wells Nos. 1 through 29 to the Dawson aquifer, and additional or replacement wells associated therewith, for withdrawal of Applicant's full entitlements of supply under the plan for augmentation sought herein.

9. The land overlying the groundwater subject to the adjudication in this case is owned by the Applicant and was previously quantified in Case No. 17CW3002, which concerned a 225.97 acre parcel of land located in El Paso County, Colorado ("Arroya Parcel"). The land relevant to this decree consists of an approximately 72.5 acre portion of the larger Arroya Parcel as described in Case No. 17CW3002, located in a portion of the SE<sup>1</sup>/<sub>4</sub> of Section 21 and a portion of the SW<sup>1</sup>/<sub>4</sub> of Section 22, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M., El Paso County, Colorado, as more particularly described on the attached **Exhibit A**, and depicted on the attached **Exhibit B** map ("Subject Property"). Applicant intends to subdivide the property into up to twenty-nine (29) lots of approximately 2.5 acres each. All groundwater adjudicated herein shall be withdrawn from the overlying land.

10. Timber Ridge Wells Nos. 1 through 29: Each of the Timber Ridge Wells Nos. 1 through 29 are to be constructed to the not-nontributary Dawson aquifer pursuant to the Plan for Augmentation decreed herein to provide domestic water supplies to a single family residence to be located upon the subdivided Subject Property. Upon entry of this decree and submittal by the Applicant of a complete well permit application and filing fee, the State Engineer shall issue a revised permit for Timber Ridge Wells Nos. 1 through 29 pursuant to C.R.S. §37-90-137(4), consistent with and references the Plan for Augmentation decreed herein.

### **PLAN FOR AUGMENTATION**

11. The structures to be augmented are Timber Ridge Wells Nos. 1 through 29 in the not-nontributary Dawson aquifer underlying the Applicant's Property, along with any additional or replacement wells associated therewith.

12. Pursuant to C.R.S. §37-90-137(9)(c.5), the augmentation obligation for Timber Ridge Wells Nos. 1 through 29, and any additional or replacement wells constructed to the Dawson aquifer requires the replacement of actual stream depletions to the extent necessary to prevent any injurious effect. The water rights to be used for augmentation during pumping are the septic return flows of the not-nontributary Timber Ridge Wells Nos. 1 through 29, to be pumped as set forth in this plan for augmentation. The water rights to be used for augmentation after pumping are a reserved portion of Applicant's nontributary water rights in the Laramie-Fox Hills aquifers. Applicant shall provide for the augmentation of stream depletions caused by pumping the Timber Ridge Wells Nos. 1 through 29 as approved herein. Water use criteria as follows:

A. Use: The Timber Ridge Wells Nos. 1 through 29 may each pump up to 0.32 acre feet of water per year, for a maximum total of 9.32 acre feet being withdrawn from the Dawson aquifer annually. Households will utilize up to 0.26 acre feet of water per year per residence, with the additional pumping available for landscape irrigation, the watering of horses or equivalent livestock, and other beneficial uses decreed in 17CW3002 at each residence. The foregoing figures assume the use of 29 septic systems, with resulting return flows from each. Should Applicant subdivide Applicant's property into fewer than 29 lots, both depletions and return flows for the replacement of the same will be correspondingly reduced, though pumping for uses other than household use may be increased provided at all times septic return flows shall replace the maximum depletions resulting from pumping.

B. Depletions: Applicant has determined that maximum stream depletions over the 300-year pumping period will amount to approximately fifty-six percent (56%) of pumping. Maximum annual depletions for total residential pumping from all wells is therefore 5.22 acre feet in year 300. Should Applicant's pumping be less than the 0.32 acre feet per lot described herein, or should fewer lots be developed, resulting depletions and required replacements will be correspondingly reduced.

C. Augmentation of Depletions During Pumping Life of Wells: Depletions during pumping will be effectively replaced by residential return flows from non-evaporative septic systems. The annual consumptive use for non-evaporative septic systems is 10% per year per residence. At a conservatively estimated household use rate of 0.18 acre feet per residence per year (rather than the full 0.26 acre feet annually), a total of 5.22 acre feet is replaced to the stream system per year, utilizing non-evaporative septic systems, assuming all 29 wells are utilized. With maximum depletions from the pumping of 29 wells at 0.18 acre feet, and anticipated replacement of 5.22 acre feet annually, during pumping, stream depletions will be adequately augmented.

D. Augmentation of Post Pumping Depletions: This plan for augmentation shall have a pumping period of a minimum of 300 years. For the replacement of any injurious post-pumping depletions which may be associated with the use of the Timber Ridge Wells Nos. 1 through 29, Applicant will reserve up to 2,796

acre feet of water from the nontributary Laramie Fox Hills aquifer, less actual stream depletions replaced during the plan pumping period as necessary to replace any injurious post pumping depletions. Applicant also reserves the right to substitute other legally available augmentation sources for such post pumping depletions upon further approval of the Court under its retained jurisdiction. Even though this reservation is made, under the Court's retained jurisdiction, Applicant reserves the right in the future to prove that post pumping depletions will be noninjurious. The reserved nontributary Laramie-Fox Hills groundwater will be used to replace any injurious post-pumping depletions. Upon entry of a decree in this case, the Applicant will be entitled to apply for and receive a new well permit for the Timber Ridge Wells Nos. 1 through 29 for the uses in accordance with this Application and otherwise in compliance with C.R.S. §37-90-137.

13. This decree, upon recording, shall constitute a covenant running with Applicant's Property, benefitting and burdening said land, and requiring construction of well(s) to the nontributary Laramie-Fox Hills aquifer and pumping of water to replace any injurious post-pumping depletions under this decree. Subject to the requirements of this decree, in order to determine the amount and timing of post-pumping replacement obligations, if any, under this augmentation plan, Applicant or its successors shall use information commonly used by the Colorado Division of Water Resources for augmentation plans of this type at the time. Pursuant to this covenant, the water from the nontributary Laramie-Fox Hills aquifer reserved herein may not be severed in ownership from the overlying subject property. This covenant shall be for the benefit of, and enforceable by, third parties owning vested water rights who would be materially injured by the failure to provide for the replacement of post-pumping depletions under the decree, and shall be specifically enforceable by such third parties against the owner of the Applicant's Property.

14. Applicant or its successors shall be required to initiate pumping from the Laramie-Fox Hills aquifer for the replacement of post-pumping depletions when either: (i) the absolute total amount of water available from the Dawson aquifer allowed to be withdrawn under the plan for augmentation decreed herein has been pumped; (ii) the Applicant or its successors in interest have acknowledged in writing that all withdrawals for beneficial use through the Timber Ridge Wells Nos. 1 through 29 have permanently ceased, (iii) a period of 10 consecutive years where either no withdrawals of groundwater has occurred, or (iv) accounting shows that return flows from the use of the water being withdrawn is insufficient to replace depletions caused by the withdrawals that already occurred.

15. Accounting and responsibility for post-pumping depletions in the amount set forth herein shall continue for the shortest of the following periods: (i) the period provided by statute; (ii) the period specified by any subsequent change in statute; (iii) the period required by the Court under its retained jurisdiction; (iv) the period determined by the State Engineer; or (v) the period as established by Colorado Supreme Court final decisions. Should Applicant's obligation hereunder to account for and replace such post-pumping stream depletions be abrogated for any reason, then

the Laramie-Fox Hills aquifer groundwater reserved for such a purpose shall be free from the reservation herein and such groundwater may be used or conveyed by its owner without restriction for any post-pumping depletions.

16. The term of this augmentation plan is for a minimum of 300 years, however, the length of the plan for a particular well or wells may be extended beyond such time provided the total plan pumping allocated to such well or wells is not exceeded. Should the actual operation of this augmentation plan depart from the planned diversions described herein such that annual diversions are increased or the duration of the plan is extended, the Applicant must prepare and submit a revised model of stream depletions caused by the actual pumping schedule. This analysis must utilize depletion modeling acceptable to the State Engineer, and to this Court, and must represent the water use under the plan for the entire term of the plan to date. The analysis must show that return flows have equaled or exceeded actual stream depletions throughout the pumping period and that reserved nontributary water remains sufficient to replace post-pumping depletions.

17. Consideration has been given to the depletions from Applicant's use and proposed uses of water, in quantity, time and location, together with the amount and timing of augmentation water which will be provided by the Applicant, and the existence, if any, injury to any owner of or person entitled to use water under a vested water right.

18. It is determined that the timing, quantity and location of replacement water under the protective terms in this decree are sufficient to protect the vested rights of other water users and eliminate material injury thereto. The replacement water shall be of a quantity and quality so as to meet the requirements for which the water of senior appropriators has normally been used, and provided of such quality, such replacement water shall be accepted by the senior appropriators for substitution for water derived by the exercise of the Timber Ridge Wells Nos. 1 through 29. As a result of the operation of this plan for augmentation, the depletions from the Timber Ridge Wells Nos. 1 through 29 and any additional or replacement wells associated therewith will not result in material injury to the vested water rights of others.

### **CONCLUSIONS OF LAW**

19. The Applicant's request for adjudication of the plan for augmentation decreed herein is contemplated and authorized by law, and this Court and the Water Referee have exclusive jurisdiction over these proceedings. C.R.S. §§37-92-302(1)(a), 37-92-203, and 37-92-305.

20. Subject to the terms of the 17CW3002 decree, the Applicant is entitled to the sole right to withdraw all the legally available water in the Denver Basin aquifers underlying the Applicant's Property, and the right to use that water to the exclusion of all others subject to the terms of said 17CW3002 decree.

21. The Applicant's request for approval of a plan for augmentation is contemplated and authorized by law. If administered in accordance with this decree, this plan for augmentation will permit the uninterrupted diversions from the Timber Ridge Wells Nos. 1 through 29 without adversely affecting any other vested water rights in the Arkansas River or its tributaries and when curtailment would otherwise be required to meet a valid senior call for water. C.R.S. §§37-92-305(3),(5), and (8).

**IT IS THEREFORE ORDERED, ADJUDGED AND DECREED AS FOLLOWS:**

22. All of the foregoing Findings of Fact and Conclusions of Law are incorporated herein by reference, and are considered to be a part of this decretal portion as though set forth in full.

23. The Application for Adjudication of Denver Basin Groundwater and for Approval of Plan for Augmentation proposed by the Applicant is approved, subject to the terms of this decree.

24. The Applicant has furnished acceptable proof as to all claims and, therefore, the Application for Adjudication of Groundwater and Plan for Augmentation, as requested by the Applicant, is granted and approved in accordance with the terms and conditions of this decree. Approval of this Application will not result in any material injury to senior vested water rights.

25. The Applicant shall comply with C.R.S. §37-90-137(9)(b), requiring the relinquishment of the right to consume two percent (2%) of the amount of the nontributary groundwater withdrawn. Ninety-eight percent (98%) of the nontributary groundwater withdrawn may therefore be consumed. No plan for augmentation shall be required to provide for such relinquishment.

26. The State Engineer, the Division Engineer, and/or the Water Commissioner shall not curtail the diversion and use of water covered by the Timber Ridge Wells Nos. 1 through 29 so long as the return flows from the annual diversions associated with the Timber Ridge Wells Nos. 1 through 29 accrue to the stream system pursuant to the conditions contained herein. To the extent that Applicant or one of its successors or assigns is ever unable to provide the replacement water required, then the Timber Ridge Wells Nos. 1 through 29 shall not be entitled to operate under the protection of this plan, and shall be subject to administration and curtailment in accordance with the laws, rules, and regulation of the State of Colorado. Pursuant to C.R.S. §37-92-305(8), the State Engineer shall curtail all out-of-priority diversions which are not so replaced as to prevent injury to vested water rights. In order for this plan for augmentation to operate, return flows from the one or both of the septic systems discussed herein, as appropriate, shall at all times during pumping be in an amount sufficient to replace the amount of stream depletions.

27. Pursuant to C.R.S. §37-92-304(6), the Court shall retain continuing jurisdiction over the plan for augmentation decreed herein for reconsideration of the question of whether the provisions of this decree are necessary and/or sufficient to prevent injury to vested water rights of others, as pertains to the use of Denver Basin groundwater supplies adjudicated herein, including for augmentation purposes.

28. Except as otherwise specifically provided in Paragraph 28, above, pursuant to the provisions of C.R.S. §37-92-304(6), this plan for augmentation decreed herein shall be subject to the reconsideration of this Court on the question of material injury to vested water rights of others, for a period of five (5) years, except as otherwise provided herein. Any person, within such period, may petition the Court to invoke its retained jurisdiction. Any person seeking to invoke the Court's retained jurisdiction shall file a verified petition with the Court setting forth with particularity the factual basis for requesting that the Court reconsider material injury to petitioner's vested water rights associated with the operation of this decree, together with proposed decretal language to effect the petition. The party filing the petition shall have the burden of proof of going forward to establish a prima facie case based on the facts alleged in the petition. If the Court finds those facts are established, Applicant shall thereupon have the burden of proof to show: (i) that the petitioner is not materially injured, or (ii) that any modification sought by the petitioner is not required to avoid material injury to the petitioner, or (iii) that any term or condition proposed by Applicant in response to the petition does avoid material injury to the petitioner. The Division of Water Resources as a petitioner shall be entitled to assert material injury to the vested water rights of others. If no such petition is filed within such period and the retained jurisdiction period is not extended by the Court in accordance with the revisions of the statute, this matter shall become final under its own terms.

29. Pursuant to C.R.S. §37-92-502(5)(a), the Applicant shall install and maintain such water measurement devices and recording devices as are deemed essential by the State Engineer or Division Engineers, and the same shall be installed and operated in accordance with instructions from said entities. Applicant is to install and maintain a totalizing flow meters on all Timber Ridge Wells or any additional or replacement wells associated therewith. Applicant is also to maintain records and provide reports to the State Engineer or Division Engineers as instructed by said entities, on at least an annual basis.

30. The vested water rights, water right structures, and plan for augmentation decreed herein shall be subject to all applicable administrative rules and regulations, as currently in place or as may in the future be promulgated, of the offices of Colorado State and Division Engineers for administration of such water rights, to the extent such rules and regulations are uniformly applicable to other similarly situated water rights and water users.

31. This Ruling of Referee, when entered as a decree of the Water Court, shall be recorded in the real property records of El Paso County, Colorado. Copies of this ruling shall be mailed as provided by statute.

DATED THIS 18th day of July, 2018.

BY THE REFEREE:

*Mardell R. DiDomenico*



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Mardell R. DiDomenico, Water Referee  
Water Division 2

**DECREE**

THE COURT FINDS THAT NO PROTEST WAS MADE IN THIS MATTER, THEREFOR  
THE FORGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY  
MADE THE JUDGMENT AND DECREE OF THIS COURT.

Dated: August 9<sup>th</sup>, 2018.



BY THE COURT:

*Larry C. Schwartz*

LARRY C. SCHWARTZ, WATER JUDGE  
WATER DIVISION 2

# EXHIBIT A

## LEGAL DESCRIPTION – ARROYA PARCEL

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21 AND A PORTION OF THE SOUTHWEST ONE-QUARTER OF SECTION 22, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27;  
THENCE S88°38'56"W ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1047.88 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S88°38'56"W CONTINUING ALONG SAID NORTH LINE, A DISTANCE OF 283.03 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27 SAID POINT ALSO BEING A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE ALONG THE EASTERLY AND NORTHERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

1. N00°37'14"W SAID LINE ALSO BEING THE WEST LINE OF THE SOUTHWEST ONE-QUARTER (SW1/4) OF SAID SECTION 22, A DISTANCE OF 30.00 FEET;
2. S89°40'23"W, A DISTANCE OF 736.82 FEET TO THE POINT OF INTERSECTION OF THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF SAID COUNTY RECORDS;

THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1798.07 FEET;

THENCE N59°58'50"E, A DISTANCE OF 694.83 FEET;

THENCE S14°30'58"E, A DISTANCE OF 567.09 FEET;

THENCE N69°36'18"E, A DISTANCE OF 603.87 FEET;

THENCE S30°23'46"E, A DISTANCE OF 264.58 FEET;

THENCE S61°52'38"W, A DISTANCE OF 227.40 FEET;

THENCE S79°15'47"W, A DISTANCE OF 276.17 FEET;

THENCE S89°39'18"W, A DISTANCE OF 356.07 FEET;

THENCE S40°09'47"W, A DISTANCE OF 310.61 FEET;

THENCE S09°56'46"W, A DISTANCE OF 270.03 FEET;

THENCE S35°00'25"W, A DISTANCE OF 167.38 FEET;

THENCE S57°24'01"W, A DISTANCE OF 235.36 FEET;

THENCE S27°23'34"E, A DISTANCE OF 611.29 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 35.08 ACRES OF LAND, MORE OR LESS.

Along With:

A PARCEL OF LAND BEING THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (SW1/4 NW1/4) OF SECTION 27, THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SECTION 27, A PORTION OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER OF SECTION 28 AND A PORTION OF THE NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4) OF SECTION 28, ALL IN TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S00°54'30"E ALONG THE EAST LINE OF THE WEST ONE-HALF (W1/2) OF SAID SECTION 27, A DISTANCE OF 3925.63 FEET TO THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27;

THENCE S87°35'00"W ALONG THE SOUTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1332.78 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4);

THENCE N00°53'18"W ALONG THE WEST LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1316.78 FEET TO THE NORTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4);

THENCE S89°08'28"W ALONG THE SOUTH LINE OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4) OF SECTION 28, A DISTANCE OF 1326.68 FEET TO THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4);

THENCE N00°30'49"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4), A DISTANCE OF 1270.77 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN

BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1450.84 FEET TO THE POINT OF INTERSECTION OF THE SOUTHERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF SAID COUNTY RECORDS;

THENCE ALONG THE SOUTHERLY AND EASTERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

1. N89°40'23"E, A DISTANCE OF 761.52 FEET TO A POINT ON THE EAST LINE OF SAID NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4);
2. N00°52'58"W ALONG SAID EAST LINE, A DISTANCE OF 30.00 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27;



THENCE N88°38'56"E ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1330.91 FEET TO THE POINT OF BEGINNING;

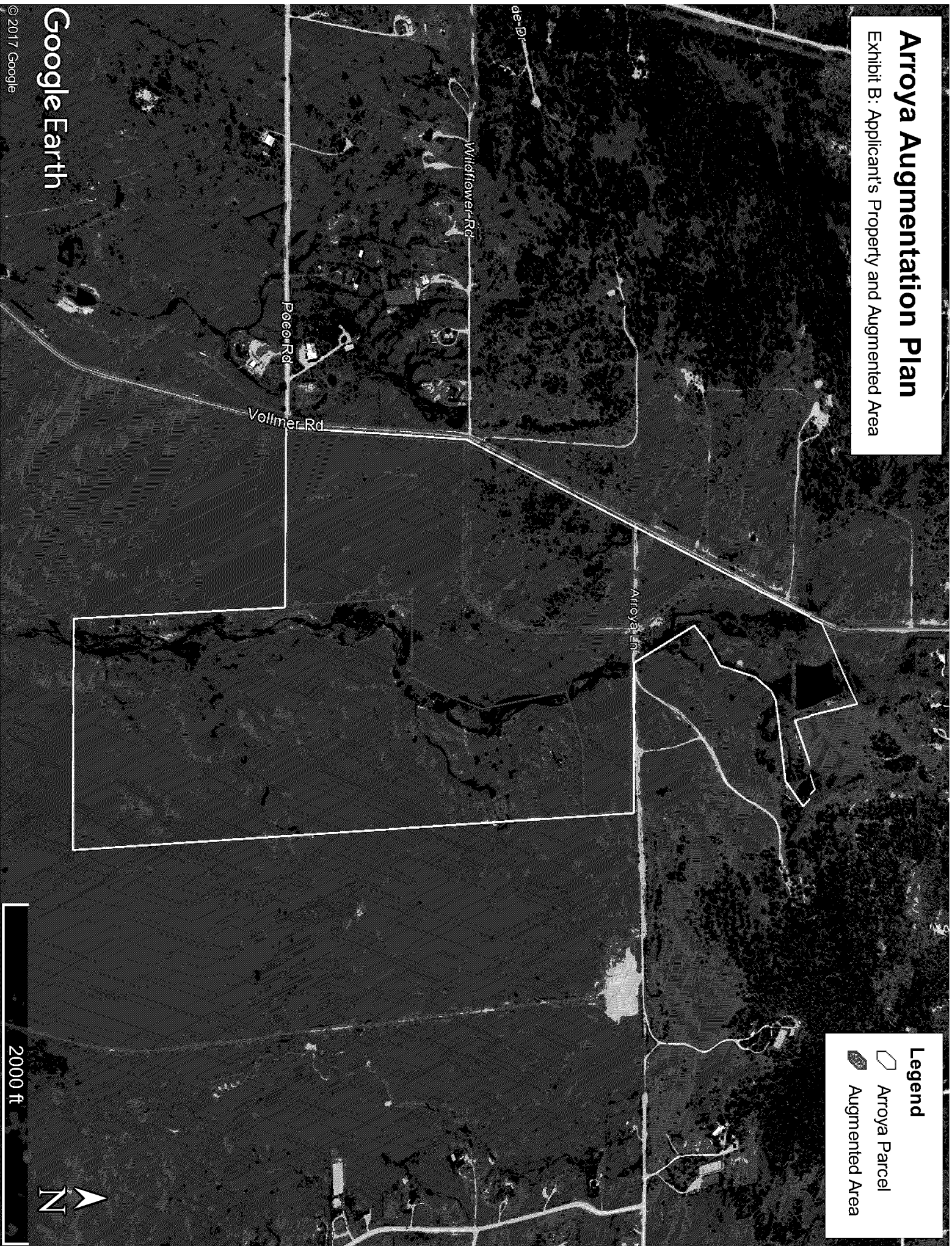
SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 190.89 ACRES OF LAND, MORE OR LESS.

# Arroya Augmentation Plan

Exhibit B: Applicant's Property and Augmented Area

## Legend

-  Arroya Parcel
-  Augmented Area



Google Earth

© 2017 Google

2000 ft

<b>DISTRICT COURT, WATER DIVISION 2, COLORADO</b> Court Address: 501 North Elizabeth Street, Suite 116 Pueblo, CO 81003 Phone Number: (719) 404-8832	DATE FILED: March 4, 2022 10:52 AM CASE NUMBER: 2020CW3059
CONCERNING THE APPLICATION FOR WATER RIGHTS OF:  STERLING RANCH METROPOLITAN DISTRICT NO. 1  IN EL PASO COUNTY	<p style="text-align: center;">▲ COURT USE ONLY ▲</p> <hr/> Case No.: 20CW3059
<b>FINDINGS OF FACT, CONCLUSIONS OF LAW, AMENDED RULING OF REFEREE AND DECREE: ADJUDICATING DENVER BASIN GROUNDWATER, WATER STORAGE RIGHTS AND APPROVAL OF PLAN FOR AUGMENTATION</b>	

THIS MATTER comes before the Court on the Application filed by Sterling Ranch Metropolitan District No. 1, and having reviewed said Application and other pleadings on file, and being fully advised on this matter, the Court makes the following findings and orders:

### GENERAL FINDINGS OF FACT

1. The applicant in this case is Sterling Ranch Metropolitan District No. 1, whose address is 20 Boulder Crescent, #200, Colorado Springs, Colorado 80903 ("Applicant" or "District"). The Applicant seeks the adjudication of surface water rights, groundwater rights, and approval of a plan for augmentation.

2. The land upon which the surface water rights adjudicated herein are located are within the District, and the District is the owner of, or controls, all Denver Basin groundwater described herein. All land is located within the District, where the water will be put to beneficial use.

3. The Applicant filed this Application with the Water Court for Water Division 2 on October 12, 2020, and filed an Amended Application on October 13, 2020. The Application was referred to the Water Referee Division 2 on October 12, 2020.

4. The time for filing statements of opposition to the Application expired on the last day of December 2020. A Statement of Opposition was timely filed by The City of Colorado Springs, acting through its enterprise, Colorado Springs Utilities, on December 28, 2020, and a Statement of Opposition was timely filed by the State Engineer and the

Division Engineer for Water Division No. 2 on December 30, 2020.

5. On October 21, 2020, Water Court, Division 2, ordered that publication occur in El Paso County. The Clerk of this Court has caused publication of the Application filed in this matter as provided by statute and the publication costs have been paid. On November 19, 2020, proof of publication in *The Colorado Springs Gazette* was filed with the Division 2 Water Court. All notices of the Application have been given in the manner required by law.

6. On January 19, 2022, a stipulation between the Applicant and The City of Colorado Springs, acting through its enterprise, Colorado Springs Utilities was filed with the Division 2 Water Court. By Order dated January 24, 2022, the Division 2 Water Court approved such stipulation.

7. On November 5, 2021, a stipulation between the Applicant and the State Engineer and the Division Engineer for Water Division No. 2 was filed with the Division 2 Water Court. By Order dated November 5, 2021, the Division 2 Water Court approved such stipulation.

8. Pursuant to C.R.S. §37-92-302(2), the Office of the State Engineer has filed Determination of Facts for each aquifer with this Court on January 29, 2021.

9. As the State and Division Engineers timely filed a statement of opposition in this matter and obtained party status, no Consultation Report pursuant to C.R.S. §37-92-302(4) is necessary or required.

10. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties whether they have appeared or not. The land and water rights involved in this case are not within a designated groundwater basin.

## **SURFACE WATER STORAGE RIGHTS**

11. The Applicant seeks the adjudication of absolute surface water storage rights and the following findings are made with respect those rights:

A. Name of Structure: SRMD Pond No. 1. The terms of this decree concerning SRMD Pond No. 1 abrogate and replace all uses, terms, and conditions of prior decree of this Court in Case No. W-1309 as concerns the like structure decreed therein as Dines Reservoir No. 1, with the exception of claimed appropriation date for stockwater uses.

i. Legal Description of Structure: SRMD Pond No. 1 is located in the NE $\frac{1}{4}$  SW $\frac{1}{4}$  and the NW $\frac{1}{4}$  SE $\frac{1}{4}$  of Section 33, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M. with the center of the embankment at a point approximately 1,450 feet from the south section line of said Section 33, and approximately 2,590 feet from the east

section line of said Section 33, in El Paso County, Colorado.

ii. Source: The source for filling and re-filling of this existing on-channel structure is Sand Creek, a tributary of Fountain Creek, tributary to the Arkansas River.

iii. Date and Initiation of Appropriation: This water right shall be administered with a priority date of October 13, 2020, coincident with the filing of this Application. A stock tank in this location was decreed by the Division 2 Water Court in 1973, Case No. W-1309 as Dines Reservoir No. 1. However, Applicant's uses are far more expansive than those considered in W-1309, and Applicant therefore does not claim the earlier September 24, 1962 appropriation date decreed therein, except as to stockwater uses for purposes of demonstrating in-priority storage of water in support of Applicant's absolute claim for such uses.

iv. Date Water Applied to Beneficial Use: SRMD Pond No. 1 has existed since at least September 24, 1962, per the decree in W-1309.

v. Amount Claimed: 12.25 acre feet, with the right to freshening flows for maintenance of recreational, wildlife, fish propagation and fire protection purposes when in priority or when augmented by the plan approved herein. Since the initial construction of SRMD Pond No. 1 in 1962, there have been a number of instances where the Arkansas River call (and Sand Creek and Fountain Creek, as tributaries thereto), has been junior to the priority date of September 24, 1962 decreed to stockwater uses for this facility in W-1309, including in 1999. Each of these circumstances of in-priority storage occurred for decreed stockwatering purposes, supporting the absolute water rights decreed herein in the amount of 12.25 acre feet for such stockwater uses. All other municipal uses, including domestic, commercial, industrial, recreation, fish propagation, wetlands, wildlife habitat, and fire protection purposes decreed herein are conditional, in the amount of 12.25 acre feet.

vi. Uses: All municipal uses, including domestic, commercial, industrial, recreation, fish propagation, stockwater, wetlands, wildlife habitat, and fire protection purposes.

vii. Pond Specifications: SRMD Pond No. 1 has a maximum surface area at the high-water line of approximately 2.51 acres. The maximum height of the dam is approximately 10 feet and the length of the dam is approximately 510 feet.

viii. Total Capacity of Pond: Approximately 12.25 acre feet, all of which is dead storage.

ix. Place of Use: All uses of water associated with SRMD Pond No. 1 shall be within the boundaries of the District.

B. Name of Structure: SRMD Pond No. 2. The terms of this decree

concerning SRMD Pond No. 2 abrogate and replace all the uses, terms, and conditions of prior decree of this Court in Case No. W-1309 as concerns the like structure decreed therein as Dines Reservoir No. 3, with the exception of appropriation date for stockwater uses.

i. Legal Description of Structure: SRMD Pond No. 2 is located in the SE $\frac{1}{4}$  SE $\frac{1}{4}$  of Section 28, Township 12 South, Range 65 West of the 6<sup>th</sup> P.M. at a point approximately 115 feet from the south section line of said Section 28, and approximately 156 feet from the east section line of said Section 28, in El Paso County, Colorado.

ii. Source: The source for filling and re-filling of this existing on-channel structure is Sand Creek, a tributary of Fountain Creek, tributary to the Arkansas River.

iii. Date and Initiation of Appropriation: This water right shall be administered with a priority date of October 13, 2020, coincident with the filing of this Application. A stock tank in this location was decreed by the Division 2 Water Court in 1973, Case No. W-1309 as Dines Reservoir No. 3. However, Applicant's uses are far more expansive than those considered in W-1309, and Applicant therefore does not claim the earlier September 24, 1962 appropriation date decreed therein, except as to stockwater uses for purposes of demonstrating in-priority storage of water in support of Applicant's absolute claim for such uses.

iv. Date Water Applied to Beneficial Use: The pond has existed since at least October 4, 1962, per the decree in W-1309.

v. Amount Claimed: 4.29 acre feet, with the right freshening flows for maintenance of recreational, wildlife, fish propagation and fire protection purposes when in priority or when augmented by the plan approved herein. Since the initial construction of SRMD Pond No. 1 in 1962, there have been a number of instances where the Arkansas River call (and Sand Creek and Fountain Creek, as tributaries thereto), has been junior to the priority date of September 24, 1962 decreed to stockwater uses for this facility in W-1309, including in 1999. Each of these circumstances in-priority storage occurred for decreed stockwatering purposes, supporting the absolute water rights decreed herein in the amount of 4.29 acre feet for such stockwater uses. All other municipal uses, including domestic, commercial, industrial, recreation, fish propagation, wetlands, wildlife habitat, and fire protection purposes decreed herein are conditional, in the amount of 4.29 acre feed acre feet.

vi. Uses: All municipal uses, domestic, commercial, industrial, recreation, fish propagation, stockwater, wetlands, wildlife habitat, and fire protection purposes.

vii. Pond Specifications: SRMD Pond No. 2 has a maximum surface area at the high-water line of approximately 1.30 acres. The maximum height of

the dam is approximately 10 feet and the length of the dam is approximately 155 feet.

viii. Total Capacity of Pond: Approximately 4.29 acre feet, all of which is dead storage.

ix. Place of Use: All uses of water associated with SRMD Pond No. 2 will be within the boundaries of the District.

12. The Court finds the absolute surface water storage rights decreed herein have been fully developed and the Applicant has utilized the water rights in-priority for stock-watering beneficial uses, as requested in the application. The Court further finds that the Applicant has completed all of the elements for the appropriation of the absolute water right, as to such stockwater uses, including: (a) formation of the intent to appropriate water; (b) performance of overt acts coincidental with this intent to manifest the intention to appropriate water to beneficial use and to demonstrate the taking of a substantial step toward applying water to beneficial use; (c) these acts were of such a nature as to provide interested third parties with notice of the nature and extent of the proposed diversion and the consequent demand upon the river system water to beneficial use; and as to the absolute water rights for stockwater purposes, (d) unappropriated waters have been diverted and have been applied to the beneficial use set forth herein. Applicant's documented in-priority fill and beneficial use of water stored within SRMD Pond Nos. 1 and 2 for stock-watering purposes is sufficient for creation of an absolute water right. The appropriation dates of the conditional water rights decreed herein establishes such water rights' relative priority among all other water rights or conditional water rights awarded on applications filed in Water Division 2 in the original years of filing for such conditional water rights, but such conditional water right shall be junior to all water rights and conditional water rights awarded on applications filed in previous calendar years.

## GROUNDWATER RIGHTS

13. The Applicant requested quantification and adjudication of underground Denver Basin water rights, including as associated with an existing well with Permit No. 26947-F, as constructed to the Denver aquifer, and for an undetermined quantity of additional or replacement wells to one or more of the Denver Basin aquifers, as quantified herein, for withdrawal of Applicant's full entitlement of water supplies underlying the SR Quarry Parcel, as more particularly described on the attached **Exhibit A** and depicted on the **Exhibit B1** map, pursuant to the plan for augmentation decreed herein. Applicant also sought, and this Court decrees that, to the extent wells or well fields constructed on nearby property owned or controlled by Applicant and its affiliates have or are legally interpreted to have contiguity, Applicant shall have the right to withdraw all groundwater entitlements quantified herein from such contiguous wells and be considered a well field. The following findings are made with respect to such groundwater rights:

14. The land overlying the groundwater subject to the adjudication in this case is owned by the Applicant and consists of approximately 97.54 acres located in the S½ SW¼ and the SW¼ SE¼ in Township 12 South, Range 65 West of the 6th P.M., El Paso

County, Colorado, described as the SR Quarry Parcel, and depicted on the attached **Exhibit B1** map ("SR Quarry Parcel"). All groundwater adjudicated herein shall be withdrawn from the overlying land, or from a contiguous parcel owned or controlled by the Applicant and its affiliates.

15. In accordance with the notice requirements of C.R.S. §37-92-302, lienholders of the SR Quarry Parcel were sent a Letter of Notice dated November 30, 2020. A Certificate of Notice was filed with the District Court, Water Division 2, on December 22, 2020.

16. Existing and Future Wells. All wells will be located on the SR Quarry Parcel, and/or on contiguous parcels thereto. There is an existing well on the property permitted and constructed under Well Permit No. 26947-F constructed to the Denver aquifer. Applicant is awarded the vested right to use the existing well and future wells, along with any necessary additional or replacement wells associated with such structures, for the extraction and use of groundwater from the not-nontributary Denver and Arapahoe aquifers pursuant to the Plan for Augmentation decreed herein. Upon entry of this decree and submittal by the Applicant of a complete well permit application and filing fee, the State Engineer shall issue a revised permit for the existing well, and new permits for any future well pursuant to C.R.S. §37-90-137(4), consistent with and referencing the Plan for Augmentation decreed herein.

17. Of the statutorily described Denver Basin aquifers, the Dawson, Denver, Arapahoe, and Laramie-Fox Hills aquifers all exist beneath the SR Quarry Parcel. The Dawson, Denver, and Arapahoe aquifers underlying the SR Quarry Parcel contain not-nontributary water, while the water of the Laramie-Fox Hills aquifer underlying the SR Quarry Parcel is nontributary. The quantity of water in the Denver Basin aquifers exclusive of artificial recharge underlying the SR Quarry Parcel is as follows:

<b>AQUIFER</b>	<b>NET SAND (ft)</b>	<b>Annual Average Withdrawal 100 Years (Acre Feet)</b>	<b>Annual Average Withdrawal 300 Years (Acre Feet)</b>	<b>Total Withdrawal (Acre Feet)</b>
Dawson (NNT)	50	9.75	3.25	975
Denver (NNT)	300	45.56 <sup>1,2</sup>	15.19 <sup>2</sup>	4,556 <sup>2</sup>
Arapahoe (NNT)	260	43.11	14.37	4,311
Laramie-Fox Hills (NT)	190	27.8	9.27	2,780

<sup>1</sup> Consistent with the State Engineer's Determination of Facts, this entire amount requires the existing well with Permit No. 26947-F to be re-permitted upon entry of this decree, as anticipated. If the well is not re-permitted, the average annual amount shall be reduced to 0 acre-feet.

<sup>2</sup> Applicant's consultants have estimated the maximum uses of the well with existing Permit No. 26947-F since it was first placed to beneficial use in 1989 as 13.1 acre feet annually, though it is highly unlikely that such maximum pumping actually occurred in each of the past 32 years. Nonetheless, Applicant has conservatively estimated that a total of 419 acre feet has been pumped thereby, and therefore the quantity of water claimed in the Denver aquifer in this decree has been reduced by such amounts.

18. Pursuant to C.R.S. §37-90-137(9)(c.5)(I)(B), the augmentation requirements for wells in the Dawson aquifer underlying the SR Quarry Parcel requires the replacement to the affected stream systems of actual stream depletions on an annual basis. Pursuant to C.R.S. §37-90-137(9)(c.5)(I)(C), the water of the Denver and Arapahoe aquifers underlying the SR Quarry Parcel, which are located greater than 1 mile from any point of contact between a natural stream, requires replacement to the affected stream system of four percent (4%) of the amount of the water withdrawn from those aquifers on an annual basis. The Applicant shall not be entitled to construct a well or use water from the not-nontributary Dawson, Denver, or Arapahoe aquifers except pursuant to an approved augmentation plan in accordance with C.R.S. §37-90-137(9)(c.5), including as decreed herein as concerns the Denver and Arapahoe aquifers.

19. Subject to the augmentation requirements described in Paragraph 18 and the other requirements and limitations in this decree, Applicant shall be entitled to withdraw all legally available groundwater in the Denver Basin aquifers underlying the SR Quarry Parcel. Said amounts can be withdrawn over the 100-year life for the aquifers as set forth in C.R.S. §37-90-137(4), or withdrawn over a longer period of time based upon local governmental regulations or Applicant's water needs provided withdrawals during such longer period are in compliance with the augmentation requirements of this decree. This decree is based upon a pumping period of 300-years as required by El Paso County, Colorado Land Development Code §8.4.7(C)(1). The average annual amounts of groundwater available for withdrawal from the underlying Denver Basin aquifers, based upon a 300-year aquifer life, are determined and set forth above, based upon the January 29, 2021 Office of the State Engineer Determination of Facts described in Paragraph 8.

20. Applicant shall be entitled to withdraw an amount of groundwater in excess of the average annual amount decreed herein from the Denver Basin aquifers underlying the SR Quarry Parcel for a 300-year aquifer life, so long as the sum of the total withdrawals from wells in each of the aquifers does not exceed the product of the number of years since the date of entry of the decree herein, and the average annual volume of water which Applicant is entitled to withdraw from each of the aquifers underlying the SR Quarry Parcel, subject to the requirement that such banking and excess withdrawals do not violate the terms and conditions of the plan for augmentation decreed herein and any other plan for augmentation decreed by the Court that authorizes withdrawal of the Denver Basin groundwater adjudicated and decreed herein.

21. Subject to the terms and conditions of the plan for augmentation decreed herein and final approval by the State Engineer's Office pursuant to the issuance of well permits in accordance with C.R.S. §§37-90-137(4) or 37-90-137(10), the Applicant shall have the right to use the groundwater for beneficial municipal uses including, without limitation, domestic, commercial, industrial, irrigation of any irrigable acreage within the District boundaries or District service area, stock water, recreation, fish and wildlife propagation, fire protection, central water supply for such uses and also for exchange, aquifer recharge, replacement, and augmentation purposes. The amount of groundwater decreed for such uses is reasonable as such uses are to be made for the long-term use

and enjoyment of those served by Applicant and is to establish and provide for adequate water reserves. The nontributary groundwater in the Laramie-Fox Hills aquifer underlying the SR Quarry Parcel may be used, reused, and successively used to extinction, both on and off the SR Quarry Parcel subject, however, to the requirement under C.R.S. §37-90-137(9)(b) that no more than 98% of the amount withdrawn annually shall be consumed. Applicant may use such water by immediate application or by storage and subsequent application to the beneficial uses and purposes stated herein. Provided, however, as set forth above, Applicant shall only be entitled to construct a well or use water from the not-nontributary Dawson, Denver, and Arapahoe aquifers pursuant to a decreed augmentation plan entered by the Court, including that plan for augmentation decreed herein concerning the Denver and Arapahoe aquifers.

22. Withdrawals of groundwater available from the nontributary Laramie-Fox Hills aquifer beneath the SR Quarry Parcel in the amount determined in accordance with the provisions of this decree will not result in injury to any other vested water rights or to any other owners or users of water.

### **PLAN FOR AUGMENTATION**

23. The structures to be augmented are the existing and future wells as constructed and to be constructed to the not-nontributary Denver and Arapahoe aquifers within the boundaries of the District or contiguous thereto and available to the District and the decree entered in Case No. 08CW113, as well as out-of-priority storage and evaporative depletions associated with the SRMD Pond Nos. 1 and 2.

24. Applicant is hereby decreed a plan for augmentation for out-of-priority depletions associated with the SRMD Pond Nos. 1 and 2, and for the withdrawal of not-nontributary Denver Basin groundwater rights in the Denver and Arapahoe aquifers, respectively, underlying property owned and controlled by the Applicant and affiliates Sterling Ranch Metropolitan District Nos. 2 and 3 as previously decreed in Case No. 08CW113, and underlying the SR Quarry Parcel as decreed herein, to support development of land served by the District, more particularly described on the attached **Exhibit A**, and depicted on the attached **Exhibit B1** and **B2** maps. During the pumping life of wells to the Denver and Arapahoe aquifers described above, it is anticipated that any out-of-priority depletions will be replaced by Lawn Irrigation Return Flows ("LIRFs") resulting from the irrigation of approximately 48 acres of parks and common areas, supplemented by pumping of decreed nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aquifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells. Applicant shall utilize a portion of the nontributary Denver Basin groundwater underlying property outside of the District ("Bar X Parcel") as decreed in Case No. 93CW18 and 93CW19 by the Division 1 Water Court, which amended prior Case No. 85CW445, for replacement of any injurious post-pumping depletions.

25. SRMD Pond Nos. 1 and 2, with a total maximum surface area of 3.81 acres, have been calculated by Applicant's consultants to result in maximum annual evaporative

losses of 10.58 acre feet assuming such ponds are maintained at full stage, resulting in a like depletion to Sand Creek, a tributary of Fountain Creek, tributary to the Arkansas River. As described below, Applicant will replace this 10.58 acre foot annual depletion through dedicated LIRFs accruing to Sand Creek in the vicinity of the District, as depicted on the **Exhibit B2** Map, or by pumping of the decreed nontributary supplies decreed in Case Nos. 86CW19 and 08CW113, including from existing SRMD wells. Applicant asserts, and this Court accepts as reasonable, that the SRMD Pond Nos. 1 and 2 were filled in priority in 1999, and have been maintained at full stage since such in-priority fill. Should the SRMD Pond Nos. 1 and 2 be fully or partially drained at any point in the future and thus require partial or complete refill, and should such re-fill be unavailable in priority, Applicant shall augment any such out-of-priority storage and refill of SRMD Pond Nos. 1 and 2 utilizing reusable LIRF credits accruing to Sand Creek and in excess of those required to replace depletions from the pumping of the not-nontributary wells described herein, and in excess of those required to replace evaporative depletions (including from less than full-stage storage), or by pumping of decreed nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aquifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells up to a maximum of 16.54 acre feet, being the total combined capacity of both SRMD Pond Nos. 1 and 2.

26. The not-nontributary Denver Basin groundwater underlying the property owned by the District and its affiliates that is available for withdrawal in accordance with this plan for augmentation was previously adjudicated and quantified by the Division 2 Water Court in Case No. 08CW113 as follows:

<b>Aquifer</b>	<b>Annual Average Withdrawal (Acre-Feet)<sup>3</sup></b>
Denver (NNT)	242.97
Arapahoe (NNT)	0.20

As quantified and determined herein, the SR Quarry Parcel has the following additional not-nontributary groundwater that is available for withdrawal in accordance plan for augmentation:

<b>Aquifer</b>	<b>Annual Average Withdrawal (Acre-Feet)<sup>2</sup></b>
Denver (NNT)	15.19

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<sup>3</sup> This represents the annually estimated available quantity of water for a 300-year pumping life, as required by El Paso County Land Development Code.

Arapahoe (NNT)	14.37
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Depletions from the pumping of the not-nontributary Denver and Arapahoe aquifer water described above are equal to 4% of pumping, a maximum of 10.91 annual acre feet.

27. All existing exempt permitted wells to the Denver and Arapahoe aquifers, if any, shall be either repermited as augmented structures under the plan for augmentation decreed herein, or abandoned, consistent with the rules and regulations of the State and Division Engineers. Applicant is hereby granted pursuant to the terms and conditions of the augmentation plan decreed herein, the right to withdraw all quantities of not-nontributary Denver Basin groundwater in the Denver and Arapahoe aquifers underlying the SR Quarry Parcel, and underlying the District and its affiliates as described above, through existing, additional or replacement wells located on the subject properties or upon contiguous properties, consistent with Rule 11.A. of the Statewide Nontributary Ground Water Rules, provided Applicant first acquires such interests in the overlying land as may be necessary for construction, maintenance and operation of any such wells, and infrastructure related thereto. Applicant expressly may withdraw the not-nontributary groundwater underlying the SR Quarry Parcel from any and all wells, both existing and as may in the future be developed, available to Applicant on said parcel or other contiguous properties upon which the District has wells and infrastructure to each of the Denver and Arapahoe aquifers, respectively.

28. Water Rights to be Used for Augmentation.

A. Depletions During Pumping. During the pumping life of the not-nontributary wells described herein, any out-of-priority depletions caused by the pumping of the wells, as well as evaporative depletions from the SRMD Pond Nos. 1 and 2 described herein and located on-channel on Sand Creek with total surface area of approximately 3.81 acres, will be augmented by LIRFs unless and until such a time as the District has reusable treated effluent credits available in proper time, place and amount, and unless such LIRFs are insufficient to fully replace actual out-of-priority depletions. Maximum pumping of the not-nontributary aquifers described herein, in combination, shall be 272.73 acre feet over the pumping life of the wells. If at any time LIRFs prove insufficient to replace out-of-priority depletions, Applicant shall utilize decreed nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aquifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells. Applicant's LIRFs will accrue to Sand Creek as a result of irrigation uses throughout the District. Maximum evaporative depletions from SRMD Pond Nos. 1 and 2 are 10.58 acre feet annually, and

maximum depletions from the pumping of the not-nontributary Denver and Arapahoe aquifer wells within the District are 4% of pumping, or 10.91 annual acre feet, for total approximate annual depletions of 21.49 acre feet that are to be replaced under the plan for augmentation decreed herein, plus any out-of-priority storage within SRMD Pond Nos. 1 and 2, as described in Paragraph 25, above. As described in Paragraph 30, below, LIRFs resulting from irrigation within the District's service area will result in up to 27.45 annual acre feet of reusable return flow credits to Sand Creek, though Applicant will be limited to 17.65 annual acre feet of LIRF credits for such augmentation uses unless and until Applicant is awarded a right to additional LIRF credits utilizing the process identified in Paragraph 30, below.

B. Post Pumping Depletions. The water rights to be used for augmentation of any injurious post-pumping depletions occurring after the anticipated 300-year pumping life of the wells resulting from the pumping of the not-nontributary groundwater described in this plan for augmentation are a portion of the nontributary Denver Basin groundwater rights underlying the Bar X Parcel, as decreed in Case Nos. 93CW18 and 93CW19 by the Division 1 Water Court, which amended prior Case No. 85CW445 as owned and controlled by the District:

<b>Aquifer</b>	<b>Total Allocation (AF)</b>
Denver (NT)	136,000
Arapahoe (NT)	81,300
Laramie-Fox Hills (NT)	42,700
<b>BAR X TOTAL:</b>	<b>260,000</b>

i. Maximum post-pumping depletions resulting from the pumping of the not-nontributary Denver and Arapahoe aquifers underlying the lands owned and controlled by the District and its affiliates, including the SR Quarry Parcel, as described herein, should not exceed 258.13 annual acre-feet from the not-nontributary Denver Aquifer, and 14.60 annual acre-feet from the not-nontributary Arapahoe aquifer over 300-years of pumping, a total of 272.73 annual acre feet in combination. To replace any injurious post-pumping depletions Applicant shall dedicate 82,167 acre-feet, equivalent to an average of 272.73 acre feet annually based on 300-years of pumping, from the nontributary Denver aquifer underlying the Bar X Parcel, owned or controlled by SRMD and its affiliates, less the amount of actual stream depletions replaced hereunder during the plan pumping period. Applicant's consultant estimates that a total of 1,978.12 acre-feet of lawn irrigation return flows will replace stream depletions over the 300-year pumping period. The total 82,167 acre feet of reserved post-pumping replacement water, less the amount of actual stream depletions replaced during the plan pumping period, will be sufficient to replace all calculated injurious post-pumping depletions. Applicant's dedication and reservation of up to 82,167 acre feet annually of nontributary Denver aquifer groundwater, being a portion of the Bar X water previously adjudicated in Case No. 93CW18, will provide this maximum post-pumping augmentation supply. The total reserved nontributary groundwater supply, less the amount of actual stream depletions replaced during the plan pumping period, is sufficient to replace all estimated injurious

post-pumping depletions.

29. Augmentation of Evaporative and Out-of-Priority Storage Depletions. Applicant's consultants have calculated, and the Court accepts such calculations as reasonable, that net evaporative depletions of the combined maximum surface areas of the SRMD Ponds Nos. 1 and 2, being approximately 3.81 surface acres, will be 46.5 inches. The equations upon which Applicant's consultants have relied upon for calculating evaporative depletions and out-of-priority storage, are more particularly described in Paragraph 29.A., below. Therefore, the SRMD Ponds Nos. 1 and 2 will have combined evaporative depletions of approximately 10.58 annual acre-feet. Evaporative depletions resulting from the SRMD Ponds Nos. 1 and 2 will be augmented by: (1) excess LIRF credits, or (2) pumping from the nontributary Arapahoe and/or Laramie-Fox Hills aquifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells, as described above.

A. Depletion/Evaporation Formulas:

i. Gross Evaporation at the SRMD Ponds No. 1 and No. 2 = 46.5 inches (per NOAA Plate No. 33 in Colorado)

ii. Monthly Gross Evaporation =  $(46.5"/12) * (\text{Monthly Evap. Percentage})$

iii. Monthly Evaporation Percentage Table from Colorado Division of Water Resources:

<u>Month</u>	<u>Percentage</u>
January	1.0%
February	3.0 %
March	6.0 %
April	9.0 %
May	12.5 %
June	15.5 %
July	16.0 %
August	13.0 %
September	11.0 %
October	7.5 %
November	4.0 %
December	1.5 %

iv. Monthly Gross Precipitation (inches) = Black Forest WNW Weather Station No. 6

v. Monthly Effective Precipitation (feet) =  $(\text{Monthly Gross Precipitation}) * 70 \% / 12$

vi. Net Monthly Pond Evaporation = ((Monthly Gross Evap.) \* (Monthly %)) – (Effective Precipitation)

vii. Monthly Total Lake Evaporation = (Monthly Net Lake Evaporation) \* (Total Surface Area of Ponds) (Note: Total Surface Area of ponds are assumed to be full at 3.81 Acres)

B. Out-of-Priority Storage: The method to accurately obtain monthly out-of-priority storage volumes for the two ponds is as follows:

i. Stage capacity curves for ponds, as constructed, are attached to this Decree collectively as **Exhibit D**.

ii. Prior to storage of water and administration of the augmentation plan decreed herein, a staff gauge shall be installed in each of the ponds with increments sufficient to monument the staff gauge to the stage capacity curves described in **Exhibit D**.

iii. Using the daily accounting summary for Case No. 20CW3059 daily readings of the SRMD Pond No. 1 and No. 2 staff gauges can be recorded with associated pond volumes documented in Acre-Feet to determine out-of-priority storage. Any positive differences in the pond storage can be documented in the daily data entry form as out-of-priority storage that must be augmented hereunder.

C. LIRF Credits. LIRF credits resulting from irrigation of parks and common areas throughout the District, anticipated to be approximately 48 acres, are anticipated to be available in excess of that required for augmentation of the nontributary Denver and Arapahoe aquifer wells described herein, as further described in Paragraph 30, below. Applicant shall likewise utilize such LIRF credits to offset and augment all or part of the estimated 10.58 annual acre feet of evaporative depletions associated with SRMD Pond Nos. 1 and 2, supplemented with nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aquifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells, as described below.

D. Nontributary Groundwater. In the alternative, and at all times when LIRF credits are insufficient to offset and augment the out-of-priority depletions described herein, including until such time as Applicant has constructed all of the approximately 48 acres of irrigated parks and common areas from which LIRF credits will ultimately accrue, Applicant shall pump to the stream such quantities of nontributary groundwater as necessary to fully augment evaporative depletions associated with SRMD Pond Nos. 1 and 2, estimated to be a maximum of 10.58 annual acre feet, not otherwise augmented through excess LIRF credits. The nontributary Laramie-Fox Hills aquifer underlying approximately 1,410 acres of the District was quantified in Case No. 86CW19 by the Division 2 Water Court, while the nontributary Laramie-Fox Hills aquifer underlying the

remaining 41.44 acres of the District was quantified in Case No. 08CW113, Water Division 2. Nontributary groundwater in the Arapahoe aquifer was primarily quantified in Case No. 86CW18, Water Division 1, with a 4 acre-foot portion quantified in Case No. 08CW113, Water Division 2. Such adjudications provide for the combined annual withdrawals of nontributary groundwater well in excess of any depletions created through the use and maintenance of SRMD Pond Nos. 1 and 2, and such groundwater was previously adjudicated for all municipal uses, expressly including augmentation. Such groundwater will be pumped to Sand Creek in times and volumes necessary to prevent injury to other vested water rights users, at or above the point on Sand Creek depicted on the **Exhibit B2** Map. Prior to operation of the augmentation plan decreed herein, Applicant shall design and install infrastructure sufficient to allow Applicant, as contemplated in paragraph 30(L) herein, to deliver non-tributary Denver Basin Groundwater to Sand Creek at a point at or above the point depicted on Exhibit B2.

30. Quantification of Reusable LIRFs. Water use within the District's boundaries will include use for outdoor purposes, including irrigation of lawns, landscaping, open space, medians, and similar (*i.e.* parks and common areas). A portion of the water used for outdoor purposes, being reusable LIRFs, will return to the Sand Creek stream system unconsumed, and is therefore available to replace evaporative and well pumping depletions from the structures described herein. The District's consultants conducted a study of anticipated water uses within the District using water use data, climate data, anticipated irrigated acreages, irrigation requirements, and projected tree canopy areas in order to determine total annual LIRFs as a percentage of total annual outdoor water use. The location, amount, and timing of reusable LIRFs available for use by the District from outdoor water use shall be determined using the procedures described in this Paragraph 30.

A. As a baseline, the LIRFs available for use as an augmentation supply for purposes of this decree will be a minimum of 15% of the total amount of water applied for irrigation of parks and common areas within the District's current and future boundaries, which will accrue to Sand Creek, tributary to Fountain Creek, tributary to the Arkansas River, estimated at an average of 17.65 acre feet annually. Applicant shall not be entitled to claim greater than 15% of the total amount of water applied for irrigation of common areas and parks within the District as LIRF credits without first complying with all provisions of this Paragraph 30. The approximate location at or upstream of which all such LIRFs are anticipated to accrue is shown on the attached **Exhibit B2** map. However, the District's consultants' analysis determined that actual re-usable LIRFs are estimated to be an average of 26.14% of the total amount of water applied to outdoor use, with resulting return flows of 27.45 acre feet annually. The actual re-usable LIRFs will therefore amount to between 15% and 26.14% of total outdoor irrigation uses, based upon the relationship between deep percolation (expressed as a fraction of the amount of water applied) and the amount of water applied (expressed as a fraction of the potential consumptive use of lawn grass), referenced as the "Cottonwood Curve", and the methodology referred to as the "Cottonwood Methodology", first approved in Case No. 81CW142 in Water Division 1. The District has calculated the timing of the deep percolation portion of such reusable LIRFs to the Sand Creek stream system using the

Glover bounded alluvial aquifer equation. Applicant's consultants have estimated based upon zoning and land use plans developed by the District's landscape architects and approved by El Paso County, that approximately 48 acres of parks and common areas will be irrigated throughout the District, resulting in LIRFs calculated at approximately 17.65 to 27.45 acre feet annually, based on the percentages described above, and this Court determines this estimate to be reasonable. With maximum annual depletions from pumping of not-nontributary aquifers estimated at 10.91 acre feet (4% of a maximum of 272.73 annual acre feet of pumping), and evaporative depletions of the SRMD Ponds estimated at a maximum of 10.58 acre feet, for a total of 21.49 annual acre feet to be augmented, LIRFs available after construction and irrigation of approximately 48 acres of parks and common area may sufficiently augment evaporative depletions from the SRMD Ponds and well depletions during pumping, with any shortfall in LIRF supply being supplemented with pumping from the nontributary aquifers located within the District in an amount sufficient to replace any remaining depletions. To determine a final LIRF percentage upon buildout of areas upon which outdoor uses will be made (*i.e.* construction of the approximately 48 acres of parks and common areas from which LIRFs will accrue, and application of metered irrigation water supplies thereto), should the District wish to claim the minimum 15%, or a greater amount of reusable LIRFs, the District shall utilize the following procedures:

B. Total outdoor water use shall be determined on a monthly basis for the months of April through October of each year as the total amount of metered monthly deliveries to the parks and common areas. Prior to Utilizing LIRFs as an augmentation source, Applicant shall install meters capable of recording the amount of irrigation water provided to each park and/or common area from which LIRFs will accrue.

C. Reusable subsurface LIRFs from outdoor water use shall be preliminarily calculated as 15% of the total metered irrigation use for that month. The location of accretions to Sand Creek is the point where LIRFs are deemed to accrue to Sand Creek, as depicted on **Exhibit B2**.

D. The timing of accretion of such subsurface LIRFs to the alluvium has been determined by Applicant's consultants to be within 30 days, in light of local conditions and the proximity of irrigation to Sand Creek and its alluvium.

E. Prior to taking any credits for LIRFs in percentages greater than the baseline percentage of 15%, the District shall install a series of piezometers in consultation with the State Engineer's Office and complete a piezometer study, in order to document the presence, depth and calculated baseline quantities of the groundwater table, and verify the direction of groundwater flow.

F. To assure that the LIRFs are actually returning to the Sand Creek stream system, in order to take credits for LIRFs in percentages greater than the baseline percentage of 15%, the District shall demonstrate through piezometer measurements the existence of a water table with a hydraulic gradient toward the Sand Creek stream system, including its associated alluvium.

G. To document the quantity of LIRFs accruing to Sand Creek the District shall demonstrate through piezometer observations and measurements the increase in groundwater quantities resulting from LIRFs, and provide the State and Division Engineers, and any opposers in this matter requesting the same, an engineering analysis of such increased groundwater quantities, and calculation of the resulting appropriate LIRF percentage in an amount greater than the baseline 15%.

H. The following additional provisions shall apply to the piezometer study described above, necessary for the District to take credit for LIRFs in percentages greater than the baseline 15%:

i. The exact location of piezometers shall be determined by field observation jointly with the District's consultants and State Engineer staff and, prior to constructing any piezometers, the District shall notify the Division of Water Resources of the date and location when construction will occur to allow for observation, if desired. The contemplated location of piezometers is depicted on the attached **Exhibit B2**.

ii. The piezometer boreholes shall be logged under the supervision of a professional geologist or professional engineer and shall be sampled at not less than 5-foot intervals using a split-barrel sampler using the Standard Penetration Test, ASTM D1586. Written borehole logs shall be prepared that describe the subsurface materials at not less than 5-foot intervals, including a description of grain sizes and induration of sediments encountered during piezometer borehole construction.

iii. The total depth of unconsolidated materials overlying bedrock shall be identified for each piezometer borehole log. The top of bedrock shall be defined as the depth at which geologic materials are consolidated, or when the Standard Penetration Test results in a blow count greater than 29 blows to advance the split-barrel sampler the last 1 foot of the 1.5-foot Standard Penetration Test interval, whichever is shallower.

iv. Piezometer construction shall comply with the Colorado Water Well Construction Rules and shall consist of 2-inch PVC pipe with suitable perforations in the pipe and with a hole drilled in the bottom cap, and shall extend through the entire saturated thickness of the materials. The bottom of the piezometer shall be installed at the depth at which bedrock is encountered.

v. The elevation of the surface at, and the location of, each piezometer shall be determined by survey, and following piezometer construction, the depth to water shall be measured in the piezometers and reported to the Division of Water Resources and, upon request, to any other objector hereto. Piezometers shall be monitored and read on a monthly basis for a minimum period of 12 consecutive months (or longer, in the District's discretion), beginning upon the installation of the piezometer or the first measurement of a water table, and the piezometer water level shall be recorded in a monthly table of groundwater elevation and depth to groundwater.

vi. Piezometer Report. The District shall develop a report prepared by a professional geologist or professional engineer that presents all of the following information:

- a. Location of each piezometer;
- b. Borehole log and Standard Penetration Test for each piezometer location;
- c. Monthly water level measured in each piezometer for twelve (12) consecutive months;
- d. Average water level elevation in each piezometer;
- e. Map of average piezometer groundwater level elevation that demonstrates a groundwater gradient towards Sand Creek and its tributaries.

vii. Acceptance of Piezometer Report. If piezometer measurements for a continuous period of 12 months (or longer, in the District's discretion) demonstrate increases in the water table resulting from LIRFs in excess of the baseline 15% authorized by this decree, the District shall serve its Piezometer Report to the Division of Water Resources and the Opposers, to demonstrate that an increase in the percentage of re-usable LIRFs is appropriate. The Opposers will have 63 days from the date of service to provide written comments concerning the Piezometer Report to the District and the Division of Water Resources. Applicant must obtain the Division of Water Resources' approval of the Piezometer Report prior to claiming augmentation credit for LIRFs that is greater than the 15% credit approved herein. The Division of Water Resources shall review said Piezometer Report and the Opposers' comments thereto and within 63 days of receipt of said comments, the Division of Water Resources shall (a) Reject the findings of the Piezometer Report and not allow any increase in LIRF credits; (b) Accept the findings of the Piezometer Report and approve the increase in LIRF credit percentage requested therein by the District; or (c) Accept a portion of the findings of the Piezometer Report while rejecting others and recommending an alternative increase in LIRF credit percentages. Either Applicant or Opposers may appeal any such decision by the Division of Water Resources to this Court under the Court's retained jurisdiction as described in Paragraphs 57 and 58, below, and any such appealing party shall have the burden of proof in such an appeal. Applicant shall have the initial burden of proof that the requested increase in percentage of LIRFs credit will not result in injury to other water users. Following acceptance of the Piezometer Report by the Division of Water Resources or the Court under its retained jurisdiction, in whole or in part, increased LIRF credits may be taken by the District.

viii. The District shall have the right to decide if and when to install each of the said piezometers, but the District shall receive no increased credit for LIRFs

in the Sand Creek basin until the piezometers are installed and the Division of Water Resources has approved any increase in the LIRF credit percentage based upon the Piezometer Report described above.

I. The timing of accrual of LIRFs to the Sand Creek stream system was determined by the District using the Glover equation, using representative aquifer hydraulic characteristics and centroidal distances to live flow in the respective creeks, and the alluvial boundaries for each drainage basin. Such analysis determined that LIRFs will accrue to the alluvium of Sand Creek within 30 days. The timing of accrual of LIRFs is such that the LIRFS will accrue in the month following irrigation water application.

J. The LIRFs available to the District under this Decree may be used, reused, and successively used by the District for the same decreed purposes as the reusable water which generates such LIRFs, including, but not limited to, use as a replacement source for the plan for augmentation decreed herein.

K. LIRF credits in excess of the District's augmentation obligations will remain in the stream, but the District does not waive and expressly reserves its right to claim and use any excess LIRF credits in a subsequent plan for augmentation upon approval by this Court. To the extent LIRF credits are insufficient in any month to replace depletions resulting from not-nontributary well pumping, evaporation, and out-of-priority storage, the District shall during such month, and on a schedule acceptable to the Division Engineer, pump sufficient quantities of nontributary Denver Basin groundwater to Sand Creek at a point at or above the point depicted on **Exhibit B2**. In order to document the amount of monthly nontributary Denver Basin pumping required to augment any alluvial depletions measured to be in excess of available LIRF's, if any, depletions will be tracked on a daily basis in Applicant's accounting, an example of which is provided in **Exhibit C**, and augmented monthly as reported to the Water Commissioner. Depletions will be tracked in the accounting sheet as follows:

1) Daily Total Depletion to Alluvium	=	Column AR
2) Daily Estimated LIRF Volume (Credits to Alluvium)	=	Column AS
3) Daily Obligations to Alluvium	=	Column AT
4) Daily Excess Credits to Alluvium	=	Column AU

At the end of each month, if augmentation obligations are in excess of LIRF credits calculated to be available, the District shall pump nontributary groundwater at or above the point depicted on **Exhibit B2**. If there are excess LIRF credits, such LIRF Credits can be carried over for augmentation purposes only for a period of one month as tracked in column AW of the Exhibit C accounting.

31. Other Supplies of Augmentation Water of Limited Duration. Pursuant to C.R.S. §37-92-305(8), the Court may authorize the District to use additional or alternative sources of augmentation water for replacement in this augmentation plan, including water leased by the District, if such sources are part of a substitute water supply plan approved pursuant to C.R.S. §37-92-308, or an interruptible supply agreement approved under C.R.S. §37-92-309, or other applicable and/or successor statutes, or if such sources are

decreed for such use. In order to add these sources to this plan for augmentation, the procedures in Paragraphs 31.A. and 31.B. must be followed. These procedures are adequate to prevent injury to other water rights that might otherwise result from the addition of these sources to this plan.

A. Additional Water Rights Separately Decreed or Lawfully Available for Augmentation Use. If a water right is decreed or lawfully available for augmentation use and not already approved for such use under this Decree, the District shall give at least 63 days advance written notice of use of the water right for augmentation to the Court, the Division Engineer, and all the objectors herein which shall describe: 1) the water right by name and decree, if any; 2) the annual and monthly amount of water available to SRMD from the water right; 3) the manner by which the water will be used to replace out-of-priority depletions associated with this plan for augmentation; 4) the date of initial use of the water in this plan for augmentation; 5) the duration of use of the water in this plan for augmentation; 6) identification of any applicable exchanges, including the exchange reach, if the water is to be introduced downstream of the out-of-priority depletion; 7) if an exchange is required for the water to be used, proposed terms and conditions relative to the exchange operation; 8) the location or locations at which the water will be delivered to the stream; 9) evidence that the claimed amount of water is available for use in this plan for augmentation and is not and will not be used by any other person; and, 10) the manner in which the District will account for use of the augmentation credits. Said notice shall specifically include a request that the Court enter an Order either affirming or denying the District's proposal, and that said Order be attached to this Decree.

i. Objection to Use of New Source. If any person wishes to object to the addition of the noticed water rights to this plan for augmentation, a written objection shall be filed with the court within 63 days after the date the Notice was given by the District. If no objection is so filed, the Court shall promptly enter an Order affirming the District's immediate use of the noticed water rights. If an objection is so filed, then the District may not use the noticed water rights until the Court has determined whether and under what terms and conditions the water rights may be used in this plan.

ii. Hearing on Use of New Source. Where an objection has been filed to the use of a noticed water right in this plan for augmentation, the Court shall promptly schedule a hearing to determine whether and under what terms and conditions the water right may be used in this plan for augmentation. The Court shall conduct whatever proceedings are needed to appropriately address and resolve the disputed issues. At such hearing, the Court shall impose such terms and conditions as necessary to prevent injury to vested water rights and decreed conditional water rights. If the Notice requested temporary use of the noticed water rights in this plan for augmentation for a period not to exceed one year, then the Court shall grant an expedited hearing.

iii. New Sources Requiring Operation of Exchange. Where the use of a noticed water right in this plan for augmentation requires the operation of any new exchange(s), the District must obtain approval of the Division Engineer and Water Commissioner prior to operating such exchanges. The District must submit a separate

Water Court application if seeking to adjudicate any such exchange(s).

B. Additional Water rights – Temporary Administrative Approval. If a water right is not decreed or otherwise lawfully available for augmentation use, and Colorado Statutes or other governing authority provides a mechanism for using such water right without the need of a decree, the District shall provide written notice to the objectors herein of its request for approval of the State Engineer pursuant to C.R.S. §37-92-308, or C.R.S. §37-92-309, or any other applicable statute or rule. Such notice shall be in addition to any notice required by any applicable statute or rule. The District may use such water rights in this plan for augmentation upon the State Engineer's approval of the underlying administrative application for the term of any such approval, unless such approval is reversed or modified on appeal or under the retained jurisdiction provisions of this Case No. 20CW3059.

32. Applicant may substitute other legally available augmentation sources for replacement of any such injurious post-pumping depletions under this Court's retained jurisdiction, as described in Paragraph 31, above. Applicant claims that post-pumping depletions will be noninjurious and need not be replaced to prevent injury, though this Court makes no such finding by this decree. Applicant has reserved the right in the future to prove that said post-pumping depletions will be noninjurious under the Court's retained jurisdiction pursuant to paragraph 58.

33. Applicant shall replace post-pumping depletions for the shortest of the following: (a) the period provided by C.R.S. §37-90-137(9)(c); (b) the express period specified by the Colorado Legislature, should it specify one; (c) the period determined by the State Engineer, should he choose to set such a period and have jurisdiction to do so; (d) the period established through rulings of the Colorado Supreme Court on relevant cases, or (e) until Applicant petitions the Water Court, and after notice to parties in the case and the State Engineer's Office, proves that it has complied with any statutory requirement.

34. If operated pursuant to the terms and conditions set forth herein, the plan for augmentation decreed herein will allow Applicant to provide for the augmentation of any injurious out-of-priority stream depletions which may be caused by the pumping of the not-nontributary Denver and Arapahoe aquifer groundwater underlying the Sterling Ranch Metropolitan District Nos. 2 and 3, the SR Quarry Parcel, and out-of-priority storage and evaporative depletions from the SRMD Ponds Nos. 1 and 2. Applicant shall utilize the not-nontributary Denver Basin groundwater in the Denver and Arapahoe aquifers underlying the SRMD Metropolitan District Nos. 2 and 3 and the SR Quarry Parcel for municipal uses throughout the District's municipal service area, as currently exists or as may exist in the future, expressly including augmentation purposes. Applicant shall replace any out-of-priority depletions resulting from the SRMD Ponds Nos. 1 and 2, and the Applicant's use of the not-nontributary Denver Basin ground water described in paragraph 28 above during the pumping life of the wells through LIRFs accruing to Sand Creek, or by pumping of the decreed nontributary supplies decreed in Case Nos. 86CW19 and 08CW113, including from existing SRMD wells, and any injurious post-pumping or

evaporative depletions through the dedication of nontributary Denver Basin groundwater supplies and excess LIRFs. Applicant has reserved sufficient nontributary Denver Basin groundwater supplies for replacement of any injurious post-pumping depletions.

35. Curtailment. Applicant's plan for augmentation, as decreed herein, is sufficient to permit the pumping of not-nontributary supplies in the Denver and Arapahoe aquifers underlying the District as described herein, including the SR Quarry Parcel, and the evaporative depletions from the SRMD Ponds Nos. 1 and 2, to the extent the District complies with all the terms and conditions of this decree including, but not limited to, providing the necessary replacement water as required by this decree. Pursuant to C.R.S. §37-92-305(8), the State Engineer shall curtail all out-of-priority diversions, the depletions from which are not so replaced to prevent injury to vested water rights.

36. Terms and Conditions. This Court finds that there will be no material injury to the owners or users of water diverted under vested water rights or conditional water rights as a result of operation of the plan for augmentation, so long as there is compliance with and proper administration of the protective terms and conditions herein.

A. Lawn Irrigation Return Flow Credits. The lawn irrigation return flows from the District's use of nontributary and not-nontributary groundwater rights, after meeting replacement requirements, shall only be used as an augmentation source in the instant plan for augmentation. All such return flow credits not utilized in the instant plan for augmentation shall, subject to the terms of a future decree, be available for the District's use and re-use, including for sale or lease to other parties.

B. The reserved nontributary Denver Basin groundwater rights are adequate for replacement of all anticipated post-pumping depletions resulting from the groundwater withdrawals from the not-nontributary Denver and Arapahoe aquifers underlying the District as described herein, including the SR Quarry Parcel, and the evaporative depletions from the SRMD Ponds Nos. 1 and 2, augmented under this plan for augmentation. The District shall initiate pumping of said nontributary Denver Basin groundwater, or provision of any alternative augmentation supply as may be decreed by the Court, for the replacement of any out-of-priority post-pumping depletions upon cessation of withdrawals from the Denver and Arapahoe aquifers as augmented herein. "Cessation of Withdrawals" occurs when (1) the total volume of water available from the Denver and Arapahoe aquifers allowed to be withdrawn under the plan for augmentation decreed herein has been withdrawn; (2) the District has acknowledged in writing that all withdrawals from such aquifers have ceased permanently; (3) no withdrawals of groundwater have been made from the subject aquifers for a period of ten (10) consecutive calendar years; or (4) accounting shows that the augmentation sources described in Paragraph 28.B, above, are insufficient to replace depletions caused by withdrawals that have already occurred, and Applicant has not provided supplemental or additional augmentation supplies to remedy such insufficiency. Nothing herein shall preclude the District or its successors from resuming withdrawals from such not-nontributary aquifers after cessation of withdrawals as defined above has occurred. If pumping is resumed, then the District's augmentation requirements for such wells shall

be determined in accordance with Paragraph 28.B of this Decree, and its post-pumping augmentation obligation shall be determined as if no cessation of withdrawals had occurred.

C. A copy of the Decree shall be recorded in the records of the Clerk and Recorder for El Paso County, Colorado, and shall constitute a covenant running with the land, requiring Applicant and its successors in interest to be bound by the terms, conditions, and requirements of this Decree and the plan for augmentation herein, including the requirement to construct and pump well(s) to the nontributary aquifers identified herein or take such other measures as necessary to replace any injurious post-pumping depletions upon Cessation of Withdrawals. Failure of Applicant or its successors in interest to comply with such requirements of this Decree may result in enforcement actions from the State Engineer's Office including curtailment or elimination of pumping from the not-nontributary aquifers. The covenant represented by this Decree when so recorded shall be amended as necessary to conform to the provisions of any amendment to this plan for augmentation which may occur

D. While the adjudications of the Denver Basin groundwater to be utilized in this plan for augmentation anticipate an aquifer life of 300 years for each Denver Basin aquifer, the length of this plan for augmentation may be shorter than, or extend beyond, such time period provided the total pumping allocated to any augmented well or wells is not exceeded. Should the actual operation of this augmentation plan depart from the planned diversions described in this decree such that the plan may be extended beyond the anticipated 300-year aquifer life, Applicant may be required to develop a revised model of stream depletions caused by the actual pumping schedule by the State or Division Engineer. Any such revised model analysis shall utilize depletion modelling acceptable to the State Engineer, and shall represent the water use under the plan for the entire term of the plan to date. The analysis shall further demonstrate that return flows have equaled or exceeded actual stream depletions to date throughout the pumping periods and that reserved nontributary water remains sufficient to replace post-pumping and evaporative depletions. If such revised modeling is required by the State and Division Engineers, the District shall serve the revised model on the Opposers and they shall have 63 days from service of the revised model and analysis to provide the Division Engineer with comments, concerns or objections regarding the revised model. The Division Engineer shall have 70 days from the receipt of the opposers comments on the revised model and analysis to consider the analysis and Opposers comments thereto, and to approve or disapprove the extension of the term of the plan, or to suggest terms and conditions appropriate to such an approval. Either Applicant or Opposers may appeal any such decision by the Division Engineer to this Court under the Court's retained jurisdiction as described in Paragraphs 57 and 58, below, and any such appealing party shall have the burden of proof in such an appeal. Applicant shall have the initial burden of proof that the extension of the term of the plan for augmentation will not result in injury to other water users.

37. Consideration has been given to the depletions from Applicant's use and proposed uses of water, in quantity, time and location, together with the amount and

timing of augmentation water which will be provided by the Applicant, and the existence, if any, of injury to any owner of or person entitled to use water under a vested water right.

38. It is determined that the timing, quantity and location of replacement water under the terms and conditions of this decree are sufficient to protect the vested rights of other water users and eliminate injury thereto. The replacement water shall be of a quantity and quality so as to meet the requirements for which the water of senior appropriators has normally been used, and such replacement water shall be accepted by the senior appropriators in substitution for water derived by the exercise of their decreed rights pursuant to CRS § 37-92-305(5). The depletions from the wells withdrawing not-nontributary water underlying the SR Quarry Parcel, and any additional or replacement wells associated therewith, and the evaporation from the SRMD Ponds Nos. 1 and 2 will not result in injury to the vested water rights of others.

### **CONCLUSIONS OF LAW**

39. Based upon and fully incorporating herein the Findings of Fact set forth above as though fully set forth herein, this Court concludes as a matter of law that:

40. Applicant's request for adjudication of the Denver Basin groundwater underlying the SR Quarry Parcel is contemplated and authorized by law, and this Court and the Water Referee have exclusive jurisdiction over these proceedings. §§ 37-92-302(1)(a), 37-92-203, and 37-92-305, C.R.S.

41. Subject to the terms and conditions of this decree, the Applicant is entitled to the sole right to withdraw all the legally available water in the Denver Basin aquifers underlying the parcels and property described herein, and the right to use that water to the exclusion of all others subject to the terms of this decree.

42. The Applicant has complied with C.R.S. §37-90-137(4), and the Laramie-Fox Hills groundwater underlying the SR Quarry Parcel is legally available for withdrawal, and the not-nontributary Dawson, Denver, and Arapahoe aquifer groundwater underlying the SR Quarry Parcel is legally available for withdrawal upon the entry of a decree approving an augmentation plan pursuant to C.R.S. §37-90-137(9)(c.5), and such a plan for augmentation is decreed herein as concerns the not-nontributary Denver and Arapahoe aquifer groundwater. Applicant is entitled to a decree from this Court confirming its rights to withdraw groundwater pursuant to §37-90-137(4), C.R.S.

43. The Denver Basin water rights described herein are not conditional water rights, but are vested water rights determined pursuant to C.R.S. §37-90-137(4). No applications for diligence are required. The claims for nontributary and not-nontributary groundwater meet the requirements of Colorado Law.

44. The confirmation, determination and quantification of the nontributary and not-nontributary groundwater rights in the Denver Basin aquifers as set forth herein is

contemplated and authorized by law. C.R.S. §§37-90-137, and 37-92-302 through 37-92-305.

45. Satisfaction of Burdens of Proof. Applicant has complied with all requirements and satisfied all standards and burdens of proof including, but not limited to, C.R.S. §§37-92-302 through 305, excepting sections 305(3.5) and 305(3.6) which are inapplicable hereto, as amended. Applicant is entitled to a decree confirming and approving the quantification of Denver Basin groundwater, and the plan for augmentation decreed herein, which will not injuriously affect the owners of or persons entitled to use water under vested water rights or decreed conditional water rights as long as the plan for augmentation is operated and administered in accordance with the terms and conditions herein.

46. The augmentation plan decreed herein is one contemplated by law. If implemented in accordance with the terms and conditions of this decree, the plan will permit the use of water without material injury to the vested or conditionally decreed water rights of others.

47. The Court is required to retain jurisdiction in a decree approving an augmentation plan on the question of injury to vested or conditional water rights. C.R.S. §37-92-304(6). Such jurisdiction is retained and described in detail at Paragraph 57, below.

**IT IS THEREFORE ORDERED, ADJUDGED AND DECREED AS FOLLOWS:**

48. All of the foregoing Findings of Fact and Conclusions of Law are incorporated herein by reference, and are considered to be a part of this decretal portion as though set forth in full.

49. The Application for Surface Water Storage Rights, Adjudication of Denver Basin Groundwater and for Approval of Plan for Augmentation filed by the Applicant is approved, subject to the terms of this decree.

50. The Applicant will comply with C.R.S. §37-90-137(9)(b) requiring the relinquishment of the right to consume two percent (2%) of the amount of the nontributary groundwater underlying the SR Quarry Parcel adjudicated herein. Ninety eight percent (98%) of the nontributary groundwater withdrawn may therefore be consumed. No plan for augmentation is or shall be required to provide for such relinquishment.

51. The operation of the District's augmentation plan as decreed herein provides for the replacement of all injurious out-of-priority depletions which may result from withdrawals of not-nontributary groundwater from the Denver and Arapahoe aquifers underlying the District, including the SR Quarry Parcel, and out-of-priority storage and evaporative depletions from the use and operation of the SRMD Ponds Nos. 1 and 2, as described herein, augmented during pumping through dedication of lawn irrigation return flows, or pumping of nontributary groundwater decreed in Case Nos. 86CW18, 86CW19

and 08CW113, or additional sources approved in accordance with the terms of this decree, and augmented post-pumping through dedication and pumping of the nontributary Denver Basin groundwater rights decreed in Case No. 93CW18, as more particularly described in Paragraph 28.B, herein. The terms and conditions of this decree are adequate to assure that no injury to any water users will result from operation of this plan for augmentation. The Court approves this plan subject to the terms and conditions contained in this decree.

52. The replacement and augmentation supplies that the District will use for operation of the plan for augmentation decreed herein are of a quality and quantity so as to meet the requirements for which the water of senior appropriators has normally been used.

53. The State and Division Engineers and the Water Commissioner shall administer this augmentation plan in accordance with the terms and conditions contained in this decree. So long as the District operates the SRMD Ponds Nos. 1 and 2, and its wells to the not-nontributary Denver and Arapahoe aquifers in accordance with this decree, this augmentation plan can be operated without adversely affecting the owners or users of vested water rights or decreed conditional water rights on Sand Creek or its tributaries. So long as water is used in conformance with the requirements of this decree, there will be no injurious effects to the vested or decreed conditional water rights of others related to the amount or timing of water availability.

54. The State Engineer, the Division Engineer, and/or the Water Commissioner shall not curtail the diversion and use of water covered by the plan for augmentation decreed herein, so long as the lawn irrigation return flows necessary for augmentation during the pumping life of the not-nontributary Denver and Arapahoe aquifers described herein continue to accrue to the stream system pursuant to the conditions contained herein or the Applicant utilizes the nontributary water available to it under Case Nos. 86CW18, 86CW19 and 08CW113 to replace depletions. To the extent that Applicant or its successors or assigns is unable to provide the replacement water required, then the wells and ponds shall not be entitled to continue under the protection of this plan, and shall be subject to administration and curtailment in accordance with the laws, rules, and regulation of the State of Colorado. Pursuant to C.R.S. §37-92-305(8), the State Engineer shall curtail all out-of-priority diversions which are not so replaced as to prevent injury to vested water rights. In order for this plan for augmentation to operate, LIRFs must at all times during pumping be in an amount sufficient to replace the amount of stream depletions. The State Engineer shall issue well permits in accordance with C.R.S. §37-90-137(4) and/or (10) and consistent with the terms and conditions of this Decree. All such wells constructed by Applicant pursuant to the augmentation plan decreed herein shall be geophysically logged consistent with applicable rules and regulations of the State and Division Engineers.

55. Applicant shall install such metering and measuring devices as may be reasonably required by the State and Division Engineers to ensure proper measurement and accounting of all withdrawals and pumping.

56. Accounting. The District has demonstrated an appropriate method of accounting for diversions and stream depletions associated with the operation of this plan for augmentation. The District's accounting under this decree shall include the following information: (1) the daily volume of water pumped from each not-nontributary Denver and Arapahoe aquifer well; (2) the daily amount of water used for irrigation within the District and from which LIRFs are claimed, (3) the weekly out-of-priority stream depletions from prior weeks' pumping and from the current week's pumping; (4) the source and amount of the replacement sources used for augmentation in this plan, which shall be accounted for daily and reported monthly; and (5) the amount of any additional or alternative augmentation supplies allowed under Paragraph 29, which shall be accounted for daily, balanced weekly, and reported monthly. Unless specifically indicated by this decree, all accounting records required by this decree shall be filed with the State Engineer and Division Engineer on a monthly basis. An example of the District's current accounting forms, in which the accounting required by this plan for augmentation will be integrated, is attached as **Exhibit C**. Such Accounting forms are included as an example only and are not decreed herein. The Applicant's current accounting forms are adequate to account for the water rights and augmentation plan under this decree; however, said forms are not decreed herein and may be changed from time to time so long as the information required by this decree is included in the forms. Applicant shall serve the Opposers and the Division Engineer with any modified accounting forms. The Opposers will have 63 days thereafter to provide written comments concerning the modified accounting forms to Applicant and the Division Engineer. Applicant must obtain the Division Engineer's approval of the modified accounting forms prior to their use. Upon the Division Engineer's approval of the modified accounting forms, Applicant shall file the approved modified accounting forms with the Court, with service on the opposers herein. Applicant shall make its accounting available to the Water Commissioner and to any party who requests it, providing a summary of withdrawals, return flows, depletions, and augmentation releases associated with the District's operation of the augmentation plan approved herein. The daily accounting and all backup and supporting information and documents shall also be provided to any objector making a written request for said accounting for the accounting year, upon payment of reasonable costs. The accounting shall be delivered to the Division Engineer and Water Commissioner in the manner they prescribe and may be delivered to other objectors in paper or electronic format at the District's option.

57. Retained Jurisdiction. Pursuant to the provisions of C.R.S. §37-92-304(6), this plan for augmentation decreed herein shall be subject to the reconsideration of this Court on the question of material injury to vested water rights of others, for a period of five years after Applicant fully utilizes the LIRFs as an augmentation supply, as evidenced by the District's provision of written notice to Opposers herein that all parks and common areas anticipated to result in LIRF credits have been developed and constructed, and the District is irrigating such parks and common areas with approved water sources allowing such LIRF credits to be claimed. Any person, within such period, may petition the Court to invoke its retained jurisdiction. Any person seeking to invoke the Court's retained jurisdiction shall file a verified petition with the Court setting forth the factual basis for the relief requested in the petition, together with proposed decretal language to effect the

petition. The party filing the petition shall have the burden of proof of going forward to establish the facts alleged in the petition. If the Court finds those facts are established, Applicant shall thereupon have the burden of proof to show: (a) that the petitioner is not injured, or (b) that any modification sought by the petitioner is not required to avoid injury to the petitioner, or (c) that any term or condition proposed by Applicant in response to the petition does avoid injury to the petitioner. The Division of Water Resources as a petitioner shall be entitled to assert injury to the vested water rights of others. If no such petition is filed within such period and the retained jurisdiction period is not extended by the Court in accordance with the revisions of the statute, this matter shall become final under its own terms. The Court also retains continuing jurisdiction for the purpose of determining whether the continued reservation of the nontributary Denver Basin water rights in the Denver, Arapahoe, and Laramie-Fox Hills aquifers, more particularly described in Paragraph 28.B., above, for augmentation use hereunder is required and retained jurisdiction for such purpose shall be perpetual. After notice to all objectors, if Applicant can demonstrate to the Court that post-pumping depletions need no longer be replaced and/or are non-injurious, the Court may remove the requirement that the nontributary groundwater must continue to be reserved.

58. Pursuant to C.R.S. §37-92-304(6), the Court shall retain continuing jurisdiction over the plan for augmentation decreed herein for reconsideration of the question of whether the provisions of this decree are necessary and/or sufficient to prevent injury to vested water rights of others, as pertains to the use of Denver Basin groundwater supplies adjudicated herein for augmentation purposes. The Court also retains continuing jurisdiction for the purpose of determining compliance with the terms of the augmentation plan. The Court further retains jurisdiction should the Applicant later seek to amend this decree by seeking to prove that post-pumping depletions are noninjurious, that the extent of replacement for post-pumping depletions is less than the amount of water reserved herein, and other post-pumping matters addressed in Paragraph 28.B. The Court's retained jurisdiction may be invoked using the process set forth in Paragraph 57.

59. Pursuant to C.R.S. §37-92-502(5)(a), the Applicant shall install and maintain such water measurement devices and recording devices as are deemed necessary by the State Engineer or Division Engineers, and the same shall be installed and operated in accordance with instructions from said entities. Applicant is to install and maintain a totalizing flow meter on each well, or any additional or replacement wells associated therewith and are required to include geophysical logging on each well. Applicant shall read and record their well meter readings on April 1<sup>st</sup> and November 1<sup>st</sup> of each year and shall submit their meter readings to the Water Commissioner by April 15<sup>th</sup> and November 15<sup>th</sup> of each year or more frequently as requested by the Water Commissioner.

60. In compliance with Local Water Court Rule 9, the owner of a conditional water right shall:

A. Upon the sale or transfer of a conditional water right, the transferee shall file with the Water court a notice of transfer which shall state:

1. The title and case number of the case in which the conditional decree was issued;
2. The description of the conditional water right transferred;
3. The name of the transferor;
4. The name and mailing address of the transferee; and
5. A copy of the recorded deed.

B. The transferor of any conditional water rights shall notify the clerk of the water court having jurisdiction of any change in mailing address.

C. The clerk shall place any notice of transfer or change of address in the case file in which the conditional decree was entered and in the case file in which the court first made a finding of reasonable diligence.

61. As to the conditional water rights, pursuant to C.R.S. §37-92-301(4)(a), the Applicant shall, every sixth year after the calendar year in which this conditional water right was decreed or subsequent diligence decreed or issued, if it desires to maintain the same, file an application for a finding of reasonable diligence or these conditional water rights shall be considered abandoned. Applicant shall, during the month of March, and the year of 2028, file an application for a finding of reasonable diligence herein, unless Applicant has, prior to that time, made application to make absolute the conditional water rights guaranteed herein.

62. This Ruling of Referee, when entered as a decree of the Water Court, shall be recorded in the real property records of El Paso County, Colorado. Copies of this ruling shall be mailed as provided by statute.

DATED: March 2, 2022.

BY THE REFEREE:



Kate Brewer, Water Referee  
Water Division 2

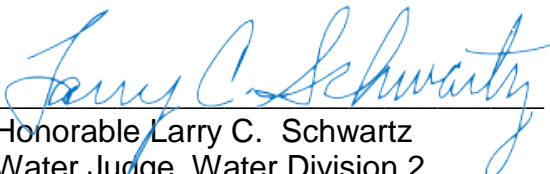


### DECREE

THE COURT FINDS THAT NO PROTEST WAS MADE IN THIS MATTER, THEREFOR THE FORGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE

THE JUDGMENT AND DECREE OF THIS COURT.

Dated: March 4, 2022



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Honorable Larry C. Schwartz  
Water Judge, Water Division 2  
State of Colorado

## **EXHIBIT A – Legal Descriptions**

### **Sterling Ranch Metropolitan District Nos. 1, 2 and 3**

DATE FILED: January 24, 2022 11:58 AM

The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1/4 SW1/4 of Section 27; the E1/2 SE1/4 and that portion of the SW1/4 SE1/4 lying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, that portion of the NE1/4 SE1/4 of said Section 32, lying South and East of said County Road, and that portion of the SE1/4 SW1/4 SE1/4 of Section 32 beginning at the SE corner of the SE1/4 SW1/4 SE1/4, then northerly along the east line of the SE1/4 SW1/4 SE1/4 a distance of 495 feet to a point on Vollmer Road, then southwesterly along Vollmer Road 660 feet to a point on the south line, then easterly 495 feet to the point of beginning; the E1/2 and the E1/2 SW1/4 and the SW1/4 SW1/4 of Section 33, and all that part of the NW1/4 of said Section 33 lying South and East of the said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road containing approximately 10 acres deeded to Colorado Interstate Gas Company by Warranty Deed recorded in Book 1173 at Page 359 of the El Paso County Records; and the W1/2 E1/2 and the W1/2 of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado. The NW1/4 of the NW1/4 of Section 4, Township 13 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado.

### **Bar X Land**

A parcel of land located in Township 11 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

All of Section 16; the E1/2 of the SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 of the W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21.

### **SR Quarry Land**

A TRACT OF LAND IN THE SOUTHWEST ONE-QUARTER AND THE SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER OF SECTION 32, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, IN EL PASO COUNTY, COLORADO, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 32; THENCE N89°23'57"E ALONG THE SOUTH LINE OF SECTION 32, 30.00 FEET TO POINT ON THE EASTERLY LINE OF BLACK FOREST ROAD, ACCORDING TO THE RESOLUTION ADOPTED BY THE BOARD OF COMMISSIONERS OF EL PASO COUNTY RECORDED IN ROAD BOOK A AT PAGE 78, WHICH POINT IS THE POINT OF BEGINNING; THENCE N00°02'19"W ALONG SAID EASTERLY LINE, 125.50 FEET TO A POINT ON THE SOUTH LINE OF THAT TRACT OF LAND DESCRIBED IN BOOK 3859 AT PAGE 151; THENCE ALONG THE BOUNDARY OF SAID TRACT FOR THE FOLLOWING FOUR (4) COURSES; (1) THENCE N89°23'57"E, 25.20 FEET; (2) THENCE N42°32'21"E, 664.79 FEET; (3) THENCE N01°44'16"W, 403.43 FEET; (4) THENCE N87°25'38"W, 463.51 FEET TO A POINT ON SAID EASTERLY LINE OF BLACK FOREST ROAD; THENCE N00°02'19"E ALONG SAID EASTERLY LINE, 124.08 FEET; THENCE N89°27'58"E, 2607.50 FEET; THENCE N00°00'40"W ALONG THE NORTH-SOUTH CENTERLINE OF SECTION 32, 152.93 FEET TO THE SOUTHWEST CORNER OF HOLIDAY HILLS NO. 1, ACCORDING TO THE PLAT RECORDED IN PLAT BOOK E2 AT PAGE 12; THENCE N89°31'30"E ALONG THE SOUTH LINE OF SAID HOLIDAY HILLS NO. 1, 1260.38 FEET; THENCE S00°33'58"E ALONG THE WESTERLY LINE OF GLIDER PORT ROAD, AS DEDICATED IN SAID HOLIDAY HILLS NO. 1, 741.29 FEET; THENCE S37°18'25"W ALONG THE NORTHWESTERLY LINE OF VOLLMER ROAD, 721.56 FEET; THENCE S89°23'57"W ALONG THE SOUTH LINE OF SECTION 32, 3437.29 FEET TO THE POINT OF BEGINNING, COUNTY OF EL PASO, STATE OF COLORADO

### **Retreat Land**

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21 AND A PORTION OF THE SOUTHWEST ONE-QUARTER OF SECTION 22, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27; THENCE S88°38'56"W ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1047.88 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED; THENCE S88°38'56"W CONTINUING ALONG SAID NORTH LINE, A DISTANCE OF 283.03 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27 SAID POINT ALSO BEING A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER; THENCE ALONG THE EASTERLY AND NORTHERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

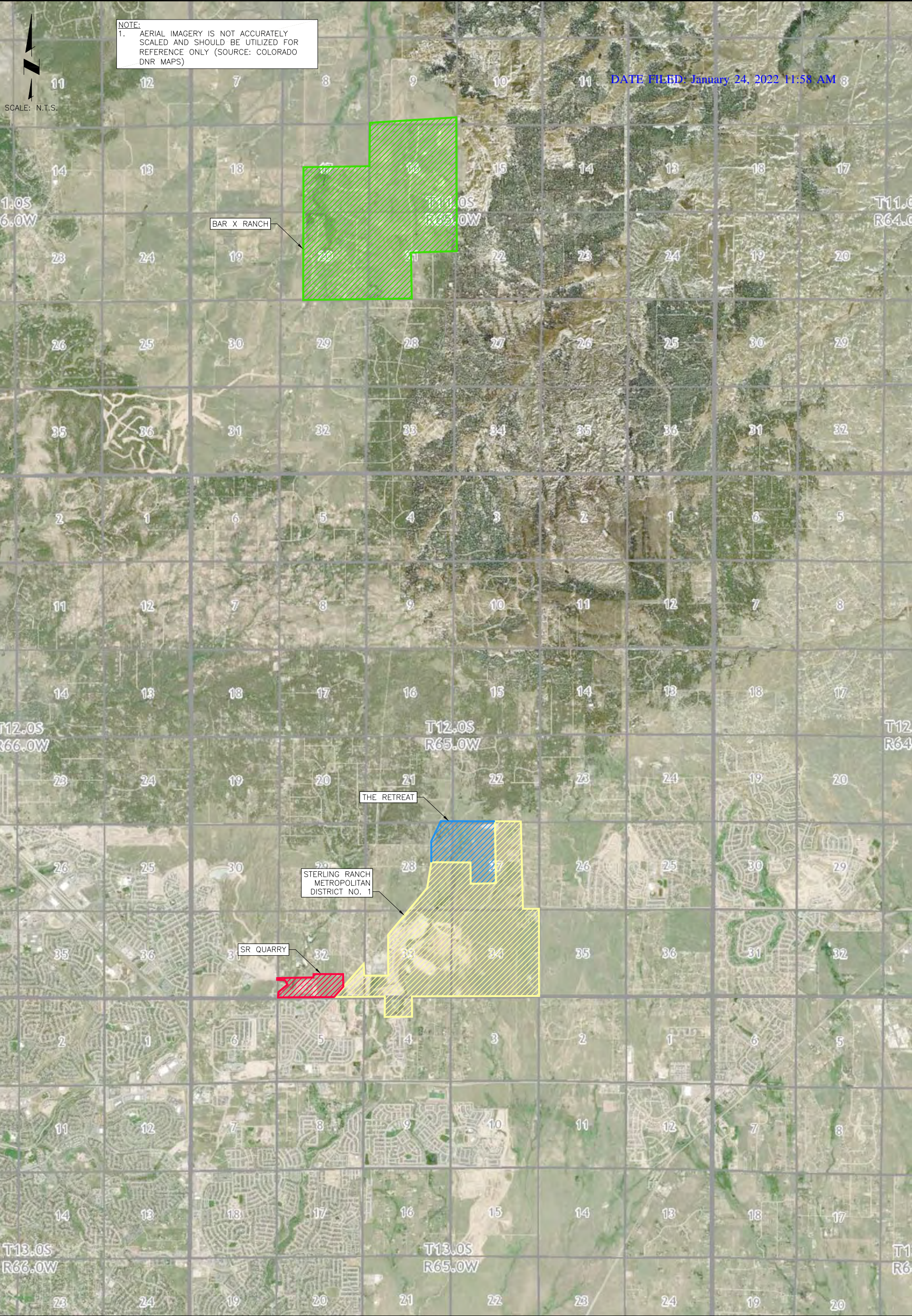
1. N00°37'14"W SAID LINE ALSO BEING THE WEST LINE OF THE SOUTHWEST ONE-QUARTER (SW1/4) OF SAID SECTION 22, A DISTANCE OF 30.00 FEET; 2. S89°40'23"W, A DISTANCE OF 736.82 FEET TO THE POINT OF INTERSECTION OF THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF SAID COUNTY RECORDS; THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1798.07 FEET; THENCE N59°58'50"E, A DISTANCE OF 694.83 FEET; THENCE S14°30'58"E, A DISTANCE OF 567.09 FEET; THENCE N69°36'18"E, A DISTANCE OF 603.87 FEET; THENCE S30°23'46"E, A DISTANCE OF 264.58 FEET; THENCE S61°52'38"W, A DISTANCE OF 227.40 FEET; THENCE S79°15'47"W, A DISTANCE OF 276.17 FEET; THENCE S89°39'18"W, A DISTANCE OF 356.07 FEET; THENCE S40°09'47"W, A DISTANCE OF 310.61 FEET; THENCE S09°56'46"W, A DISTANCE OF 270.03 FEET; THENCE S35°00'25"W, A DISTANCE OF 167.38 FEET; THENCE S57°24'01"W, A DISTANCE OF 235.36 FEET; THENCE S27°23'34"E, A DISTANCE OF 611.29 FEET TO THE POINT OF BEGINNING; SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 35.08 ACRES OF LAND, MORE OR LESS.

Along With:

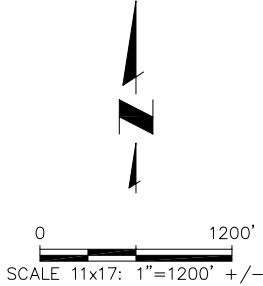
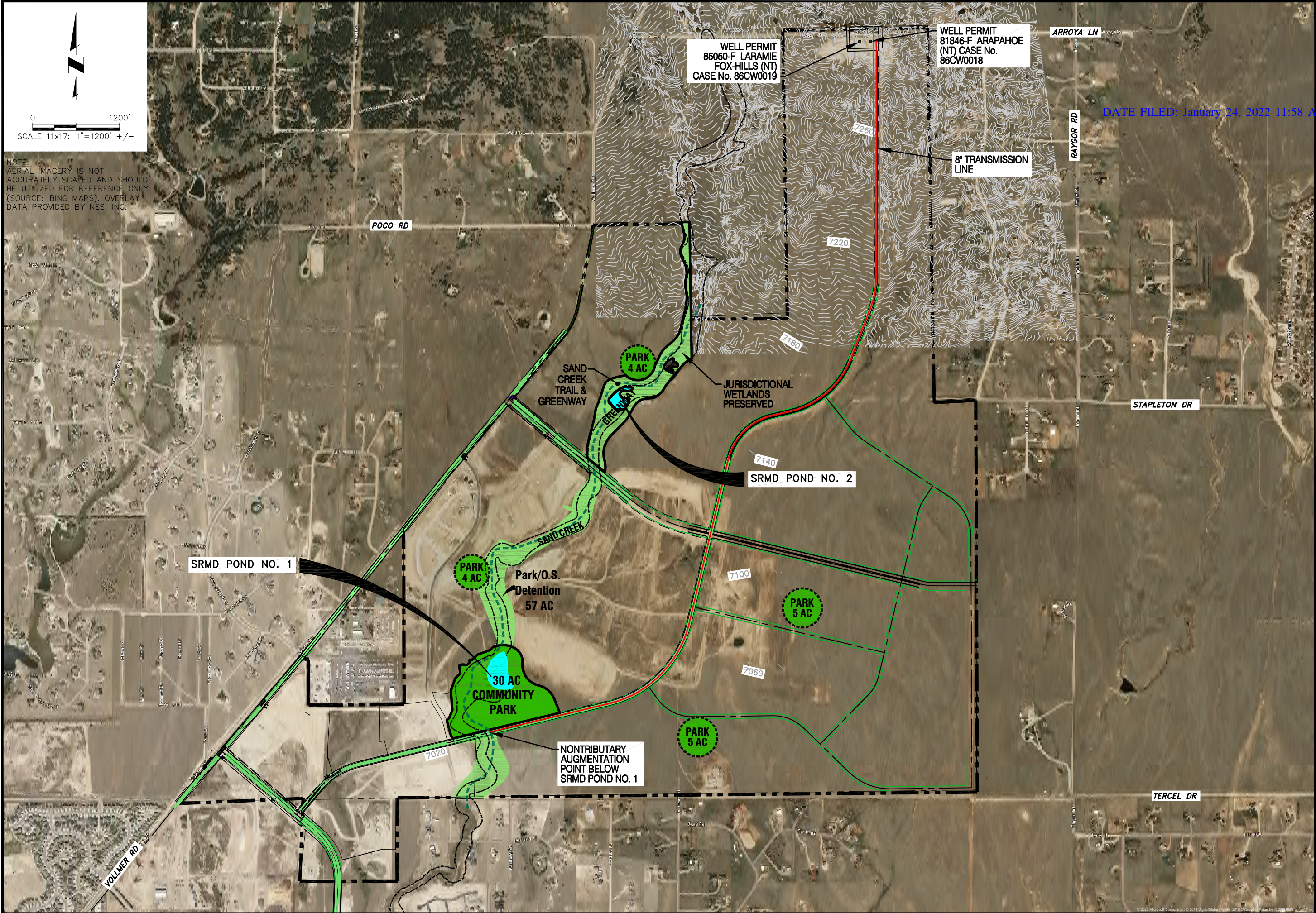
A PARCEL OF LAND BEING THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (SW1/4 NW1/4) OF SECTION 27, THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SECTION 27, A PORTION OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER OF SECTION 28 AND A PORTION OF THE NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4) OF SECTION 28, ALL IN TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED; THENCE S00°54'30"E ALONG THE EAST LINE OF THE WEST ONE-HALF (W1/2) OF SAID SECTION 27, A DISTANCE OF 3925.63 FEET TO THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER NW1/4 SW1/4) OF SAID SECTION 27; THENCE S87°35'00"W ALONG THE SOUTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1332.78 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4); THENCE N00°53'18"W ALONG THE WEST LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1316.78 FEET TO THE NORTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4); THENCE S89°08'28"W ALONG THE SOUTH LINE OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4) OF SECTION 28, A DISTANCE OF 1326.68 FEET TO THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4); THENCE N00°30'49"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4), A DISTANCE OF 1270.77 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER; THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1450.84 FEET TO THE POINT OF INTERSECTION OF THE SOUTHERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF SAID COUNTY RECORDS; THENCE ALONG THE SOUTHERLY AND EASTERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES: 1. N89°40'23"E, A DISTANCE OF 761.52 FEET TO A POINT ON THE EAST LINE OF SAID NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4); 2. N00°52'58"W ALONG SAID EAST LINE, A DISTANCE OF 30.00 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27; THENCE N88°38'56"E ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1330.91 FEET TO THE POINT OF BEGINNING; SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 190.89 ACRES OF LAND, MORE OR LESS.



2021/09/22 8:43 AM By: Andrew Hood j:\JDS-Hydro\Project Files\161 Morley Investments, LLC\161.06 Sterling Ranch Water Reports\Drawings\Exhibits\161.06E\_Exhibit-B2.dwg



NOTE:  
AERIAL IMAGERY IS NOT  
ACCURATELY SCALED AND SHOULD  
BE UTILIZED FOR REFERENCE ONLY  
(SOURCE: BING MAPS). OVERLAY  
DATA PROVIDED BY NES, INC.

DATE FILED: January 24, 2022 11:58 AM

**JDS-HYDRO** CONSULTANTS, INC.  
545 EAST PIKES PEAK AVENUE, SUITE 300  
COLORADO SPRINGS, COLORADO 80903  
(719) 227-0072

DISCLAIMER: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. ANY ERRORS OR OMISSIONS  
SHALL BE REPORTED TO JDS-HYDRO CONSULTANTS, INC. JDS-HYDRO ASSUMES NO  
LIABILITY FOR UNAUTHORIZED CHANGES AND/OR REVISIONS MADE TO PLANS.

STERLING RANCH METROPOLITAN DISTRICT  
NONTRIBUTARY AUGMENTATION POINT  
EXHIBIT B.2.

NO.	DESCRIPTION	BY	APP.	DATE
1				
2				
3				
4				
5				
6				
7				

PRELIMINARY

Project No.: 161.06E  
Date: 09/21/21  
Design: DES  
Drawn: ACH  
Check: DES

## ounting - SRMD Pond No. 1 and Pond No. 2

DATE FILED: January 24, 2022 11:58 AM

No. 1

Beginning of Day Staff Gauge Reading	_____	ft
Beginning of Day Volume <sup>1</sup>	_____	Acre-feet
End of Day Staff Gauge Reading	_____	ft
End of Day Staff Volume <sup>1</sup>	_____	Acre-feet
End of Day Gain / Loss in Volume (D-B)	_____	ft

No. 2

Beginning of Day Staff Gauge Reading	_____	ft
Beginning of Day Volume <sup>2</sup>	_____	Acre-feet
End of Day Staff Gauge Reading	_____	ft
End of Day Staff Volume <sup>2</sup>	_____	Acre-feet
End of Day Gain / Loss in Volume (I-G)	_____	ft

Total Volume Gain / Loss in Volume (E+J)	_____	Acre-feet
Is there a Free River? (yes / no)	_____	
Admin Number of Calling Right	_____	

1) Volume from SRMD Pond No. 1 Stage-Storage Table No. 1

2) Volume from SRMD Pond No. 2 Stage-Storage Table No. 2

**Sterling Ranch Metropolitan District**  
**Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan**  
**prepared by: JDS-Hydro Consultants, Inc.**

**Evaporation Accounting - SRMD Pond No. 1 and Pond No. 2**

**Date:** \_\_\_\_\_

**SRMD Pond No. 1**

A) Beginning of Day Staff Gauge Reading	_____	ft
B) Beginning of Day Surface Area <sup>1</sup>	_____	Acre-feet
C) End of Day Staff Gauge Reading	_____	ft
D) End of Day Staff Surface Area <sup>1</sup>	_____	Acre-feet
E) End of Day Average Surface Area (D-B)	_____	ft
F) Precipitation <sup>2</sup>	_____	inches
G) Effective Precipitation (((F)*0.7)/12)	_____	ft
I) Gross Lake Evaporation <sup>3</sup>	_____	ft
J) Net Lake Evaporation (I-G)	_____	AF/Acre
K) Daily Average Evaporation (J*E)	_____	AF

**SRMD Pond No. 2**

L) Beginning of Day Staff Gauge Reading	_____	ft
M) Beginning of Day Surface Area <sup>2</sup>	_____	Acre-feet
N) End of Day Staff Gauge Reading	_____	ft
O) End of Day Staff Surface Area <sup>2</sup>	_____	Acre-feet
P) End of Day Average Surface Area (D-B)	_____	ft
Q) Precipitation <sup>2</sup>	_____	inches
R) Effective Precipitation (((Q)*0.7)/12)	_____	ft
S) Gross Lake Evaporation <sup>3</sup>	_____	ft
T) Net Lake Evaporation (S-R)	_____	AF/Acre
U) Daily Average Evaporation (T*P)	_____	AF

**Summary**

V) Total Evaporation Volume (U+K)	_____	Acre-feet
W) Is there a Free River? (yes / no)	_____	
X) Admin Number of Calling Right	_____	

Note: 1) Volume from SRMD Pond No. 1 Stage-Surface Area Table No. 1

2) From Black Forest 6 WNW Weather Station

3) Monthly Gross Evaporation Rate from Table 3

2) Volume from SRMD Pond No. 2 Stage-Surface Area Table No. 2

**Sterling Ranch Metropolitan District**  
**Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan**  
**prepared by: JDS-Hydro Consultants, Inc.**

**Table 3 - Monthly Gross Evaporation Rates for SRMD**

<b>Month</b>	<b>% of Annual Evaporation % of Acres</b>	<b>Gross Lake Evaporation Rate - Feet</b>
January	1.0%	0.039
February	3.0%	0.116
March	6.0%	0.233
April	9.0%	0.349
May	12.5%	0.484
June	15.5%	0.601
July	16.0%	0.620
August	13.0%	0.504
September	11.0%	0.426
October	7.5%	0.291
November	4.0%	0.155
December	1.5%	0.058
<b>Total</b>	<b>1.0</b>	<b>3.875</b>

**Sterling Ranch Metropolitan District**  
**Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan**  
**prepared by: JDS-Hydro Consultants, Inc.**

**Well Pumping / Accounting - NT and NNT Wells**

**Date:** \_\_\_\_\_

**Not-Nontributary Well Pumping**

1) SR Quarry Denver Well No. 1

A) Meter Reading - Beginning of Day	_____ gallons
B) Meter Reading - End of Day	_____ gallons
C) Total gallons pumped (B-A)	_____ gallons
D) Alluvial depletions (4%*C)	_____ gallons
E) Alluvial depletions (D/325851)	_____ AF

2) SR Quarry Arapahoe Well No. 1

F) Meter Reading - Beginning of Day	_____ gallons
G) Meter Reading - End of Day	_____ gallons
H) Total gallons pumped (G-F)	_____ gallons
I) Alluvial depletions (4%*H)	_____ gallons
J) Alluvial depletions (I/325851)	_____ AF

3) SRMD Well D-1

K) Meter Reading - Beginning of Day	_____ gallons
L) Meter Reading - End of Day	_____ gallons
M) Total gallons pumped (L-K)	_____ gallons
N) Alluvial depletions (4%*N)	_____ gallons
O) Alluvial depletions (N/325851)	_____ AF
P) Total alluvial depletions (E+J+O)	_____ AF

**Nontributary Well Pumping**

4) SRMD Well A-1

Q) Meter Reading - Beginning of Day	_____ gallons
R) Meter Reading - End of Day	_____ gallons
S) Total gallons pumped (R-Q)	_____ gallons
T) Total gallons pumped (S/325851)	_____ AF

5) SRMD Well LFH-2

U) Meter Reading - Beginning of Day	_____ gallons
V) Meter Reading - End of Day	_____ gallons
W) Total gallons pumped (R-Q)	_____ gallons
X) Total gallons pumped (S/325851)	_____ AF
	_____
Y) Total NT pumped (T+X)	_____ AF
	_____

**Sterling Ranch Metropolitan District**  
**Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan**  
**prepared by: JDS-Hydro Consultants, Inc.**

**Lawn Irrigation Return Flows (LIRF) Calculations**

**Date:** \_\_\_\_\_

**LIRF Credit Calculations**

A) Metered municipal irrigation use	_____	gallons
B) Metered municipal irrigation use (A/325851)	_____	AF
C) Estimated irrigation losses (B*0.735)	_____	AF
D) Adjusted irrigation application (B-C)	_____	AF
E) Fixed LIRF return flow rate	_____	15 %
F) Estiamted LIRF volume (D*E)	_____	AF

Month 1 BC Cows as listed on a monthly basis from column 67 may only be "listed over" for a period of one month as described in Case 56. 10/20/2008 December 31

# EXHIBIT D

SRMD Pond No. 1 Elevation-Area-Capacity - JDS-Hydro - September 2021

Staff Gage	Depth	Elevation	Area (ac)	Capacity (ac-ft)	
0	0.00	7028	0.000	0.000	Reservoir Bottom
2	2.00	7030	1.235	1.230	
4	4.00	7032	1.619	4.090	
6	6.00	7034	2.013	7.720	
8	8.00	7036	2.516	12.250	Spillway Crest / NWL
10	10.00	7038	3.612	17.390	
12	12.00	7040	4.676	24.600	Dam Crest
Elevation-Area-Capacity Interpolated to 1/100th ft.					
Staff Gauge	Depth	Elevation	Area (AC)	Capacity (AF)	Comments
<b>0.00</b>	<b>0.00</b>	<b>7028.00</b>	<b>0.00</b>	<b>0.00</b>	<b>Reservoir Bottom</b>
0.01	0.01	7028.01	0.006	0.006	
0.02	0.02	7028.02	0.012	0.012	
0.03	0.03	7028.03	0.018	0.018	
0.04	0.04	7028.04	0.025	0.025	
<b>0.05</b>	<b>0.05</b>	<b>7028.05</b>	<b>0.031</b>	<b>0.031</b>	
0.06	0.06	7028.06	0.037	0.037	
0.07	0.07	7028.07	0.043	0.043	
0.08	0.08	7028.08	0.049	0.049	
0.09	0.09	7028.09	0.055	0.055	
0.10	0.10	7028.10	0.062	0.062	
0.11	0.11	7028.11	0.068	0.068	
0.12	0.12	7028.12	0.074	0.074	
0.13	0.13	7028.13	0.080	0.080	
0.14	0.14	7028.14	0.086	0.086	
<b>0.15</b>	<b>0.15</b>	<b>7028.15</b>	<b>0.092</b>	<b>0.092</b>	
0.16	0.16	7028.16	0.098	0.098	
0.17	0.17	7028.17	0.105	0.105	
0.18	0.18	7028.18	0.111	0.111	
0.19	0.19	7028.19	0.117	0.117	
<b>0.20</b>	<b>0.20</b>	<b>7028.20</b>	<b>0.123</b>	<b>0.123</b>	
0.21	0.21	7028.21	0.129	0.129	
0.22	0.22	7028.22	0.135	0.135	
0.23	0.23	7028.23	0.141	0.141	
0.24	0.24	7028.24	0.148	0.148	
<b>0.25</b>	<b>0.25</b>	<b>7028.25</b>	<b>0.154</b>	<b>0.154</b>	
0.26	0.26	7028.26	0.160	0.160	
0.27	0.27	7028.27	0.166	0.166	
0.28	0.28	7028.28	0.172	0.172	
0.29	0.29	7028.29	0.178	0.178	
<b>0.30</b>	<b>0.30</b>	<b>7028.30</b>	<b>0.185</b>	<b>0.185</b>	

SRMD Pond No. 2 Elevation-Area-Capacity - JDS-Hydro - September 2021

Staff Gage	Depth	Elevation	Area (ac)	Capacity (ac-ft)	
0	0.00	7111	0.000	0.000	Reservoir Bottom
1	1.00	7115	0.031	0.020	
2	2.00	7116	0.662	0.360	
4	4.00	7118	1.015	2.040	
6	6.00	7120	1.233	4.290	Spillway Crest / NWL
8	8.00	7122	1.602	6.76	
10	10.00	7124	2.548	9.96	Dam Crest
Elevation-Area-Capacity Interpolated to 1/100th ft.					
Staff Gauge	Depth	Elevation	Area (AC)	Capacity (AF)	Comments
<b>0.00</b>	<b>0.00</b>	<b>7114.00</b>	<b>0.000</b>	<b>0.000</b>	<b>Reservoir Bottom</b>
0.01	0.01	7114.01	0.000	0.000	
0.02	0.02	7114.02	0.001	0.000	
0.03	0.03	7114.03	0.001	0.001	
0.04	0.04	7114.04	0.001	0.001	
<b>0.05</b>	<b>0.05</b>	<b>7114.05</b>	<b>0.002</b>	<b>0.001</b>	
0.06	0.06	7114.06	0.002	0.001	
0.07	0.07	7114.07	0.002	0.001	
0.08	0.08	7114.08	0.002	0.002	
0.09	0.09	7114.09	0.003	0.002	
0.10	0.10	7114.10	<b>0.003</b>	<b>0.002</b>	
0.11	0.11	7114.11	0.003	0.002	
0.12	0.12	7114.12	0.004	0.002	
0.13	0.13	7114.13	0.004	0.003	
0.14	0.14	7114.14	0.004	0.003	
<b>0.15</b>	<b>0.15</b>	<b>7114.15</b>	<b>0.005</b>	<b>0.003</b>	
0.16	0.16	7114.16	0.005	0.003	
0.17	0.17	7114.17	0.005	0.003	
0.18	0.18	7114.18	0.005	0.004	
0.19	0.19	7114.19	0.006	0.004	
<b>0.20</b>	<b>0.20</b>	<b>7114.20</b>	<b>0.006</b>	<b>0.004</b>	
0.21	0.21	7114.21	0.006	0.004	
0.22	0.22	7114.22	0.007	0.004	
0.23	0.23	7114.23	0.007	0.005	
0.24	0.24	7114.24	0.007	0.005	
<b>0.25</b>	<b>0.25</b>	<b>7114.25</b>	<b>0.008</b>	<b>0.005</b>	
0.26	0.26	7114.26	0.008	0.005	
0.27	0.27	7114.27	0.008	0.005	
0.28	0.28	7114.28	0.008	0.006	
0.29	0.29	7114.29	0.009	0.006	
<b>0.30</b>	<b>0.30</b>	<b>7114.30</b>	<b>0.009</b>	<b>0.006</b>	

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0.31	0.31	7028.31	0.191	0.191	
0.32	0.32	7028.32	0.197	0.197	
0.33	0.33	7028.33	0.203	0.203	
0.34	0.34	7028.34	0.209	0.209	
<b>0.35</b>	<b>0.35</b>	<b>7028.35</b>	<b>0.215</b>	<b>0.215</b>	
0.36	0.36	7028.36	0.221	0.221	
0.37	0.37	7028.37	0.228	0.228	
0.38	0.38	7028.38	0.234	0.234	
0.39	0.39	7028.39	0.240	0.240	
<b>0.40</b>	<b>0.40</b>	<b>7028.40</b>	<b>0.246</b>	<b>0.246</b>	
0.41	0.41	7028.41	0.252	0.252	
0.42	0.42	7028.42	0.258	0.258	
0.43	0.43	7028.43	0.264	0.264	
0.44	0.44	7028.44	0.271	0.271	
<b>0.45</b>	<b>0.45</b>	<b>7028.45</b>	<b>0.277</b>	<b>0.277</b>	
0.46	0.46	7028.46	0.283	0.283	
0.47	0.47	7028.47	0.289	0.289	
0.48	0.48	7028.48	0.295	0.295	
0.49	0.49	7028.49	0.301	0.301	
<b>0.50</b>	<b>0.50</b>	<b>7028.50</b>	<b>0.308</b>	<b>0.308</b>	
0.51	0.51	7028.51	0.314	0.314	
0.52	0.52	7028.52	0.320	0.320	
0.53	0.53	7028.53	0.326	0.326	
0.54	0.54	7028.54	0.332	0.332	
<b>0.55</b>	<b>0.55</b>	<b>7028.55</b>	<b>0.338</b>	<b>0.338</b>	
0.56	0.56	7028.56	0.344	0.344	
0.57	0.57	7028.57	0.351	0.351	
0.58	0.58	7028.58	0.357	0.357	
0.59	0.59	7028.59	0.363	0.363	
<b>0.60</b>	<b>0.60</b>	<b>7028.60</b>	<b>0.369</b>	<b>0.369</b>	
0.61	0.61	7028.61	0.375	0.375	
0.62	0.62	7028.62	0.381	0.381	
0.63	0.63	7028.63	0.387	0.387	
0.64	0.64	7028.64	0.394	0.394	
<b>0.65</b>	<b>0.65</b>	<b>7028.65</b>	<b>0.400</b>	<b>0.400</b>	
0.66	0.66	7028.66	0.406	0.406	
0.67	0.67	7028.67	0.412	0.412	
0.68	0.68	7028.68	0.418	0.418	
0.69	0.69	7028.69	0.424	0.424	
<b>0.70</b>	<b>0.70</b>	<b>7028.70</b>	<b>0.430</b>	<b>0.430</b>	
0.71	0.71	7028.71	0.437	0.437	
0.72	0.72	7028.72	0.443	0.443	
0.73	0.73	7028.73	0.449	0.449	
0.74	0.74	7028.74	0.455	0.455	
<b>0.75</b>	<b>0.75</b>	<b>7028.75</b>	<b>0.461</b>	<b>0.461</b>	
0.76	0.76	7028.76	0.467	0.467	

0.31	0.31	7114.31	0.009	0.006	
0.32	0.32	7114.32	0.010	0.006	
0.33	0.33	7114.33	0.010	0.007	
0.34	0.34	7114.34	0.010	0.007	
<b>0.35</b>	<b>0.35</b>	<b>7114.35</b>	<b>0.011</b>	<b>0.007</b>	
0.36	0.36	7114.36	0.011	0.007	
0.37	0.37	7114.37	0.011	0.007	
0.38	0.38	7114.38	0.011	0.008	
0.39	0.39	7114.39	0.012	0.008	
<b>0.40</b>	<b>0.40</b>	<b>7114.40</b>	<b>0.012</b>	<b>0.008</b>	
0.41	0.41	7114.41	0.012	0.008	
0.42	0.42	7114.42	0.013	0.008	
0.43	0.43	7114.43	0.013	0.009	
0.44	0.44	7114.44	0.013	0.009	
<b>0.45</b>	<b>0.45</b>	<b>7114.45</b>	<b>0.014</b>	<b>0.009</b>	
0.46	0.46	7114.46	0.014	0.009	
0.47	0.47	7114.47	0.014	0.009	
0.48	0.48	7114.48	0.014	0.010	
0.49	0.49	7114.49	0.015	0.010	
<b>0.50</b>	<b>0.50</b>	<b>7114.50</b>	<b>0.015</b>	<b>0.010</b>	
0.51	0.51	7114.51	0.015	0.010	
0.52	0.52	7114.52	0.016	0.010	
0.53	0.53	7114.53	0.016	0.011	
0.54	0.54	7114.54	0.016	0.011	
<b>0.55</b>	<b>0.55</b>	<b>7114.55</b>	<b>0.017</b>	<b>0.011</b>	
0.56	0.56	7114.56	0.017	0.011	
0.57	0.57	7114.57	0.017	0.011	
0.58	0.58	7114.58	0.017	0.012	
0.59	0.59	7114.59	0.018	0.012	
<b>0.60</b>	<b>0.60</b>	<b>7114.60</b>	<b>0.018</b>	<b>0.012</b>	
0.61	0.61	7114.61	0.018	0.012	
0.62	0.62	7114.62	0.019	0.012	
0.63	0.63	7114.63	0.019	0.013	
0.64	0.64	7114.64	0.019	0.013	
<b>0.65</b>	<b>0.65</b>	<b>7114.65</b>	<b>0.020</b>	<b>0.013</b>	
0.66	0.66	7114.66	0.020	0.013	
0.67	0.67	7114.67	0.020	0.013	
0.68	0.68	7114.68	0.020	0.014	
0.69	0.69	7114.69	0.021	0.014	
<b>0.70</b>	<b>0.70</b>	<b>7114.70</b>	<b>0.021</b>	<b>0.014</b>	
0.71	0.71	7114.71	0.021	0.014	
0.72	0.72	7114.72	0.022	0.014	
0.73	0.73	7114.73	0.022	0.015	
0.74	0.74	7114.74	0.022	0.015	
<b>0.75</b>	<b>0.75</b>	<b>7114.75</b>	<b>0.023</b>	<b>0.015</b>	
0.76	0.76	7114.76	0.023	0.015	

0.77	0.77	7028.77	0.474	0.474	
0.78	0.78	7028.78	0.480	0.480	
0.79	0.79	7028.79	0.486	0.486	
<b>0.80</b>	<b>0.80</b>	<b>7028.80</b>	<b>0.492</b>	<b>0.492</b>	
0.81	0.81	7028.81	0.498	0.498	
0.82	0.82	7028.82	0.504	0.504	
0.83	0.83	7028.83	0.510	0.510	
0.84	0.84	7028.84	0.517	0.517	
<b>0.85</b>	<b>0.85</b>	<b>7028.85</b>	<b>0.523</b>	<b>0.523</b>	
0.86	0.86	7028.86	0.529	0.529	
0.87	0.87	7028.87	0.535	0.535	
0.88	0.88	7028.88	0.541	0.541	
0.89	0.89	7028.89	0.547	0.547	
<b>0.90</b>	<b>0.90</b>	<b>7028.90</b>	<b>0.553</b>	<b>0.553</b>	
0.91	0.91	7028.91	0.560	0.560	
0.92	0.92	7028.92	0.566	0.566	
0.93	0.93	7028.93	0.572	0.572	
0.94	0.94	7028.94	0.578	0.578	
<b>0.95</b>	<b>0.95</b>	<b>7028.95</b>	<b>0.584</b>	<b>0.584</b>	
0.96	0.96	7028.96	0.590	0.590	
0.97	0.97	7028.97	0.597	0.597	
0.98	0.98	7028.98	0.603	0.603	
0.99	0.99	7028.99	0.609	0.609	
<b>1.00</b>	<b>1.00</b>	<b>7029.00</b>	<b>0.615</b>	<b>0.615</b>	
1.01	1.01	7029.01	0.621	0.621	
1.02	1.02	7029.02	0.627	0.627	
1.03	1.03	7029.03	0.633	0.633	
1.04	1.04	7029.04	0.640	0.640	
<b>1.05</b>	<b>1.05</b>	<b>7029.05</b>	<b>0.646</b>	<b>0.646</b>	
1.06	1.06	7029.06	0.652	0.652	
1.07	1.07	7029.07	0.658	0.658	
1.08	1.08	7029.08	0.664	0.664	
1.09	1.09	7029.09	0.670	0.670	
<b>1.10</b>	<b>1.10</b>	<b>7029.10</b>	<b>0.676</b>	<b>0.676</b>	
1.11	1.11	7029.11	0.683	0.683	
1.12	1.12	7029.12	0.689	0.689	
1.13	1.13	7029.13	0.695	0.695	
1.14	1.14	7029.14	0.701	0.701	
<b>1.15</b>	<b>1.15</b>	<b>7029.15</b>	<b>0.707</b>	<b>0.707</b>	
1.16	1.16	7029.16	0.713	0.713	
1.17	1.17	7029.17	0.720	0.720	
1.18	1.18	7029.18	0.726	0.726	
1.19	1.19	7029.19	0.732	0.732	
<b>1.20</b>	<b>1.20</b>	<b>7029.20</b>	<b>0.738</b>	<b>0.738</b>	
1.21	1.21	7029.21	0.744	0.744	
1.22	1.22	7029.22	0.750	0.750	

0.77	0.77	7114.77	0.023	0.015	
0.78	0.78	7114.78	0.023	0.016	
0.79	0.79	7114.79	0.024	0.016	
<b>0.80</b>	<b>0.80</b>	<b>7114.80</b>	<b>0.024</b>	<b>0.016</b>	
0.81	0.81	7114.81	0.024	0.016	
0.82	0.82	7114.82	0.025	0.016	
0.83	0.83	7114.83	0.025	0.017	
0.84	0.84	7114.84	0.025	0.017	
<b>0.85</b>	<b>0.85</b>	<b>7114.85</b>	<b>0.026</b>	<b>0.017</b>	
0.86	0.86	7114.86	0.026	0.017	
0.87	0.87	7114.87	0.026	0.017	
0.88	0.88	7114.88	0.026	0.018	
0.89	0.89	7114.89	0.027	0.018	
<b>0.90</b>	<b>0.90</b>	<b>7114.90</b>	<b>0.027</b>	<b>0.018</b>	
0.91	0.91	7114.91	0.027	0.018	
0.92	0.92	7114.92	0.028	0.018	
0.93	0.93	7114.93	0.028	0.019	
0.94	0.94	7114.94	0.028	0.019	
<b>0.95</b>	<b>0.95</b>	<b>7114.95</b>	<b>0.029</b>	<b>0.019</b>	
0.96	0.96	7114.96	0.029	0.019	
0.97	0.97	7114.97	0.029	0.019	
0.98	0.98	7114.98	0.029	0.020	
0.99	0.99	7114.99	0.030	0.020	
<b>1.00</b>	<b>1.00</b>	<b>7115.00</b>	<b>0.030</b>	<b>0.020</b>	
1.01	1.01	7115.01	0.036	0.023	
1.02	1.02	7115.02	0.043	0.026	
1.03	1.03	7115.03	0.049	0.029	
1.04	1.04	7115.04	0.055	0.032	
<b>1.05</b>	<b>1.05</b>	<b>7115.05</b>	<b>0.061</b>	<b>0.035</b>	
1.06	1.06	7115.06	0.068	0.038	
1.07	1.07	7115.07	0.074	0.041	
1.08	1.08	7115.08	0.080	0.044	
1.09	1.09	7115.09	0.087	0.047	
<b>1.10</b>	<b>1.10</b>	<b>7115.10</b>	<b>0.093</b>	<b>0.050</b>	
1.11	1.11	7115.11	0.099	0.053	
1.12	1.12	7115.12	0.106	0.056	
1.13	1.13	7115.13	0.112	0.059	
1.14	1.14	7115.14	0.118	0.062	
<b>1.15</b>	<b>1.15</b>	<b>7115.15</b>	<b>0.124</b>	<b>0.065</b>	
1.16	1.16	7115.16	0.131	0.068	
1.17	1.17	7115.17	0.137	0.071	
1.18	1.18	7115.18	0.143	0.074	
1.19	1.19	7115.19	0.150	0.077	
<b>1.20</b>	<b>1.20</b>	<b>7115.20</b>	<b>0.156</b>	<b>0.080</b>	
1.21	1.21	7115.21	0.162	0.083	
1.22	1.22	7115.22	0.169	0.086	

1.23	1.23	7029.23	0.756	0.756	
1.24	1.24	7029.24	0.763	0.763	
<b>1.25</b>	<b>1.25</b>	<b>7029.25</b>	<b>0.769</b>	<b>0.769</b>	
1.26	1.26	7029.26	0.775	0.775	
1.27	1.27	7029.27	0.781	0.781	
1.28	1.28	7029.28	0.787	0.787	
1.29	1.29	7029.29	0.793	0.793	
<b>1.30</b>	<b>1.30</b>	<b>7029.30</b>	<b>0.799</b>	<b>0.799</b>	
1.31	1.31	7029.31	0.806	0.806	
1.32	1.32	7029.32	0.812	0.812	
1.33	1.33	7029.33	0.818	0.818	
1.34	1.34	7029.34	0.824	0.824	
<b>1.35</b>	<b>1.35</b>	<b>7029.35</b>	<b>0.830</b>	<b>0.830</b>	
1.36	1.36	7029.36	0.836	0.836	
1.37	1.37	7029.37	0.843	0.843	
1.38	1.38	7029.38	0.849	0.849	
1.39	1.39	7029.39	0.855	0.855	
<b>1.40</b>	<b>1.40</b>	<b>7029.40</b>	<b>0.861</b>	<b>0.861</b>	
1.41	1.41	7029.41	0.867	0.867	
1.42	1.42	7029.42	0.873	0.873	
1.43	1.43	7029.43	0.879	0.879	
1.44	1.44	7029.44	0.886	0.886	
<b>1.45</b>	<b>1.45</b>	<b>7029.45</b>	<b>0.892</b>	<b>0.892</b>	
1.46	1.46	7029.46	0.898	0.898	
1.47	1.47	7029.47	0.904	0.904	
1.48	1.48	7029.48	0.910	0.910	
1.49	1.49	7029.49	0.916	0.916	
<b>1.50</b>	<b>1.50</b>	<b>7029.50</b>	<b>0.922</b>	<b>0.922</b>	
1.51	1.51	7029.51	0.929	0.929	
1.52	1.52	7029.52	0.935	0.935	
1.53	1.53	7029.53	0.941	0.941	
1.54	1.54	7029.54	0.947	0.947	
<b>1.55</b>	<b>1.55</b>	<b>7029.55</b>	<b>0.953</b>	<b>0.953</b>	
1.56	1.56	7029.56	0.959	0.959	
1.57	1.57	7029.57	0.966	0.966	
1.58	1.58	7029.58	0.972	0.972	
1.59	1.59	7029.59	0.978	0.978	
<b>1.60</b>	<b>1.60</b>	<b>7029.60</b>	<b>0.984</b>	<b>0.984</b>	
1.61	1.61	7029.61	0.990	0.990	
1.62	1.62	7029.62	0.996	0.996	
1.63	1.63	7029.63	1.002	1.002	
1.64	1.64	7029.64	1.009	1.009	
<b>1.65</b>	<b>1.65</b>	<b>7029.65</b>	<b>1.015</b>	<b>1.015</b>	
1.66	1.66	7029.66	1.021	1.021	
1.67	1.67	7029.67	1.027	1.027	
1.68	1.68	7029.68	1.033	1.033	

1.23	1.23	7115.23	0.175	0.089	
1.24	1.24	7115.24	0.181	0.092	
<b>1.25</b>	<b>1.25</b>	<b>7115.25</b>	<b>0.187</b>	<b>0.095</b>	
1.26	1.26	7115.26	0.194	0.098	
1.27	1.27	7115.27	0.200	0.101	
1.28	1.28	7115.28	0.206	0.104	
1.29	1.29	7115.29	0.213	0.107	
<b>1.30</b>	<b>1.30</b>	<b>7115.30</b>	<b>0.219</b>	<b>0.110</b>	
1.31	1.31	7115.31	0.225	0.113	
1.32	1.32	7115.32	0.232	0.116	
1.33	1.33	7115.33	0.238	0.119	
1.34	1.34	7115.34	0.244	0.122	
<b>1.35</b>	<b>1.35</b>	<b>7115.35</b>	<b>0.250</b>	<b>0.125</b>	
1.36	1.36	7115.36	0.257	0.128	
1.37	1.37	7115.37	0.263	0.131	
1.38	1.38	7115.38	0.269	0.134	
1.39	1.39	7115.39	0.276	0.137	
<b>1.40</b>	<b>1.40</b>	<b>7115.40</b>	<b>0.282</b>	<b>0.140</b>	
1.41	1.41	7115.41	0.288	0.143	
1.42	1.42	7115.42	0.295	0.146	
1.43	1.43	7115.43	0.301	0.149	
1.44	1.44	7115.44	0.307	0.152	
<b>1.45</b>	<b>1.45</b>	<b>7115.45</b>	<b>0.313</b>	<b>0.155</b>	
1.46	1.46	7115.46	0.320	0.158	
1.47	1.47	7115.47	0.326	0.161	
1.48	1.48	7115.48	0.332	0.164	
1.49	1.49	7115.49	0.339	0.167	
<b>1.50</b>	<b>1.50</b>	<b>7115.50</b>	<b>0.345</b>	<b>0.170</b>	
1.51	1.51	7115.51	0.351	0.173	
1.52	1.52	7115.52	0.358	0.176	
1.53	1.53	7115.53	0.364	0.179	
1.54	1.54	7115.54	0.370	0.182	
<b>1.55</b>	<b>1.55</b>	<b>7115.55</b>	<b>0.376</b>	<b>0.185</b>	
1.56	1.56	7115.56	0.383	0.188	
1.57	1.57	7115.57	0.389	0.191	
1.58	1.58	7115.58	0.395	0.194	
1.59	1.59	7115.59	0.402	0.197	
<b>1.60</b>	<b>1.60</b>	<b>7115.60</b>	<b>0.408</b>	<b>0.200</b>	
1.61	1.61	7115.61	0.414	0.203	
1.62	1.62	7115.62	0.420	0.206	
1.63	1.63	7115.63	0.427	0.209	
1.64	1.64	7115.64	0.433	0.212	
<b>1.65</b>	<b>1.65</b>	<b>7115.65</b>	<b>0.439</b>	<b>0.215</b>	
1.66	1.66	7115.66	0.446	0.218	
1.67	1.67	7115.67	0.452	0.221	
1.68	1.68	7115.68	0.458	0.224	

1.69	1.69	7029.69	1.039	1.039	
<b>1.70</b>	<b>1.70</b>	<b>7029.70</b>	<b>1.046</b>	<b>1.046</b>	
1.71	1.71	7029.71	1.052	1.052	
1.72	1.72	7029.72	1.058	1.058	
1.73	1.73	7029.73	1.064	1.064	
1.74	1.74	7029.74	1.070	1.070	
<b>1.75</b>	<b>1.75</b>	<b>7029.75</b>	<b>1.076</b>	<b>1.076</b>	
1.76	1.76	7029.76	1.082	1.082	
1.77	1.77	7029.77	1.089	1.089	
1.78	1.78	7029.78	1.095	1.095	
1.79	1.79	7029.79	1.101	1.101	
<b>1.80</b>	<b>1.80</b>	<b>7029.80</b>	<b>1.107</b>	<b>1.107</b>	
1.81	1.81	7029.81	1.113	1.113	
1.82	1.82	7029.82	1.119	1.119	
1.83	1.83	7029.83	1.125	1.125	
1.84	1.84	7029.84	1.132	1.132	
<b>1.85</b>	<b>1.85</b>	<b>7029.85</b>	<b>1.138</b>	<b>1.138</b>	
1.86	1.86	7029.86	1.144	1.144	
1.87	1.87	7029.87	1.150	1.150	
1.88	1.88	7029.88	1.156	1.156	
1.89	1.89	7029.89	1.162	1.162	
<b>1.90</b>	<b>1.90</b>	<b>7029.90</b>	<b>1.169</b>	<b>1.169</b>	
1.91	1.91	7029.91	1.175	1.175	
1.92	1.92	7029.92	1.181	1.181	
1.93	1.93	7029.93	1.187	1.187	
1.94	1.94	7029.94	1.193	1.193	
<b>1.95</b>	<b>1.95</b>	<b>7029.95</b>	<b>1.199</b>	<b>1.199</b>	
1.96	1.96	7029.96	1.205	1.205	
1.97	1.97	7029.97	1.212	1.212	
1.98	1.98	7029.98	1.218	1.218	
1.99	1.99	7029.99	1.224	1.224	
<b>2.00</b>	<b>2.00</b>	<b>7030.00</b>	<b>1.230</b>	<b>1.230</b>	
2.01	2.01	7030.01	1.232	1.244	
2.02	2.02	7030.02	1.234	1.259	
2.03	2.03	7030.03	1.236	1.273	
2.04	2.04	7030.04	1.238	1.287	
<b>2.05</b>	<b>2.05</b>	<b>7030.05</b>	<b>1.240</b>	<b>1.302</b>	
2.06	2.06	7030.06	1.242	1.316	
2.07	2.07	7030.07	1.244	1.330	
2.08	2.08	7030.08	1.246	1.344	
2.09	2.09	7030.09	1.248	1.359	
<b>2.10</b>	<b>2.10</b>	<b>7030.10</b>	<b>1.250</b>	<b>1.373</b>	
2.11	2.11	7030.11	1.251	1.387	
2.12	2.12	7030.12	1.253	1.402	
2.13	2.13	7030.13	1.255	1.416	
2.14	2.14	7030.14	1.257	1.430	

1.69	1.69	7115.69	0.465	0.227	
<b>1.70</b>	<b>1.70</b>	<b>7115.70</b>	<b>0.471</b>	<b>0.230</b>	
1.71	1.71	7115.71	0.477	0.233	
1.72	1.72	7115.72	0.483	0.236	
1.73	1.73	7115.73	0.490	0.239	
1.74	1.74	7115.74	0.496	0.242	
<b>1.75</b>	<b>1.75</b>	<b>7115.75</b>	<b>0.502</b>	<b>0.245</b>	
1.76	1.76	7115.76	0.509	0.248	
1.77	1.77	7115.77	0.515	0.251	
1.78	1.78	7115.78	0.521	0.254	
1.79	1.79	7115.79	0.528	0.257	
<b>1.80</b>	<b>1.80</b>	<b>7115.80</b>	<b>0.534</b>	<b>0.260</b>	
1.81	1.81	7115.81	0.540	0.263	
1.82	1.82	7115.82	0.546	0.266	
1.83	1.83	7115.83	0.553	0.269	
1.84	1.84	7115.84	0.559	0.272	
<b>1.85</b>	<b>1.85</b>	<b>7115.85</b>	<b>0.565</b>	<b>0.275</b>	
1.86	1.86	7115.86	0.572	0.278	
1.87	1.87	7115.87	0.578	0.281	
1.88	1.88	7115.88	0.584	0.284	
1.89	1.89	7115.89	0.591	0.287	
<b>1.90</b>	<b>1.90</b>	<b>7115.90</b>	<b>0.597</b>	<b>0.290</b>	
1.91	1.91	7115.91	0.603	0.293	
1.92	1.92	7115.92	0.609	0.296	
1.93	1.93	7115.93	0.616	0.299	
1.94	1.94	7115.94	0.622	0.302	
<b>1.95</b>	<b>1.95</b>	<b>7115.95</b>	<b>0.628</b>	<b>0.305</b>	
1.96	1.96	7115.96	0.635	0.308	
1.97	1.97	7115.97	0.641	0.311	
1.98	1.98	7115.98	0.647	0.314	
1.99	1.99	7115.99	0.654	0.317	
<b>2.00</b>	<b>2.00</b>	<b>7116.00</b>	<b>0.662</b>	<b>0.360</b>	
2.01	2.01	7116.01	0.664	0.368	
2.02	2.02	7116.02	0.665	0.377	
2.03	2.03	7116.03	0.667	0.385	
2.04	2.04	7116.04	0.669	0.394	
<b>2.05</b>	<b>2.05</b>	<b>7116.05</b>	<b>0.671</b>	<b>0.402</b>	
2.06	2.06	7116.06	0.673	0.410	
2.07	2.07	7116.07	0.674	0.419	
2.08	2.08	7116.08	0.676	0.427	
2.09	2.09	7116.09	0.678	0.436	
<b>2.10</b>	<b>2.10</b>	<b>7116.10</b>	<b>0.680</b>	<b>0.444</b>	
2.11	2.11	7116.11	0.681	0.452	
2.12	2.12	7116.12	0.683	0.461	
2.13	2.13	7116.13	0.685	0.469	
2.14	2.14	7116.14	0.687	0.478	

<b>2.15</b>	<b>2.15</b>	<b>7030.15</b>	<b>1.259</b>	<b>1.445</b>	
2.16	2.16	7030.16	1.261	1.459	
2.17	2.17	7030.17	1.263	1.473	
2.18	2.18	7030.18	1.265	1.487	
2.19	2.19	7030.19	1.267	1.502	
<b>2.20</b>	<b>2.20</b>	<b>7030.20</b>	<b>1.269</b>	<b>1.516</b>	
2.21	2.21	7030.21	1.271	1.530	
2.22	2.22	7030.22	1.273	1.545	
2.23	2.23	7030.23	1.275	1.559	
2.24	2.24	7030.24	1.277	1.573	
<b>2.25</b>	<b>2.25</b>	<b>7030.25</b>	<b>1.279</b>	<b>1.588</b>	
2.26	2.26	7030.26	1.281	1.602	
2.27	2.27	7030.27	1.283	1.616	
2.28	2.28	7030.28	1.285	1.630	
2.29	2.29	7030.29	1.287	1.645	
<b>2.30</b>	<b>2.30</b>	<b>7030.30</b>	<b>1.289</b>	<b>1.659</b>	
2.31	2.31	7030.31	1.290	1.673	
2.32	2.32	7030.32	1.292	1.688	
2.33	2.33	7030.33	1.294	1.702	
2.34	2.34	7030.34	1.296	1.716	
<b>2.35</b>	<b>2.35</b>	<b>7030.35</b>	<b>1.298</b>	<b>1.731</b>	
2.36	2.36	7030.36	1.300	1.745	
2.37	2.37	7030.37	1.302	1.759	
2.38	2.38	7030.38	1.304	1.773	
2.39	2.39	7030.39	1.306	1.788	
<b>2.40</b>	<b>2.40</b>	<b>7030.40</b>	<b>1.308</b>	<b>1.802</b>	
2.41	2.41	7030.41	1.310	1.816	
2.42	2.42	7030.42	1.312	1.831	
2.43	2.43	7030.43	1.314	1.845	
2.44	2.44	7030.44	1.316	1.859	
<b>2.45</b>	<b>2.45</b>	<b>7030.45</b>	<b>1.318</b>	<b>1.874</b>	
2.46	2.46	7030.46	1.320	1.888	
2.47	2.47	7030.47	1.322	1.902	
2.48	2.48	7030.48	1.324	1.916	
2.49	2.49	7030.49	1.326	1.931	
<b>2.50</b>	<b>2.50</b>	<b>7030.50</b>	<b>1.327</b>	<b>1.945</b>	
2.51	2.51	7030.51	1.329	1.959	
2.52	2.52	7030.52	1.331	1.974	
2.53	2.53	7030.53	1.333	1.988	
2.54	2.54	7030.54	1.335	2.002	
<b>2.55</b>	<b>2.55</b>	<b>7030.55</b>	<b>1.337</b>	<b>2.017</b>	
2.56	2.56	7030.56	1.339	2.031	
2.57	2.57	7030.57	1.341	2.045	
2.58	2.58	7030.58	1.343	2.059	
2.59	2.59	7030.59	1.345	2.074	
<b>2.60</b>	<b>2.60</b>	<b>7030.60</b>	<b>1.347</b>	<b>2.088</b>	

<b>2.15</b>	<b>2.15</b>	<b>7116.15</b>	0.688	0.486	
2.16	2.16	7116.16	0.690	0.494	
2.17	2.17	7116.17	0.692	0.503	
2.18	2.18	7116.18	0.694	0.511	
2.19	2.19	7116.19	0.696	0.520	
<b>2.20</b>	<b>2.20</b>	<b>7116.20</b>	<b>0.697</b>	<b>0.528</b>	
2.21	2.21	7116.21	0.699	0.536	
2.22	2.22	7116.22	0.701	0.545	
2.23	2.23	7116.23	0.703	0.553	
2.24	2.24	7116.24	0.704	0.562	
<b>2.25</b>	<b>2.25</b>	<b>7116.25</b>	<b>0.706</b>	<b>0.570</b>	
2.26	2.26	7116.26	0.708	0.578	
2.27	2.27	7116.27	0.710	0.587	
2.28	2.28	7116.28	0.711	0.595	
2.29	2.29	7116.29	0.713	0.604	
<b>2.30</b>	<b>2.30</b>	<b>7116.30</b>	<b>0.715</b>	<b>0.612</b>	
2.31	2.31	7116.31	0.717	0.620	
2.32	2.32	7116.32	0.719	0.629	
2.33	2.33	7116.33	0.720	0.637	
2.34	2.34	7116.34	0.722	0.646	
<b>2.35</b>	<b>2.35</b>	<b>7116.35</b>	<b>0.724</b>	<b>0.654</b>	
2.36	2.36	7116.36	0.726	0.662	
2.37	2.37	7116.37	0.727	0.671	
2.38	2.38	7116.38	0.729	0.679	
2.39	2.39	7116.39	0.731	0.688	
<b>2.40</b>	<b>2.40</b>	<b>7116.40</b>	<b>0.733</b>	<b>0.696</b>	
2.41	2.41	7116.41	0.734	0.704	
2.42	2.42	7116.42	0.736	0.713	
2.43	2.43	7116.43	0.738	0.721	
2.44	2.44	7116.44	0.740	0.730	
<b>2.45</b>	<b>2.45</b>	<b>7116.45</b>	<b>0.742</b>	<b>0.738</b>	
2.46	2.46	7116.46	0.743	0.746	
2.47	2.47	7116.47	0.745	0.755	
2.48	2.48	7116.48	0.747	0.763	
2.49	2.49	7116.49	0.749	0.772	
<b>2.50</b>	<b>2.50</b>	<b>7116.50</b>	<b>0.750</b>	<b>0.780</b>	
2.51	2.51	7116.51	0.752	0.788	
2.52	2.52	7116.52	0.754	0.797	
2.53	2.53	7116.53	0.756	0.805	
2.54	2.54	7116.54	0.757	0.814	
<b>2.55</b>	<b>2.55</b>	<b>7116.55</b>	<b>0.759</b>	<b>0.822</b>	
2.56	2.56	7116.56	0.761	0.830	
2.57	2.57	7116.57	0.763	0.839	
2.58	2.58	7116.58	0.765	0.847	
2.59	2.59	7116.59	0.766	0.856	
<b>2.60</b>	<b>2.60</b>	<b>7116.60</b>	<b>0.768</b>	<b>0.864</b>	

2.61	2.61	7030.61	1.349	2.102	
2.62	2.62	7030.62	1.351	2.117	
2.63	2.63	7030.63	1.353	2.131	
2.64	2.64	7030.64	1.355	2.145	
<b>2.65</b>	<b>2.65</b>	<b>7030.65</b>	<b>1.357</b>	<b>2.160</b>	
2.66	2.66	7030.66	1.359	2.174	
2.67	2.67	7030.67	1.361	2.188	
2.68	2.68	7030.68	1.363	2.202	
2.69	2.69	7030.69	1.365	2.217	
<b>2.70</b>	<b>2.70</b>	<b>7030.70</b>	<b>1.366</b>	<b>2.231</b>	
2.71	2.71	7030.71	1.368	2.245	
2.72	2.72	7030.72	1.370	2.260	
2.73	2.73	7030.73	1.372	2.274	
2.74	2.74	7030.74	1.374	2.288	
<b>2.75</b>	<b>2.75</b>	<b>7030.75</b>	<b>1.376</b>	<b>2.303</b>	
2.76	2.76	7030.76	1.378	2.317	
2.77	2.77	7030.77	1.380	2.331	
2.78	2.78	7030.78	1.382	2.345	
2.79	2.79	7030.79	1.384	2.360	
<b>2.80</b>	<b>2.80</b>	<b>7030.80</b>	<b>1.386</b>	<b>2.374</b>	
2.81	2.81	7030.81	1.388	2.388	
2.82	2.82	7030.82	1.390	2.403	
2.83	2.83	7030.83	1.392	2.417	
2.84	2.84	7030.84	1.394	2.431	
<b>2.85</b>	<b>2.85</b>	<b>7030.85</b>	<b>1.396</b>	<b>2.446</b>	
2.86	2.86	7030.86	1.398	2.460	
2.87	2.87	7030.87	1.400	2.474	
2.88	2.88	7030.88	1.402	2.488	
2.89	2.89	7030.89	1.404	2.503	
<b>2.90</b>	<b>2.90</b>	<b>7030.90</b>	<b>1.405</b>	<b>2.517</b>	
2.91	2.91	7030.91	1.407	2.531	
2.92	2.92	7030.92	1.409	2.546	
2.93	2.93	7030.93	1.411	2.560	
2.94	2.94	7030.94	1.413	2.574	
<b>2.95</b>	<b>2.95</b>	<b>7030.95</b>	<b>1.415</b>	<b>2.589</b>	
2.96	2.96	7030.96	1.417	2.603	
2.97	2.97	7030.97	1.419	2.617	
2.98	2.98	7030.98	1.421	2.631	
2.99	2.99	7030.99	1.423	2.646	
<b>3.00</b>	<b>3.00</b>	<b>7031.00</b>	<b>1.425</b>	<b>2.660</b>	
3.01	3.01	7031.01	1.427	2.674	
3.02	3.02	7031.02	1.429	2.689	
3.03	3.03	7031.03	1.431	2.703	
3.04	3.04	7031.04	1.433	2.717	
<b>3.05</b>	<b>3.05</b>	<b>7031.05</b>	<b>1.435</b>	<b>2.732</b>	
3.06	3.06	7031.06	1.437	2.746	

2.61	2.61	7116.61	0.770	0.872	
2.62	2.62	7116.62	0.772	0.881	
2.63	2.63	7116.63	0.773	0.889	
2.64	2.64	7116.64	0.775	0.898	
<b>2.65</b>	<b>2.65</b>	<b>7116.65</b>	<b>0.777</b>	<b>0.906</b>	
2.66	2.66	7116.66	0.779	0.914	
2.67	2.67	7116.67	0.780	0.923	
2.68	2.68	7116.68	0.782	0.931	
2.69	2.69	7116.69	0.784	0.940	
<b>2.70</b>	<b>2.70</b>	<b>7116.70</b>	<b>0.786</b>	<b>0.948</b>	
2.71	2.71	7116.71	0.788	0.956	
2.72	2.72	7116.72	0.789	0.965	
2.73	2.73	7116.73	0.791	0.973	
2.74	2.74	7116.74	0.793	0.982	
<b>2.75</b>	<b>2.75</b>	<b>7116.75</b>	<b>0.795</b>	<b>0.990</b>	
2.76	2.76	7116.76	0.796	0.998	
2.77	2.77	7116.77	0.798	1.007	
2.78	2.78	7116.78	0.800	1.015	
2.79	2.79	7116.79	0.802	1.024	
<b>2.80</b>	<b>2.80</b>	<b>7116.80</b>	<b>0.803</b>	<b>1.032</b>	
2.81	2.81	7116.81	0.805	1.040	
2.82	2.82	7116.82	0.807	1.049	
2.83	2.83	7116.83	0.809	1.057	
2.84	2.84	7116.84	0.811	1.066	
<b>2.85</b>	<b>2.85</b>	<b>7116.85</b>	<b>0.812</b>	<b>1.074</b>	
2.86	2.86	7116.86	0.814	1.082	
2.87	2.87	7116.87	0.816	1.091	
2.88	2.88	7116.88	0.818	1.099	
2.89	2.89	7116.89	0.819	1.108	
<b>2.90</b>	<b>2.90</b>	<b>7116.90</b>	<b>0.821</b>	<b>1.116</b>	
2.91	2.91	7116.91	0.823	1.124	
2.92	2.92	7116.92	0.825	1.133	
2.93	2.93	7116.93	0.827	1.141	
2.94	2.94	7116.94	0.828	1.150	
<b>2.95</b>	<b>2.95</b>	<b>7116.95</b>	<b>0.830</b>	<b>1.158</b>	
2.96	2.96	7116.96	0.832	1.166	
2.97	2.97	7116.97	0.834	1.175	
2.98	2.98	7116.98	0.835	1.183	
2.99	2.99	7116.99	0.837	1.192	
<b>3.00</b>	<b>3.00</b>	<b>7117.00</b>	<b>0.839</b>	<b>1.200</b>	
3.01	3.01	7117.01	0.841	1.208	
3.02	3.02	7117.02	0.842	1.217	
3.03	3.03	7117.03	0.844	1.225	
3.04	3.04	7117.04	0.846	1.234	
<b>3.05</b>	<b>3.05</b>	<b>7117.05</b>	<b>0.848</b>	<b>1.242</b>	
3.06	3.06	7117.06	0.850	1.250	

3.07	3.07	7031.07	1.439	2.760	
3.08	3.08	7031.08	1.441	2.774	
3.09	3.09	7031.09	1.443	2.789	
<b>3.10</b>	<b>3.10</b>	<b>7031.10</b>	<b>1.444</b>	<b>2.803</b>	
3.11	3.11	7031.11	1.446	2.817	
3.12	3.12	7031.12	1.448	2.832	
3.13	3.13	7031.13	1.450	2.846	
3.14	3.14	7031.14	1.452	2.860	
<b>3.15</b>	<b>3.15</b>	<b>7031.15</b>	<b>1.454</b>	<b>2.875</b>	
3.16	3.16	7031.16	1.456	2.889	
3.17	3.17	7031.17	1.458	2.903	
3.18	3.18	7031.18	1.460	2.917	
3.19	3.19	7031.19	1.462	2.932	
<b>3.20</b>	<b>3.20</b>	<b>7031.20</b>	<b>1.464</b>	<b>2.946</b>	
3.21	3.21	7031.21	1.466	2.960	
3.22	3.22	7031.22	1.468	2.975	
3.23	3.23	7031.23	1.470	2.989	
3.24	3.24	7031.24	1.472	3.003	
<b>3.25</b>	<b>3.25</b>	<b>7031.25</b>	<b>1.474</b>	<b>3.018</b>	
3.26	3.26	7031.26	1.476	3.032	
3.27	3.27	7031.27	1.478	3.046	
3.28	3.28	7031.28	1.480	3.060	
3.29	3.29	7031.29	1.482	3.075	
<b>3.30</b>	<b>3.30</b>	<b>7031.30</b>	<b>1.483</b>	<b>3.089</b>	
3.31	3.31	7031.31	1.485	3.103	
3.32	3.32	7031.32	1.487	3.118	
3.33	3.33	7031.33	1.489	3.132	
3.34	3.34	7031.34	1.491	3.146	
<b>3.35</b>	<b>3.35</b>	<b>7031.35</b>	<b>1.493</b>	<b>3.161</b>	
3.36	3.36	7031.36	1.495	3.175	
3.37	3.37	7031.37	1.497	3.189	
3.38	3.38	7031.38	1.499	3.203	
3.39	3.39	7031.39	1.501	3.218	
<b>3.40</b>	<b>3.40</b>	<b>7031.40</b>	<b>1.503</b>	<b>3.232</b>	
3.41	3.41	7031.41	1.505	3.246	
3.42	3.42	7031.42	1.507	3.261	
3.43	3.43	7031.43	1.509	3.275	
3.44	3.44	7031.44	1.511	3.289	
<b>3.45</b>	<b>3.45</b>	<b>7031.45</b>	<b>1.513</b>	<b>3.304</b>	
3.46	3.46	7031.46	1.515	3.318	
3.47	3.47	7031.47	1.517	3.332	
3.48	3.48	7031.48	1.519	3.346	
3.49	3.49	7031.49	1.521	3.361	
<b>3.50</b>	<b>3.50</b>	<b>7031.50</b>	<b>1.522</b>	<b>3.375</b>	
3.51	3.51	7031.51	1.524	3.389	
3.52	3.52	7031.52	1.526	3.404	

3.07	3.07	7117.07	0.851	1.259	
3.08	3.08	7117.08	0.853	1.267	
3.09	3.09	7117.09	0.855	1.276	
<b>3.10</b>	<b>3.10</b>	<b>7117.10</b>	<b>0.857</b>	<b>1.284</b>	
3.11	3.11	7117.11	0.858	1.292	
3.12	3.12	7117.12	0.860	1.301	
3.13	3.13	7117.13	0.862	1.309	
3.14	3.14	7117.14	0.864	1.318	
<b>3.15</b>	<b>3.15</b>	<b>7117.15</b>	<b>0.865</b>	<b>1.326</b>	
3.16	3.16	7117.16	0.867	1.334	
3.17	3.17	7117.17	0.869	1.343	
3.18	3.18	7117.18	0.871	1.351	
3.19	3.19	7117.19	0.873	1.360	
<b>3.20</b>	<b>3.20</b>	<b>7117.20</b>	<b>0.874</b>	<b>1.368</b>	
3.21	3.21	7117.21	0.876	1.376	
3.22	3.22	7117.22	0.878	1.385	
3.23	3.23	7117.23	0.880	1.393	
3.24	3.24	7117.24	0.881	1.402	
<b>3.25</b>	<b>3.25</b>	<b>7117.25</b>	<b>0.883</b>	<b>1.410</b>	
3.26	3.26	7117.26	0.885	1.418	
3.27	3.27	7117.27	0.887	1.427	
3.28	3.28	7117.28	0.888	1.435	
3.29	3.29	7117.29	0.890	1.444	
<b>3.30</b>	<b>3.30</b>	<b>7117.30</b>	<b>0.892</b>	<b>1.452</b>	
3.31	3.31	7117.31	0.894	1.460	
3.32	3.32	7117.32	0.896	1.469	
3.33	3.33	7117.33	0.897	1.477	
3.34	3.34	7117.34	0.899	1.486	
<b>3.35</b>	<b>3.35</b>	<b>7117.35</b>	<b>0.901</b>	<b>1.494</b>	
3.36	3.36	7117.36	0.903	1.502	
3.37	3.37	7117.37	0.904	1.511	
3.38	3.38	7117.38	0.906	1.519	
3.39	3.39	7117.39	0.908	1.528	
<b>3.40</b>	<b>3.40</b>	<b>7117.40</b>	<b>0.910</b>	<b>1.536</b>	
3.41	3.41	7117.41	0.911	1.544	
3.42	3.42	7117.42	0.913	1.553	
3.43	3.43	7117.43	0.915	1.561	
3.44	3.44	7117.44	0.917	1.570	
<b>3.45</b>	<b>3.45</b>	<b>7117.45</b>	<b>0.919</b>	<b>1.578</b>	
3.46	3.46	7117.46	0.920	1.586	
3.47	3.47	7117.47	0.922	1.595	
3.48	3.48	7117.48	0.924	1.603	
3.49	3.49	7117.49	0.926	1.612	
<b>3.50</b>	<b>3.50</b>	<b>7117.50</b>	<b>0.927</b>	<b>1.620</b>	
3.51	3.51	7117.51	0.929	1.628	
3.52	3.52	7117.52	0.931	1.637	

3.53	3.53	7031.53	1.528	3.418	
3.54	3.54	7031.54	1.530	3.432	
<b>3.55</b>	<b>3.55</b>	<b>7031.55</b>	<b>1.532</b>	<b>3.447</b>	
3.56	3.56	7031.56	1.534	3.461	
3.57	3.57	7031.57	1.536	3.475	
3.58	3.58	7031.58	1.538	3.489	
3.59	3.59	7031.59	1.540	3.504	
<b>3.60</b>	<b>3.60</b>	<b>7031.60</b>	<b>1.542</b>	<b>3.518</b>	
3.61	3.61	7031.61	1.544	3.532	
3.62	3.62	7031.62	1.546	3.547	
3.63	3.63	7031.63	1.548	3.561	
3.64	3.64	7031.64	1.550	3.575	
<b>3.65</b>	<b>3.65</b>	<b>7031.65</b>	<b>1.552</b>	<b>3.590</b>	
3.66	3.66	7031.66	1.554	3.604	
3.67	3.67	7031.67	1.556	3.618	
3.68	3.68	7031.68	1.558	3.632	
3.69	3.69	7031.69	1.560	3.647	
<b>3.70</b>	<b>3.70</b>	<b>7031.70</b>	<b>1.561</b>	<b>3.661</b>	
3.71	3.71	7031.71	1.563	3.675	
3.72	3.72	7031.72	1.565	3.690	
3.73	3.73	7031.73	1.567	3.704	
3.74	3.74	7031.74	1.569	3.718	
<b>3.75</b>	<b>3.75</b>	<b>7031.75</b>	<b>1.571</b>	<b>3.733</b>	
3.76	3.76	7031.76	1.573	3.747	
3.77	3.77	7031.77	1.575	3.761	
3.78	3.78	7031.78	1.577	3.775	
3.79	3.79	7031.79	1.579	3.790	
<b>3.80</b>	<b>3.80</b>	<b>7031.80</b>	<b>1.581</b>	<b>3.804</b>	
3.81	3.81	7031.81	1.583	3.818	
3.82	3.82	7031.82	1.585	3.833	
3.83	3.83	7031.83	1.587	3.847	
3.84	3.84	7031.84	1.589	3.861	
<b>3.85</b>	<b>3.85</b>	<b>7031.85</b>	<b>1.591</b>	<b>3.876</b>	
3.86	3.86	7031.86	1.593	3.890	
3.87	3.87	7031.87	1.595	3.904	
3.88	3.88	7031.88	1.597	3.918	
3.89	3.89	7031.89	1.599	3.933	
<b>3.90</b>	<b>3.90</b>	<b>7031.90</b>	<b>1.600</b>	<b>3.947</b>	
3.91	3.91	7031.91	1.602	3.961	
3.92	3.92	7031.92	1.604	3.976	
3.93	3.93	7031.93	1.606	3.990	
3.94	3.94	7031.94	1.608	4.004	
<b>3.95</b>	<b>3.95</b>	<b>7031.95</b>	<b>1.610</b>	<b>4.019</b>	
3.96	3.96	7031.96	1.612	4.033	
3.97	3.97	7031.97	1.614	4.047	
3.98	3.98	7031.98	1.616	4.061	

3.53	3.53	7117.53	0.933	1.645	
3.54	3.54	7117.54	0.934	1.654	
<b>3.55</b>	<b>3.55</b>	<b>7117.55</b>	<b>0.936</b>	<b>1.662</b>	
3.56	3.56	7117.56	0.938	1.670	
3.57	3.57	7117.57	0.940	1.679	
3.58	3.58	7117.58	0.942	1.687	
3.59	3.59	7117.59	0.943	1.696	
<b>3.60</b>	<b>3.60</b>	<b>7117.60</b>	<b>0.945</b>	<b>1.704</b>	
3.61	3.61	7117.61	0.947	1.712	
3.62	3.62	7117.62	0.949	1.721	
3.63	3.63	7117.63	0.950	1.729	
3.64	3.64	7117.64	0.952	1.738	
<b>3.65</b>	<b>3.65</b>	<b>7117.65</b>	<b>0.954</b>	<b>1.746</b>	
3.66	3.66	7117.66	0.956	1.754	
3.67	3.67	7117.67	0.957	1.763	
3.68	3.68	7117.68	0.959	1.771	
3.69	3.69	7117.69	0.961	1.780	
<b>3.70</b>	<b>3.70</b>	<b>7117.70</b>	<b>0.963</b>	<b>1.788</b>	
3.71	3.71	7117.71	0.965	1.796	
3.72	3.72	7117.72	0.966	1.805	
3.73	3.73	7117.73	0.968	1.813	
3.74	3.74	7117.74	0.970	1.822	
<b>3.75</b>	<b>3.75</b>	<b>7117.75</b>	<b>0.972</b>	<b>1.830</b>	
3.76	3.76	7117.76	0.973	1.838	
3.77	3.77	7117.77	0.975	1.847	
3.78	3.78	7117.78	0.977	1.855	
3.79	3.79	7117.79	0.979	1.864	
<b>3.80</b>	<b>3.80</b>	<b>7117.80</b>	<b>0.980</b>	<b>1.872</b>	
3.81	3.81	7117.81	0.982	1.880	
3.82	3.82	7117.82	0.984	1.889	
3.83	3.83	7117.83	0.986	1.897	
3.84	3.84	7117.84	0.988	1.906	
<b>3.85</b>	<b>3.85</b>	<b>7117.85</b>	<b>0.989</b>	<b>1.914</b>	
3.86	3.86	7117.86	0.991	1.922	
3.87	3.87	7117.87	0.993	1.931	
3.88	3.88	7117.88	0.995	1.939	
3.89	3.89	7117.89	0.996	1.948	
<b>3.90</b>	<b>3.90</b>	<b>7117.90</b>	<b>0.998</b>	<b>1.956</b>	
3.91	3.91	7117.91	1.000	1.964	
3.92	3.92	7117.92	1.002	1.973	
3.93	3.93	7117.93	1.004	1.981	
3.94	3.94	7117.94	1.005	1.990	
<b>3.95</b>	<b>3.95</b>	<b>7117.95</b>	<b>1.007</b>	<b>1.998</b>	
3.96	3.96	7117.96	1.009	2.006	
3.97	3.97	7117.97	1.011	2.015	
3.98	3.98	7117.98	1.012	2.023	

3.99	3.99	7031.99	1.618	4.076	
<b>4.00</b>	<b>4.00</b>	<b>7032.00</b>	<b>1.620</b>	<b>4.090</b>	
4.01	4.01	7032.01	1.622	4.108	
4.02	4.02	7032.02	1.624	4.126	
4.03	4.03	7032.03	1.626	4.144	
4.04	4.04	7032.04	1.628	4.163	
<b>4.05</b>	<b>4.05</b>	<b>7032.05</b>	<b>1.630</b>	<b>4.181</b>	
4.06	4.06	7032.06	1.632	4.199	
4.07	4.07	7032.07	1.634	4.217	
4.08	4.08	7032.08	1.636	4.235	
4.09	4.09	7032.09	1.638	4.253	
<b>4.10</b>	<b>4.10</b>	<b>7032.10</b>	<b>1.640</b>	<b>4.272</b>	
4.11	4.11	7032.11	1.641	4.290	
4.12	4.12	7032.12	1.643	4.308	
4.13	4.13	7032.13	1.645	4.326	
4.14	4.14	7032.14	1.647	4.344	
<b>4.15</b>	<b>4.15</b>	<b>7032.15</b>	<b>1.649</b>	<b>4.362</b>	
4.16	4.16	7032.16	1.651	4.380	
4.17	4.17	7032.17	1.653	4.399	
4.18	4.18	7032.18	1.655	4.417	
4.19	4.19	7032.19	1.657	4.435	
<b>4.20</b>	<b>4.20</b>	<b>7032.20</b>	<b>1.659</b>	<b>4.453</b>	
4.21	4.21	7032.21	1.661	4.471	
4.22	4.22	7032.22	1.663	4.489	
4.23	4.23	7032.23	1.665	4.507	
4.24	4.24	7032.24	1.667	4.526	
<b>4.25</b>	<b>4.25</b>	<b>7032.25</b>	<b>1.669</b>	<b>4.544</b>	
4.26	4.26	7032.26	1.671	4.562	
4.27	4.27	7032.27	1.673	4.580	
4.28	4.28	7032.28	1.675	4.598	
4.29	4.29	7032.29	1.677	4.616	
<b>4.30</b>	<b>4.30</b>	<b>7032.30</b>	<b>1.679</b>	<b>4.635</b>	
4.31	4.31	7032.31	1.680	4.653	
4.32	4.32	7032.32	1.682	4.671	
4.33	4.33	7032.33	1.684	4.689	
4.34	4.34	7032.34	1.686	4.707	
<b>4.35</b>	<b>4.35</b>	<b>7032.35</b>	<b>1.688</b>	<b>4.725</b>	
4.36	4.36	7032.36	1.690	4.743	
4.37	4.37	7032.37	1.692	4.762	
4.38	4.38	7032.38	1.694	4.780	
4.39	4.39	7032.39	1.696	4.798	
<b>4.40</b>	<b>4.40</b>	<b>7032.40</b>	<b>1.698</b>	<b>4.816</b>	
4.41	4.41	7032.41	1.700	4.834	
4.42	4.42	7032.42	1.702	4.852	
4.43	4.43	7032.43	1.704	4.870	
4.44	4.44	7032.44	1.706	4.889	

3.99	3.99	7117.99	1.014	2.032	
<b>4.00</b>	<b>4.00</b>	<b>7118.00</b>	<b>1.016</b>	<b>2.040</b>	
4.01	4.01	7118.01	1.017	2.051	
4.02	4.02	7118.02	1.018	2.063	
4.03	4.03	7118.03	1.019	2.074	
4.04	4.04	7118.04	1.020	2.085	
<b>4.05</b>	<b>4.05</b>	<b>7118.05</b>	<b>1.021</b>	<b>2.096</b>	
4.06	4.06	7118.06	1.022	2.108	
4.07	4.07	7118.07	1.023	2.119	
4.08	4.08	7118.08	1.024	2.130	
4.09	4.09	7118.09	1.025	2.141	
<b>4.10</b>	<b>4.10</b>	<b>7118.10</b>	<b>1.026</b>	<b>2.153</b>	
4.11	4.11	7118.11	1.027	2.164	
4.12	4.12	7118.12	1.029	2.175	
4.13	4.13	7118.13	1.030	2.186	
4.14	4.14	7118.14	1.031	2.198	
<b>4.15</b>	<b>4.15</b>	<b>7118.15</b>	<b>1.032</b>	<b>2.209</b>	
4.16	4.16	7118.16	1.033	2.220	
4.17	4.17	7118.17	1.034	2.231	
4.18	4.18	7118.18	1.035	2.243	
4.19	4.19	7118.19	1.036	2.254	
<b>4.20</b>	<b>4.20</b>	<b>7118.20</b>	<b>1.037</b>	<b>2.265</b>	
4.21	4.21	7118.21	1.038	2.276	
4.22	4.22	7118.22	1.039	2.288	
4.23	4.23	7118.23	1.041	2.299	
4.24	4.24	7118.24	1.042	2.310	
<b>4.25</b>	<b>4.25</b>	<b>7118.25</b>	<b>1.043</b>	<b>2.321</b>	
4.26	4.26	7118.26	1.044	2.333	
4.27	4.27	7118.27	1.045	2.344	
4.28	4.28	7118.28	1.046	2.355	
4.29	4.29	7118.29	1.047	2.366	
<b>4.30</b>	<b>4.30</b>	<b>7118.30</b>	<b>1.048</b>	<b>2.378</b>	
4.31	4.31	7118.31	1.049	2.389	
4.32	4.32	7118.32	1.050	2.400	
4.33	4.33	7118.33	1.051	2.411	
4.34	4.34	7118.34	1.053	2.423	
<b>4.35</b>	<b>4.35</b>	<b>7118.35</b>	<b>1.054</b>	<b>2.434</b>	
4.36	4.36	7118.36	1.055	2.445	
4.37	4.37	7118.37	1.056	2.456	
4.38	4.38	7118.38	1.057	2.468	
4.39	4.39	7118.39	1.058	2.479	
<b>4.40</b>	<b>4.40</b>	<b>7118.40</b>	<b>1.059</b>	<b>2.490</b>	
4.41	4.41	7118.41	1.060	2.501	
4.42	4.42	7118.42	1.061	2.513	
4.43	4.43	7118.43	1.062	2.524	
4.44	4.44	7118.44	1.063	2.535	

<b>4.45</b>	<b>4.45</b>	<b>7032.45</b>	<b>1.708</b>	<b>4.907</b>	
4.46	4.46	7032.46	1.710	4.925	
4.47	4.47	7032.47	1.712	4.943	
4.48	4.48	7032.48	1.714	4.961	
4.49	4.49	7032.49	1.716	4.979	
<b>4.50</b>	<b>4.50</b>	<b>7032.50</b>	<b>1.717</b>	<b>4.998</b>	
4.51	4.51	7032.51	1.719	5.016	
4.52	4.52	7032.52	1.721	5.034	
4.53	4.53	7032.53	1.723	5.052	
4.54	4.54	7032.54	1.725	5.070	
<b>4.55</b>	<b>4.55</b>	<b>7032.55</b>	<b>1.727</b>	<b>5.088</b>	
4.56	4.56	7032.56	1.729	5.106	
4.57	4.57	7032.57	1.731	5.125	
4.58	4.58	7032.58	1.733	5.143	
4.59	4.59	7032.59	1.735	5.161	
<b>4.60</b>	<b>4.60</b>	<b>7032.60</b>	<b>1.737</b>	<b>5.179</b>	
4.61	4.61	7032.61	1.739	5.197	
4.62	4.62	7032.62	1.741	5.215	
4.63	4.63	7032.63	1.743	5.233	
4.64	4.64	7032.64	1.745	5.252	
<b>4.65</b>	<b>4.65</b>	<b>7032.65</b>	<b>1.747</b>	<b>5.270</b>	
4.66	4.66	7032.66	1.749	5.288	
4.67	4.67	7032.67	1.751	5.306	
4.68	4.68	7032.68	1.753	5.324	
4.69	4.69	7032.69	1.755	5.342	
<b>4.70</b>	<b>4.70</b>	<b>7032.70</b>	<b>1.756</b>	<b>5.361</b>	
4.71	4.71	7032.71	1.758	5.379	
4.72	4.72	7032.72	1.760	5.397	
4.73	4.73	7032.73	1.762	5.415	
4.74	4.74	7032.74	1.764	5.433	
<b>4.75</b>	<b>4.75</b>	<b>7032.75</b>	<b>1.766</b>	<b>5.451</b>	
4.76	4.76	7032.76	1.768	5.469	
4.77	4.77	7032.77	1.770	5.488	
4.78	4.78	7032.78	1.772	5.506	
4.79	4.79	7032.79	1.774	5.524	
<b>4.80</b>	<b>4.80</b>	<b>7032.80</b>	<b>1.776</b>	<b>5.542</b>	
4.81	4.81	7032.81	1.778	5.560	
4.82	4.82	7032.82	1.780	5.578	
4.83	4.83	7032.83	1.782	5.596	
4.84	4.84	7032.84	1.784	5.615	
<b>4.85</b>	<b>4.85</b>	<b>7032.85</b>	<b>1.786</b>	<b>5.633</b>	
4.86	4.86	7032.86	1.788	5.651	
4.87	4.87	7032.87	1.790	5.669	
4.88	4.88	7032.88	1.792	5.687	
4.89	4.89	7032.89	1.794	5.705	
<b>4.90</b>	<b>4.90</b>	<b>7032.90</b>	<b>1.795</b>	<b>5.724</b>	

<b>4.45</b>	<b>4.45</b>	<b>7118.45</b>	<b>1.065</b>	<b>2.546</b>	
4.46	4.46	7118.46	1.066	2.558	
4.47	4.47	7118.47	1.067	2.569	
4.48	4.48	7118.48	1.068	2.580	
4.49	4.49	7118.49	1.069	2.591	
<b>4.50</b>	<b>4.50</b>	<b>7118.50</b>	<b>1.070</b>	<b>2.603</b>	
4.51	4.51	7118.51	1.071	2.614	
4.52	4.52	7118.52	1.072	2.625	
4.53	4.53	7118.53	1.073	2.636	
4.54	4.54	7118.54	1.074	2.648	
<b>4.55</b>	<b>4.55</b>	<b>7118.55</b>	<b>1.075</b>	<b>2.659</b>	
4.56	4.56	7118.56	1.077	2.670	
4.57	4.57	7118.57	1.078	2.681	
4.58	4.58	7118.58	1.079	2.693	
4.59	4.59	7118.59	1.080	2.704	
<b>4.60</b>	<b>4.60</b>	<b>7118.60</b>	<b>1.081</b>	<b>2.715</b>	
4.61	4.61	7118.61	1.082	2.726	
4.62	4.62	7118.62	1.083	2.738	
4.63	4.63	7118.63	1.084	2.749	
4.64	4.64	7118.64	1.085	2.760	
<b>4.65</b>	<b>4.65</b>	<b>7118.65</b>	<b>1.086</b>	<b>2.771</b>	
4.66	4.66	7118.66	1.087	2.783	
4.67	4.67	7118.67	1.089	2.794	
4.68	4.68	7118.68	1.090	2.805	
4.69	4.69	7118.69	1.091	2.816	
<b>4.70</b>	<b>4.70</b>	<b>7118.70</b>	<b>1.092</b>	<b>2.828</b>	
4.71	4.71	7118.71	1.093	2.839	
4.72	4.72	7118.72	1.094	2.850	
4.73	4.73	7118.73	1.095	2.861	
4.74	4.74	7118.74	1.096	2.873	
<b>4.75</b>	<b>4.75</b>	<b>7118.75</b>	<b>1.097</b>	<b>2.884</b>	
4.76	4.76	7118.76	1.098	2.895	
4.77	4.77	7118.77	1.099	2.906	
4.78	4.78	7118.78	1.101	2.918	
4.79	4.79	7118.79	1.102	2.929	
<b>4.80</b>	<b>4.80</b>	<b>7118.80</b>	<b>1.103</b>	<b>2.940</b>	
4.81	4.81	7118.81	1.104	2.951	
4.82	4.82	7118.82	1.105	2.963	
4.83	4.83	7118.83	1.106	2.974	
4.84	4.84	7118.84	1.107	2.985	
<b>4.85</b>	<b>4.85</b>	<b>7118.85</b>	<b>1.108</b>	<b>2.996</b>	
4.86	4.86	7118.86	1.109	3.008	
4.87	4.87	7118.87	1.110	3.019	
4.88	4.88	7118.88	1.111	3.030	
4.89	4.89	7118.89	1.113	3.041	
<b>4.90</b>	<b>4.90</b>	<b>7118.90</b>	<b>1.114</b>	<b>3.053</b>	

4.91	4.91	7032.91	1.797	5.742	
4.92	4.92	7032.92	1.799	5.760	
4.93	4.93	7032.93	1.801	5.778	
4.94	4.94	7032.94	1.803	5.796	
<b>4.95</b>	<b>4.95</b>	<b>7032.95</b>	<b>1.805</b>	<b>5.814</b>	
4.96	4.96	7032.96	1.807	5.832	
4.97	4.97	7032.97	1.809	5.851	
4.98	4.98	7032.98	1.811	5.869	
4.99	4.99	7032.99	1.813	5.887	
<b>5.00</b>	<b>5.00</b>	<b>7033.00</b>	<b>1.815</b>	<b>5.905</b>	
5.01	5.01	7033.01	1.817	5.923	
5.02	5.02	7033.02	1.819	5.941	
5.03	5.03	7033.03	1.821	5.959	
5.04	5.04	7033.04	1.823	5.978	
<b>5.05</b>	<b>5.05</b>	<b>7033.05</b>	<b>1.825</b>	<b>5.996</b>	
5.06	5.06	7033.06	1.827	6.014	
5.07	5.07	7033.07	1.829	6.032	
5.08	5.08	7033.08	1.831	6.050	
5.09	5.09	7033.09	1.833	6.068	
<b>5.10</b>	<b>5.10</b>	<b>7033.10</b>	<b>1.834</b>	<b>6.087</b>	
5.11	5.11	7033.11	1.836	6.105	
5.12	5.12	7033.12	1.838	6.123	
5.13	5.13	7033.13	1.840	6.141	
5.14	5.14	7033.14	1.842	6.159	
<b>5.15</b>	<b>5.15</b>	<b>7033.15</b>	<b>1.844</b>	<b>6.177</b>	
5.16	5.16	7033.16	1.846	6.195	
5.17	5.17	7033.17	1.848	6.214	
5.18	5.18	7033.18	1.850	6.232	
5.19	5.19	7033.19	1.852	6.250	
<b>5.20</b>	<b>5.20</b>	<b>7033.20</b>	<b>1.854</b>	<b>6.268</b>	
5.21	5.21	7033.21	1.856	6.286	
5.22	5.22	7033.22	1.858	6.304	
5.23	5.23	7033.23	1.860	6.322	
5.24	5.24	7033.24	1.862	6.341	
<b>5.25</b>	<b>5.25</b>	<b>7033.25</b>	<b>1.864</b>	<b>6.359</b>	
5.26	5.26	7033.26	1.866	6.377	
5.27	5.27	7033.27	1.868	6.395	
5.28	5.28	7033.28	1.870	6.413	
5.29	5.29	7033.29	1.872	6.431	
<b>5.30</b>	<b>5.30</b>	<b>7033.30</b>	<b>1.873</b>	<b>6.450</b>	
5.31	5.31	7033.31	1.875	6.468	
5.32	5.32	7033.32	1.877	6.486	
5.33	5.33	7033.33	1.879	6.504	
5.34	5.34	7033.34	1.881	6.522	
<b>5.35</b>	<b>5.35</b>	<b>7033.35</b>	<b>1.883</b>	<b>6.540</b>	
5.36	5.36	7033.36	1.885	6.558	

4.91	4.91	7118.91	1.115	3.064	
4.92	4.92	7118.92	1.116	3.075	
4.93	4.93	7118.93	1.117	3.086	
4.94	4.94	7118.94	1.118	3.098	
<b>4.95</b>	<b>4.95</b>	<b>7118.95</b>	<b>1.119</b>	<b>3.109</b>	
4.96	4.96	7118.96	1.120	3.120	
4.97	4.97	7118.97	1.121	3.131	
4.98	4.98	7118.98	1.122	3.143	
4.99	4.99	7118.99	1.123	3.154	
<b>5.00</b>	<b>5.00</b>	<b>7119.00</b>	<b>1.125</b>	<b>3.165</b>	
5.01	5.01	7119.01	1.126	3.176	
5.02	5.02	7119.02	1.127	3.188	
5.03	5.03	7119.03	1.128	3.199	
5.04	5.04	7119.04	1.129	3.210	
<b>5.05</b>	<b>5.05</b>	<b>7119.05</b>	<b>1.130</b>	<b>3.221</b>	
5.06	5.06	7119.06	1.131	3.233	
5.07	5.07	7119.07	1.132	3.244	
5.08	5.08	7119.08	1.133	3.255	
5.09	5.09	7119.09	1.134	3.266	
<b>5.10</b>	<b>5.10</b>	<b>7119.10</b>	<b>1.135</b>	<b>3.278</b>	
5.11	5.11	7119.11	1.136	3.289	
5.12	5.12	7119.12	1.138	3.300	
5.13	5.13	7119.13	1.139	3.311	
5.14	5.14	7119.14	1.140	3.323	
<b>5.15</b>	<b>5.15</b>	<b>7119.15</b>	<b>1.141</b>	<b>3.334</b>	
5.16	5.16	7119.16	1.142	3.345	
5.17	5.17	7119.17	1.143	3.356	
5.18	5.18	7119.18	1.144	3.368	
5.19	5.19	7119.19	1.145	3.379	
<b>5.20</b>	<b>5.20</b>	<b>7119.20</b>	<b>1.146</b>	<b>3.390</b>	
5.21	5.21	7119.21	1.147	3.401	
5.22	5.22	7119.22	1.148	3.413	
5.23	5.23	7119.23	1.150	3.424	
5.24	5.24	7119.24	1.151	3.435	
<b>5.25</b>	<b>5.25</b>	<b>7119.25</b>	<b>1.152</b>	<b>3.446</b>	
5.26	5.26	7119.26	1.153	3.458	
5.27	5.27	7119.27	1.154	3.469	
5.28	5.28	7119.28	1.155	3.480	
5.29	5.29	7119.29	1.156	3.491	
<b>5.30</b>	<b>5.30</b>	<b>7119.30</b>	<b>1.157</b>	<b>3.503</b>	
5.31	5.31	7119.31	1.158	3.514	
5.32	5.32	7119.32	1.159	3.525	
5.33	5.33	7119.33	1.160	3.536	
5.34	5.34	7119.34	1.162	3.548	
<b>5.35</b>	<b>5.35</b>	<b>7119.35</b>	<b>1.163</b>	<b>3.559</b>	
5.36	5.36	7119.36	1.164	3.570	

5.37	5.37	7033.37	1.887	6.577	
5.38	5.38	7033.38	1.889	6.595	
5.39	5.39	7033.39	1.891	6.613	
<b>5.40</b>	<b>5.40</b>	<b>7033.40</b>	<b>1.893</b>	<b>6.631</b>	
5.41	5.41	7033.41	1.895	6.649	
5.42	5.42	7033.42	1.897	6.667	
5.43	5.43	7033.43	1.899	6.685	
5.44	5.44	7033.44	1.901	6.704	
<b>5.45</b>	<b>5.45</b>	<b>7033.45</b>	<b>1.903</b>	<b>6.722</b>	
5.46	5.46	7033.46	1.905	6.740	
5.47	5.47	7033.47	1.907	6.758	
5.48	5.48	7033.48	1.909	6.776	
5.49	5.49	7033.49	1.911	6.794	
<b>5.50</b>	<b>5.50</b>	<b>7033.50</b>	<b>1.912</b>	<b>6.813</b>	
5.51	5.51	7033.51	1.914	6.831	
5.52	5.52	7033.52	1.916	6.849	
5.53	5.53	7033.53	1.918	6.867	
5.54	5.54	7033.54	1.920	6.885	
<b>5.55</b>	<b>5.55</b>	<b>7033.55</b>	<b>1.922</b>	<b>6.903</b>	
5.56	5.56	7033.56	1.924	6.921	
5.57	5.57	7033.57	1.926	6.940	
5.58	5.58	7033.58	1.928	6.958	
5.59	5.59	7033.59	1.930	6.976	
<b>5.60</b>	<b>5.60</b>	<b>7033.60</b>	<b>1.932</b>	<b>6.994</b>	
5.61	5.61	7033.61	1.934	7.012	
5.62	5.62	7033.62	1.936	7.030	
5.63	5.63	7033.63	1.938	7.048	
5.64	5.64	7033.64	1.940	7.067	
<b>5.65</b>	<b>5.65</b>	<b>7033.65</b>	<b>1.942</b>	<b>7.085</b>	
5.66	5.66	7033.66	1.944	7.103	
5.67	5.67	7033.67	1.946	7.121	
5.68	5.68	7033.68	1.948	7.139	
5.69	5.69	7033.69	1.950	7.157	
<b>5.70</b>	<b>5.70</b>	<b>7033.70</b>	<b>1.951</b>	<b>7.176</b>	
5.71	5.71	7033.71	1.953	7.194	
5.72	5.72	7033.72	1.955	7.212	
5.73	5.73	7033.73	1.957	7.230	
5.74	5.74	7033.74	1.959	7.248	
<b>5.75</b>	<b>5.75</b>	<b>7033.75</b>	<b>1.961</b>	<b>7.266</b>	
5.76	5.76	7033.76	1.963	7.284	
5.77	5.77	7033.77	1.965	7.303	
5.78	5.78	7033.78	1.967	7.321	
5.79	5.79	7033.79	1.969	7.339	
<b>5.80</b>	<b>5.80</b>	<b>7033.80</b>	<b>1.971</b>	<b>7.357</b>	
5.81	5.81	7033.81	1.973	7.375	
5.82	5.82	7033.82	1.975	7.393	

5.37	5.37	7119.37	1.165	3.581	
5.38	5.38	7119.38	1.166	3.593	
5.39	5.39	7119.39	1.167	3.604	
<b>5.40</b>	<b>5.40</b>	<b>7119.40</b>	<b>1.168</b>	<b>3.615</b>	
5.41	5.41	7119.41	1.169	3.626	
5.42	5.42	7119.42	1.170	3.638	
5.43	5.43	7119.43	1.171	3.649	
5.44	5.44	7119.44	1.172	3.660	
<b>5.45</b>	<b>5.45</b>	<b>7119.45</b>	<b>1.174</b>	<b>3.671</b>	
5.46	5.46	7119.46	1.175	3.683	
5.47	5.47	7119.47	1.176	3.694	
5.48	5.48	7119.48	1.177	3.705	
5.49	5.49	7119.49	1.178	3.716	
<b>5.50</b>	<b>5.50</b>	<b>7119.50</b>	<b>1.179</b>	<b>3.728</b>	
5.51	5.51	7119.51	1.180	3.739	
5.52	5.52	7119.52	1.181	3.750	
5.53	5.53	7119.53	1.182	3.761	
5.54	5.54	7119.54	1.183	3.773	
<b>5.55</b>	<b>5.55</b>	<b>7119.55</b>	<b>1.184</b>	<b>3.784</b>	
5.56	5.56	7119.56	1.186	3.795	
5.57	5.57	7119.57	1.187	3.806	
5.58	5.58	7119.58	1.188	3.818	
5.59	5.59	7119.59	1.189	3.829	
<b>5.60</b>	<b>5.60</b>	<b>7119.60</b>	<b>1.190</b>	<b>3.840</b>	
5.61	5.61	7119.61	1.191	3.851	
5.62	5.62	7119.62	1.192	3.863	
5.63	5.63	7119.63	1.193	3.874	
5.64	5.64	7119.64	1.194	3.885	
<b>5.65</b>	<b>5.65</b>	<b>7119.65</b>	<b>1.195</b>	<b>3.896</b>	
5.66	5.66	7119.66	1.196	3.908	
5.67	5.67	7119.67	1.198	3.919	
5.68	5.68	7119.68	1.199	3.930	
5.69	5.69	7119.69	1.200	3.941	
<b>5.70</b>	<b>5.70</b>	<b>7119.70</b>	<b>1.201</b>	<b>3.953</b>	
5.71	5.71	7119.71	1.202	3.964	
5.72	5.72	7119.72	1.203	3.975	
5.73	5.73	7119.73	1.204	3.986	
5.74	5.74	7119.74	1.205	3.998	
<b>5.75</b>	<b>5.75</b>	<b>7119.75</b>	<b>1.206</b>	<b>4.009</b>	
5.76	5.76	7119.76	1.207	4.020	
5.77	5.77	7119.77	1.208	4.031	
5.78	5.78	7119.78	1.210	4.043	
5.79	5.79	7119.79	1.211	4.054	
<b>5.80</b>	<b>5.80</b>	<b>7119.80</b>	<b>1.212</b>	<b>4.065</b>	
5.81	5.81	7119.81	1.213	4.076	
5.82	5.82	7119.82	1.214	4.088	

5.83	5.83	7033.83	1.977	7.411	
5.84	5.84	7033.84	1.979	7.430	
<b>5.85</b>	<b>5.85</b>	<b>7033.85</b>	<b>1.981</b>	<b>7.448</b>	
5.86	5.86	7033.86	1.983	7.466	
5.87	5.87	7033.87	1.985	7.484	
5.88	5.88	7033.88	1.987	7.502	
5.89	5.89	7033.89	1.989	7.520	
<b>5.90</b>	<b>5.90</b>	<b>7033.90</b>	<b>1.990</b>	<b>7.539</b>	
5.91	5.91	7033.91	1.992	7.557	
5.92	5.92	7033.92	1.994	7.575	
5.93	5.93	7033.93	1.996	7.593	
5.94	5.94	7033.94	1.998	7.611	
<b>5.95</b>	<b>5.95</b>	<b>7033.95</b>	<b>2.000</b>	<b>7.629</b>	
5.96	5.96	7033.96	2.002	7.647	
5.97	5.97	7033.97	2.004	7.666	
5.98	5.98	7033.98	2.006	7.684	
5.99	5.99	7033.99	2.008	7.702	
<b>6.00</b>	<b>6.00</b>	<b>7034.00</b>	<b>2.010</b>	<b>7.720</b>	
6.01	6.01	7034.01	2.013	7.743	
6.02	6.02	7034.02	2.015	7.765	
6.03	6.03	7034.03	2.018	7.788	
6.04	6.04	7034.04	2.020	7.811	
<b>6.05</b>	<b>6.05</b>	<b>7034.05</b>	<b>2.023</b>	<b>7.833</b>	
6.06	6.06	7034.06	2.025	7.856	
6.07	6.07	7034.07	2.028	7.879	
6.08	6.08	7034.08	2.030	7.901	
6.09	6.09	7034.09	2.033	7.924	
<b>6.10</b>	<b>6.10</b>	<b>7034.10</b>	<b>2.035</b>	<b>7.947</b>	
6.11	6.11	7034.11	2.038	7.969	
6.12	6.12	7034.12	2.040	7.992	
6.13	6.13	7034.13	2.043	8.014	
6.14	6.14	7034.14	2.045	8.037	
<b>6.15</b>	<b>6.15</b>	<b>7034.15</b>	<b>2.048</b>	<b>8.060</b>	
6.16	6.16	7034.16	2.050	8.082	
6.17	6.17	7034.17	2.053	8.105	
6.18	6.18	7034.18	2.056	8.128	
6.19	6.19	7034.19	2.058	8.150	
<b>6.20</b>	<b>6.20</b>	<b>7034.20</b>	<b>2.061</b>	<b>8.173</b>	
6.21	6.21	7034.21	2.063	8.196	
6.22	6.22	7034.22	2.066	8.218	
6.23	6.23	7034.23	2.068	8.241	
6.24	6.24	7034.24	2.071	8.264	
<b>6.25</b>	<b>6.25</b>	<b>7034.25</b>	<b>2.073</b>	<b>8.286</b>	
6.26	6.26	7034.26	2.076	8.309	
6.27	6.27	7034.27	2.078	8.332	
6.28	6.28	7034.28	2.081	8.354	

5.83	5.83	7119.83	1.215	4.099	
5.84	5.84	7119.84	1.216	4.110	
<b>5.85</b>	<b>5.85</b>	<b>7119.85</b>	<b>1.217</b>	<b>4.121</b>	
5.86	5.86	7119.86	1.218	4.133	
5.87	5.87	7119.87	1.219	4.144	
5.88	5.88	7119.88	1.220	4.155	
5.89	5.89	7119.89	1.222	4.166	
<b>5.90</b>	<b>5.90</b>	<b>7119.90</b>	<b>1.223</b>	<b>4.178</b>	
5.91	5.91	7119.91	1.224	4.189	
5.92	5.92	7119.92	1.225	4.200	
5.93	5.93	7119.93	1.226	4.211	
5.94	5.94	7119.94	1.227	4.223	
<b>5.95</b>	<b>5.95</b>	<b>7119.95</b>	<b>1.228</b>	<b>4.234</b>	
5.96	5.96	7119.96	1.229	4.245	
5.97	5.97	7119.97	1.230	4.256	
5.98	5.98	7119.98	1.231	4.268	
5.99	5.99	7119.99	1.232	4.279	
<b>6.00</b>	<b>6.00</b>	<b>7120.00</b>	<b>1.234</b>	<b>4.290</b>	Spillway / NWS
6.01	6.01	7120.01	1.235	4.302	
6.02	6.02	7120.02	1.237	4.315	
6.03	6.03	7120.03	1.239	4.327	
6.04	6.04	7120.04	1.241	4.339	
<b>6.05</b>	<b>6.05</b>	<b>7120.05</b>	<b>1.243</b>	<b>4.352</b>	
6.06	6.06	7120.06	1.245	4.364	
6.07	6.07	7120.07	1.246	4.376	
6.08	6.08	7120.08	1.248	4.389	
6.09	6.09	7120.09	1.250	4.401	
<b>6.10</b>	<b>6.10</b>	<b>7120.10</b>	<b>1.252</b>	<b>4.414</b>	
6.11	6.11	7120.11	1.254	4.426	
6.12	6.12	7120.12	1.256	4.438	
6.13	6.13	7120.13	1.257	4.451	
6.14	6.14	7120.14	1.259	4.463	
<b>6.15</b>	<b>6.15</b>	<b>7120.15</b>	<b>1.261</b>	<b>4.475</b>	
6.16	6.16	7120.16	1.263	4.488	
6.17	6.17	7120.17	1.265	4.500	
6.18	6.18	7120.18	1.267	4.512	
6.19	6.19	7120.19	1.268	4.525	
<b>6.20</b>	<b>6.20</b>	<b>7120.20</b>	<b>1.270</b>	<b>4.537</b>	
6.21	6.21	7120.21	1.272	4.549	
6.22	6.22	7120.22	1.274	4.562	
6.23	6.23	7120.23	1.276	4.574	
6.24	6.24	7120.24	1.278	4.586	
<b>6.25</b>	<b>6.25</b>	<b>7120.25</b>	<b>1.280</b>	<b>4.599</b>	
6.26	6.26	7120.26	1.281	4.611	
6.27	6.27	7120.27	1.283	4.623	
6.28	6.28	7120.28	1.285	4.636	

6.29	6.29	7034.29	2.083	8.377	
<b>6.30</b>	<b>6.30</b>	<b>7034.30</b>	<b>2.086</b>	<b>8.400</b>	
6.31	6.31	7034.31	2.088	8.422	
6.32	6.32	7034.32	2.091	8.445	
6.33	6.33	7034.33	2.093	8.467	
6.34	6.34	7034.34	2.096	8.490	
<b>6.35</b>	<b>6.35</b>	<b>7034.35</b>	<b>2.099</b>	<b>8.513</b>	
6.36	6.36	7034.36	2.101	8.535	
6.37	6.37	7034.37	2.104	8.558	
6.38	6.38	7034.38	2.106	8.581	
6.39	6.39	7034.39	2.109	8.603	
<b>6.40</b>	<b>6.40</b>	<b>7034.40</b>	<b>2.111</b>	<b>8.626</b>	
6.41	6.41	7034.41	2.114	8.649	
6.42	6.42	7034.42	2.116	8.671	
6.43	6.43	7034.43	2.119	8.694	
6.44	6.44	7034.44	2.121	8.717	
<b>6.45</b>	<b>6.45</b>	<b>7034.45</b>	<b>2.124</b>	<b>8.739</b>	
6.46	6.46	7034.46	2.126	8.762	
6.47	6.47	7034.47	2.129	8.785	
6.48	6.48	7034.48	2.131	8.807	
6.49	6.49	7034.49	2.134	8.830	
<b>6.50</b>	<b>6.50</b>	<b>7034.50</b>	<b>2.137</b>	<b>8.853</b>	
6.51	6.51	7034.51	2.139	8.875	
6.52	6.52	7034.52	2.142	8.898	
6.53	6.53	7034.53	2.144	8.920	
6.54	6.54	7034.54	2.147	8.943	
<b>6.55</b>	<b>6.55</b>	<b>7034.55</b>	<b>2.149</b>	<b>8.966</b>	
6.56	6.56	7034.56	2.152	8.988	
6.57	6.57	7034.57	2.154	9.011	
6.58	6.58	7034.58	2.157	9.034	
6.59	6.59	7034.59	2.159	9.056	
<b>6.60</b>	<b>6.60</b>	<b>7034.60</b>	<b>2.162</b>	<b>9.079</b>	
6.61	6.61	7034.61	2.164	9.102	
6.62	6.62	7034.62	2.167	9.124	
6.63	6.63	7034.63	2.169	9.147	
6.64	6.64	7034.64	2.172	9.170	
<b>6.65</b>	<b>6.65</b>	<b>7034.65</b>	<b>2.174</b>	<b>9.192</b>	
6.66	6.66	7034.66	2.177	9.215	
6.67	6.67	7034.67	2.180	9.238	
6.68	6.68	7034.68	2.182	9.260	
6.69	6.69	7034.69	2.185	9.283	
<b>6.70</b>	<b>6.70</b>	<b>7034.70</b>	<b>2.187</b>	<b>9.306</b>	
6.71	6.71	7034.71	2.190	9.328	
6.72	6.72	7034.72	2.192	9.351	
6.73	6.73	7034.73	2.195	9.373	
6.74	6.74	7034.74	2.197	9.396	

6.29	6.29	7120.29	1.287	4.648	
<b>6.30</b>	<b>6.30</b>	<b>7120.30</b>	<b>1.289</b>	<b>4.661</b>	
6.31	6.31	7120.31	1.291	4.673	
6.32	6.32	7120.32	1.292	4.685	
6.33	6.33	7120.33	1.294	4.698	
6.34	6.34	7120.34	1.296	4.710	
<b>6.35</b>	<b>6.35</b>	<b>7120.35</b>	<b>1.298</b>	<b>4.722</b>	
6.36	6.36	7120.36	1.300	4.735	
6.37	6.37	7120.37	1.302	4.747	
6.38	6.38	7120.38	1.303	4.759	
6.39	6.39	7120.39	1.305	4.772	
<b>6.40</b>	<b>6.40</b>	<b>7120.40</b>	<b>1.307</b>	<b>4.784</b>	
6.41	6.41	7120.41	1.309	4.796	
6.42	6.42	7120.42	1.311	4.809	
6.43	6.43	7120.43	1.313	4.821	
6.44	6.44	7120.44	1.314	4.833	
<b>6.45</b>	<b>6.45</b>	<b>7120.45</b>	<b>1.316</b>	<b>4.846</b>	
6.46	6.46	7120.46	1.318	4.858	
6.47	6.47	7120.47	1.320	4.870	
6.48	6.48	7120.48	1.322	4.883	
6.49	6.49	7120.49	1.324	4.895	
<b>6.50</b>	<b>6.50</b>	<b>7120.50</b>	<b>1.326</b>	<b>4.907</b>	
6.51	6.51	7120.51	1.327	4.920	
6.52	6.52	7120.52	1.329	4.932	
6.53	6.53	7120.53	1.331	4.945	
6.54	6.54	7120.54	1.333	4.957	
<b>6.55</b>	<b>6.55</b>	<b>7120.55</b>	<b>1.335</b>	<b>4.969</b>	
6.56	6.56	7120.56	1.337	4.982	
6.57	6.57	7120.57	1.338	4.994	
6.58	6.58	7120.58	1.340	5.006	
6.59	6.59	7120.59	1.342	5.019	
<b>6.60</b>	<b>6.60</b>	<b>7120.60</b>	<b>1.344</b>	<b>5.031</b>	
6.61	6.61	7120.61	1.346	5.043	
6.62	6.62	7120.62	1.348	5.056	
6.63	6.63	7120.63	1.349	5.068	
6.64	6.64	7120.64	1.351	5.080	
<b>6.65</b>	<b>6.65</b>	<b>7120.65</b>	<b>1.353</b>	<b>5.093</b>	
6.66	6.66	7120.66	1.355	5.105	
6.67	6.67	7120.67	1.357	5.117	
6.68	6.68	7120.68	1.359	5.130	
6.69	6.69	7120.69	1.360	5.142	
<b>6.70</b>	<b>6.70</b>	<b>7120.70</b>	<b>1.362</b>	<b>5.154</b>	
6.71	6.71	7120.71	1.364	5.167	
6.72	6.72	7120.72	1.366	5.179	
6.73	6.73	7120.73	1.368	5.192	
6.74	6.74	7120.74	1.370	5.204	

<b>6.75</b>	<b>6.75</b>	<b>7034.75</b>	<b>2.200</b>	<b>9.419</b>	
6.76	6.76	7034.76	2.202	9.441	
6.77	6.77	7034.77	2.205	9.464	
6.78	6.78	7034.78	2.207	9.487	
6.79	6.79	7034.79	2.210	9.509	
<b>6.80</b>	<b>6.80</b>	<b>7034.80</b>	<b>2.212</b>	<b>9.532</b>	
6.81	6.81	7034.81	2.215	9.555	
6.82	6.82	7034.82	2.217	9.577	
6.83	6.83	7034.83	2.220	9.600	
6.84	6.84	7034.84	2.223	9.623	
<b>6.85</b>	<b>6.85</b>	<b>7034.85</b>	<b>2.225</b>	<b>9.645</b>	
6.86	6.86	7034.86	2.228	9.668	
6.87	6.87	7034.87	2.230	9.691	
6.88	6.88	7034.88	2.233	9.713	
6.89	6.89	7034.89	2.235	9.736	
<b>6.90</b>	<b>6.90</b>	<b>7034.90</b>	<b>2.238</b>	<b>9.759</b>	
6.91	6.91	7034.91	2.240	9.781	
6.92	6.92	7034.92	2.243	9.804	
6.93	6.93	7034.93	2.245	9.826	
6.94	6.94	7034.94	2.248	9.849	
<b>6.95</b>	<b>6.95</b>	<b>7034.95</b>	<b>2.250</b>	<b>9.872</b>	
6.96	6.96	7034.96	2.253	9.894	
6.97	6.97	7034.97	2.255	9.917	
6.98	6.98	7034.98	2.258	9.940	
6.99	6.99	7034.99	2.260	9.962	
<b>7.00</b>	<b>7.00</b>	<b>7035.00</b>	<b>2.263</b>	<b>9.985</b>	
7.01	7.01	7035.01	2.266	10.008	
7.02	7.02	7035.02	2.268	10.030	
7.03	7.03	7035.03	2.271	10.053	
7.04	7.04	7035.04	2.273	10.076	
<b>7.05</b>	<b>7.05</b>	<b>7035.05</b>	<b>2.276</b>	<b>10.098</b>	
7.06	7.06	7035.06	2.278	10.121	
7.07	7.07	7035.07	2.281	10.144	
7.08	7.08	7035.08	2.283	10.166	
7.09	7.09	7035.09	2.286	10.189	
<b>7.10</b>	<b>7.10</b>	<b>7035.10</b>	<b>2.288</b>	<b>10.212</b>	
7.11	7.11	7035.11	2.291	10.234	
7.12	7.12	7035.12	2.293	10.257	
7.13	7.13	7035.13	2.296	10.279	
7.14	7.14	7035.14	2.298	10.302	
<b>7.15</b>	<b>7.15</b>	<b>7035.15</b>	<b>2.301</b>	<b>10.325</b>	
7.16	7.16	7035.16	2.303	10.347	
7.17	7.17	7035.17	2.306	10.370	
7.18	7.18	7035.18	2.309	10.393	
7.19	7.19	7035.19	2.311	10.415	
<b>7.20</b>	<b>7.20</b>	<b>7035.20</b>	<b>2.314</b>	<b>10.438</b>	

<b>6.75</b>	<b>6.75</b>	<b>7120.75</b>	<b>1.372</b>	<b>5.216</b>	
6.76	6.76	7120.76	1.373	5.229	
6.77	6.77	7120.77	1.375	5.241	
6.78	6.78	7120.78	1.377	5.253	
6.79	6.79	7120.79	1.379	5.266	
<b>6.80</b>	<b>6.80</b>	<b>7120.80</b>	<b>1.381</b>	<b>5.278</b>	
6.81	6.81	7120.81	1.383	5.290	
6.82	6.82	7120.82	1.384	5.303	
6.83	6.83	7120.83	1.386	5.315	
6.84	6.84	7120.84	1.388	5.327	
<b>6.85</b>	<b>6.85</b>	<b>7120.85</b>	<b>1.390</b>	<b>5.340</b>	
6.86	6.86	7120.86	1.392	5.352	
6.87	6.87	7120.87	1.394	5.364	
6.88	6.88	7120.88	1.395	5.377	
6.89	6.89	7120.89	1.397	5.389	
<b>6.90</b>	<b>6.90</b>	<b>7120.90</b>	<b>1.399</b>	<b>5.401</b>	
6.91	6.91	7120.91	1.401	5.414	
6.92	6.92	7120.92	1.403	5.426	
6.93	6.93	7120.93	1.405	5.439	
6.94	6.94	7120.94	1.406	5.451	
<b>6.95</b>	<b>6.95</b>	<b>7120.95</b>	<b>1.408</b>	<b>5.463</b>	
6.96	6.96	7120.96	1.410	5.476	
6.97	6.97	7120.97	1.412	5.488	
6.98	6.98	7120.98	1.414	5.500	
6.99	6.99	7120.99	1.416	5.513	
<b>7.00</b>	<b>7.00</b>	<b>7121.00</b>	<b>1.418</b>	<b>5.525</b>	
7.01	7.01	7121.01	1.419	5.537	
7.02	7.02	7121.02	1.421	5.550	
7.03	7.03	7121.03	1.423	5.562	
7.04	7.04	7121.04	1.425	5.574	
<b>7.05</b>	<b>7.05</b>	<b>7121.05</b>	<b>1.427</b>	<b>5.587</b>	
7.06	7.06	7121.06	1.429	5.599	
7.07	7.07	7121.07	1.430	5.611	
7.08	7.08	7121.08	1.432	5.624	
7.09	7.09	7121.09	1.434	5.636	
<b>7.10</b>	<b>7.10</b>	<b>7121.10</b>	<b>1.436</b>	<b>5.648</b>	
7.11	7.11	7121.11	1.438	5.661	
7.12	7.12	7121.12	1.440	5.673	
7.13	7.13	7121.13	1.441	5.686	
7.14	7.14	7121.14	1.443	5.698	
<b>7.15</b>	<b>7.15</b>	<b>7121.15</b>	<b>1.445</b>	<b>5.710</b>	
7.16	7.16	7121.16	1.447	5.723	
7.17	7.17	7121.17	1.449	5.735	
7.18	7.18	7121.18	1.451	5.747	
7.19	7.19	7121.19	1.452	5.760	
<b>7.20</b>	<b>7.20</b>	<b>7121.20</b>	<b>1.454</b>	<b>5.772</b>	

7.21	7.21	7035.21	2.316	10.461	
7.22	7.22	7035.22	2.319	10.483	
7.23	7.23	7035.23	2.321	10.506	
7.24	7.24	7035.24	2.324	10.529	
<b>7.25</b>	<b>7.25</b>	<b>7035.25</b>	<b>2.326</b>	<b>10.551</b>	
7.26	7.26	7035.26	2.329	10.574	
7.27	7.27	7035.27	2.331	10.597	
7.28	7.28	7035.28	2.334	10.619	
7.29	7.29	7035.29	2.336	10.642	
<b>7.30</b>	<b>7.30</b>	<b>7035.30</b>	<b>2.339</b>	<b>10.665</b>	
7.31	7.31	7035.31	2.341	10.687	
7.32	7.32	7035.32	2.344	10.710	
7.33	7.33	7035.33	2.346	10.732	
7.34	7.34	7035.34	2.349	10.755	
<b>7.35</b>	<b>7.35</b>	<b>7035.35</b>	<b>2.352</b>	<b>10.778</b>	
7.36	7.36	7035.36	2.354	10.800	
7.37	7.37	7035.37	2.357	10.823	
7.38	7.38	7035.38	2.359	10.846	
7.39	7.39	7035.39	2.362	10.868	
<b>7.40</b>	<b>7.40</b>	<b>7035.40</b>	<b>2.364</b>	<b>10.891</b>	
7.41	7.41	7035.41	2.367	10.914	
7.42	7.42	7035.42	2.369	10.936	
7.43	7.43	7035.43	2.372	10.959	
7.44	7.44	7035.44	2.374	10.982	
<b>7.45</b>	<b>7.45</b>	<b>7035.45</b>	<b>2.377</b>	<b>11.004</b>	
7.46	7.46	7035.46	2.379	11.027	
7.47	7.47	7035.47	2.382	11.050	
7.48	7.48	7035.48	2.384	11.072	
7.49	7.49	7035.49	2.387	11.095	
<b>7.50</b>	<b>7.50</b>	<b>7035.50</b>	<b>2.390</b>	<b>11.118</b>	
7.51	7.51	7035.51	2.392	11.140	
7.52	7.52	7035.52	2.395	11.163	
7.53	7.53	7035.53	2.397	11.185	
7.54	7.54	7035.54	2.400	11.208	
<b>7.55</b>	<b>7.55</b>	<b>7035.55</b>	<b>2.402</b>	<b>11.231</b>	
7.56	7.56	7035.56	2.405	11.253	
7.57	7.57	7035.57	2.407	11.276	
7.58	7.58	7035.58	2.410	11.299	
7.59	7.59	7035.59	2.412	11.321	
<b>7.60</b>	<b>7.60</b>	<b>7035.60</b>	<b>2.415</b>	<b>11.344</b>	
7.61	7.61	7035.61	2.417	11.367	
7.62	7.62	7035.62	2.420	11.389	
7.63	7.63	7035.63	2.422	11.412	
7.64	7.64	7035.64	2.425	11.435	
<b>7.65</b>	<b>7.65</b>	<b>7035.65</b>	<b>2.427</b>	<b>11.457</b>	
7.66	7.66	7035.66	2.430	11.480	

7.21	7.21	7121.21	1.456	5.784	
7.22	7.22	7121.22	1.458	5.797	
7.23	7.23	7121.23	1.460	5.809	
7.24	7.24	7121.24	1.462	5.821	
<b>7.25</b>	<b>7.25</b>	<b>7121.25</b>	<b>1.464</b>	<b>5.834</b>	
7.26	7.26	7121.26	1.465	5.846	
7.27	7.27	7121.27	1.467	5.858	
7.28	7.28	7121.28	1.469	5.871	
7.29	7.29	7121.29	1.471	5.883	
<b>7.30</b>	<b>7.30</b>	<b>7121.30</b>	<b>1.473</b>	<b>5.895</b>	
7.31	7.31	7121.31	1.475	5.908	
7.32	7.32	7121.32	1.476	5.920	
7.33	7.33	7121.33	1.478	5.933	
7.34	7.34	7121.34	1.480	5.945	
<b>7.35</b>	<b>7.35</b>	<b>7121.35</b>	<b>1.482</b>	<b>5.957</b>	
7.36	7.36	7121.36	1.484	5.970	
7.37	7.37	7121.37	1.486	5.982	
7.38	7.38	7121.38	1.487	5.994	
7.39	7.39	7121.39	1.489	6.007	
<b>7.40</b>	<b>7.40</b>	<b>7121.40</b>	<b>1.491</b>	<b>6.019</b>	
7.41	7.41	7121.41	1.493	6.031	
7.42	7.42	7121.42	1.495	6.044	
7.43	7.43	7121.43	1.497	6.056	
7.44	7.44	7121.44	1.498	6.068	
<b>7.45</b>	<b>7.45</b>	<b>7121.45</b>	<b>1.500</b>	<b>6.081</b>	
7.46	7.46	7121.46	1.502	6.093	
7.47	7.47	7121.47	1.504	6.105	
7.48	7.48	7121.48	1.506	6.118	
7.49	7.49	7121.49	1.508	6.130	
<b>7.50</b>	<b>7.50</b>	<b>7121.50</b>	<b>1.510</b>	<b>6.142</b>	
7.51	7.51	7121.51	1.511	6.155	
7.52	7.52	7121.52	1.513	6.167	
7.53	7.53	7121.53	1.515	6.180	
7.54	7.54	7121.54	1.517	6.192	
<b>7.55</b>	<b>7.55</b>	<b>7121.55</b>	<b>1.519</b>	<b>6.204</b>	
7.56	7.56	7121.56	1.521	6.217	
7.57	7.57	7121.57	1.522	6.229	
7.58	7.58	7121.58	1.524	6.241	
7.59	7.59	7121.59	1.526	6.254	
<b>7.60</b>	<b>7.60</b>	<b>7121.60</b>	<b>1.528</b>	<b>6.266</b>	
7.61	7.61	7121.61	1.530	6.278	
7.62	7.62	7121.62	1.532	6.291	
7.63	7.63	7121.63	1.533	6.303	
7.64	7.64	7121.64	1.535	6.315	
<b>7.65</b>	<b>7.65</b>	<b>7121.65</b>	<b>1.537</b>	<b>6.328</b>	
7.66	7.66	7121.66	1.539	6.340	

7.67	7.67	7035.67	2.433	11.503	
7.68	7.68	7035.68	2.435	11.525	
7.69	7.69	7035.69	2.438	11.548	
<b>7.70</b>	<b>7.70</b>	<b>7035.70</b>	<b>2.440</b>	<b>11.571</b>	
7.71	7.71	7035.71	2.443	11.593	
7.72	7.72	7035.72	2.445	11.616	
7.73	7.73	7035.73	2.448	11.638	
7.74	7.74	7035.74	2.450	11.661	
<b>7.75</b>	<b>7.75</b>	<b>7035.75</b>	<b>2.453</b>	<b>11.684</b>	
7.76	7.76	7035.76	2.455	11.706	
7.77	7.77	7035.77	2.458	11.729	
7.78	7.78	7035.78	2.460	11.752	
7.79	7.79	7035.79	2.463	11.774	
<b>7.80</b>	<b>7.80</b>	<b>7035.80</b>	<b>2.465</b>	<b>11.797</b>	
7.81	7.81	7035.81	2.468	11.820	
7.82	7.82	7035.82	2.470	11.842	
7.83	7.83	7035.83	2.473	11.865	
7.84	7.84	7035.84	2.476	11.888	
<b>7.85</b>	<b>7.85</b>	<b>7035.85</b>	<b>2.478</b>	<b>11.910</b>	
7.86	7.86	7035.86	2.481	11.933	
7.87	7.87	7035.87	2.483	11.956	
7.88	7.88	7035.88	2.486	11.978	
7.89	7.89	7035.89	2.488	12.001	
<b>7.90</b>	<b>7.90</b>	<b>7035.90</b>	<b>2.491</b>	<b>12.024</b>	
7.91	7.91	7035.91	2.493	12.046	
7.92	7.92	7035.92	2.496	12.069	
7.93	7.93	7035.93	2.498	12.091	
7.94	7.94	7035.94	2.501	12.114	
<b>7.95</b>	<b>7.95</b>	<b>7035.95</b>	<b>2.503</b>	<b>12.137</b>	
7.96	7.96	7035.96	2.506	12.159	
7.97	7.97	7035.97	2.508	12.182	
7.98	7.98	7035.98	2.511	12.205	
7.99	7.99	7035.99	2.513	12.227	
<b>8.00</b>	<b>8.00</b>	<b>7036.00</b>	<b>2.516</b>	<b>12.250</b>	Spillway Crest / NWS
8.01	8.01	7036.01	2.522	12.276	
8.02	8.02	7036.02	2.527	12.301	
8.03	8.03	7036.03	2.533	12.327	
8.04	8.04	7036.04	2.538	12.353	
<b>8.05</b>	<b>8.05</b>	<b>7036.05</b>	<b>2.544</b>	<b>12.379</b>	
8.06	8.06	7036.06	2.549	12.404	
8.07	8.07	7036.07	2.555	12.430	
8.08	8.08	7036.08	2.560	12.456	
8.09	8.09	7036.09	2.566	12.481	
8.10	8.10	7036.10	<b>2.571</b>	<b>12.507</b>	
8.11	8.11	7036.11	2.577	12.533	
8.12	8.12	7036.12	2.582	12.558	

7.67	7.67	7121.67	1.541	6.352	
7.68	7.68	7121.68	1.543	6.365	
7.69	7.69	7121.69	1.544	6.377	
<b>7.70</b>	<b>7.70</b>	<b>7121.70</b>	<b>1.546</b>	<b>6.389</b>	
7.71	7.71	7121.71	1.548	6.402	
7.72	7.72	7121.72	1.550	6.414	
7.73	7.73	7121.73	1.552	6.427	
7.74	7.74	7121.74	1.554	6.439	
<b>7.75</b>	<b>7.75</b>	<b>7121.75</b>	<b>1.556</b>	<b>6.451</b>	
7.76	7.76	7121.76	1.557	6.464	
7.77	7.77	7121.77	1.559	6.476	
7.78	7.78	7121.78	1.561	6.488	
7.79	7.79	7121.79	1.563	6.501	
<b>7.80</b>	<b>7.80</b>	<b>7121.80</b>	<b>1.565</b>	<b>6.513</b>	
7.81	7.81	7121.81	1.567	6.525	
7.82	7.82	7121.82	1.568	6.538	
7.83	7.83	7121.83	1.570	6.550	
7.84	7.84	7121.84	1.572	6.562	
<b>7.85</b>	<b>7.85</b>	<b>7121.85</b>	<b>1.574</b>	<b>6.575</b>	
7.86	7.86	7121.86	1.576	6.587	
7.87	7.87	7121.87	1.578	6.599	
7.88	7.88	7121.88	1.579	6.612	
7.89	7.89	7121.89	1.581	6.624	
<b>7.90</b>	<b>7.90</b>	<b>7121.90</b>	<b>1.583</b>	<b>6.636</b>	
7.91	7.91	7121.91	1.585	6.649	
7.92	7.92	7121.92	1.587	6.661	
7.93	7.93	7121.93	1.589	6.674	
7.94	7.94	7121.94	1.590	6.686	
<b>7.95</b>	<b>7.95</b>	<b>7121.95</b>	<b>1.592</b>	<b>6.698</b>	
7.96	7.96	7121.96	1.594	6.711	
7.97	7.97	7121.97	1.596	6.723	
7.98	7.98	7121.98	1.598	6.735	
7.99	7.99	7121.99	1.600	6.748	
<b>8.00</b>	<b>8.00</b>	<b>7122.00</b>	<b>1.602</b>	<b>6.760</b>	
8.01	8.01	7122.01	1.606	6.776	
8.02	8.02	7122.02	1.611	6.792	
8.03	8.03	7122.03	1.616	6.808	
8.04	8.04	7122.04	1.620	6.824	
<b>8.05</b>	<b>8.05</b>	<b>7122.05</b>	<b>1.625</b>	<b>6.840</b>	
8.06	8.06	7122.06	1.630	6.856	
8.07	8.07	7122.07	1.635	6.872	
8.08	8.08	7122.08	1.639	6.888	
8.09	8.09	7122.09	1.644	6.904	
8.10	8.10	7122.10	<b>1.649</b>	<b>6.920</b>	
8.11	8.11	7122.11	1.654	6.936	
8.12	8.12	7122.12	1.658	6.952	

8.13	8.13	7036.13	2.588	12.584	
8.14	8.14	7036.14	2.593	12.610	
<b>8.15</b>	<b>8.15</b>	<b>7036.15</b>	<b>2.599</b>	<b>12.636</b>	
8.16	8.16	7036.16	2.604	12.661	
8.17	8.17	7036.17	2.610	12.687	
8.18	8.18	7036.18	2.615	12.713	
8.19	8.19	7036.19	2.620	12.738	
<b>8.20</b>	<b>8.20</b>	<b>7036.20</b>	<b>2.626</b>	<b>12.764</b>	
8.21	8.21	7036.21	2.631	12.790	
8.22	8.22	7036.22	2.637	12.815	
8.23	8.23	7036.23	2.642	12.841	
8.24	8.24	7036.24	2.648	12.867	
<b>8.25</b>	<b>8.25</b>	<b>7036.25</b>	<b>2.653</b>	<b>12.893</b>	
8.26	8.26	7036.26	2.659	12.918	
8.27	8.27	7036.27	2.664	12.944	
8.28	8.28	7036.28	2.670	12.970	
8.29	8.29	7036.29	2.675	12.995	
<b>8.30</b>	<b>8.30</b>	<b>7036.30</b>	<b>2.681</b>	<b>13.021</b>	
8.31	8.31	7036.31	2.686	13.047	
8.32	8.32	7036.32	2.692	13.072	
8.33	8.33	7036.33	2.697	13.098	
8.34	8.34	7036.34	2.703	13.124	
<b>8.35</b>	<b>8.35</b>	<b>7036.35</b>	<b>2.708</b>	<b>13.150</b>	
8.36	8.36	7036.36	2.714	13.175	
8.37	8.37	7036.37	2.719	13.201	
8.38	8.38	7036.38	2.725	13.227	
8.39	8.39	7036.39	2.730	13.252	
<b>8.40</b>	<b>8.40</b>	<b>7036.40</b>	<b>2.736</b>	<b>13.278</b>	
8.41	8.41	7036.41	2.741	13.304	
8.42	8.42	7036.42	2.747	13.329	
8.43	8.43	7036.43	2.752	13.355	
8.44	8.44	7036.44	2.757	13.381	
<b>8.45</b>	<b>8.45</b>	<b>7036.45</b>	<b>2.763</b>	<b>13.407</b>	
8.46	8.46	7036.46	2.768	13.432	
8.47	8.47	7036.47	2.774	13.458	
8.48	8.48	7036.48	2.779	13.484	
8.49	8.49	7036.49	2.785	13.509	
<b>8.50</b>	<b>8.50</b>	<b>7036.50</b>	<b>2.790</b>	<b>13.535</b>	
8.51	8.51	7036.51	2.796	13.561	
8.52	8.52	7036.52	2.801	13.586	
8.53	8.53	7036.53	2.807	13.612	
8.54	8.54	7036.54	2.812	13.638	
<b>8.55</b>	<b>8.55</b>	<b>7036.55</b>	<b>2.818</b>	<b>13.664</b>	
8.56	8.56	7036.56	2.823	13.689	
8.57	8.57	7036.57	2.829	13.715	
8.58	8.58	7036.58	2.834	13.741	

8.13	8.13	7122.13	1.663	6.968	
8.14	8.14	7122.14	1.668	6.984	
<b>8.15</b>	<b>8.15</b>	<b>7122.15</b>	<b>1.672</b>	<b>7.000</b>	
8.16	8.16	7122.16	1.677	7.016	
8.17	8.17	7122.17	1.682	7.032	
8.18	8.18	7122.18	1.687	7.048	
8.19	8.19	7122.19	1.691	7.064	
<b>8.20</b>	<b>8.20</b>	<b>7122.20</b>	<b>1.696</b>	<b>7.080</b>	
8.21	8.21	7122.21	1.701	7.096	
8.22	8.22	7122.22	1.706	7.112	
8.23	8.23	7122.23	1.710	7.128	
8.24	8.24	7122.24	1.715	7.144	
<b>8.25</b>	<b>8.25</b>	<b>7122.25</b>	<b>1.720</b>	<b>7.160</b>	
8.26	8.26	7122.26	1.724	7.176	
8.27	8.27	7122.27	1.729	7.192	
8.28	8.28	7122.28	1.734	7.208	
8.29	8.29	7122.29	1.739	7.224	
<b>8.30</b>	<b>8.30</b>	<b>7122.30</b>	<b>1.743</b>	<b>7.240</b>	
8.31	8.31	7122.31	1.748	7.256	
8.32	8.32	7122.32	1.753	7.272	
8.33	8.33	7122.33	1.758	7.288	
8.34	8.34	7122.34	1.762	7.304	
<b>8.35</b>	<b>8.35</b>	<b>7122.35</b>	<b>1.767</b>	<b>7.320</b>	
8.36	8.36	7122.36	1.772	7.336	
8.37	8.37	7122.37	1.777	7.352	
8.38	8.38	7122.38	1.781	7.368	
8.39	8.39	7122.39	1.786	7.384	
<b>8.40</b>	<b>8.40</b>	<b>7122.40</b>	<b>1.791</b>	<b>7.400</b>	
8.41	8.41	7122.41	1.795	7.416	
8.42	8.42	7122.42	1.800	7.432	
8.43	8.43	7122.43	1.805	7.448	
8.44	8.44	7122.44	1.810	7.464	
<b>8.45</b>	<b>8.45</b>	<b>7122.45</b>	<b>1.814</b>	<b>7.480</b>	
8.46	8.46	7122.46	1.819	7.496	
8.47	8.47	7122.47	1.824	7.512	
8.48	8.48	7122.48	1.829	7.528	
8.49	8.49	7122.49	1.833	7.544	
<b>8.50</b>	<b>8.50</b>	<b>7122.50</b>	<b>1.838</b>	<b>7.560</b>	
8.51	8.51	7122.51	1.843	7.576	
8.52	8.52	7122.52	1.847	7.592	
8.53	8.53	7122.53	1.852	7.608	
8.54	8.54	7122.54	1.857	7.624	
<b>8.55</b>	<b>8.55</b>	<b>7122.55</b>	<b>1.862</b>	<b>7.640</b>	
8.56	8.56	7122.56	1.866	7.656	
8.57	8.57	7122.57	1.871	7.672	
8.58	8.58	7122.58	1.876	7.688	

8.59	8.59	7036.59	2.840	13.766	
<b>8.60</b>	<b>8.60</b>	<b>7036.60</b>	<b>2.845</b>	<b>13.792</b>	
8.61	8.61	7036.61	2.851	13.818	
8.62	8.62	7036.62	2.856	13.843	
8.63	8.63	7036.63	2.862	13.869	
8.64	8.64	7036.64	2.867	13.895	
<b>8.65</b>	<b>8.65</b>	<b>7036.65</b>	<b>2.873</b>	<b>13.921</b>	
8.66	8.66	7036.66	2.878	13.946	
8.67	8.67	7036.67	2.884	13.972	
8.68	8.68	7036.68	2.889	13.998	
8.69	8.69	7036.69	2.894	14.023	
<b>8.70</b>	<b>8.70</b>	<b>7036.70</b>	<b>2.900</b>	<b>14.049</b>	
8.71	8.71	7036.71	2.905	14.075	
8.72	8.72	7036.72	2.911	14.100	
8.73	8.73	7036.73	2.916	14.126	
8.74	8.74	7036.74	2.922	14.152	
<b>8.75</b>	<b>8.75</b>	<b>7036.75</b>	<b>2.927</b>	<b>14.178</b>	
8.76	8.76	7036.76	2.933	14.203	
8.77	8.77	7036.77	2.938	14.229	
8.78	8.78	7036.78	2.944	14.255	
8.79	8.79	7036.79	2.949	14.280	
<b>8.80</b>	<b>8.80</b>	<b>7036.80</b>	<b>2.955</b>	<b>14.306</b>	
8.81	8.81	7036.81	2.960	14.332	
8.82	8.82	7036.82	2.966	14.357	
8.83	8.83	7036.83	2.971	14.383	
8.84	8.84	7036.84	2.977	14.409	
<b>8.85</b>	<b>8.85</b>	<b>7036.85</b>	<b>2.982</b>	<b>14.435</b>	
8.86	8.86	7036.86	2.988	14.460	
8.87	8.87	7036.87	2.993	14.486	
8.88	8.88	7036.88	2.999	14.512	
8.89	8.89	7036.89	3.004	14.537	
<b>8.90</b>	<b>8.90</b>	<b>7036.90</b>	<b>3.010</b>	<b>14.563</b>	
8.91	8.91	7036.91	3.015	14.589	
8.92	8.92	7036.92	3.021	14.614	
8.93	8.93	7036.93	3.026	14.640	
8.94	8.94	7036.94	3.031	14.666	
<b>8.95</b>	<b>8.95</b>	<b>7036.95</b>	<b>3.037</b>	<b>14.692</b>	
8.96	8.96	7036.96	3.042	14.717	
8.97	8.97	7036.97	3.048	14.743	
8.98	8.98	7036.98	3.053	14.769	
8.99	8.99	7036.99	3.059	14.794	
<b>9.00</b>	<b>9.00</b>	<b>7037.00</b>	<b>3.064</b>	<b>14.820</b>	
9.01	9.01	7037.01	3.070	14.846	
9.02	9.02	7037.02	3.075	14.871	
9.03	9.03	7037.03	3.081	14.897	
9.04	9.04	7037.04	3.086	14.923	

8.59	8.59	7122.59	1.881	7.704	
<b>8.60</b>	<b>8.60</b>	<b>7122.60</b>	<b>1.885</b>	<b>7.720</b>	
8.61	8.61	7122.61	1.890	7.736	
8.62	8.62	7122.62	1.895	7.752	
8.63	8.63	7122.63	1.899	7.768	
8.64	8.64	7122.64	1.904	7.784	
<b>8.65</b>	<b>8.65</b>	<b>7122.65</b>	<b>1.909</b>	<b>7.800</b>	
8.66	8.66	7122.66	1.914	7.816	
8.67	8.67	7122.67	1.918	7.832	
8.68	8.68	7122.68	1.923	7.848	
8.69	8.69	7122.69	1.928	7.864	
<b>8.70</b>	<b>8.70</b>	<b>7122.70</b>	<b>1.933</b>	<b>7.880</b>	
8.71	8.71	7122.71	1.937	7.896	
8.72	8.72	7122.72	1.942	7.912	
8.73	8.73	7122.73	1.947	7.928	
8.74	8.74	7122.74	1.952	7.944	
<b>8.75</b>	<b>8.75</b>	<b>7122.75</b>	<b>1.956</b>	<b>7.960</b>	
8.76	8.76	7122.76	1.961	7.976	
8.77	8.77	7122.77	1.966	7.992	
8.78	8.78	7122.78	1.970	8.008	
8.79	8.79	7122.79	1.975	8.024	
<b>8.80</b>	<b>8.80</b>	<b>7122.80</b>	<b>1.980</b>	<b>8.040</b>	
8.81	8.81	7122.81	1.985	8.056	
8.82	8.82	7122.82	1.989	8.072	
8.83	8.83	7122.83	1.994	8.088	
8.84	8.84	7122.84	1.999	8.104	
<b>8.85</b>	<b>8.85</b>	<b>7122.85</b>	<b>2.004</b>	<b>8.120</b>	
8.86	8.86	7122.86	2.008	8.136	
8.87	8.87	7122.87	2.013	8.152	
8.88	8.88	7122.88	2.018	8.168	
8.89	8.89	7122.89	2.022	8.184	
<b>8.90</b>	<b>8.90</b>	<b>7122.90</b>	<b>2.027</b>	<b>8.200</b>	
8.91	8.91	7122.91	2.032	8.216	
8.92	8.92	7122.92	2.037	8.232	
8.93	8.93	7122.93	2.041	8.248	
8.94	8.94	7122.94	2.046	8.264	
<b>8.95</b>	<b>8.95</b>	<b>7122.95</b>	<b>2.051</b>	<b>8.280</b>	
8.96	8.96	7122.96	2.056	8.296	
8.97	8.97	7122.97	2.060	8.312	
8.98	8.98	7122.98	2.065	8.328	
8.99	8.99	7122.99	2.070	8.344	
<b>9.00</b>	<b>9.00</b>	<b>7123.00</b>	<b>2.075</b>	<b>8.360</b>	
9.01	9.01	7123.01	2.079	8.376	
9.02	9.02	7123.02	2.084	8.392	
9.03	9.03	7123.03	2.089	8.408	
9.04	9.04	7123.04	2.093	8.424	

<b>9.05</b>	<b>9.05</b>	<b>7037.05</b>	<b>3.092</b>	<b>14.949</b>	
9.06	9.06	7037.06	3.097	14.974	
9.07	9.07	7037.07	3.103	15.000	
9.08	9.08	7037.08	3.108	15.026	
9.09	9.09	7037.09	3.114	15.051	
<b>9.10</b>	<b>9.10</b>	<b>7037.10</b>	<b>3.119</b>	<b>15.077</b>	
9.11	9.11	7037.11	3.125	15.103	
9.12	9.12	7037.12	3.130	15.128	
9.13	9.13	7037.13	3.136	15.154	
9.14	9.14	7037.14	3.141	15.180	
<b>9.15</b>	<b>9.15</b>	<b>7037.15</b>	<b>3.147</b>	<b>15.206</b>	
9.16	9.16	7037.16	3.152	15.231	
9.17	9.17	7037.17	3.158	15.257	
9.18	9.18	7037.18	3.163	15.283	
9.19	9.19	7037.19	3.168	15.308	
<b>9.20</b>	<b>9.20</b>	<b>7037.20</b>	<b>3.174</b>	<b>15.334</b>	
9.21	9.21	7037.21	3.179	15.360	
9.22	9.22	7037.22	3.185	15.385	
9.23	9.23	7037.23	3.190	15.411	
9.24	9.24	7037.24	3.196	15.437	
<b>9.25</b>	<b>9.25</b>	<b>7037.25</b>	<b>3.201</b>	<b>15.463</b>	
9.26	9.26	7037.26	3.207	15.488	
9.27	9.27	7037.27	3.212	15.514	
9.28	9.28	7037.28	3.218	15.540	
9.29	9.29	7037.29	3.223	15.565	
<b>9.30</b>	<b>9.30</b>	<b>7037.30</b>	<b>3.229</b>	<b>15.591</b>	
9.31	9.31	7037.31	3.234	15.617	
9.32	9.32	7037.32	3.240	15.642	
9.33	9.33	7037.33	3.245	15.668	
9.34	9.34	7037.34	3.251	15.694	
<b>9.35</b>	<b>9.35</b>	<b>7037.35</b>	<b>3.256</b>	<b>15.720</b>	
9.36	9.36	7037.36	3.262	15.745	
9.37	9.37	7037.37	3.267	15.771	
9.38	9.38	7037.38	3.273	15.797	
9.39	9.39	7037.39	3.278	15.822	
<b>9.40</b>	<b>9.40</b>	<b>7037.40</b>	<b>3.284</b>	<b>15.848</b>	
9.41	9.41	7037.41	3.289	15.874	
9.42	9.42	7037.42	3.295	15.899	
9.43	9.43	7037.43	3.300	15.925	
9.44	9.44	7037.44	3.305	15.951	
<b>9.45</b>	<b>9.45</b>	<b>7037.45</b>	<b>3.311</b>	<b>15.977</b>	
9.46	9.46	7037.46	3.316	16.002	
9.47	9.47	7037.47	3.322	16.028	
9.48	9.48	7037.48	3.327	16.054	
9.49	9.49	7037.49	3.333	16.079	
<b>9.50</b>	<b>9.50</b>	<b>7037.50</b>	<b>3.338</b>	<b>16.105</b>	

<b>9.05</b>	<b>9.05</b>	<b>7123.05</b>	<b>2.098</b>	<b>8.440</b>	
9.06	9.06	7123.06	2.103	8.456	
9.07	9.07	7123.07	2.108	8.472	
9.08	9.08	7123.08	2.112	8.488	
9.09	9.09	7123.09	2.117	8.504	
<b>9.10</b>	<b>9.10</b>	<b>7123.10</b>	<b>2.122</b>	<b>8.520</b>	
9.11	9.11	7123.11	2.127	8.536	
9.12	9.12	7123.12	2.131	8.552	
9.13	9.13	7123.13	2.136	8.568	
9.14	9.14	7123.14	2.141	8.584	
<b>9.15</b>	<b>9.15</b>	<b>7123.15</b>	<b>2.145</b>	<b>8.600</b>	
9.16	9.16	7123.16	2.150	8.616	
9.17	9.17	7123.17	2.155	8.632	
9.18	9.18	7123.18	2.160	8.648	
9.19	9.19	7123.19	2.164	8.664	
<b>9.20</b>	<b>9.20</b>	<b>7123.20</b>	<b>2.169</b>	<b>8.680</b>	
9.21	9.21	7123.21	2.174	8.696	
9.22	9.22	7123.22	2.179	8.712	
9.23	9.23	7123.23	2.183	8.728	
9.24	9.24	7123.24	2.188	8.744	
<b>9.25</b>	<b>9.25</b>	<b>7123.25</b>	<b>2.193</b>	<b>8.760</b>	
9.26	9.26	7123.26	2.197	8.776	
9.27	9.27	7123.27	2.202	8.792	
9.28	9.28	7123.28	2.207	8.808	
9.29	9.29	7123.29	2.212	8.824	
<b>9.30</b>	<b>9.30</b>	<b>7123.30</b>	<b>2.216</b>	<b>8.840</b>	
9.31	9.31	7123.31	2.221	8.856	
9.32	9.32	7123.32	2.226	8.872	
9.33	9.33	7123.33	2.231	8.888	
9.34	9.34	7123.34	2.235	8.904	
<b>9.35</b>	<b>9.35</b>	<b>7123.35</b>	<b>2.240</b>	<b>8.920</b>	
9.36	9.36	7123.36	2.245	8.936	
9.37	9.37	7123.37	2.250	8.952	
9.38	9.38	7123.38	2.254	8.968	
9.39	9.39	7123.39	2.259	8.984	
<b>9.40</b>	<b>9.40</b>	<b>7123.40</b>	<b>2.264</b>	<b>9.000</b>	
9.41	9.41	7123.41	2.268	9.016	
9.42	9.42	7123.42	2.273	9.032	
9.43	9.43	7123.43	2.278	9.048	
9.44	9.44	7123.44	2.283	9.064	
<b>9.45</b>	<b>9.45</b>	<b>7123.45</b>	<b>2.287</b>	<b>9.080</b>	
9.46	9.46	7123.46	2.292	9.096	
9.47	9.47	7123.47	2.297	9.112	
9.48	9.48	7123.48	2.302	9.128	
9.49	9.49	7123.49	2.306	9.144	
<b>9.50</b>	<b>9.50</b>	<b>7123.50</b>	<b>2.311</b>	<b>9.160</b>	

9.51	9.51	7037.51	3.344	16.131	
9.52	9.52	7037.52	3.349	16.156	
9.53	9.53	7037.53	3.355	16.182	
9.54	9.54	7037.54	3.360	16.208	
<b>9.55</b>	<b>9.55</b>	<b>7037.55</b>	<b>3.366</b>	<b>16.234</b>	
9.56	9.56	7037.56	3.371	16.259	
9.57	9.57	7037.57	3.377	16.285	
9.58	9.58	7037.58	3.382	16.311	
9.59	9.59	7037.59	3.388	16.336	
<b>9.60</b>	<b>9.60</b>	<b>7037.60</b>	<b>3.393</b>	<b>16.362</b>	
9.61	9.61	7037.61	3.399	16.388	
9.62	9.62	7037.62	3.404	16.413	
9.63	9.63	7037.63	3.410	16.439	
9.64	9.64	7037.64	3.415	16.465	
<b>9.65</b>	<b>9.65</b>	<b>7037.65</b>	<b>3.421</b>	<b>16.491</b>	
9.66	9.66	7037.66	3.426	16.516	
9.67	9.67	7037.67	3.432	16.542	
9.68	9.68	7037.68	3.437	16.568	
9.69	9.69	7037.69	3.442	16.593	
<b>9.70</b>	<b>9.70</b>	<b>7037.70</b>	<b>3.448</b>	<b>16.619</b>	
9.71	9.71	7037.71	3.453	16.645	
9.72	9.72	7037.72	3.459	16.670	
9.73	9.73	7037.73	3.464	16.696	
9.74	9.74	7037.74	3.470	16.722	
<b>9.75</b>	<b>9.75</b>	<b>7037.75</b>	<b>3.475</b>	<b>16.748</b>	
9.76	9.76	7037.76	3.481	16.773	
9.77	9.77	7037.77	3.486	16.799	
9.78	9.78	7037.78	3.492	16.825	
9.79	9.79	7037.79	3.497	16.850	
<b>9.80</b>	<b>9.80</b>	<b>7037.80</b>	<b>3.503</b>	<b>16.876</b>	
9.81	9.81	7037.81	3.508	16.902	
9.82	9.82	7037.82	3.514	16.927	
9.83	9.83	7037.83	3.519	16.953	
9.84	9.84	7037.84	3.525	16.979	
<b>9.85</b>	<b>9.85</b>	<b>7037.85</b>	<b>3.530</b>	<b>17.005</b>	
9.86	9.86	7037.86	3.536	17.030	
9.87	9.87	7037.87	3.541	17.056	
9.88	9.88	7037.88	3.547	17.082	
9.89	9.89	7037.89	3.552	17.107	
<b>9.90</b>	<b>9.90</b>	<b>7037.90</b>	<b>3.558</b>	<b>17.133</b>	
9.91	9.91	7037.91	3.563	17.159	
9.92	9.92	7037.92	3.569	17.184	
9.93	9.93	7037.93	3.574	17.210	
9.94	9.94	7037.94	3.579	17.236	
<b>9.95</b>	<b>9.95</b>	<b>7037.95</b>	<b>3.585</b>	<b>17.262</b>	
9.96	9.96	7037.96	3.590	17.287	

9.51	9.51	7123.51	2.316	9.176	
9.52	9.52	7123.52	2.320	9.192	
9.53	9.53	7123.53	2.325	9.208	
9.54	9.54	7123.54	2.330	9.224	
<b>9.55</b>	<b>9.55</b>	<b>7123.55</b>	<b>2.335</b>	<b>9.240</b>	
9.56	9.56	7123.56	2.339	9.256	
9.57	9.57	7123.57	2.344	9.272	
9.58	9.58	7123.58	2.349	9.288	
9.59	9.59	7123.59	2.354	9.304	
<b>9.60</b>	<b>9.60</b>	<b>7123.60</b>	<b>2.358</b>	<b>9.320</b>	
9.61	9.61	7123.61	2.363	9.336	
9.62	9.62	7123.62	2.368	9.352	
9.63	9.63	7123.63	2.372	9.368	
9.64	9.64	7123.64	2.377	9.384	
<b>9.65</b>	<b>9.65</b>	<b>7123.65</b>	<b>2.382</b>	<b>9.400</b>	
9.66	9.66	7123.66	2.387	9.416	
9.67	9.67	7123.67	2.391	9.432	
9.68	9.68	7123.68	2.396	9.448	
9.69	9.69	7123.69	2.401	9.464	
<b>9.70</b>	<b>9.70</b>	<b>7123.70</b>	<b>2.406</b>	<b>9.480</b>	
9.71	9.71	7123.71	2.410	9.496	
9.72	9.72	7123.72	2.415	9.512	
9.73	9.73	7123.73	2.420	9.528	
9.74	9.74	7123.74	2.425	9.544	
<b>9.75</b>	<b>9.75</b>	<b>7123.75</b>	<b>2.429</b>	<b>9.560</b>	
9.76	9.76	7123.76	2.434	9.576	
9.77	9.77	7123.77	2.439	9.592	
9.78	9.78	7123.78	2.443	9.608	
9.79	9.79	7123.79	2.448	9.624	
<b>9.80</b>	<b>9.80</b>	<b>7123.80</b>	<b>2.453</b>	<b>9.640</b>	
9.81	9.81	7123.81	2.458	9.656	
9.82	9.82	7123.82	2.462	9.672	
9.83	9.83	7123.83	2.467	9.688	
9.84	9.84	7123.84	2.472	9.704	
<b>9.85</b>	<b>9.85</b>	<b>7123.85</b>	<b>2.477</b>	<b>9.720</b>	
9.86	9.86	7123.86	2.481	9.736	
9.87	9.87	7123.87	2.486	9.752	
9.88	9.88	7123.88	2.491	9.768	
9.89	9.89	7123.89	2.495	9.784	
<b>9.90</b>	<b>9.90</b>	<b>7123.90</b>	<b>2.500</b>	<b>9.800</b>	
9.91	9.91	7123.91	2.505	9.816	
9.92	9.92	7123.92	2.510	9.832	
9.93	9.93	7123.93	2.514	9.848	
9.94	9.94	7123.94	2.519	9.864	
<b>9.95</b>	<b>9.95</b>	<b>7123.95</b>	<b>2.524</b>	<b>9.880</b>	
9.96	9.96	7123.96	2.529	9.896	

9.97	9.97	7037.97	3.596	17.313	
9.98	9.98	7037.98	3.601	17.339	
9.99	9.99	7037.99	3.607	17.364	
<b>10.00</b>	<b>10.00</b>	<b>7038.00</b>	<b>3.612</b>	<b>17.390</b>	
10.01	10.01	7038.01	3.617	17.426	
10.02	10.02	7038.02	3.623	17.462	
10.03	10.03	7038.03	3.628	17.498	
10.04	10.04	7038.04	3.633	17.534	
10.05	10.05	7038.05	3.638	17.571	
<b>10.06</b>	<b>10.06</b>	<b>7038.06</b>	<b>3.644</b>	<b>17.607</b>	
10.07	10.07	7038.07	3.649	17.643	
10.08	10.08	7038.08	3.654	17.679	
10.09	10.09	7038.09	3.660	17.715	
<b>10.10</b>	<b>10.10</b>	<b>7038.10</b>	<b>3.665</b>	<b>17.751</b>	
10.11	10.11	7038.11	3.670	17.787	
10.12	10.12	7038.12	3.676	17.823	
10.13	10.13	7038.13	3.681	17.859	
10.14	10.14	7038.14	3.686	17.895	
<b>10.15</b>	<b>10.15</b>	<b>7038.15</b>	<b>3.692</b>	<b>17.932</b>	
10.16	10.16	7038.16	3.697	17.968	
10.17	10.17	7038.17	3.702	18.004	
10.18	10.18	7038.18	3.708	18.040	
10.19	10.19	7038.19	3.713	18.076	
<b>10.20</b>	<b>10.20</b>	<b>7038.20</b>	<b>3.718</b>	<b>18.112</b>	
10.21	10.21	7038.21	3.724	18.148	
10.22	10.22	7038.22	3.729	18.184	
10.23	10.23	7038.23	3.734	18.220	
10.24	10.24	7038.24	3.740	18.256	
<b>10.25</b>	<b>10.25</b>	<b>7038.25</b>	<b>3.745</b>	<b>18.293</b>	
10.26	10.26	7038.26	3.750	18.329	
10.27	10.27	7038.27	3.756	18.365	
10.28	10.28	7038.28	3.761	18.401	
10.29	10.29	7038.29	3.766	18.437	
<b>10.30</b>	<b>10.30</b>	<b>7038.30</b>	<b>3.771</b>	<b>18.473</b>	
10.31	10.31	7038.31	3.777	18.509	
10.32	10.32	7038.32	3.782	18.545	
10.33	10.33	7038.33	3.787	18.581	
10.34	10.34	7038.34	3.793	18.617	
<b>10.35</b>	<b>10.35</b>	<b>7038.35</b>	<b>3.798</b>	<b>18.654</b>	
10.36	10.36	7038.36	3.803	18.690	
10.37	10.37	7038.37	3.809	18.726	
10.38	10.38	7038.38	3.814	18.762	
10.39	10.39	7038.39	3.819	18.798	
<b>10.40</b>	<b>10.40</b>	<b>7038.40</b>	<b>3.825</b>	<b>18.834</b>	
10.41	10.41	7038.41	3.830	18.870	
10.42	10.42	7038.42	3.835	18.906	

9.97	9.97	7123.97	2.533	9.912	
9.98	9.98	7123.98	2.538	9.928	
9.99	9.99	7123.99	2.543	9.944	
<b>10.00</b>	<b>10.00</b>	<b>7124.00</b>	<b>2.548</b>	<b>9.960</b>	<b>Dam Crest</b>

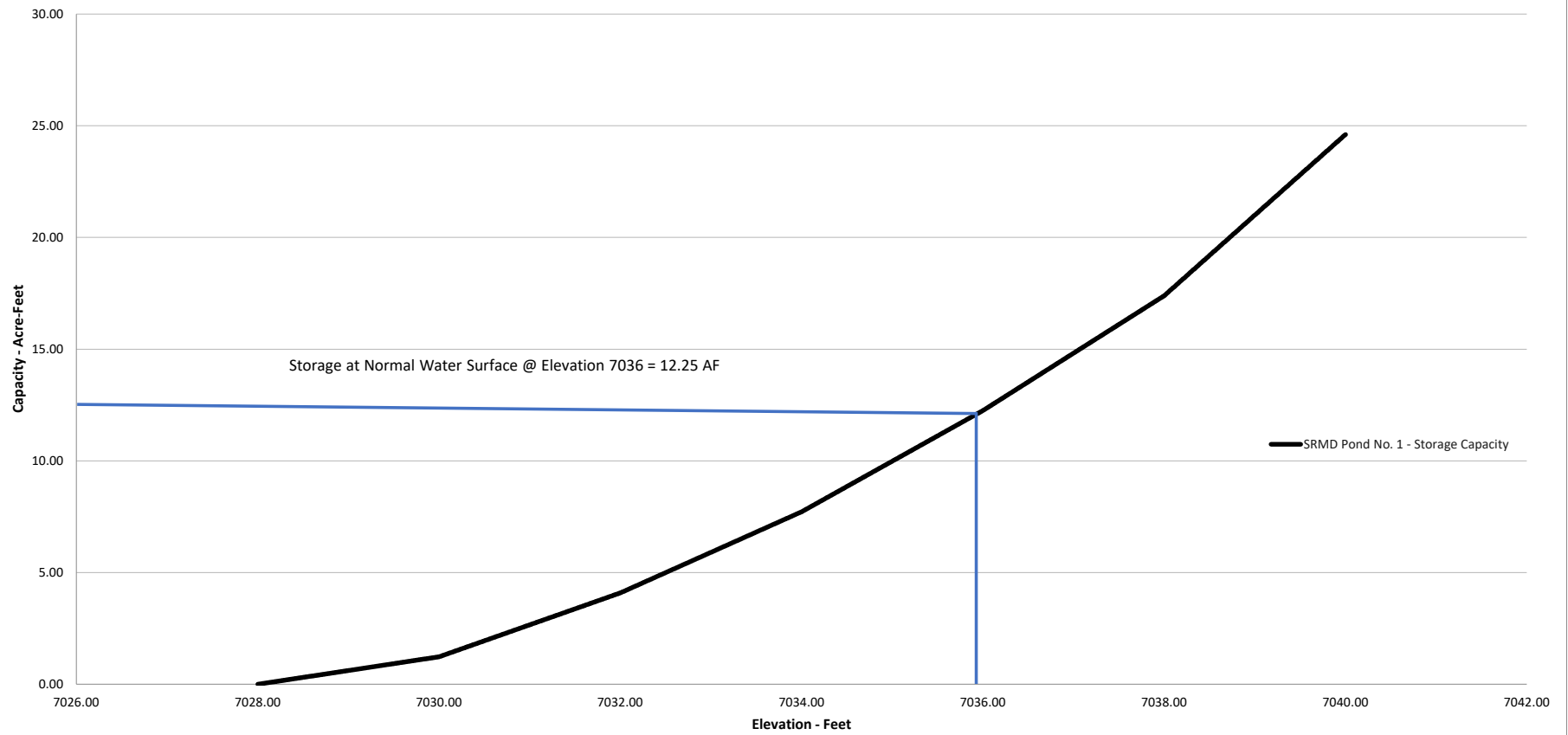
10.43	10.43	7038.43	3.841	18.942	
10.44	10.44	7038.44	3.846	18.978	
<b>10.45</b>	<b>10.45</b>	<b>7038.45</b>	<b>3.851</b>	<b>19.015</b>	
10.46	10.46	7038.46	3.857	19.051	
10.47	10.47	7038.47	3.862	19.087	
10.48	10.48	7038.48	3.867	19.123	
10.49	10.49	7038.49	3.873	19.159	
<b>10.50</b>	<b>10.50</b>	<b>7038.50</b>	<b>3.878</b>	<b>19.195</b>	
10.51	10.51	7038.51	3.883	19.231	
10.52	10.52	7038.52	3.889	19.267	
10.53	10.53	7038.53	3.894	19.303	
10.54	10.54	7038.54	3.899	19.339	
<b>10.55</b>	<b>10.55</b>	<b>7038.55</b>	<b>3.904</b>	<b>19.376</b>	
10.56	10.56	7038.56	3.910	19.412	
10.57	10.57	7038.57	3.915	19.448	
10.58	10.58	7038.58	3.920	19.484	
10.59	10.59	7038.59	3.926	19.520	
<b>10.60</b>	<b>10.60</b>	<b>7038.60</b>	<b>3.931</b>	<b>19.556</b>	
10.61	10.61	7038.61	3.936	19.592	
10.62	10.62	7038.62	3.942	19.628	
10.63	10.63	7038.63	3.947	19.664	
10.64	10.64	7038.64	3.952	19.700	
<b>10.65</b>	<b>10.65</b>	<b>7038.65</b>	<b>3.958</b>	<b>19.737</b>	
10.66	10.66	7038.66	3.963	19.773	
10.67	10.67	7038.67	3.968	19.809	
10.68	10.68	7038.68	3.974	19.845	
10.69	10.69	7038.69	3.979	19.881	
<b>10.70</b>	<b>10.70</b>	<b>7038.70</b>	<b>3.984</b>	<b>19.917</b>	
10.71	10.71	7038.71	3.990	19.953	
10.72	10.72	7038.72	3.995	19.989	
10.73	10.73	7038.73	4.000	20.025	
10.74	10.74	7038.74	4.006	20.061	
<b>10.75</b>	<b>10.75</b>	<b>7038.75</b>	<b>4.011</b>	<b>20.098</b>	
10.76	10.76	7038.76	4.016	20.134	
10.77	10.77	7038.77	4.022	20.170	
10.78	10.78	7038.78	4.027	20.206	
10.79	10.79	7038.79	4.032	20.242	
<b>10.80</b>	<b>10.80</b>	<b>7038.80</b>	<b>4.037</b>	<b>20.278</b>	
10.81	10.81	7038.81	4.043	20.314	
10.82	10.82	7038.82	4.048	20.350	
10.83	10.83	7038.83	4.053	20.386	
10.84	10.84	7038.84	4.059	20.422	
<b>10.85</b>	<b>10.85</b>	<b>7038.85</b>	<b>4.064</b>	<b>20.459</b>	
10.86	10.86	7038.86	4.069	20.495	
10.87	10.87	7038.87	4.075	20.531	
10.88	10.88	7038.88	4.080	20.567	

10.89	10.89	7038.89	4.085	20.603	
<b>10.90</b>	<b>10.90</b>	<b>7038.90</b>	<b>4.091</b>	<b>20.639</b>	
10.91	10.91	7038.91	4.096	20.675	
10.92	10.92	7038.92	4.101	20.711	
10.93	10.93	7038.93	4.107	20.747	
10.94	10.94	7038.94	4.112	20.783	
<b>10.95</b>	<b>10.95</b>	<b>7038.95</b>	<b>4.117</b>	<b>20.820</b>	
10.96	10.96	7038.96	4.123	20.856	
10.97	10.97	7038.97	4.128	20.892	
10.98	10.98	7038.98	4.133	20.928	
10.99	10.99	7038.99	4.139	20.964	
<b>11.00</b>	<b>11.00</b>	<b>7039.00</b>	<b>4.144</b>	<b>21.000</b>	
11.01	11.01	7039.01	4.149	21.036	
11.02	11.02	7039.02	4.155	21.072	
11.03	11.03	7039.03	4.160	21.108	
11.04	11.04	7039.04	4.165	21.144	
<b>11.05</b>	<b>11.05</b>	<b>7039.05</b>	<b>4.170</b>	<b>21.181</b>	
11.06	11.06	7039.06	4.176	21.217	
11.07	11.07	7039.07	4.181	21.253	
11.08	11.08	7039.08	4.186	21.289	
11.09	11.09	7039.09	4.192	21.325	
<b>11.10</b>	<b>11.10</b>	<b>7039.10</b>	<b>4.197</b>	<b>21.361</b>	
11.11	11.11	7039.11	4.202	21.397	
11.12	11.12	7039.12	4.208	21.433	
11.13	11.13	7039.13	4.213	21.469	
11.14	11.14	7039.14	4.218	21.505	
<b>11.15</b>	<b>11.15</b>	<b>7039.15</b>	<b>4.224</b>	<b>21.542</b>	
11.16	11.16	7039.16	4.229	21.578	
11.17	11.17	7039.17	4.234	21.614	
11.18	11.18	7039.18	4.240	21.650	
11.19	11.19	7039.19	4.245	21.686	
<b>11.20</b>	<b>11.20</b>	<b>7039.20</b>	<b>4.250</b>	<b>21.722</b>	
11.21	11.21	7039.21	4.256	21.758	
11.22	11.22	7039.22	4.261	21.794	
11.23	11.23	7039.23	4.266	21.830	
11.24	11.24	7039.24	4.272	21.866	
<b>11.25</b>	<b>11.25</b>	<b>7039.25</b>	<b>4.277</b>	<b>21.903</b>	
11.26	11.26	7039.26	4.282	21.939	
11.27	11.27	7039.27	4.288	21.975	
11.28	11.28	7039.28	4.293	22.011	
11.29	11.29	7039.29	4.298	22.047	
<b>11.30</b>	<b>11.30</b>	<b>7039.30</b>	<b>4.303</b>	<b>22.083</b>	
11.31	11.31	7039.31	4.309	22.119	
11.32	11.32	7039.32	4.314	22.155	
11.33	11.33	7039.33	4.319	22.191	
11.34	11.34	7039.34	4.325	22.227	

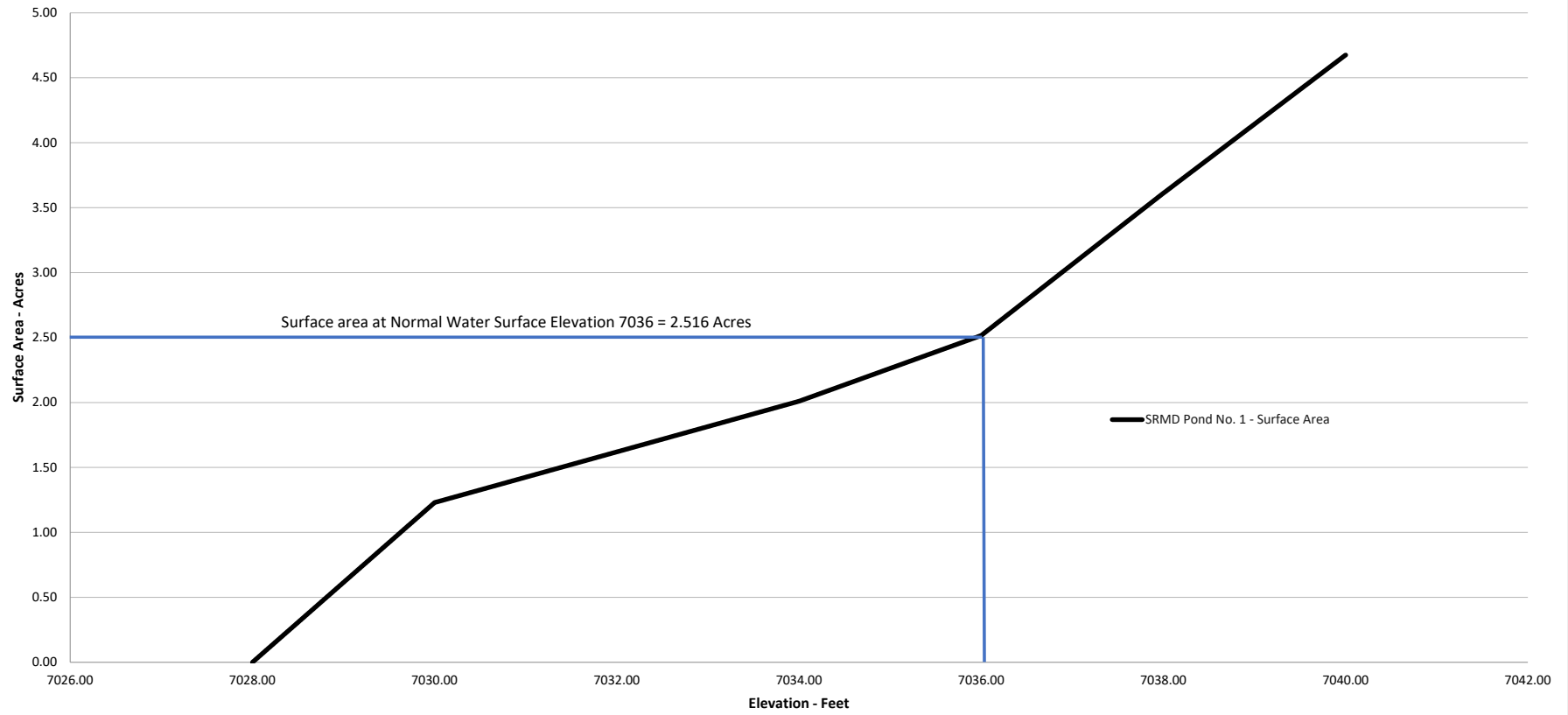
<b>11.35</b>	<b>11.35</b>	<b>7039.35</b>	<b>4.330</b>	<b>22.264</b>	
11.36	11.36	7039.36	4.335	22.300	
11.37	11.37	7039.37	4.341	22.336	
11.38	11.38	7039.38	4.346	22.372	
11.39	11.39	7039.39	4.351	22.408	
<b>11.40</b>	<b>11.40</b>	<b>7039.40</b>	<b>4.357</b>	<b>22.444</b>	
11.41	11.41	7039.41	4.362	22.480	
11.42	11.42	7039.42	4.367	22.516	
11.43	11.43	7039.43	4.373	22.552	
11.44	11.44	7039.44	4.378	22.588	
<b>11.45</b>	<b>11.45</b>	<b>7039.45</b>	<b>4.383</b>	<b>22.625</b>	
11.46	11.46	7039.46	4.389	22.661	
11.47	11.47	7039.47	4.394	22.697	
11.48	11.48	7039.48	4.399	22.733	
11.49	11.49	7039.49	4.405	22.769	
<b>11.50</b>	<b>11.50</b>	<b>7039.50</b>	<b>4.410</b>	<b>22.805</b>	
11.51	11.51	7039.51	4.415	22.841	
11.52	11.52	7039.52	4.421	22.877	
11.53	11.53	7039.53	4.426	22.913	
11.54	11.54	7039.54	4.431	22.949	
<b>11.55</b>	<b>11.55</b>	<b>7039.55</b>	<b>4.436</b>	<b>22.986</b>	
11.56	11.56	7039.56	4.442	23.022	
11.57	11.57	7039.57	4.447	23.058	
11.58	11.58	7039.58	4.452	23.094	
11.59	11.59	7039.59	4.458	23.130	
<b>11.60</b>	<b>11.60</b>	<b>7039.60</b>	<b>4.463</b>	<b>23.166</b>	
11.61	11.61	7039.61	4.468	23.202	
11.62	11.62	7039.62	4.474	23.238	
11.63	11.63	7039.63	4.479	23.274	
11.64	11.64	7039.64	4.484	23.310	
<b>11.65</b>	<b>11.65</b>	<b>7039.65</b>	<b>4.490</b>	<b>23.347</b>	
11.66	11.66	7039.66	4.495	23.383	
11.67	11.67	7039.67	4.500	23.419	
11.68	11.68	7039.68	4.506	23.455	
11.69	11.69	7039.69	4.511	23.491	
<b>11.70</b>	<b>11.70</b>	<b>7039.70</b>	<b>4.516</b>	<b>23.527</b>	
11.71	11.71	7039.71	4.522	23.563	
11.72	11.72	7039.72	4.527	23.599	
11.73	11.73	7039.73	4.532	23.635	
11.74	11.74	7039.74	4.538	23.671	
<b>11.75</b>	<b>11.75</b>	<b>7039.75</b>	<b>4.543</b>	<b>23.708</b>	
11.76	11.76	7039.76	4.548	23.744	
11.77	11.77	7039.77	4.554	23.780	
11.78	11.78	7039.78	4.559	23.816	
11.79	11.79	7039.79	4.564	23.852	
<b>11.80</b>	<b>11.80</b>	<b>7039.80</b>	<b>4.569</b>	<b>23.888</b>	

11.81	11.81	7039.81	4.575	23.924	
11.82	11.82	7039.82	4.580	23.960	
11.83	11.83	7039.83	4.585	23.996	
11.84	11.84	7039.84	4.591	24.032	
<b>11.85</b>	<b>11.85</b>	<b>7039.85</b>	<b>4.596</b>	<b>24.069</b>	
11.86	11.86	7039.86	4.601	24.105	
11.87	11.87	7039.87	4.607	24.141	
11.88	11.88	7039.88	4.612	24.177	
11.89	11.89	7039.89	4.617	24.213	
<b>11.90</b>	<b>11.90</b>	<b>7039.90</b>	<b>4.623</b>	<b>24.249</b>	
11.91	11.91	7039.91	4.628	24.285	
11.92	11.92	7039.92	4.633	24.321	
11.93	11.93	7039.93	4.639	24.357	
11.94	11.94	7039.94	4.644	24.393	
11.95	11.95	7039.95	<b>4.649</b>	<b>24.430</b>	
11.96	11.96	7039.96	4.655	24.466	
11.97	11.97	7039.97	4.660	24.502	
11.98	11.98	7039.98	4.665	24.538	
11.99	11.99	7039.99	4.671	24.574	
<b>12.00</b>	<b>12.00</b>	<b>7040.00</b>	<b>4.676</b>	<b>24.600</b>	<b>Dam Crest</b>

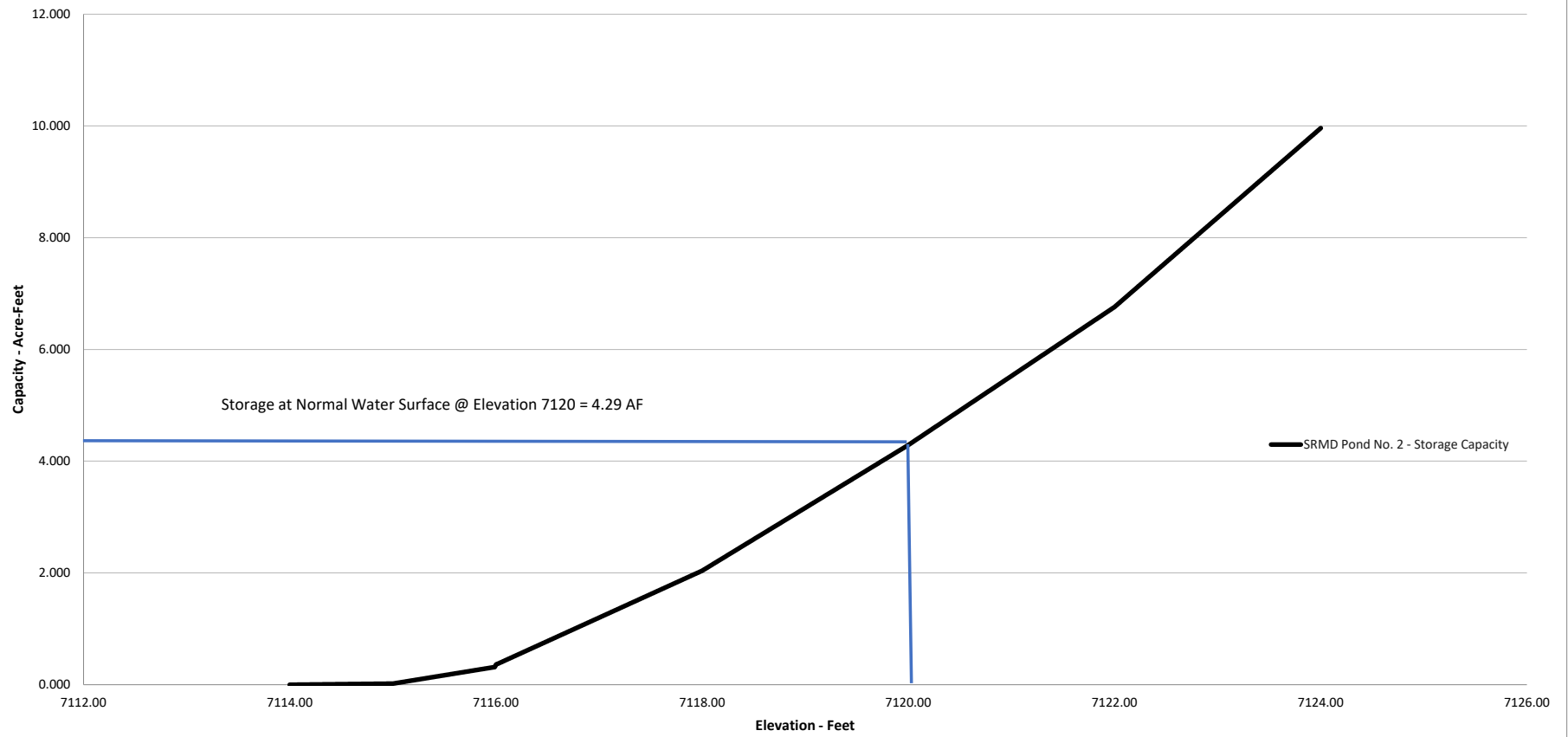
SRMD Pond No. 1 - Capacity



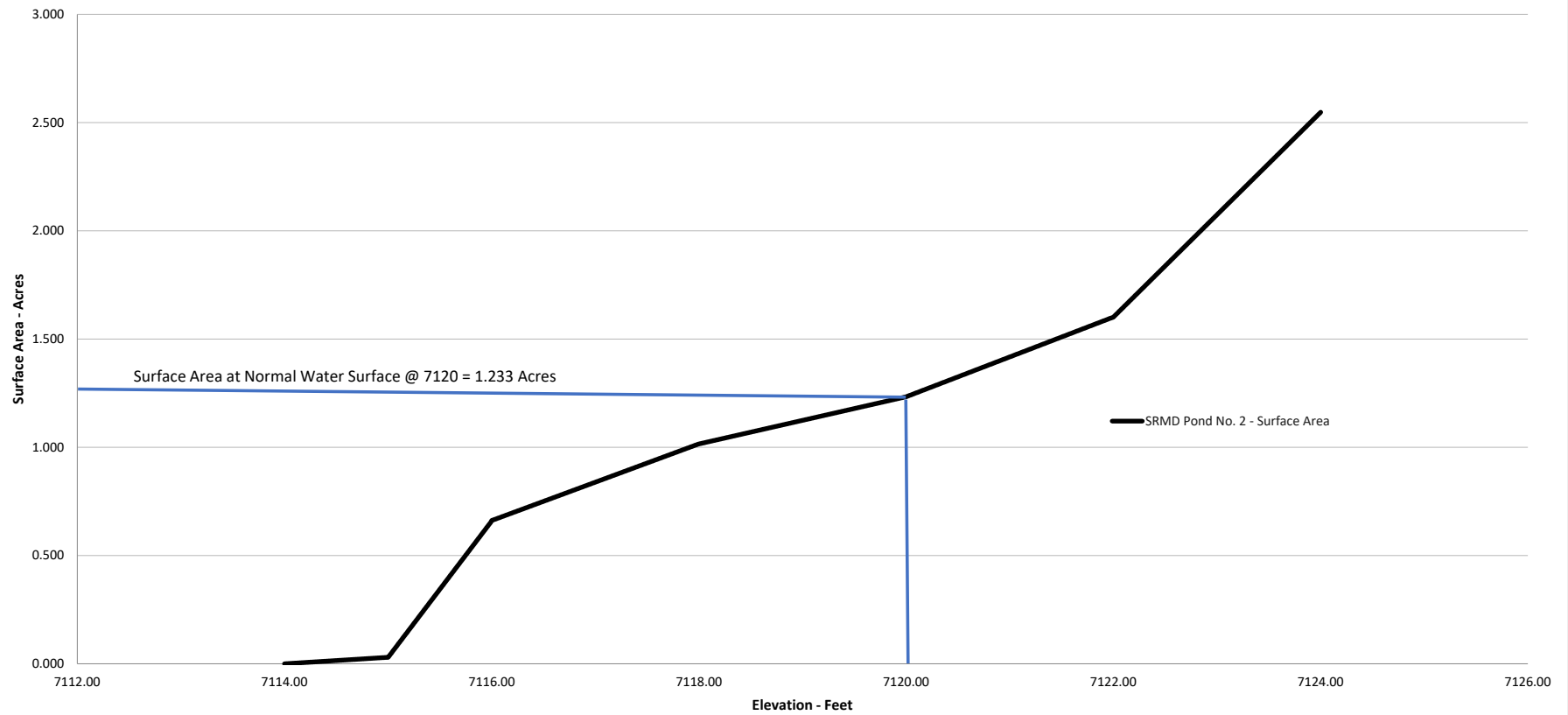
SRMD Pond No. 1 - Surface Area



SRMD Pond No. 2 - Storage Capacity



SRMD Pond No. 2 - Surface Area



DISTRICT COURT, WATER DIVISION 1, COLORADO

Case No. 93-CW-018  
(85CW445)

**RULING AND DECREE OF THE WATER COURT**

CONCERNING THE WATER RIGHTS OF NHK GROUP, LTD., a Colorado Limited Partnership,

IN THE NONTRIBUTARY DENVER, ARAPAHOE, AND LARAMIE-FOX HILLS AQUIFERS AND THE NOT NONTRIBUTARY UPPER DAWSON AQUIFER, in El Paso County.

THIS CLAIM to amend the existing decree in Case No. 85-CW-445, entered on December 12, 1988, was filed with the Water Division Water Clerk on February 26, 1993. This ruling and decree is designed to amend such existing decree, and paragraph numbers below correspond with the paragraph numbers in the original decree. All matters contained in the application having been reviewed, and testimony having been taken where such testimony is necessary, and such corrections made as are indicated by the evidence presented herein, IT IS HEREBY THE RULING OF THE WATER REFEREE:

**FINDINGS OF FACT**

1. Name, Address, and Telephone Number of Applicant:

NHK Group, Ltd., a Colorado Limited Partnership  
N.B. Firley, General Partner  
7111 West Alameda Avenue, Unit L  
Lakewood, Colorado 80226

2. History of Case:

The Applicant is represented in this matter by Duncan, Ostrander & Dingess, P.C. (Robert E. Schween). The original application for underground water rights underlying the property described herein was filed with this Court of December 31, 1985. An amended application for underground water rights from nontributary and not nontributary sources was filed with this Court on March 31, 1987 and published in the March 1987 Water Resume for Water Division 1. A timely statement of opposition was filed to the amended application by the City of Colorado Springs (Gregory L. Johnson). A decree in Case No. 85-CW-445 was entered on December 12, 1988. An application to amend the decree was filed on February 26, 1993, by NHK Group, Ltd., (1) to change the ownership of the land and ground water rights decreed, (2) to indicate additional well sites in each aquifer, and (3) to vacate from the decree 60 acre-feet per year of Dawson aquifer ground water underlying a particular parcel. The City of Colorado Springs also filed a statement of opposition to this amended application (Wm. Kelly Dade). No other statements of

**CENTRAL FILES**

opposition or motions to intervene have been filed, and the time for filing such statements of opposition has expired.

3. Subject Matter Jurisdiction:

Timely and adequate notice of the pendency of these proceedings has been given in the manner required by law. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties, whether they have appeared or not.

4. Aquifers and Location of Ground Water:

a. In this proceeding, Applicant seeks an amended decree confirming all previously decreed rights to all ground water recoverable from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers and the not nontributary Dawson aquifer, except as stated below, underlying Applicant's property in El Paso County, Colorado. The Applicant's property is described as follows: all of Section 16; the E1/2 of SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21, all in Township 11 South, Range 65 West of the 6th P.M., consisting of 1840 acres, more or less. Applicant is the owner of the ground water rights underlying the above described land and no part of such land lies within a designated ground water basin. A general location map of the property is attached hereto as Exhibit "A."

b. Applicant seeks to vacate from the decree, as amended, the rights in 60 acre-feet per year in the Dawson aquifer, which 60 acre-feet per year shall be vacated from those Dawson aquifer ground water rights underlying a specified 480 acres of land, generally described as the W1/2 and the NE 1/4 of Section 21, Township 11 South, Range 65 West of the 6th P.M. Such land area, underlying which the 60 acre-feet per year has been vacated from the decree, is shown in the attached annotated location map, Exhibit "B."

5. Specific Wells Claimed:

The legal descriptions of the wells to be constructed under this decree, as amended, are as follows. Wells and well locations originally decreed in Case No. 85-CW-445 are shown with the suffix (A), and new wells and well locations pursuant to this application to amend such decree are indicated below by the suffix (B). All well locations are in Township 11 South, Range 65 West of the 6th P.M., in El Paso County, Colorado.

a. Dawson Aquifer:

<u>Well No.</u>	<u>Quarter/Quarter</u>	<u>Section No.</u>	<u>Feet From Section Line</u>	
DA-01(A)	SW,NE	16	2200 N	2200 E
DA-02(A)	NE,SE	17	1500 S	500 E
DA-03(A)	NW,NE	21	800 N	2200 E
DA-04(A)	NW,SW	21	1500 S	400 W
DA-01(B)	NW,NW	16	170 N	170 W
DA-02(B)	NE,NE	16	170 N	170 E
DA-03(B)	SW,NE	16	2640 N	2710 W
DA-04(B)	SW,SW	15	4200 N	170 W
DA-05(B)	SE,SE	16	3970 N	170 E
DA-06(B)	SW,NE	21	2310 N	1570 E
DA-07(B)	NE,SE	20	2630 N	170 E
DA-08(B)	SE,SW	21	270 S	2370 W
DA-09(B)	NE,SW	17	2479 S	1490 W
DA-10(B)	SE,NW	20	1570 N	1670 W
DA-11(B)	SE,SW	20	170 S	1570 W

b. Dwyer Aquifer:

<u>Well No.</u>	<u>Quarter/Quarter</u>	<u>Section</u>	<u>Feet From Section Line</u>	
D-01(A)	SW,NE	16	2000 N	2150 E
D-02(A)	NE,SE	17	1500 S	450 E
D-03(A)	NW,NE	21	800 N	2150 E
D-04(A)	NW,SW	21	1500 S	450 W
D-01(B)	NW,NW	16	100 N	100 W
D-02(B)	NE,NE	16	100 N	100 E
D-03(B)	NE,SW	16	2710 N	2640 W
D-04(B)	SW,SW	16	4270 N	100 W
D-05(B)	NE,SE	16	3900 N	100 E
D-06(B)	SW,NE	21	2240 N	1500 E
D-07(B)	NE,SE	20	2900 N	100 E
D-08(B)	SE,SW	21	200 S	2440 W
D-09(B)	NE,SW	17	2540 S	1420 W
D-10(B)	SE,NW	20	1500 N	1600 W
D-11(B)	SE,SW	20	100 S	1500 W

c. Artesian Aquifer:

Well No.	Quarter/Quarter	Section	Feet From Section Line	
A-01(A)	SW,NE	16	2050 N	2200 E
A-02(A)	NE,SE	17	1450 S	500 E
A-03(A)	NW,NE	21	850 N	2200 E
A-04(A)	NW,SW	21	1450 S	400 W
A-05(A)	SW,NE	20	1500 N	2500 E
A-01(B)	NW,NW	16	100 N	170 W
A-02(B)	NE,NE	16	100 N	170 E
A-03(B)	Center Point	16	2640 N	2640 W
A-04(B)	SW,SW	16	4200 N	100 W
A-05(B)	NE,SE	16	3900 N	170 E
A-06(B)	SW,NE	21	2240 N	1570 E
A-07(B)	NE,SE	20	2830 N	100 E
A-08(B)	SE,SW	21	270 S	2440 W
A-09(B)	NE,SW	17	2540 S	1480 W
A-10(B)	SE,NW	20	1500 N	1670 W
A-11(B)	SE,SW	20	170 S	1500 W

d. Laramie-Fox Hills Aquifer:

Well No.	Quarter/Quarter	Section	Feet From Section Line	
LFH-01(A)	SW,NE	16	2050 N	2150 E
LFH-02(A)	NE,SE	17	1450 S	450 E
LFH-03(A)	NW,NE	21	850 N	2150 E
LFH-04(A)	NW,SW	21	1450 S	450 W
LFH-01(B)	NW,NW	16	170 N	100 W
LFH-02(B)	NE,NE	16	170 N	100 E
LFH-03(B)	NE,SW	16	2710 N	2170 W
LFH-04(B)	SW,SW	16	4270 N	170 W
LFH-05(B)	NE,SE	16	3970 N	100 E
LFH-06(B)	SW,NE	21	2310 N	1500 E
LFH-07(B)	NE,SE	20	2910 N	170 E
LFH-08(B)	SE,SW	21	200 S	2370 W
LFH-09(B)	NE,SW	17	2470 S	1420 W
LFH-10(B)	SE,NW	20	1570 N	1600 W
LFH-11(B)	SE,SW	20	100 S	1570 W

7. Average Annual Amounts of Withdrawal Available:

a. Not Nontributary Dawson Aquifer:

Pursuant to the Denver Basin Rules, the ground water in the Dawson aquifer underlying Applicant's property is classified as not nontributary ground water. The hydrologic values and the average annual amount available for withdrawal from the Dawson aquifer are as follows:

Upper Dawson Aquifer

<u>Acres</u>	<u>Sand Thickness</u>	<u>Specified Yield</u>	<u>Average Annual Amt. in Acre-Feet</u>
1840	490 feet	.20%	1743*

(1) The above average annual amount reflects a reduction of 60 acre-feet per year from the amount indicated in the original decree. Such 60 acre-feet per year is vacated from and no longer part of this decree, as amended.

(2) By separate Stipulation, Applicant and Objector City of Colorado Springs, have agreed that any and all exempt wells which may be applied for or issued to overlying landowners shall be limited to production from the Dawson aquifer. Such Stipulation, dated July 22, 1993, is incorporated herein by this reference, and attached hereto as Exhibit "C".

b. Nontributary Denver, Arapahoe, and Laramie-Fox Hills Aquifers:

Values and average annual amounts for the Denver, Arapahoe, and Laramie-Fox Hills aquifers underlying Applicant's property remain as stated in the existing Decree.

CONCLUSIONS OF LAW

16. The rights to nontributary and not nontributary ground water determined herein shall not be administered in accordance with priority of appropriation. Such rights are not "conditional water rights" as defined by § 37-92-10(6), C.R.S. The provisions of § 37-92-301(4), C.R.S., requiring findings of reasonable diligence are not applicable to the ground water rights determined herein. The determination of ground water rights herein need not include a date of initiation of the withdrawal project. See § 37-92-305(11), C.R.S. Ground water herein which is not nontributary shall be administered only pursuant to §§ 37-90-137(4) and 37-90-137(9), C.R.S.

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Wt. Ets. of NIK GROUP, Inc.  
Case No. 93-CW-018 (85CW445)  
SEP 07 1993  
STATE ENGINEER  
Page 3

17. Subject to paragraph 20 below, Applicant is entitled to permits to construct the wells described in paragraph 5 hereof which will withdraw nontributary and not nontributary ground water pursuant to § 37-90-137(4), C.R.S., and such additional wells as may be required in the future to withdraw such ground water pursuant to § 37-90-137(10), C.R.S.

**IT IS THEREFORE ORDERED, ADJUDGED, AND DECREED THAT:**

22. All provisions of the original decree in this matter, Case No. 85-CW-445, remain in effect unless specifically amended hereby.

RULING ENTERED this 11th day of August, 1993.

By Raymond S. Liesman  
Raymond S. Liesman  
Water Referee, Water Division 1  
State of Colorado

THE COURT DOETH FIND THAT NO PROTEST TO THE RULING OF THE REFEREE HAS BEEN FILED. THE FOREGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

DATED: AUG 31 1993

BY THE COURT:

Robert K. Behrman  
Robert K. Behrman  
Water Judge, Water Division 1  
State of Colorado

CENTRAL FILES

Wt. Rts. of NIK Group, Ltd.  
Case No. 93-CW-018 (85CW445)  
Page 7

APPROVED AS TO FORM AND CONTENT:

DUNCAN, OSTRANDER & DINGESS, P.C.

Date: Aug. 2, 1993

By: *Robert E. Schween*

Robert E. Schween, #12923  
7800 East Union Avenue, Suite 200  
Denver, Colorado 80237  
Telephone: (303) 779-0200

ATTORNEYS FOR APPLICANT  
NIK GROUP, LTD.

ANDERSON, JOHNSON & GIANUNZIO

Date: July 22, 1993

By: *See Declaration Attached as Exhibit "C"*

Mark T. Filber, #13629  
William Kelly Duda, #13208  
104 South Cascade Avenue, Suite 204  
P. O. Box 240  
Colorado Springs, Colorado 80901-0240  
Telephone: (719) 632-3545

ATTORNEYS FOR OBJECTOR  
CITY OF COLORADO SPRINGS

a: 93-CW-018A.DEC

DISTRICT COURT, WATER DIVISION 1, COLORADO

Case No. 93-CW-018 (35 CW-445)

RECEIVED  
MAR 21 1995

FILED IN  
DISTRICT COURT  
WATER DIV. 1  
WELD CO. COLO.

MAR 21 1995

WATER RESOURCES  
STATE ENGINEER

**AMENDED RULING AND DECREE OF THE WATER COURT**

CONCERNING THE WATER RIGHTS OF: SHAMROCK INVESTMENTS,  
A WYOMING LIMITED LIABILITY COMPANY,

IN THE NONTRIBUTARY DENVER, ARAPAHOE, AND LARAMIE-FOX HILLS  
AQUIFERS AND THE NOT NONTRIBUTARY DAWSON AQUIFER,

IN EL PASO COUNTY.

THIS CLAIM to amend the existing decree in Case No. 85-CW-445, entered on December 12, 1988, was filed with the Water Division Water Clerk on February 26, 1993. A Motion to Amend Decree was filed on August 2, 1994, to correct the name of the owner of the decreed water rights and to vacate additional Dawson aquifer water rights. This amended ruling and decree is designed to restate such existing decree incorporating the amendments decreed in Case No. 93-CW-018 and granting the amendments requested in the Motion to Amend Decree. All matters contained in the application in Case No. 93-CW-018 and the Motion to Amend Decree having been reviewed, and testimony having been taken where such testimony is necessary, and such corrections made as are indicated by the evidence presented herein, IT IS HEREBY THE RULING OF THE WATER REFEREE:

**FINDINGS OF FACT**

1. Name, Address, and Telephone Number of Applicant:

Shamrock Investments,  
a Wyoming Limited Liability Company  
432 Happy Canyon Road  
Castle Rock, Colorado 80104

Please direct all correspondence and inquiries to:

Robert E. Schweest, Esq.  
7800 East Union Avenue, Suite 200  
Denver, Colorado 80237  
(303) 775-0200 (Telephone)  
(303) 779-3662 (Telefax)

**CENTRAL FILES**

2. History of Case:

A. Original Decree.

The Applicant is represented in this matter by Robert E. Schwoer. The overlying land area subject to the original decree in Case No. 85-CW-445 is the Bar X Ranch, consisting of 1840 acres, more or less, located in Sections 16, 17, 20, and 21 in Township 11 South, Range 65 West of the 6th P.M., in El Paso County, Colorado. A General Location Map of the property is attached hereto as Exhibit A. The original application for underground water rights underlying the property was filed with this Court of December 31, 1985. An amended application for under ground water rights from nontributary and not nontributary sources was filed with this Court on March 31, 1987, and published in the March 1987 Water Resume for Water Division 1. A timely statement of opposition was filed to the amended application by the City of Colorado Springs. A decree in Case No. 85-CW-445 was entered on December 12, 1988.

B. Amendments to the Original Decree.

Case No. 93-CW-018

(1) An application to amend the decree was filed on February 26, 1993, by NHK Group, Ltd., a successor in interest to the original Applicants. A decree in Case No. 93-CW-018 was entered on August 31, 1993, which decree operates to amend the original decree for the following purposes:

- (a) To indicate the owners of the land and ground water rights decreed in Case No. 85-CW-445 was NHK Group, Ltd.;
- (b) To specify additional well sites for wells to be constructed into each aquifer, and
- (c) To vacate from the decree 60 acre-feet of Dawson aquifer water underlying a specified 480 acres of land which had been conveyed to Aberdeen Investments, Inc.

Motion to Amend Decree

(2) Change in Ownership. In August, 1994, Shamrock Investments, a Wyoming Limited Liability Company, the successor in interest to the property and decreed water rights, moved to amend the original decree, as amended, to indicate that it is the present owner of the deep aquifer ground water underlying the 1840 acres of the original Bar X Ranch, except for the 60 acre-feet in the Dawson aquifer conveyed to Aberdeen Investments, Inc., and vacated from the original decree by the decree issued in Case No. 93-CW-018.

(3) Release of an Additional 80 Acre-Feet Per Year of Dawson Aquifer Ground Water. By deed, Movant Shamrock Investments conveyed 312 acres of its property to Aberdeen Investments, Inc., a Colorado corporation. Along with the 312 acres of land, generally described as the East 1/2 of Section 16, Range 65 West, Township 11 South of the 6th P.M., and shown on Exhibit B hereto, Shamrock Investments also conveyed to Aberdeen Investments, Inc., eighty (80) acre-feet annually of ground water from the Dawson aquifer underlying all of said Section 16. This additional 80 acre-feet per year of Dawson aquifer ground water must also be vacated from the decree, as amended.

C. Although it no longer owns the 60 acre-feet of Dawson aquifer ground water previously conveyed to Aberdeen Investments, Inc., and vacated from the decree in Case No. 93-CW-018, nor the 80 acre-feet of Dawson aquifer ground water subsequently conveyed to Aberdeen Investments, Inc., Shamrock Investments owns all remaining Dawson aquifer ground water and all other ground water in this decree underlying the entire 1840 acre Bar X Ranch property.

### 3. Subject Matter Jurisdiction:

Timely and adequate notice of the pendency of these proceedings has been given in the manner required by law. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties, whether they have appeared or not.

### 4. Aquifers and Location of Ground Water:

A. Shamrock Investments seeks an amended decree confirming all previously decreed rights to all ground water recoverable from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers and the not tributary Dawson aquifer, except as stated below, underlying the subject property in El Paso County, Colorado. The property is described as follows: all of Section 16; the E1/2 of SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21, all in Township 11 South, Range 65 West of the 6th P.M., consisting of 1840 acres, more or less. Shamrock Investments is the owner of the ground water rights underlying the above-described land and no part of such land lies within a designated ground water basin.

See Exhibit A.

B. This amended ruling and decree will vacate from the decree the rights in a total of 140 acre-feet per year in the Dawson aquifer, of which 60 AF/Yr. shall be vacated from those Dawson aquifer ground water rights underlying a specified 480 acres of land, generally described as the W1/2 and the NE 1/4 of Section 21, and 80 AF/Yr. shall be vacated from those Dawson aquifer ground water rights underlying 640 acres of land in Section 16, both areas in Township 11 South, Range 65 West of the 6th P.M. Such land areas are shown in the attached annotated location map, Exhibit "B."

5. Specific Wells Claimed:

The legal descriptions of the wells to be constructed under this decree are as follows. Wells and well locations originally decreed in Case No. 85-CW-445 are shown with the suffix (A), and new wells and well locations decreed in Case No. 93-CW-018 are indicated below by the suffix (B). All well locations are in Township 11 South, Range 65 West of the 6th P.M., in El Paso County, Colorado.

A. Dawson Aquifer:

<u>Well No.</u>	<u>Quarter/Quarter</u>	<u>Section No.</u>	<u>Feet From Section Line</u>	
DA-01(A)	SW,NE	16	2200 N	2200 E
DA-02(A)	NE,SE	17	1500 S	500 E
DA-03(A)	NW,NE	21	800 N	2200 E
DA-04(A)	NW,SW	21	1500 S	400 W
DA-01(B)	NW,NW	16	170 N	170 W
DA-02(B)	NE,NE	16	170 N	170 E
DA-03(B)	SW,NE	16	2640 N	2710 W
DA-04(B)	SW,SW	16	4200 N	170 W
DA-05(P)	SE,SE	16	3970 N	170 E
DA-06(B)	SW,NE	21	3310 N	1570 E
DA-07(B)	NE,SE	20	2830 N	170 E
DA-08(B)	SE,SW	21	270 S	2370 W
DA-09(B)	NE,SW	17	2470 S	1490 W
DA-10(B)	SE,NW	20	1570 N	1670 W
DA-11(B)	SE,SW	20	170 S	1570 W

B. Denver Aquifer:

<u>Well No.</u>	<u>Quarter/Quarter</u>	<u>Section</u>	<u>Feet From Section Line</u>	
D-01(A)	SW,NE	16	2000 N	2150 E
D-02(A)	NE,SE	17	1500 S	450 E
D-03(A)	NW,NE	21	800 N	2150 E
D-04(A)	NW,SW	21	1500 S	450 W
D-01(B)	NW,NW	16	100 N	100 W
D-02(B)	NE,NE	16	100 N	100 E
D-03(B)	NE,SW	16	2710 N	2640 W
D-04(B)	SW,SW	16	4270 N	100 W
D-05(B)	NE,SE	16	3900 N	100 E
D-06(B)	SW,NE	21	2240 N	1500 E
D-07(B)	NE,SE	20	2900 N	100 E
D-08(B)	SE,SW	21	200 S	2440 W
D-09(B)	NE,SW	17	2540 S	1420 W
D-10(B)	SE,NW	20	1500 N	1600 W
D-11(B)	SE,SW	20	100 S	1500 W

C. Arapahoe Aquifer:

<u>Well No.</u>	<u>Quarter/Quarter</u>	<u>Section</u>	<u>Feet From Section Line</u>	
A-01(A)	SW,NE	16	2050 N	2200 E
A-02(A)	NE,SE	17	1450 S	500 E
A-03(A)	NW,NE	21	850 N	2200 E
A-04(A)	NW,SW	21	1450 S	430 W
A-05(A)	SW,NE	20	1500 N	2500 E
A-01(B)	NW,NW	16	100 N	170 W
A-02(B)	NE,NE	16	100 N	170 E
A-03(B)	Center Point	16	2640 N	2640 W
A-04(B)	SW,SW	16	4200 N	100 W
A-05(B)	NE,SE	16	3900 N	170 E
A-06(B)	SW,NE	21	2240 N	1570 E
A-07(B)	NE,SE	20	2830 N	100 E
A-08(B)	SE,SW	21	270 S	2440 W
A-09(B)	NE,SW	17	2540 S	1480 W
A-10(B)	SE,NW	20	1500 N	1670 W
A-11(B)	SE,SW	20	170 S	1500 W

D. Laramie-Fox Hills Aquifer:

<u>Well No.</u>	<u>Quarter/Quarter</u>	<u>Section</u>	<u>Feet From Section Line</u>	
LFH-01(A)	SW,NE	16	2050 N	2150 E
LFH-02(A)	NE,SE	17	1450 S	450 E
LFH-03(A)	NW,NE	21	850 N	2150 E
LFH-04(A)	NW,SW	21	1450 S	450 W
LFH-01(B)	NW,NW	16	170 N	100 W
LFH-02(B)	NE,NE	16	170 N	100 E
LFH-03(B)	NE,SW	16	2710 N	2170 W
LFH-04(B)	SW,SW	16	4270 N	170 W
LFH-05(B)	NE,SE	16	3970 N	100 E
LFH-06(B)	SW,NE	21	2310 N	1500 E
LFH-07(B)	NE,SE	20	2910 N	170 E
LFH-08(B)	SE,SW	21	200 S	2370 W
LFH-09(B)	NE,SW	17	2470 S	1420 W
LFH-10(B)	SE,NW	20	1570 N	1600 W
LFH-11(B)	SE,SW	20	100 S	1570 W

6. Well Permits:

A. Owner Shamrock Investments or any successor in interest may make application for permits for each well described herein at least 45 days in advance of such time as it is ready to construct each well or series of wells.

B. The State Engineer shall consider the rights granted herein as valid. Because a unified municipal water supply system is planned to serve this property, the system will be constructed pursuant to a phased development program over a considerable period of time. Each well will be drilled and completed as it is needed pursuant to such phased development program. Accordingly, the Court determines that if Applicant fails to construct any of said wells within the period of time specified in the corresponding well permits, it may reapply and the State Engineer shall promptly reissue that well permit for the amount of water determined herein with burdens no more restrictive than found herein.

7. Average Annual Amounts of Withdrawal Available:A. Not Nontributary Dawson Aquifer.

Pursuant to the Denver Basin Rules, the ground water in the Dawson aquifer underlying Applicant's property is classified as not nontributary ground water. The hydrologic values and the average annual amount available for withdrawal from the Dawson aquifer are as follows:

Upper Dawson Aquifer

<u>Acreage</u>	<u>Sand Thickness</u>	<u>Specified Yield</u>	<u>Average Annual Amt. in Acre-Feet</u>
1840	490 feet	.20%	1663

(1) The above average annual amount figure represents the 1803 acre-feet per year originally decreed in Case No. 85-CW-445 less the 60 acre-feet vacated by the decree in Case No. 93-CW-018 and less the 80 acre-feet vacated as a result of the motion filed by Shamrock Investments in August, 1994.

(2) By separate Stipulation, Shamrock Investments and Objector City of Colorado Springs, have agreed that any and all exempt wells which may be applied for or issued to overlying landowners shall be limited to production from the Dawson aquifer. Such Stipulation, dated July 22, 1993, is incorporated herein by this reference, and attached hereto as Exhibit "C".

B. Nontributary Denver, Arapahoe, and Laramie-Fox Hills Aquifers.

Pursuant to the Denver Basin Rules, the ground water in the Denver, Arapahoe, and Laramie-Fox Hills aquifers underlying Applicant's property is classified as nontributary ground water, as defined in § 37-90-103(10.5), C.R.S. The hydrologic values and the average annual amounts available for withdrawal from the Denver, Arapahoe, and Laramie-Fox Hills aquifers are as follows:

<u>Aquifer</u>	<u>Acreage</u>	<u>Sand Specific Thickness</u>	<u>Yield</u>	<u>Average Annual Amt. in Acre-Feet</u>
Denver	1840	435 feet	17%	1360
Arapahoe	1840	260 feet	17%	813
Lar.-FH	1840	200 feet	15%	352

C. The above values and amounts are consistent with the Determinations of Facts issued by the Office of the State Engineer (April 29, 1986).

8. Nominal Pumping Rates and Estimated Average Well Depths:

Aquifer	Combined Rate	Individual Well Rate	Well Depth (Average)
Dawson	1500 gpm (3.3 cfs)	575 gpm (.84 cfs)	1,040 feet
Denver	1200 gpm (2.5 cfs)	300 gpm (.66 cfs)	1,930 feet
Arapahoe	750 gpm (1.6 cfs)	150 gpm (.33 cfs)	2,450 feet
Laramie-Fox Hills	400 gpm (1.0 cfs)	120 gpm (.26 cfs)	2,950 feet

9. Final Average Annual Amounts of Withdrawal:

A. Final determinations of the applicable average specified yields, saturated sand thicknesses, and resulting average annual amounts available to Applicant from each aquifer will be made pursuant to the retained jurisdiction of this Court, as described in paragraph 20 hereinbelow. In the event this decree is not reopened for a further quantitative determination, the findings herein are final and controlling.

B. The allowed annual amount of ground water which may be withdrawn from such aquifers through the wells specified above and any additional wells, pursuant to § 37-90-137(10), C.R.S., may exceed the average annual amount of withdrawal, as long as the total volume of water withdrawn through such wells and any additional wells thereafter subsequent to the date of the original decree does not exceed the product of the number of years since the date of the issuance of such original decree, multiplied by the average annual amount of withdrawal, as specified above or as determined pursuant to the retained jurisdiction of the Court.

10. Source of Ground Water; Limitations on Consumption; Replacement Obligations and Requirements:

A. The ground water to be withdrawn from the Denver, Arapahoe, and Laramie-Fox Hills aquifers is "nontributary ground water" as defined in § 37-90-103(10.5), C.R.S., and in the Denver Basin Rules, the withdrawal of which will not, within 100 years, deplete the flow of a natural stream, including a natural stream as defined in §§ 37-82-101(2) and 37-92-102(1)(b), C.R.S., at an annual rate greater than 1/10 of 1% of the annual rate of withdrawal. The ground water to be withdrawn from the Dawson aquifer is "not nontributary ground water" as defined in the Denver Basin Rules, C.C.R. 402-6, Rule 5A.

B. Applicant may not consume more than 98% of the annual quantity of water withdrawn from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers. The relinquishment of 2% of the annual amount of water withdrawn to the stream system, as required by the Denver Basin Rules, may be satisfied by any method selected by the Applicant and satisfactory to the State Engineer, so long as Applicant can demonstrate that an amount equal to 2% of such withdrawals (by volume) has been relinquished to the stream system.

C. The ground water to be withdrawn from the Dawson aquifer is classified as not nontributary, requiring as a condition precedent to use that Applicant obtain a judicially approved augmentation plan for the replacement of depletions to the affected stream system. Pursuant to the statutory requirement at § 37-90-137(9)(c), C.R.S., the amount of the replacement must be the actual depletive effect caused by withdrawal of the resource to the extent necessary to prevent injury.

11. No Material Injury:

There is unappropriated ground water available for withdrawal from each aquifer beneath the land described herein, and the vested water rights of others will not be materially injured by such withdrawals as described hereby. The minimum useful life of each of the subject aquifers is at least 100 years, assuming no substantial artificial recharge within 100 years. No material injury to vested water rights of others will result from the issuance of permits for the subject wells or the exercise of the rights and limitations specified in this decree therefor.

12. Additional Wells and Well Fields:

A. Shamrock Investments proposes to build a unified municipal water system over the period of many years and will construct its wells as required by development. Any well drilled within 200 feet of a decreed location will be deemed to be constructed at the decreed well location pursuant to the permit and this decree.

B. In addition to the wells described in paragraph 5 above, Applicant may construct additional and replacement wells in order to maintain levels of production, to meet municipal water supply systems demands, or to recover the entire amount of ground water in the subject aquifers underlying the subject property, as described herein. As additional wells are planned, applications shall be filed in accordance with § 37-90-137(10), C.R.S.

C. So long as allowed annual amounts are not exceeded, the pumping rates for the wells may exceed the pumping rates specified herein in order to meet municipal water system supply requirements or to produce the full acre foot allocation of water from each aquifer. Two or more wells constructed into the same aquifer shall be considered a well field. In effecting production of water from such well field, Applicant may produce the entire amount which may be produced hereunder from the particular aquifer through any combination of wells within the well field for that particular aquifer.

D. In considering applications for permits for additional wells to withdraw the ground water which is the subject of this decree, the State Engineer shall be bound by this decree and shall issue said permits in accordance with provisions of § 37-90-137(4), C.R.S. Applicant shall not be required to submit any additional proof or evidence of matters finally determined herein when making application for permits for wells to withdraw the water which is the subject of this decree, except that the State Engineer may require revised land ownership or consent to use affidavits.

E. In the event that the allowed average annual amounts decreed herein are adjusted pursuant to the retained jurisdiction of the Court, any existing permit(s) for any well(s) decreed herein shall be amended to reflect such adjusted average annual amounts. New permits for any wells herein shall likewise reflect any such adjustment of the average annual amounts decreed herein.

13. Proposed Uses of Water:

The water withdrawn from any well may be used, reused, and successively used and otherwise disposed of for all municipal purposes including domestic, industrial, commercial, irrigation, stock watering, recreational, fish and wildlife, fire protection and sanitary purposes subject to the provisions of paragraph 19 herein. This water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for exchange purposes, for replacement of depletions resulting from the use of this ground water or of water from other sources, and for augmentation purposes. Moreover, Applicant may use return flows of this ground water to replace stream depletions under a plan for augmentation approved in compliance with applicable law.

14. Conditions:

For each well constructed pursuant to this decree, Shamrock Investments or its successors shall comply with the following conditions:

A. A totalizing flow meter shall be installed on the well discharge prior to diverting any water therefrom. Applicant shall keep accurate records of all diversions by the well, make any calculations necessary, and submit such records to the Water Division No. 1 Engineer annually.

B. The entire length of the open bore hole shall be geophysically surveyed prior to casing and copies of the geophysical log submitted to the Division of Water Resources. Applicant may provide a geophysical log from an adjacent well or test hole, pursuant to Rule 8F of the Statewide Rules and acceptable to the State Engineer, which fully penetrates the aquifer, in satisfaction of the above requirement.

C. The ground water production shall be limited to the specific aquifer for which the well was designed. Plain, unperforated casing must be installed and properly grouted to prevent withdrawal from or intermingling of water from zones other than those for which the well was designed.

D. Each well shall be permanently identified by its permit number, this Water Court Case Number, and the name of the producing aquifer on the above-ground portion of the well casing or on the pump house.

#### CONCLUSIONS OF LAW

15. The rights to nontributary and not nontributary ground water determined herein shall not be administered in accordance with priority of appropriation. Such rights are not "conditional water rights" as defined by § 37-92-103(6), C.R.S. The provisions of § 37-92-301(4), C.R.S., requiring findings of reasonable diligence are not applicable to the ground water rights determined herein. The determination of ground water rights herein need not include a date of initiation of the withdrawal project. See § 37-92-305(11), C.R.S. Ground water herein which is not nontributary shall be administered only pursuant to §§ 37-90-137(4) and 37-90-137(9), C.R.S.

16. Subject to paragraph 19 below, Shamrock Investments is entitled to permits to construct the wells described in paragraph 5 hereof which will withdraw nontributary ground water pursuant to § 37-90-137(4), C.R.S., and such additional wells as may be required in the future to withdraw such ground water pursuant to § 37-90-137(10), C.R.S. Withdrawals of not nontributary ground water may be made only pursuant to a subsequently adjudicated plan for augmentation therefor.

17. Shamrock Investments' Motion to Amend Decree, incorporated herein by this reference, is granted. The Order granting such Motion is manifest in this ruling and decree.

#### IT IS THEREFORE ORDERED, ADJUDGED, AND DECREED THAT:

18. The Findings of Fact and Conclusions of Law are incorporated into this Decree of the Water Court.

#### 19. Right to Withdraw Nontributary Ground Water:

The property owner, Shamrock Investments, may withdraw the nontributary ground water herein through the wells listed above at the locations listed above and in the average annual amounts and at the rates of flow specified therefor, subject to the limitations herein and the retained jurisdiction by this Court.

20. Replacement Obligation for Use of Not Nontributary Ground Water Rights:

By separate application, Applicant may seek a plan for the augmentation of depletions associated with the withdrawal of Dawson ground water subject to this decree. No such augmentation plan is granted by this ruling and decree. Judicial approval of such a plan for augmentation is a condition precedent to withdrawal and use of this resource.

21. Retained Jurisdiction:

A. The Court retains jurisdiction as necessary to adjust the average annual amounts of nontributary and not nontributary ground water available under the property to conform to actual local aquifer characteristics as determined from adequate information obtained from wells, pursuant to § 37-92-305(11), C.R.S. Within 60 days after completion of any well decreed herein, or any test hole(s), Applicant or any successor in interest to these water rights shall obtain a geophysical log of said well(s) or test hole(s) and shall serve such log(s) upon the State Engineer and notify each of the parties who have appeared herein that copies of the log and well completion report, if the well is completed, are available for review.

B. At such time as adequate data are available and within four months of notice that the retained jurisdiction for such purpose has been invoked, the State Engineer shall use the information available to him to make a final determination of water rights finding. The State Engineer shall submit such finding to the Water Court and to the Applicant, and the Applicant shall serve a copy upon the other parties.

C. If no protest to such finding is made within 60 days, the final determination of water rights shall be incorporated into the decree by the Water Court. In the event of a protest, or in the event the State Engineer makes no determination within four months, such final determination shall be made by the Water Court after notice and hearing.

D. In the event Applicant fails to invoke retained jurisdiction, the State Engineer or any person may do so. In the interim, the Court retains jurisdiction in this matter pursuant to § 37-92-305(11), C.R.S.

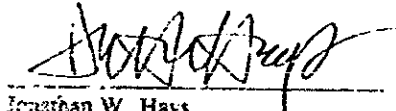
E. Any final determination of quantity of water in the Dawson aquifer will reflect the conveyance of a total of 140 acre-feet per year of Shamrock Investment's water rights in such aquifer, and consequently, any final amount determined will be reduced by such 140 acre-feet per year.

22. All rights, privileges, and priorities obtained or granted by the original decree in this matter, Case No. 85-CW-445, are retained in the issuance of this amended ruling and decree.

HAVING BEEN NO OBJECTIONS, THE COURT HEREBY APPROVES THE RULING  
AS AMENDED.

DATED: March 17, 1995

BY THE COURT:



Jonathan W. Hays  
Water Judge, Water Division 1  
State of Colorado

APPROVED AS TO FORM AND CONTENT:

DUNCAN, OSTRANDER & DINGESS, P.C.

Date: 12 October 1994

By: Robert E. Schween  
Robert E. Schween, #12923  
7800 East Union Avenue, Suite 200  
Denver, Colorado 80237  
Telephone: (303) 779-0200

ATTORNEYS FOR APPLICANT  
SHAMROCK INVESTMENTS,  
A WYOMING LIMITED LIABILITY COMPANY

af

FIELD IN DISTRICT COURT

DISTRICT COURT, WATER DIVISION NO. 1, COLORADO

Case No. 85CW445

38 NOV 9 P 2: 08

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RULING AND DECREE OF THE WATER COURT

38 DISTRICT COURT  
WELD COUNTY COLO.

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CONCERNING THE APPLICATION FOR WATER RIGHTS OF ED PENDLETON AND  
BEVERLY C. PENDLETON

IN THE NONTRIBUTARY DENVER, ARAPAHOE, AND LARAMIE-FOX HILLS  
AQUIFERS AND THE NOT NONTRIBUTARY UPPER DAWSON AQUIFER, in El  
Paso County.

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THIS CLAIM, having been originally filed with the Water  
Division No. 1 Water Clerk on December 31, 1985, all matters  
contained in the application having been reviewed, and  
testimony having been taken where such testimony is necessary,  
and such corrections made as are indicated by the evidence  
presented herein, IT IS HEREBY THE RULING OF THE WATER REFEREE:

FINDINGS OF FACT

1. Name, Address, and Telephone Number of Applicants:

Ed Pendleton and Beverly C. Pendleton  
c/o Mr. Merle McClung  
8085 South Chester Street  
Englewood, Colorado 80012  
(303) 790-1776

Applicants shall be referred to hereafter singularly as the  
Applicant.

2. History of Case:

The Applicant is represented by Saunders, Snyder, Ross &  
Dickson, P.C. (William B. Tourtillott and Robert E. Schween).  
The original application for underground water rights from  
nontributary sources was filed with this Court on December 31,  
1985. An amended application for underground water rights from  
nontributary and not nontributary sources was filed with this  
Court on March 31, 1987 and published in the March 1987 Water  
Resume for Water Division No. 1. A timely statement of  
opposition was filed to the amended application by the City of  
Colorado Springs (Gregory L. Johnson). No other statements of  
opposition or motions to intervene have been filed, and the  
period for filing of statements of opposition has expired.

3. Subject Matter Jurisdiction:

Timely and adequate notice of the pendency of these proceedings has been given in the manner required by law. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties, whether they have appeared or not.

4. Aquifer and Location of Ground Water:

In this proceeding, Applicant seeks a ruling and decree for rights to all ground water recoverable from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers and the not nontributary Upper Dawson aquifer underlying Applicant's property in El Paso County, Colorado. The Applicant's property, which is subject to this case, is described as follows: all of Section 16; the E1/2 SW1/4 and the SE1/4 of Section 17; the E1/2 and the E1/2 W1/2 of Section 20; the NE 1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21, all in Township 11 South, Range 65 West of the 6th P.M., consisting of 1840 acres, more or less. Applicant is the owner of the ground water rights underlying the above-described land and no part of such land lies within a designated ground water basin. A general location map of the property is attached hereto as Exhibit "A."

5. Specific Wells Claimed:

The legal descriptions of the wells to be constructed under this decree are as follows:

A. Upper Dawson Aquifer

- (1) Bar X DA-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 2,000 feet from the North section line of said Section 16.
- (2) Bar X DA-2: NE1/4 SE1/4, Section 17, Township 11 South, Range 65 West of the 6th P.M., at a point which is 500 feet from the East Section line and 1,500 feet from the South section line of said Section 17.
- (3) Bar X DA-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 800 feet from the North section line of said Section 21.

- (4) Bar X DA-4: NW1/4 SW1/4, Section 21, Township 12 South, Range 65 West of the 6th P.M., at a point which is 400 feet from the West Section line and 1,500 feet from the South section line of said Section 21.

B. Denver Aquifer

- (1) Bar X D-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 2,000 feet from the North section line of said Section 16.
- (2) Bar X D-2: NE1/4 SE1/4, Section 17, Township 11 South, Range 65 West of the 6th P.M., at a point which is 450 feet from the East Section line and 1,500 feet from the South section line of said Section 17.
- (3) Bar X D-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 800 feet from the North section line of said Section 21.
- (4) Bar X D-4: NW1/4 SW1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 450 feet from the West Section line and 1,500 feet from the South section line of said Section 21.

C. Arapahoe Aquifer

- (1) Bar X A-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 2,050 feet from the North section line of said Section 16.
- (2) Bar X A-2: NE1/4 SE1/4, Section 17, Township 11 South, Range 65 West of the 6th P.M., at a point which is 500 feet from the East Section line and 1,450 feet from the South section line of said Section 17.

- (3) Bar X A-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 850 feet from the North section line of said Section 21.
- (4) Bar X A-4: NW1/4 SW1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 400 feet from the West Section line and 1,450 feet from the South section line of said Section 21.
- (5) Bar X A-5: SW1/4 NE1/4, Section 20, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,500 feet from the East Section line and 1,500 feet from the North section line of said Section 20.

D. Laramie-Fox Hills Aquifer

- (1) Bar X LPH-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 2,050 feet from the North section line of said Section 16.
- (2) Bar X LPH-2: NE1/4 SE1/4, Section 17, Township 11 South, Range 65 West of the 6th P.M., at a point which is 450 feet from the East Section line and 1,450 feet from the South section line of said Section 17.
- (3) Bar X LPH-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 850 feet from the North section line of said Section 21.
- (4) Bar X LPH-4: NW1/4 SW1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 450 feet from the West Section line and 1,450 feet from the South section line of said Section 21.

6. Well Permits:

A. Applicant will make application for permits for each well described herein at such time as Applicant is ready to construct each well or series of wells.

B. The State Engineer shall consider the rights granted herein as valid. Because a unified municipal water supply system is planned to serve this property, the system will be constructed pursuant to a phased development program over a considerable period of time. Each well will be drilled and completed as it is needed pursuant to such phased development program. Accordingly, the Court determines that if Applicant fails to construct any of said wells within the period of time specified in the corresponding well permits, it may reapply and the State Engineer shall promptly reissue that well permit for the amount of water determined herein with burdens no more restrictive than found herein.

7. Average Annual Amounts of Withdrawal Available:

A. Not Nontributary Upper Dawson Aquifer:

Pursuant to the Denver Basin Rules, the ground water in the Upper Dawson aquifer underlying Applicant's property is classified as not nontributary ground water. The hydrologic values and the average annual amount available for withdrawal from the Upper Dawson aquifer are as follows:

Upper Dawson Aquifer

<u>Acreage</u>	<u>Sand Thickness</u>	<u>Specific Yield</u>	<u>Average Annual Amt. in Acre-Feet</u>
1840	490 feet	.20%	1803

B. Nontributary Denver, Arapahoe, and Laramie-Fox Hills  
Aquifers:

Pursuant to the Denver Basin Rules, the ground water in the Denver, Arapahoe, and Laramie-Fox Hills aquifers underlying Applicant's property is classified as nontributary ground water, as defined in § 37-90-103(10.5), C.R.S. The hydrologic values and the average annual amounts available for withdrawal from the Denver, Arapahoe, and Laramie-Fox Hills aquifers are as follows:

THE WATER RIGHT #103  
Dawson Aquifer  
HAS BEEN MODIFIED SEE  
CASE NO. 93CW018

<u>Aquifer</u>	<u>Acreage</u>	<u>Sand Thickness</u>	<u>Specific Yield</u>	<u>Average Annual Amt. in Acre-Feet</u>
Denver	1840	435 feet	.17%	1360
Arapahoe	1840	260 feet	.17%	813
Laramie-Fox Hills	1840	200 feet	.15%	552

C. The above values and amounts are consistent with the Determinations of Facts issued by the Office of the State Engineer (April 29, 1986).

8. Nominal Pumping Rates and Estimated Average Well Depths:

<u>Aquifer</u>	<u>Combined Rate</u>	<u>Individual Well Rate</u>	<u>Well Depth (Average)</u>
Upper Dawson	1500 gpm (3.3cfs)	375 gpm (.84cfs)	1,040 feet
Denver	1200 gpm (2.6cfs)	300 gpm (.66cfs)	1,930 feet
Arapahoe	750 gpm (1.6cfs)	150 gpm (.33cfs)	2,450 feet
Laramie-Fox Hills	480 gpm (1.0cfs)	120 gpm (.26cfs)	2,950 feet

9. Final Average Annual Amounts of Withdrawal:

A. Final determinations of the applicable average specific yields, saturated sand thicknesses, and resulting average annual amounts available to Applicant from each aquifer will be made pursuant to the retained jurisdiction of this Court, as described in paragraph 21 hereinbelow. In the event this decree is not reopened for a further quantitative determination, the findings herein are final and controlling.

B. The allowed annual amount of ground water which may be withdrawn from such aquifers through the wells specified above and any additional wells, pursuant to § 37-90-137(10), C.R.S. (1985 Supp.), may exceed the average annual amount of withdrawal, as long as the total volume of water withdrawn through such wells and any additional wells therefor subsequent to the date of this decree does not exceed the product of the number of years since the date of the issuance of the well permits or the date of this decree, whichever is earliest in time, multiplied by the average annual amount of withdrawal, as specified above or as determined pursuant to the retained jurisdiction of the Court.

10. Source of Ground Water; Limitations on Consumption;  
Replacement Obligations and Requirements:

A. The ground water to be withdrawn from the Denver, Arapahoe, and Laramie-Fox Hills aquifers is "nontributary ground water" as defined in § 37-90-103(10.5), C.R.S. (1985 Supp.), and in the Denver Basin Rules, the withdrawal of which will not, within 100 years, deplete the flow of a natural stream, including a natural stream as defined in §§ 37-82-101(2) and 37-92-102(1)(b), C.R.S., at an annual rate greater than 1/10 of 1% of the annual rate of withdrawal. The ground water to be withdrawn from the Upper Dawson aquifer is "not nontributary ground water" as described in the Denver Basin Rules, 2 C.C.R. 402-6, Rule 5A.

B. Applicant may not consume more than 98% of the annual quantity of water withdrawn from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers. The relinquishment of 2% of the annual amount of water withdrawn to the stream system, as required by the Denver Basin Rules effective January 1, 1986, may be satisfied by any method selected by the Applicant and satisfactory to the State Engineer, so long as Applicant can demonstrate that an amount equal to 2% of such withdrawals (by volume) has been relinquished to the stream system.

C. The ground water to be withdrawn from the Upper Dawson aquifer is classified as not nontributary, requiring as a condition precedent to use that Applicant obtain a judicially approved augmentation plan for the replacement of depletions to the affected stream system. Pursuant to the statutory requirement at § 37-90-137(9)(c), C.R.S. (1985 Supp.), the amount of the replacement must be the actual depletive effect caused by withdrawal of the resource to the extent necessary to prevent injury.

11. No Material Injury:

There is unappropriated ground water available for withdrawal from each aquifer beneath the land described herein, and the vested water rights of others will not be materially injured by such withdrawals as described hereby. The minimum useful life of each of the subject aquifers is at least 100 years, assuming no substantial artificial recharge within 100 years. No material injury to vested water rights of others will result from the issuance of permits for the subject wells or the exercise of the rights and limitations specified in this decree therefor.

12. Additional Wells and Well Fields:

A. The Applicant proposes to build a unified municipal water system over the period of many years and will construct its wells as required by development. Any well drilled within 200 feet of a decreed location will be deemed to be constructed at the decreed well location pursuant to the permit and this decree.

B. In addition to the wells described in paragraph 5 above, Applicant may construct additional and replacement wells in order to maintain levels of production, to meet municipal water supply systems demands, or to recover the entire amount of ground water in the subject aquifers underlying the subject property, as described herein. As additional wells are planned, applications shall be filed in accordance with § 37-90-137(10), C.R.S. (1985 Supp.).

C. So long as allowed annual amounts are not exceeded, the pumping rates for the wells may exceed the pumping rates specified herein in order to meet municipal water system supply requirements or to produce the full acre foot allocation of water from each aquifer. Two or more wells constructed into the same aquifer shall be considered a well field. In effecting production of water from such well field, Applicant may produce the entire amount which may be produced hereunder from the particular aquifer through any combination of wells within the well field for that particular aquifer.

D. In considering applications for permits for additional wells to withdraw the ground water which is the subject of this decree, the State Engineer shall be bound by this decree and shall issue said permits in accordance with provisions of § 37-90-137(4), C.R.S. (1985 Supp.). Applicant shall not be required to submit any additional proof or evidence of matters finally determined herein when making application for permits for wells to withdraw the water which is the subject of this decree, except that the State Engineer may require revised land ownership or consent to use affidavits.

E. In the event that the allowed average annual amounts decreed herein are adjusted pursuant to the retained jurisdiction of the Court, any existing permit(s) for any well(s) decreed herein shall be amended to reflect such adjusted average annual amounts. New permits for any wells herein shall likewise reflect any such adjustment of the average annual amounts decreed herein.

13. Proposed Uses of Water:

The water withdrawn from any well may be used, reused, and successively used and otherwise disposed of for all municipal purposes including domestic, industrial, commercial, irrigation, stock watering, recreational, fish and wildlife, fire protection and sanitary purposes subject to the provisions of paragraph 20 herein. This water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for exchange purposes, for replacement of depletions resulting from the use of this ground water or of water from other sources, and for augmentation purposes. Moreover, Applicant may use return flows of this ground water to replace stream depletions under a plan for augmentation approved in compliance with applicable law.

14. Conditions:

For each well constructed pursuant to this decree, Applicant shall comply with the following conditions:

A. A totalizing flow meter shall be installed on the well discharge prior to diverting any water therefrom. Applicant shall keep accurate records of all diversions by the well, make any calculations necessary, and submit such records to the Water Division No. 1 Engineer annually.

B. The entire length of the open bore hole shall be geophysically surveyed prior to casing and copies of the geophysical log submitted to the Division of Water Resources. Applicant may provide a geophysical log from an adjacent well or test hole, pursuant to Rule 8F of the Statewide Rules and acceptable to the State Engineer, which fully penetrates the aquifer, in satisfaction of the above requirement.

C. The ground water production shall be limited to the specific aquifer for which the well was designed. Plain, unperforated casing must be installed and properly grouted to prevent withdrawal from or intermingling of water from zones other than those for which the well was designed.

D. Each well shall be permanently identified by its permit number, this Water Court Case Number, and the name of the producing aquifer on the above-ground portion of the well casing or on the pumphouse.

CONCLUSIONS OF LAW

15. The Water Court has jurisdiction over this proceeding pursuant to § 37-90-137(6), C.R.S. This Court concludes as a matter of law that the application herein is one contemplated by law. Section 37-90-137(4), C.R.S. The application for a decree confirming Applicant's right to withdraw and use all ground water from the named nontributary and not nontributary aquifers beneath its property as described herein pursuant to § 37-90-137(4), C.R.S. (1985 Supp.), should be granted, subject to the provisions of this decree. The nature and extent of the rights to nontributary and not nontributary ground water determined herein are defined by §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1985 Supp.). The withdrawal of the ground water decreed herein in accordance with the terms of this decree will not result in material injury to vested water rights of others as a matter of law.

16. The rights to nontributary and not nontributary ground water determined herein shall not be administered in accordance with priority of appropriation. Such rights are not "conditional water rights" as defined by § 37-92-103(6), C.R.S. The provisions of § 37-92-301(4), C.R.S., requiring quadrennial findings of reasonable diligence are not applicable to the ground water rights determined herein. The determination of ground water rights herein need not include a date of initiation of the withdrawal project. See § 37-92-305(11), C.R.S. (1985 Supp.). Ground water herein which is not nontributary shall be administered only pursuant to §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1985 Supp.).

17. Subject to paragraph 20, below, Applicant is entitled to permits to construct the wells described in paragraph 5 hereof which will withdraw nontributary and not nontributary ground water pursuant to § 37-90-137(4), C.R.S., and such additional wells as may be required in the future to withdraw such ground water pursuant to § 37-90-137(10), C.R.S. (1985 Supp.).

IT IS THEREFORE, ORDERED, ADJUDGED, AND DECREED THAT:

18. The Findings of Fact and Conclusions of Law are incorporated into this decree of the Water Court.

19. Right to Withdraw Nontributary Ground Water:

The Applicant may withdraw the nontributary ground water herein through the wells listed above at the locations listed above and in the average annual amounts and at the rates of flow specified therefor, subject to the limitations herein and the retained jurisdiction by this Court.

20. Replacement Obligation for Use of Not Nontributary Ground Water Rights:

By separate application, Applicant will seek a plan for augmentation of depletions associated with the withdrawal of Upper Dawson ground water decreed hereby. No such augmentation plan is sought in this case. Judicial approval of such a plan for augmentation is a condition precedent to withdrawal and use of this resource.

21. Retained Jurisdiction:


A. The Court retains jurisdiction as necessary to adjust the average annual amounts of nontributary and not nontributary ground water available under the property to conform to actual local aquifer characteristics as determined from adequate information obtained from wells, pursuant to § 37-92-305(11), C.R.S. (1985 Supp.). Within 60 days after completion of any well decreed herein, or any test hole(s), Applicant or any successor in interest to these water rights shall obtain a geophysical log of said well(s) or test hole(s) and shall serve such log(s) upon the State Engineer and notify each of the parties who have appeared herein that copies of the log and well completion report, if the well is completed, are available for review.

B. At such time as adequate data are available and within four months of notice that the retained jurisdiction for such purpose has been invoked, the State Engineer shall use the information available to him to make a final determination of water rights finding. The State Engineer shall submit such finding to the Water Court and to the Applicant, and the Applicant shall serve a copy upon the other parties.

C. If no protest to such finding is made within 60 days, the Final Determination of Water Rights shall be incorporated into the decree by the Water Court. In the event of a protest, or in the event the State Engineer makes no determination within four months, such final determination shall be made by the Water Court after notice and hearing.

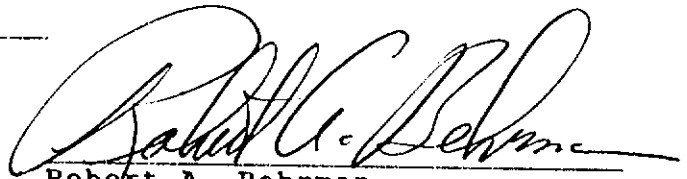
D. In the event Applicant fails to invoke retained jurisdiction, the State Engineer or any party hereto may do so. In the interim, the Court retains jurisdiction in this matter pursuant to § 37-92-305(11), C.R.S. (1985 Supp.).

RULING ENTERED this 9th day of November 1988.

  
Raymond S. Liesman  
Water Referee  
Water Division No. 1  
State of Colorado

THE COURT DOTH FIND THAT NO PROTEST TO THE RULING OF THE  
REFEREE HAS BEEN FILED. THE FOREGOING RULING IS CONFIRMED AND  
APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS  
COURT.

DATED: December 12, 1988

  
Robert A. Behrman  
Water Judge  
Water Division No. 1  
State of Colorado

THE WATER RIGHT FOR  
Dawson Aquifer  
HAS BEEN MODIFIED SEE  
CASE NO. 93-CW-818

APPROVED AS TO FORM AND CONTENT:

SAUNDERS, SNYDER, ROSS  
& DICKSON, P.C.

Date: 15 Oct. 1987

By Robert E. Schween  
William B. Tourtillott, Jr., #184  
Robert E. Schween, #12923  
707 17th Street  
Suite 3500  
Denver, Colorado 80202  
(303) 292-6600

ATTORNEYS FOR APPLICANT  
ED PENDLETON AND BEVERLY C. PENDLETON

ANDERSON, JOHNSON, & GIANUNZIO

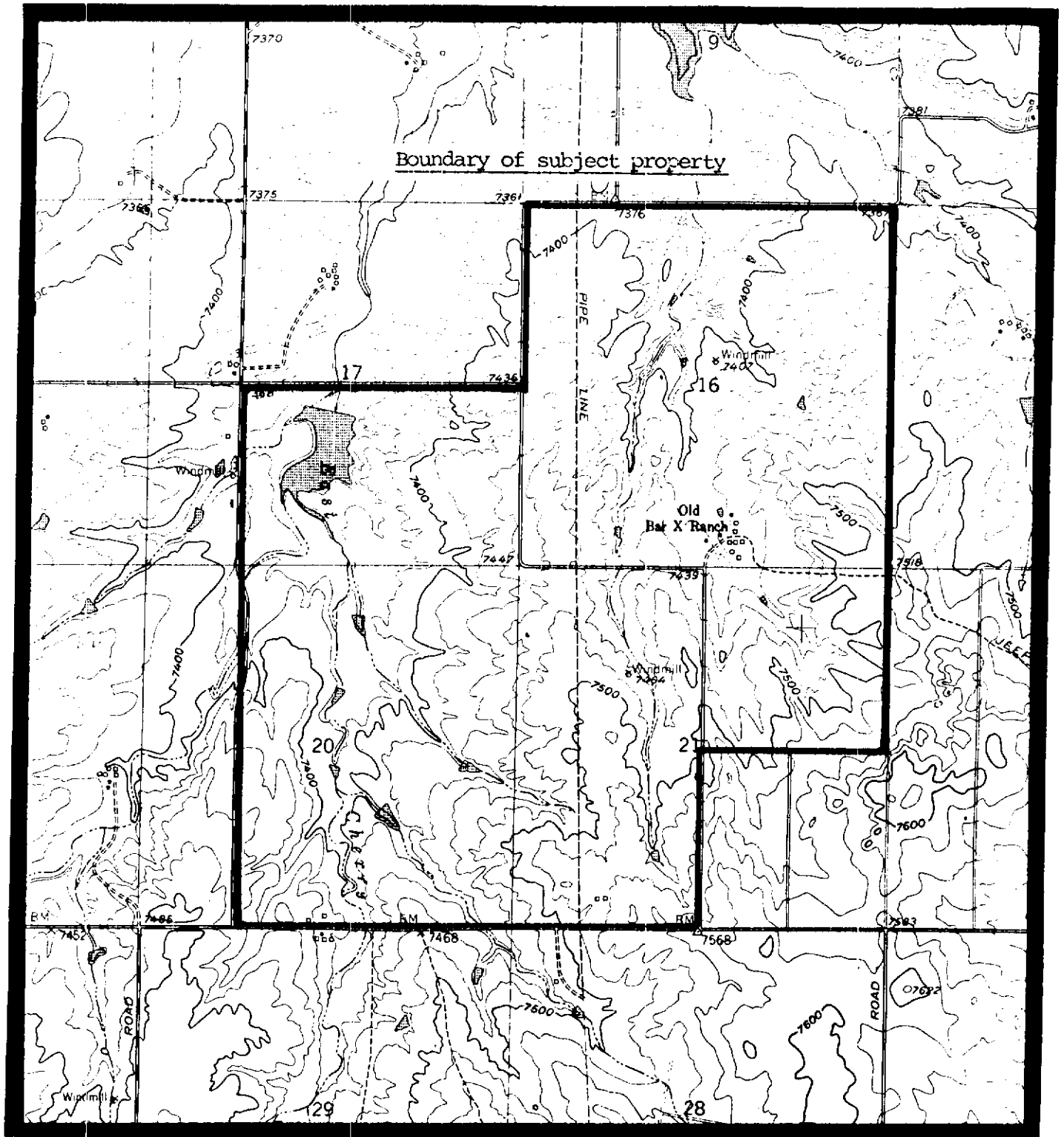
Date: 10-15-87

By Mark T. Pifher  
Gregory L. Johnson, #448  
Mark T. Pifher, #12629  
104 S. Cascade Ave., Suite 204  
P.O. Box 240  
Colorado Springs, Colorado 80901-0240  
(303) 632-3545

ATTORNEYS FOR OBJECTOR  
CITY OF COLORADO SPRINGS

EXHIBIT A  
TO  
RULING AND DECREE  
CASE NO. 85CW445

R65W



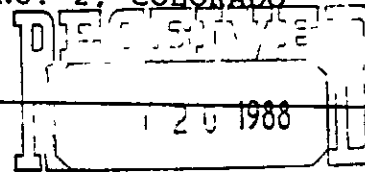
T11S

RES  
DISTRICT COURT, WATER DIVISION No. 2, COLORADO

Case No. 85CW131

MAY 18 1988

DECREE OF THE WATER COURT



*Russell J. Snyder*

Clerk

ROSS & DICKSON

CONCERNING THE APPLICATION FOR WATER RIGHTS OF PENDLETON LAND  
AND EXPLORATION, INC.

IN THE NONTRIBUTARY DENVER, ARAPAHOE, AND LARAMIE-FOX HILLS  
AQUIFERS AND THE NOT NONTRIBUTARY DAWSON, DENVER, AND ARAPAHOE  
AQUIFERS, in El Paso County.

THIS CLAIM, having been originally filed with the Water  
Division No. 2 Water Clerk on December 31, 1985, all matters  
contained in the application having been reviewed, and  
testimony having been taken where such testimony is necessary,  
and such corrections made as are indicated by the evidence  
presented herein, the Court makes the following:

FINDINGS OF FACT

1. Name, Address, and Telephone Number of Applicant:

Pendleton Land and Exploration, Inc.  
c/o Mr. Merle McClung  
8085 S. Chester St.  
Englewood, Colorado 80012  
(303) 790-1776

2. History of Case:

The Applicant is represented by Saunders, Snyder, Ross &  
Dickson, P.C. (William B. Tourtillott and Robert E. Schween).  
The original application for underground water rights from  
nontributary sources was filed with this Court on December 31,  
1985. An amended application for underground water rights from  
nontributary and not nontributary sources was filed with this  
Court on April 24, 1987 and published in the May 1987 Water  
Resume for Water Division No. 2. Timely statements of  
opposition were filed to the original and amended application  
by the City of Colorado Springs (Gregory L. Johnson), JVRC,  
Inc. (Michael D. Shimmin), Upper District 10 Water Users  
Association (Gregory L. Johnson), and Black Forest Land Use  
Committee (Barbara Hosmer). No other statements of opposition  
or motions to intervene have been filed, and the period for  
filing of statements of opposition has expired

3. Subject Matter Jurisdiction:

Timely and adequate notice of the pendency of these proceedings has been given in the manner required by law. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties, whether they have appeared or not.

4. Aquifers and Location of Ground Water:

A. In this proceeding, Applicant seeks a decree for rights to all ground water recoverable from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers and the not nontributary Dawson, Denver, and Arapahoe aquifers underlying Applicant's property in El Paso County, Colorado.

B. The ground water rights are linked to different portions of Applicant's property as generally described below:

1. Dawson Aquifer

Applicant will withdraw not nontributary ground water from the Dawson aquifer underlying approximately 2280 acres of property as more particularly described on Exhibit "A" attached hereto and made a part hereof. A general location map of the property is attached as Exhibit "B."

2. Denver Aquifer

Applicant will withdraw not nontributary ground water from the Denver aquifer underlying approximately 2080 acres of property and nontributary ground water from the Denver aquifer underlying approximately 200 acres of property as more particularly described on Exhibit "C" attached hereto and made a part hereof. A general location map of the property designated as not nontributary and nontributary in the Denver aquifer is attached as Exhibit "D."

3. Arapahoe Aquifer

Applicant will withdraw not nontributary ground water from the Arapahoe aquifer underlying approximately 634 acres of property and nontributary ground water from the Arapahoe aquifer underlying approximately 1646 acres of property as more particularly described on Exhibit "E" attached hereto and made a part hereof. A general location map of the property designated as not nontributary and nontributary in the Arapahoe aquifer is attached as Exhibit "F "

4. Laramie-Fox Hills Aquifer

Applicant will withdraw nontributary ground water from the Laramie-Fox Hills aquifer underlying approximately 2280 acres of property as more particularly described on Exhibit "A." A general location map of the property is attached as Exhibit "B."

C. Applicant is the owner of the ground water rights underlying the above-described lands and no part of such lands lies within a designated ground water basin.

5. Specific Wells Claimed:

The legal descriptions of the wells to be constructed under this decree are as follows:

A. Dawson Aquifer

- (1) West DA-1: SW1/4 NW1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,000 feet from the West Section line and 2,000 feet from the North section line of said Section 26.
- (2) West DA-2: SW1/4 NW1/4, Section 25, Township 11 South, Range 66 West of the 6th P.M., at a point which is 300 feet from the West Section line and 1,500 feet from the North section line of said Section 25.
- (3) West DA-3: NW1/4 NW1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 200 feet from the West Section line and 1,000 feet from the North section line of said Section 35.
- (4) West DA-4: SE1/4 SE1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,000 feet from the East Section line and 500 feet from the South section line of said Section 26.
- (5) West DA-5: NW1/4 SE1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 2,000 feet from the East Section line and 1,500 feet from the South section line of said Section 35.

- (6) West DA-6: NE1/4 NE1/4, Section 3, Township 12 South, Range 66 West of the 6th P.M., at a point which is 1,200 feet from the East Section line and 300 feet from the North section line of said Section 3.

B. Denver Aquifer

- (1) West D-1: SW1/4 NW1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,050 feet from the West Section line and 2,000 feet from the North section line of said Section 26.
- (2) West D-2: SW1/4 NW1/4, section 25, Township 11 South, Range 66 West of the 6th P M., at a point which is 350 feet from the West line and 1500 feet from the North line of said Section 25.
- (3) West D-3: NW1/4 NW1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 250 feet from the West Section line and 1,000 feet from the North section line of said Section 35.
- (4) West D-4: SE1/4 SE1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 950 feet from the East Section line and 500 feet from the South section line of said Section 26.
- (5) West D-5: NW1/4 SE1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,950 feet from the East Section line and 1,500 feet from the South section line of said Section 35.
- (6) West D-6: NE1/4 NE1/4, Section 3, Township 12 South, Range 66 West of the 6th P.M., at a point which is 1,150 feet from the East Section line and 300 feet from the North section line of said Section 3.

C. Arapahoe Aquifer

- (1) West A-1: SW1/4 NW1/4, Section 26, Township 11 South, Range 66 West of the 6th P M , at a point which is 1,000 feet from the West Section line and 2,050 feet from the North section line of said Section 26.

- (2) West A-2: SW1/4 NW1/4, Section 25, Township 11 South, Range 66 West of the 6th P.M., at a point which is 300 feet from the West Section line and 1,550 feet from the North section line of said Section 25.
- (3) West A-3: NW1/4 NW1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 200 feet from the West Section line and 1,050 feet from the North section line of said Section 35.
- (4) West A-4: SE1/4 SE1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,000 feet from the East Section line and 450 feet from the South section line of said Section 26.
- (5) West A-5: NW1/4 SE1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 2,000 feet from the East Section line and 1,450 feet from the South section line of said Section 35.
- (6) West A-6: NE1/4 NE1/4, Section 3, Township 12 South, Range 66 West of the 6th P.M., at a point which is 1,200 feet from the East Section line and 350 feet from the North section line of said Section 3.

D. Laramie-Fox Hills Aquifer

- (1) West LFH-1: SW1/4 NW1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,050 feet from the West Section line and 2,050 feet from the North section line of said Section 26.
- (2) West LFH-3: NW1/4 NW1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 250 feet from the West Section line and 1,050 feet from the North section line of said Section 35.
- (3) West LFH 4: SE1/4 SE1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 950 feet from the East Section line and 450 feet from the South section line of said Section 26

- (4) West LFH-6: NE1/4 NE1/4, Section 3, Township 12 South, Range 66 West of the 6th P M., at a point which is 1,150 feet from the East Section line and 350 feet from the North section line of said Section 3

6. Well Permits:

A. Applicant will make application for permits for each well described herein at such time as Applicant is ready to construct each well or series of wells.

B. The State Engineer shall consider the rights granted herein as valid. Because a unified municipal water supply system is planned to serve this property, the system will be constructed pursuant to a phased development program over a considerable period of time. Each well will be drilled and completed as it is needed pursuant to such phased development program. Accordingly, the Court determines that if Applicant fails to construct any of said wells within the period of time specified in the corresponding well permits, it may reapply and the State Engineer shall promptly reissue that well permit for the amount of water determined herein with burdens no more restrictive than found herein.

7. Average Annual Amounts of Withdrawal Available:

A. Not Nontributary Dawson, Denver, and Arapahoe Aquifers:

Pursuant to the Denver Basin Rules, the ground water in the Dawson, Denver, and Arapahoe aquifers underlying all or part of Applicant's property, as described in Paragraph 4 herein, is classified as not nontributary ground water. The hydrologic values and the average annual amounts available for withdrawal from the not nontributary Dawson, Denver, and Arapahoe aquifers are as follows:

<u>Aquifer</u>	<u>Acreage</u>	<u>Sand Thickness</u>	<u>Specific Yield</u>	<u>Ave. Ann. Amt. in Acre-Feet</u>
Dawson	2280	375 feet	20%	1710
Denver	2080	550 feet	17%	1945
Arapahoe	634	220 feet	17%	237

B. Nontributary Denver, Arapahoe, and Laramie-Fox Hills Aquifers:

Pursuant to the Denver Basin Rules, the ground water in the Denver, Arapahoe, and Laramie-Fox Hills aquifers underlying all or part of Applicant's property, as described in Paragraph 4 herein, is classified as nontributary ground water, pursuant to § 37-90-137(9)(c), C.R.S. The hydrologic values and the average annual amounts available for withdrawal from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers are as follows:

<u>Aquifer</u>	<u>Acreage</u>	<u>Sand Thickness</u>	<u>Specific Yield</u>	<u>Ave. Ann. Amt. in Acre-Feet</u>
Denver	200	550 feet	17%	187
Arapahoe	1646	220 feet	17%	616
Laramie-Fox Hills	2280	200 feet	15%	684

C. The above values and amounts are consistent with the Findings of the State Engineer issued on March 25, 1986, and supplemented on November 5, 1987.

8. Final and Interim Average Annual Amounts of Withdrawal; and Allowed Amounts of Withdrawal Exceeding Average Annual Amounts:

A. Final determinations of the applicable average saturated sand thicknesses and resulting average annual amounts available to Applicant from each aquifer will be made pursuant to the retained jurisdiction of this Court, as described in paragraph 18 hereinbelow. In the event this decree is not reopened for a further quantitative determination, the findings herein are final and controlling.

B. The allowed annual amount of ground water which may be withdrawn from such aquifers through the wells specified above and any additional wells, pursuant to § 37-90-137(10), C.R.S. (1987 Supp.), may exceed the average annual amount of withdrawal, as long as the total volume of water withdrawn through such wells and any additional wells therefor subsequent to the date of this decree does not exceed the product of the number of years since

the date of the issuance of the well permits or the date of this decree, whichever is earliest in time, multiplied by the average annual amount of withdrawal, as specified above or as determined pursuant to the retained jurisdiction of the Court.

9. Source of Ground Water; Limitations on Consumption; Replacement Obligations and Requirements:

A. The ground water to be withdrawn from the Laramie-Fox Hills aquifer and the described portions of the Denver and Arapahoe aquifers is "nontributary ground water" as defined in § 37-90-103(10.5), C.R.S. (1987 Supp.), and in the Denver Basin Rules, the withdrawal of which will not, within 100 years, deplete the flow of a natural stream, including a natural stream as defined in §§ 37-82-101(2) and 37-92-102(1)(b), C.R.S., at an annual rate greater than 1/10 of 1% of the annual rate of withdrawal.

B. Applicant may not consume more than 98% of the annual quantity of water withdrawn from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers. The relinquishment of 2% of the annual amount of water withdrawn to the stream system, as required by the Denver Basin Rules effective January 1, 1986, may be satisfied by any method selected by the Applicant and satisfactory to the State Engineer, so long as Applicant can demonstrate that an amount equal to 2% of such withdrawals (by volume) has been relinquished to the stream system.

C. Withdrawal of ground water from the Dawson aquifer and the described portions of the Denver and Arapahoe aquifers will, within 100 years, deplete the flow of a natural stream at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal therefrom. Such ground water is not nontributary and requires, as a condition precedent to use, that Applicant obtain a judicially approved augmentation plan for the replacement of depletions to the affected stream system, pursuant to the statutory requirements in effect at such time that the augmentation plan is prosecuted.

D. There is unappropriated ground water available for withdrawal from each aquifer beneath the land described herein, and the vested water rights of others will not be materially injured by such withdrawals as described hereby. The minimum useful life of each of the subject aquifers is at least 100 years, assuming no substantial artificial recharge within 100 years. No

material injury to vested water rights of others will result from the issuance of permits for the subject wells or the exercise of the rights and limitations specified in this decree therefor.

10. Additional Wells and Well Fields:

A. The Applicant proposes to build a unified municipal water system over the period of many years and will construct its wells as required by development. Any well drilled within 200 feet of a decreed location will be deemed to be constructed at the decreed well location pursuant to the permit and this decree.

B. In addition to the wells described in paragraph 5 above, Applicant may construct additional and replacement wells in order to maintain levels of production, to meet municipal water supply systems demands or to recover the entire amount of ground water in the subject aquifers underlying the subject property, as described herein. As additional wells are planned, applications shall be filed in accordance with § 37-90-137(10), C.R.S. (1987 Supp.).

C. The pumping rates for the wells may exceed the pumping rates specified in the State Engineer's Findings in order to meet municipal water supply requirements or to produce the full acre foot allocation of water from each aquifer. Two or more wells constructed into the same aquifer shall be considered a well field. Applicant may produce the entire amount which may be produced hereunder from the particular aquifer through any combination of wells within the well field for that particular aquifer; except that wells constructed in the land area overlying not nontributary ground water may produce only such not nontributary ground water. Moreover, Applicant's augmentation plan will have to separately account for nontributary and not nontributary ground water withdrawals from each aquifer.

D. In considering applications for permits for additional wells to withdraw the ground water which is the subject of this decree, the State Engineer shall be bound by this decree and shall issue said permits in accordance with provisions of § 37-90-137(10), C.R.S. (1987 Supp.). Applicant shall not be required to submit any additional proof or evidence of matters finally determined herein when making application for permits for wells to withdraw the water which is the subject of this decree, except that the State Engineer may require revised land ownership or consent to use affidavits and may require such additional information as specified in the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.

E. In the event that the allowed average annual amounts decreed herein are adjusted pursuant to the retained jurisdiction of the Court, any existing permit(s) for any well(s) decreed herein shall be amended to reflect such adjusted average annual amounts. New permits for any wells herein shall likewise reflect any such adjustment of the average annual amounts decreed herein.

11. Proposed Uses of Water:

The water withdrawn from any well may be used, reused, and successively used and otherwise disposed of for all municipal purposes including domestic, industrial, commercial, irrigation, stock watering, recreational, fish and wildlife, fire protection and sanitary purposes subject to the provisions of paragraph 20 herein. This water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for exchange purposes, for replacement of depletions resulting from the use of this ground water or of water from other sources, and for augmentation purposes. Moreover, Applicant may use return flows of this ground water to replace stream depletions under a plan for augmentation approved in compliance with applicable law.

12. Conditions:

For each well constructed pursuant to this decree, Applicant shall comply with the following conditions:

A. A totalizing flow meter shall be installed on the well discharge prior to diverting any water therefrom. Applicant shall keep accurate records of all diversions by the well, make any calculations necessary, and submit such records to the Water Division No. 2 Engineer annually.

B. The entire length of the open bore hole shall be geophysically surveyed prior to casing and copies of the geophysical log submitted to the Division of Water Resources. Applicant may provide a geophysical log from an adjacent well or test hole, pursuant to Rule 9A of the Statewide Rules and acceptable to the State Engineer, which fully penetrates the aquifer, in satisfaction of the above requirement.

C. The ground water production shall be limited to the specific aquifer for which the well was designed. Plain, unperforated casing must be installed and properly grouted to prevent withdrawal from or intermingling of water from zones other than those for which the well was designed.

D. Each well shall be permanently identified by its permit number, this Water Court Case Number, and the name of the producing aquifer on the above-ground portion of the well casing or on the pumphouse.

CONCLUSIONS OF LAW

13. The Water Court has jurisdiction over this proceeding pursuant to § 37-90-137(6), C.R.S. This Court concludes as a matter of law that the application herein is one contemplated by law. Section 37-90-137(4), C.R.S. The application for a decree confirming Applicant's right to withdraw and use all ground water from the named nontributary and not nontributary aquifers beneath its property as described herein pursuant to § 37-90-137(4), C.R.S. (1987 Supp.), should be granted, subject to the provisions of this decree. The nature and extent of the rights to nontributary and not nontributary ground water determined herein are defined by §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1987 Supp.). The withdrawal of the ground water decreed herein in accordance with the terms of this decree will not result in material injury to vested water rights of others.

14. The rights to nontributary and not nontributary ground water determined herein shall not be administered in accordance with priority of appropriation. Such rights are not "conditional water rights" as defined by § 37-92-103(6), C.R.S. The provisions of § 37-92-301(4), C.R.S., requiring quadrennial findings of reasonable diligence are not applicable to the ground water rights determined herein. The determination of ground water rights herein need not include a date of initiation of the withdrawal project. See § 37-92-305(11), C.R.S. (1987 Supp.). Ground water herein which is not nontributary shall be administered only pursuant to §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1987 Supp.).

IT IS THEREFORE, ORDERED, ADJUDGED, AND DECREED THAT:

15. The Findings of Fact and Conclusions of Law are incorporated into this decree of the Water Court.

16. Right to Withdraw Nontributary Ground Water:

The Applicant may withdraw the nontributary ground water herein through the wells listed above at the locations listed above and in the average annual amounts and at the rates of flow specified therefor, subject to the limitations herein and the retained jurisdiction by this Court.

17. Replacement Obligation for Use of Not Nontributary Ground Water Rights:

By separate application, Applicant will seek a plan for augmentation of depletions associated with the withdrawal of not nontributary Dawson, Denver, and Arapahoe ground water as described in Paragraph 7A herein and decreed hereby. No such augmentation plan is sought in this case. Judicial approval of such a plan for augmentation is a condition precedent to withdrawal and use of these resources.

18. Retained Jurisdiction:

A. The Court retains jurisdiction as necessary to adjust the average annual amounts of nontributary and not nontributary ground water available under the property to conform to actual local aquifer characteristics as determined from adequate information obtained from wells, pursuant to § 37-92-305(11), C.R.S. (1987 Supp.). Within 60 days after completion of any well decreed herein, or any test hole(s), Applicant or any successor in interest to these water rights shall obtain a geophysical log of said well(s) or test hole(s) and shall serve such log(s) upon the State Engineer and notify each of the parties who have appeared herein that copies of the log and well completion report, if the well is completed, are available for review.

B. At such time as adequate data are available and within four months of notice that the retained jurisdiction for such purpose has been invoked, the State Engineer shall use the information available to him to make a final determination of water rights finding. The State Engineer shall submit such finding to the Water Court and to the Applicant, and the Applicant shall serve a copy upon the other parties.

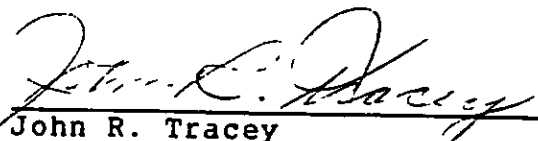
C. If no protest to such finding is made within 60 days, the Final Determination of Water Rights shall be incorporated into the decree by the Water Court. In the event of a protest, or in the event the State Engineer makes no determination within four months, such final determination shall be made by the Water Court after notice and hearing.

D. In the event Applicant fails to invoke retained jurisdiction, the State Engineer or any party hereto may do so. In the interim, the Court retains jurisdiction in this matter pursuant to § 37-92-305(11), C.R.S. (1987 Supp.).

19. Upon obtaining an augmentation for the required replacement of not nontributary withdrawals, Applicant is entitled to permits

to construct the wells described in paragraph 5 hereof which will withdraw not nontributary ground water pursuant to § 37-90-137(4), C.R.S.. and such additional wells as may be required in the future to withdraw such ground water pursuant to § 37-90-137(10), C.R.S. (1985 Supp.). With the entry of this decree, Applicant is entitled to permits to construct such wells which will withdraw nontributary ground water.


DECREE ENTERED this 18 day of May, 1988.

  
John R. Tracey  
Water Judge  
Water Division No. 2  
State of Colorado

APPROVED AS TO FORM AND CONTENT:

SAUNDERS, SNYDER, ROSS  
& DICKSON, P.C.

Date: 8 Feb. 1988

By   
William B. Tourtillott, Jr., #184  
Robert E. Schween, #12923  
707 17th Street  
Suite 3500  
Denver, Colorado 80202  
(303) 292-6600

ATTORNEYS FOR APPLICANT  
PENDLETON LAND AND EXPLORATION, INC.

ANDERSON, JOHNSON, & GIANUNZIO

Date \_\_\_\_\_

By \_\_\_\_\_  
Gregory L. Johnson, #448  
Mark T. Pifher, #12629  
104 S. Cascade Ave., Suite 204  
P.O. Box 240  
Colorado Springs, Colorado 80901-02  
(303) 632-3545

ATTORNEYS FOR  
CITY OF COLORADO SPRINGS  
and UPPER DISTRICT 10 WATER  
USERS ASSOCIATION

VRANESH AND RAISCH

Date: Jan 4, 1988

By Michael D. Shimmin  
Michael D. Shimmin, #9182  
P.O. Box 871  
Boulder, Colorado 80306  
(303) 443-6151

ATTORNEYS FOR JVRC, INC.

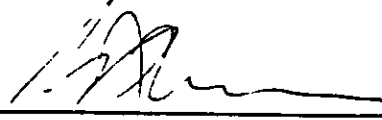
Date. \_\_\_\_\_

By \_\_\_\_\_  
Barbara Hosmer,  
Committee Member  
11755 Timberland Court  
Colorado Springs, Colorado 80908  
(303) 495-3948

REPRESENTATIVE OF  
BLACK FOREST LAND USE COMMITTEE

ANDERSON, JOHNSON, & GIANUNZIO


Date: Feb 11 1988

By   
Gregory L. Johnson, #448  
Mark T. Pifher, #12629  
104 S. Cascade Ave., Suite 204  
P.O. Box 240  
Colorado Springs, Colorado 80901-02  
(303) 632-3545

ATTORNEYS FOR  
CITY OF COLORADO SPRINGS  
and UPPER DISTRICT 10 WATER  
USERS ASSOCIATION

VRANESH AND RAISCH

Date: Jan. 4, 1988

By   
Michael D. Shimmin, #9182  
P.O. Box 871  
Boulder, Colorado 80306  
(303) 443-6151

ATTORNEYS FOR JVRC, INC.

Date: \_\_\_\_\_

By \_\_\_\_\_  
Barbara Hosmer,  
Committee Member  
11755 Timberland Court  
Colorado Springs, Colorado 80908  
(303) 495-3948

REPRESENTATIVE OF  
BLACK FOREST LAND USE COMMITTEE

ANDERSON, JOHNSON, & GIANUNZIO

Date \_\_\_\_\_

By \_\_\_\_\_  
Gregory L. Johnson, #448  
Mark T. Pifher, #12629  
104 S. Cascade Ave., Suite 204  
P.O. Box 240  
Colorado Springs, Colorado 80901-02  
(303) 632-3545

ATTORNEYS FOR  
CITY OF COLORADO SPRINGS  
and UPPER DISTRICT 10 WATER  
USERS ASSOCIATION

VRANESH AND RAISCH

Date: \_\_\_\_\_

By \_\_\_\_\_  
Michael D. Shimmin, #9182  
P.O. Box 871  
Boulder, Colorado 80306  
(303) 443-6151

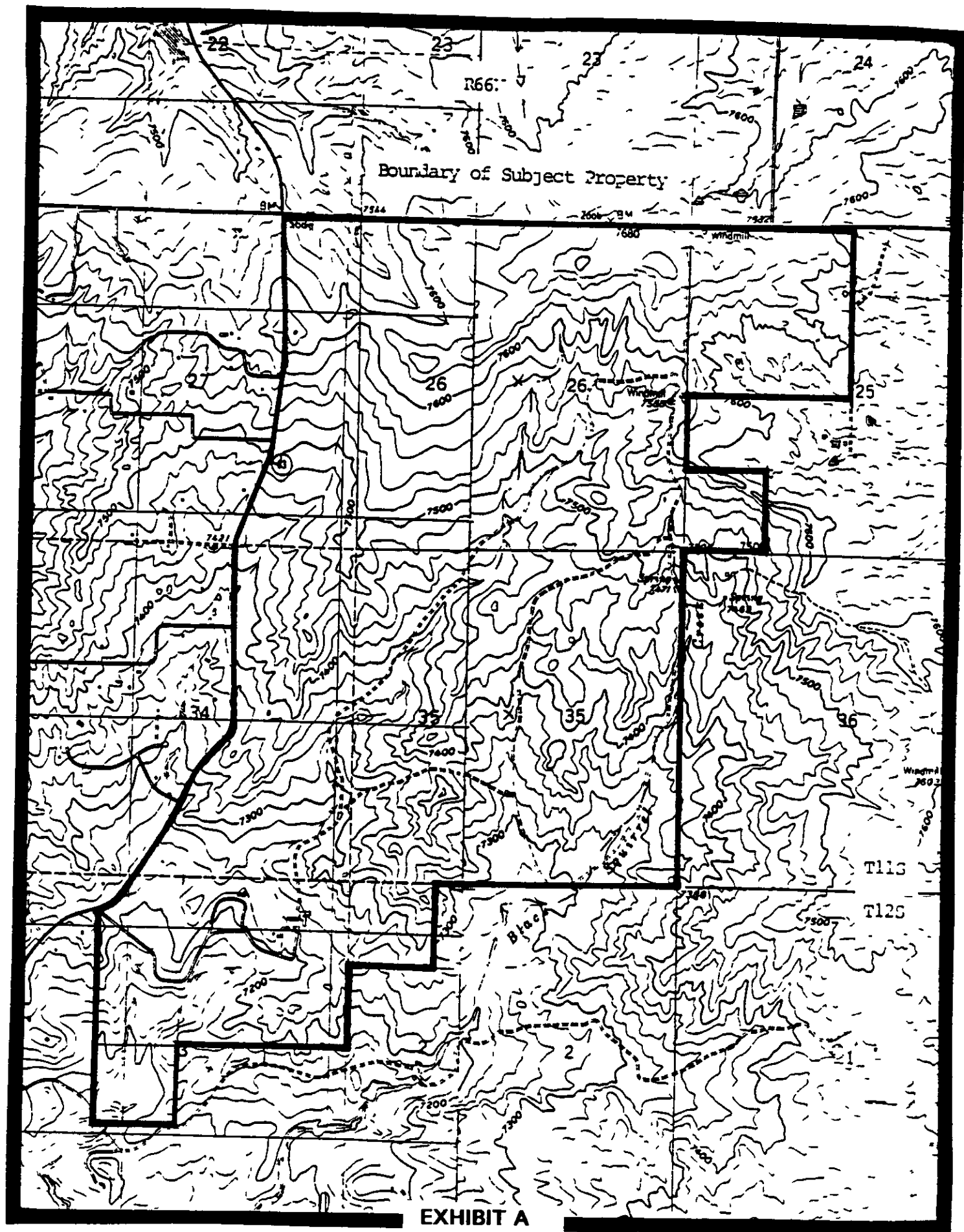
ATTORNEYS FOR JVRC, INC.

Date: 05-13-88

By Barbara Hosmer  
Barbara Hosmer,  
Committee Member  
11755 Timberland Court  
Colorado Springs, Colorado 80908  
(303) 495-3948

REPRESENTATIVE OF  
BLACK FOREST LAND USE COMMITTEE

xc: Robert E. Schween  
Michael D. Shimmin  
Black Forest Land Use Committee, pro se  
Gregory L. Johnson  
Division Engineer  
State Engineer



GENERAL LOCATION MAP

Colorado Department of Natural Resources

Colorado.gov | Contact Us

# Colorado Division of Water Resources

## Colorado's Well Permit Search

### THIS PAGE IS NOT THE ACTUAL PERMIT

The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. [\(Full Disclaimer\)](#)

#### Permit Issued: Completion Status Unknown

Help

Last Refresh: 12/6/2016 12:03:01 AM

Receipt: 3628088A      Division: 1  
 Permit #: 1689-BD -      Water District: 1  
 Well Name / #:      County: EL PASO  
 Designated Basin: KIOWA-BDIOU      Management District:  
 Case Number:  
 WDID:

#### [-] Imaged Documents - Permit File

Document Name	Date Imaged	Annotated
<a href="#">Findings &amp; Order for Determination</a>	05/21/2009	No

#### [-] Applicant/Contact

Applicant/Contact Name	Mailing Address	City/State/Zip
MCCUNE GEORGE F & EVELYN	17480 MERIDIAN RD	ELBERT, CO 80106-8916

#### [-] Location Information

##### Approved Well Location:

Q40	Q160	Section	Township	Range	PM	Footage from Section Lines
		24	11.0S	65.0W	Sixth	

Northing (UTM y): 4325550.5      Easting (UTM x): 533176.3  
 Location Accuracy: Spotted from quarters

##### Subdivision Name

##### Filing Block Lot

Parcel ID:      Acres in Tract: 900.52

#### [-] Permit Details

Date Issued: 06/25/2008      Date Expires:

Uses (See [Imaged Documents](#) for more information)

General Use(s): COMMERCIAL      Aquifer(s): LARAMIE FOX HILLS  
 DOMESTIC

##### Special Use:

##### Area which may be irrigated:

##### Annual volume of appropriation:

##### Statute:

Cross Reference Permit(s): Permit Number      Receipt

Comments: DETER ISSUED

#### [-] Construction/Usage Details

Well Construction Date:      Pump Installation Date:  
 Well Plugged:      1st Beneficial Use:

Elevation	Depth	Perforated Casing (Top)	Perforated Casing (Bottom)	Static Water Level	Pump Rate
-----------	-------	-------------------------	----------------------------	--------------------	-----------

#### [-] Application/Permit History

Permit Issued	06/25/2008
Application Received	04/17/2008

#### Disclaimer

**\*The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.**

**This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate.** The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).

Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn

more about well permitting in Colorado, please visit [DWR's Well Permitting Page](#). If you have any questions about this well permit file, please contact the [DWR Ground Water Information Desk](#).

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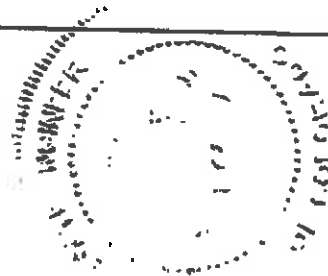
**COLORADO GROUND WATER COMMISSION  
FINDINGS AND ORDER**

IN THE MATTER OF AN APPLICATION FOR DETERMINATION OF WATER RIGHT TO  
ALLOW THE WITHDRAWAL OF GROUND WATER IN THE KIOWA-BIJOU DESIGNATED  
GROUND WATER BASIN

APPLICANT: GEORGE F. MCCUNE AND EVELYN MCCUNE

AQUIFER: LARAMIE-FOX HILLS

DETERMINATION NO.: 1689-BD



In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Laramie-Fox Hills Aquifer.

**FINDINGS**

1. The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
2. The applicant requests a determination of rights to designated ground water in the Laramie-Fox Hills Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter "Commission") has jurisdiction.
5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 26300 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

- a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 15 percent.
- b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 195 feet.
7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal pursuant to the data in the paragraphs above for the 900.52 acres of overlying land claimed by the applicant is 263 acre-feet.
9. A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural stream or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

15. In accordance with Sections 37-90-107(7) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on May 8 and May 15, 2008.
16. No objections to the determination of water right and proposed allocation of ground water were received within the time limit set by statute.
17. In order to prevent unreasonable impairment to the existing water rights of others within the Kiowa-Bijou Designated Ground Water Basin it is necessary to impose conditions on the determination of water right and proposed allocation of ground water. Under conditions as stated in the following Order, no unreasonable impairment of existing water rights will occur from approval of this determination of water right or from the issuance of well permits for wells to withdraw the authorized amount of allocated ground water from the aquifer.

#### ORDER

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, the Colorado Ground Water Commission orders that the application for determination of rights to designated ground water in the Laramie-Fox Hills Aquifer underlying 900.52 acres of land, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, is approved subject to the following conditions:

18. The allowed average annual amount of withdrawal of ground water from the aquifer shall not exceed 263 acre-feet. The allowed maximum annual amount of withdrawal may exceed the allowed average annual amount of withdrawal as long as the total volume of water withdrawn does not exceed the product of the number of years since the date of approval of this determination times the allowed average annual amount of withdrawal.
19. To conform to actual aquifer characteristics, the Commission may adjust the allowed average annual amount of ground water to be withdrawn from the aquifer based on analysis of geophysical logs or other site-specific data if such analysis indicates that the initial estimate of the volume of water in the aquifer was incorrect.
20. The applicant may pump the allowed average annual amount of withdrawal and the allowed maximum annual amount of withdrawal from one or more wells of a well field in any combination, so long as the total combined withdrawal of the wells does not exceed the amounts described in this Order.
21. No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.
22. The use of ground water from this allocation shall be limited to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The place of use shall be limited to the above described 900.52 acre land area.

23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county - in which the claimed overlying land is located - notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient, and the date of transfer.
24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:
  - a. The wells shall be located on the above described 900.52 acre overlying land area.
  - b. The wells must be constructed to withdraw water from only the Laramie-Fox Hills Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.
  - c. The entire depth of each well must be geophysically logged prior to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.
  - d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.
  - e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.
  - f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.
25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Applicant: George F. McCune and Evelyn McCune  
Aquifer: Laramie-Fox Hills  
Determination No.: 1689-BD

Page 5

Dated this 25th day of June, 2008.

*Dick Wolfe*

Dick Wolfe, P.E.  
Executive Director  
Colorado Ground Water Commission

By:

*Keith Vander Horst*

Keith Vander Horst, P.E.  
Water Resource Engineer

Prepared by: JPM

92GWS 1  
03/2005

EXHIBIT A  
1689-BD  
Page 1 of 2

STATE OF COLORADO  
OFFICE OF THE STATE ENGINEER  
DIVISION OF WATER RESOURCES  
1313 Sherman St. Room 821  
Denver, CO 80203  
(303) 866-3581 Fax (303) 866-3589

RECEIVED  
APR 17 2008  
WATER RESOURCES  
STATE ENGINEER  
COLO.

**NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT**

I (We) George F. McCune and Evelyn McCune  
(Name(s))

claim and say that I (we) am (are) the owner(s) of the following described property consisting of  
900.52 acres in the County of El Paso  
State of Colorado:

(Insert the property legal description)

**SW/4SW/4 Section 18 and W/2 of the W/2 Section 19, T11S, R64W, and S/2SE/4 Section 13  
and All of Section 24, T11S R65W, 6<sup>th</sup> PM, El Paso County, 900.52 acres**

See attached Quitclaim Deed dated November 29, 1976, and map.

and, that the ground water sought to be withdrawn from the Laramie-Fox Hills  
aquifer underlying the above-described land has not been conveyed or reserved to another, nor has  
consent been given to its withdrawal by another.

Further, I (we) claim and say that I (we) have read the statements made herein; know the contents  
hereof; and that the same are true to my (our) knowledge.

Signature

George F. McCune

Date

Signature

Evelyn M. McCune

Date

**INSTRUCTIONS:**

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word  
processing means. See additional information on the reverse side.

County of El Paso, State of Colorado

RECEIVED AT 92

RECEIPT NO. 280197

HARVEST SEALS

Best Copy Available

NOV 29 1976

## QUITCLAIM DEED

RECEIVED

APR 17 2008

WATER RESOURCES  
STATE ENGINEER  
COLO.

SEAL

RAY C. McCUNE and GRETA C. McCUNE, as husband and wife, of the County of El Paso and State of Colorado, for the consideration of One Dollar (\$1.00) and other good and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. McCUNE and EVELYN M. McCUNE, husband and wife, in joint tenancy, of the County of Elbert and State of Colorado, a one-half interest in and to all minerals underlying the following described property, including oil and gas, said property lying and being in the County of El Paso and State of Colorado, to wit:

The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Sixty-four; the West half of the West half of Section Nineteen, Township Eleven, Range Sixty-four; the South half of the Southeast Quarter of Section Thirteen, Township Eleven, Range Sixty-five; All of Section Twenty-four, Township Eleven, Range Sixty-five, containing in all Nine hundred and fifty-two hundredths (900.52) acres, more or less, according to Government Survey,

with all its appurtenances.

No

Consideration

DATED and signed this 22 day of Nov., 1976.

STATE DOCUMENTARY

NOV 29 1976

FEE \$ None

Ray C. McCune  
Ray C. McCune

Greta C. McCune  
Greta C. McCune

STATE OF COLORADO )  
COUNTY OF EL PASO ) ss.

The foregoing instrument was acknowledged before me this 22 day of Nov., 1976, by Ray C. McCune and Greta C. McCune.

Shirley J. Gentry  
Notary Public

My commission expires: 6/20/78

APR 17 2008

APPLICATION FOR DETERMINATION OF WATER RIGHT  
WITHIN A DESIGNATED GROUND WATER BASIN  
PURSUANT TO SECTION 37-90-107(7), C.R.S.

WATER RESOURCES  
STATE ENGINEER  
COLORADO

Please note: This application may only be used to apply for a determination of rights to ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer underlying land areas located within a Designated Ground Water Basin. Review the instructions on the reverse of this form. This form must be completed, signed, dated and submitted to the Ground Water Commission with a non-refundable \$60 filing fee. A separate form must be used for each aquifer determination. Type or print in black ink.

1. APPLICANT INFORMATION

Name of Applicant

George F. McCune and Evelyn McCune

Applicant Mailing Address

17480 Meridian Road, Elbert, CO 80106-8916  
c/o Colorado Water Plans, P O Box 1955, Elbert, CO 80106

Applicant Telephone Number (include area code)

~~303-648-0990~~ Contact 303 646-4201

719-495-2562

2. AMOUNT OF OVERLYING LAND - the total and area claimed and described by the applicant in Item #8 below, consisting of 900.52 acres.

3. AQUIFER Laramie-Fox Hills NT

4. EXISTING WELLS - Are there any wells located on the claimed and described overlying land? Yes      No X  
If yes, provide a complete list of all wells located on the overlying land area as an attachment to this application.

5. ANNUAL AMOUNT OF GROUND WATER - to be withdrawn, for intended beneficial uses, from the aquifer underlying the described land area claimed by the applicant in Item #8 below. Please specify one of the following:



Maximum allowable annual acre-feet



\_\_\_\_\_ acre-feet annually



Maximum allowable annual acre-feet, excluding \_\_\_\_\_ acre-feet from that amount

6. USE OF GROUND WATER - description of intended beneficial uses of the ground water to be withdrawn from the aquifer  
All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife. The water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for replacement of depletion's from the use of water from other sources and for all other augmentation purposes

7. PLACE OF USE - of the ground water shall be considered to be that overlying land area claimed and described by the applicant in Item #8 below, unless a legal description or accurate scale map is provided which describes an alternate/additional place of use.

8. REQUIRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall allocate ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying land. For this reason, a Nontributary Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim (form GWS-48), including a description of the overlying land area subject to this determination, must be submitted as an attachment to the application.

9. SIGNATURE OF APPLICANT - must be original signature - The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements herein, know the contents thereof, and state that they are true to my knowledge.

Signature

George F. McCune

Date

Evelyn M. McCune

- print name and title George F. McCune and Evelyn McCune, Owners

FOR OFFICE USE ONLY

DIV 8 CO      WD 1 BASIN 2 MD     

Trans Number: 3628088 H

4/17/2008 1:34:24 PM

Geoff Davis (21)

Total Trans Amt: \$240.00

CHECK

Check Number: 9724

Check Amount: \$240.00

George F. McCune and Evelyn McCune  
Subsurface Water Rights

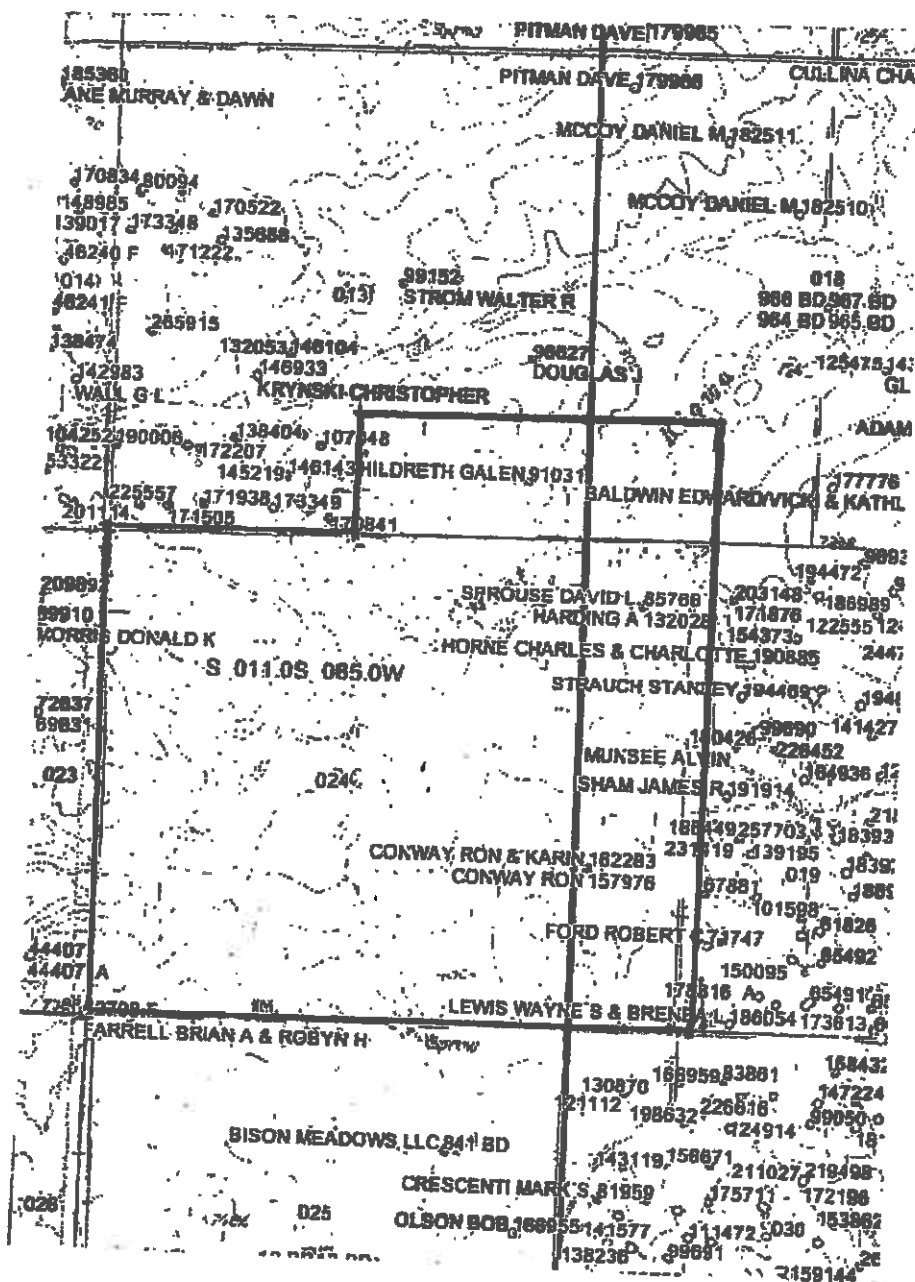
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SW/4SW/4 Section 18 and W/2 of the W/2 Section 19, T11S, R64W,  
and S/2SE/4 Section 13 and All of Section 24, T11S R65W, 6<sup>th</sup> PM,

RECEIVED

APR 17 2008

WATER RESOURCES  
STATE ENGINEER  
CCLO.



THERE ARE NO WATER WELLS ON THE PROPERTY

LOCATION MAP from CDSS

RECEIVED

APR 17 2008

WATER RESOURCES  
STATE ENGINEER  
COLORADO



# COLORADO WATER PLANS

Water Consultants

Colorado Ground Water Commission  
Division of Water Resources  
Department Of Natural Resources  
1313 Sherman Street - Room 818  
Denver, Colorado 80203

Re: Application for Determination of Water Right  
Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

Client:

By: George F. McCune & Evelyn M. McCune

By: \_\_\_\_\_

Date: 4-14-08

Colorado Water Plans LLC  
Craig L. Curl  
Dr. W. Jerry Koch  
Lisa S. Weinstein, Esq. #35688

By: [Signature]  
Date: 4-14-08

P.O. Box 1955 / Elizabeth / Colorado / 80107  
Office: 303/646-3895 Fax: 303/646-9655

**DETERMINATION OF WATER RIGHT  
SECTION 37-90-107(7)**

APPLICANT: George F. McCune and Evelyn McCune

BASIN: Kiowa-Bijou

COUNTY: El Paso

AQUIFER: Laramie-Fox Hills

RECEIPT NO. 3628088A

NUMBER OF ACRES IN TRACT: 900.52 acres

GENERAL LOCATION: SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6<sup>th</sup> PM,  
S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6<sup>th</sup> PM.

**AQUIFER DATA**

AMOUNT AVAILABLE FOR APPROPRIATION: (195 feet SS)(900.52 Acres)(0.15 SY) = 26340 AF 263.4 AFyr

ADJUSTMENTS: None

ANNUAL AMOUNT: 263.4 AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: N/A

OVERLAP AREA: N/A

AREA CHECKED: Sections 18, 19, and 30, T11S, R64W  
Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: N/A

REPLACEMENT WATER STATUS OF CLAIMED LAND AREA: Nontributary

REPLACEMENT PLAN REQUIRED: Not Required

AQUIFER INTERVAL (CENTRAL DATA POINT): 2620 feet to 2940 feet below ground surface

COMMENTS: The SS was considered 195 feet based on the SS map for the Laramie-Fox Hills aquifer.

Evaluated by: Justina Mickelson, Ground Water Commission Staff  
Reviewed by: *CBG*

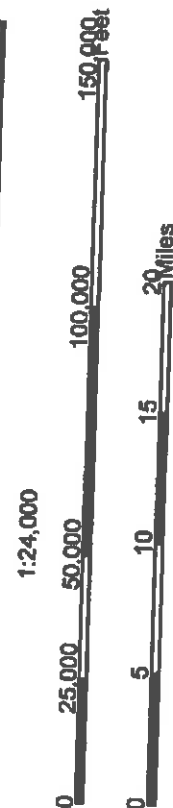
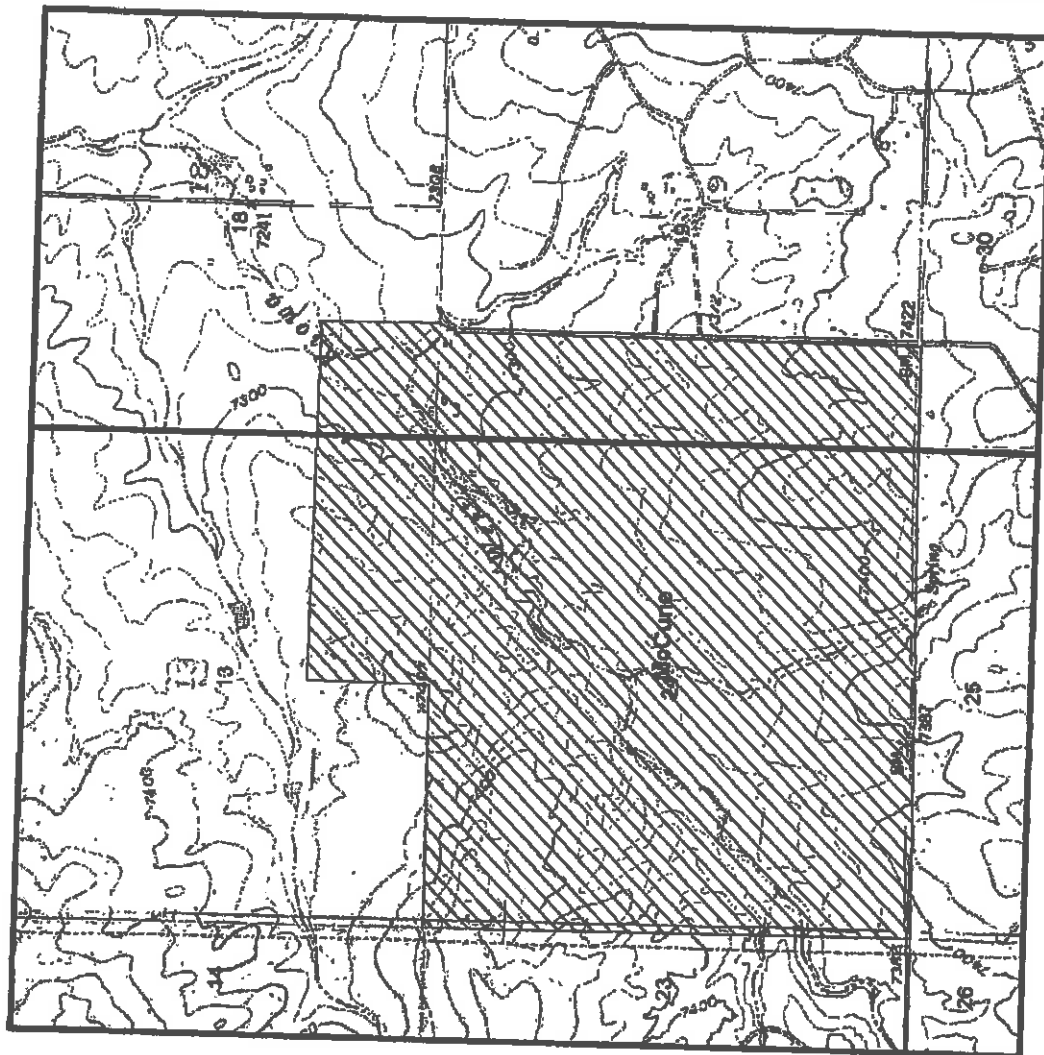
**DIVISION OF WATER RESOURCES  
STATE OF COLORADO**

Receipt Number: 3628088A  
 Applicant: George F. McCune  
 and Evelyn McCune  
 Basin: Kiowa-Bijou  
 GWMD:  
 Aquifer: Laramie-Fox Hills  
 Sections: 13 and 24, T11S, R65W  
 Sections: 18 and 19, T11S, R64W  
 Meridian: 6  
 Area claimed: 900.52 acres  
 897 acres measured  
 Perimeter = 7,963 m

**Legend**  
 □ Township  
 □ Section  
 ▨ jpm\_work



Office of the State Engineer  
 Division of Water Resources  
 Department of Natural Resources



**DIVISION OF WATER RESOURCES  
STATE OF COLORADO**

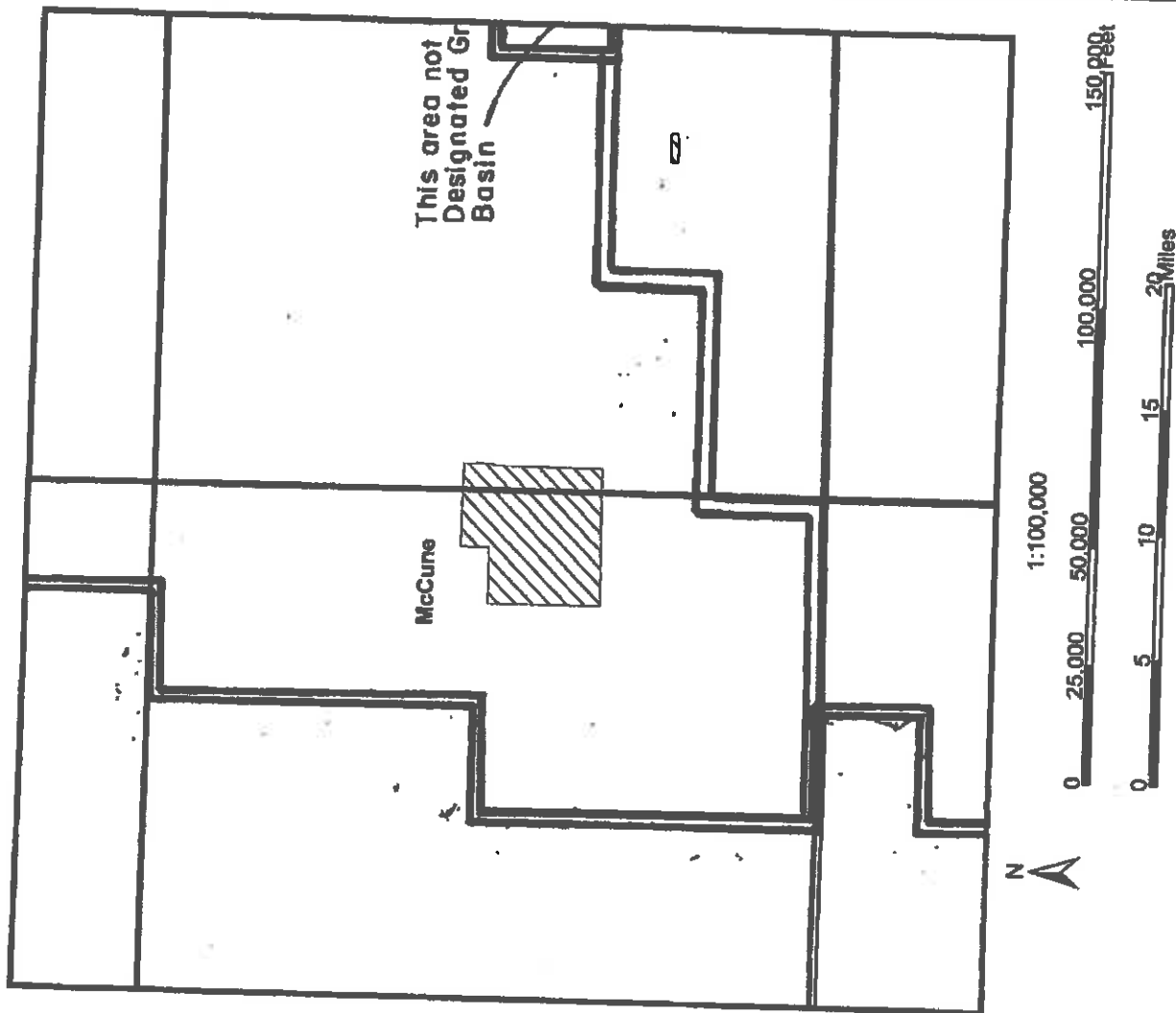
Receipt Number: 3628088A  
 Applicant: George F. McCune  
 and Evelyn McCune  
 Basin: Kiowa-Bijou  
 GWMD:  
 Aquifer: Laramie-Fox Hills  
 Sections: 13 and 24, T11S, R65W  
 Sections: 18 and 19, T11S, R64W  
 Meridian: 6  
 Area claimed: 900.52 acres  
 897.22 acres measured.  
 Perimeter = 7,963 m

Tributary Status NT

**Legend**  
☐ Township  
☒ jpm\_work



Office of the State Engineer  
 Division of Water Resources  
 Department of Natural Resources



# DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088A  
Applicant: George F. McCune  
and Evelyn McCune  
Basin: Kiowa-Bijou  
GWMD:  
Aquifer: Laramie-Fox Hills

Sections: 13 and 24, T11S, R65W  
Sections: 18 and 19, T11S, R64W  
Meridian: 6

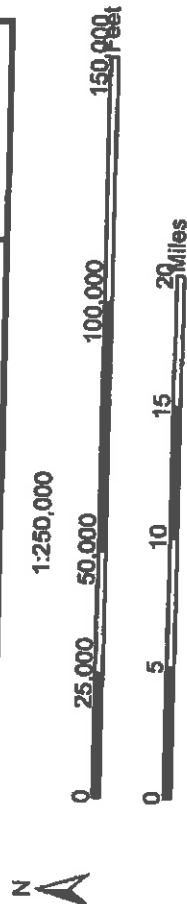
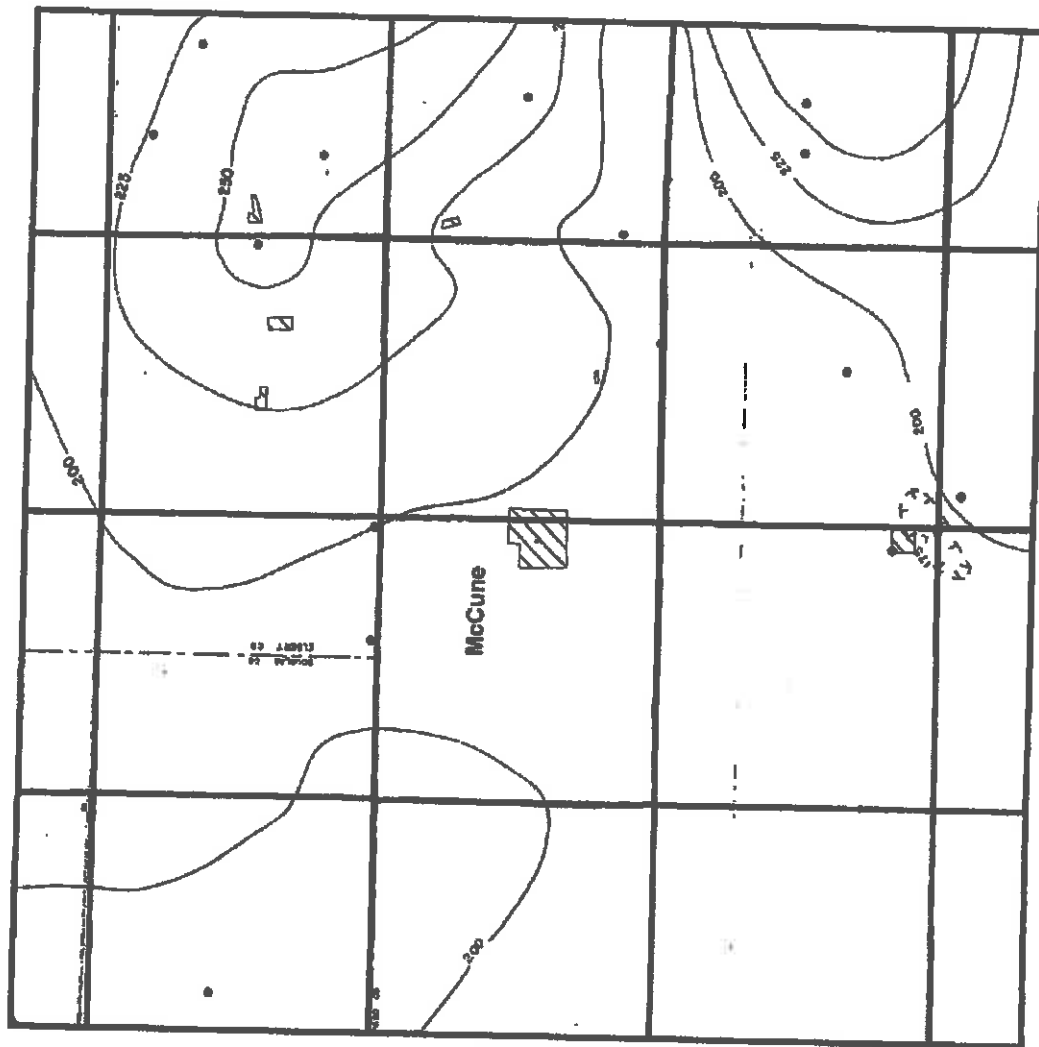
Area claimed: 900.52 acres  
897.22 acres measured  
Perimeter = 7,963 m

Saturated Sands

Legend  
□ Township  
▨ jpm\_work



Office of the State Engineer  
Division of Water Resources  
Department of Natural Resources





DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

Bill Ritter, Jr.  
Governor

Harris D. Sherman  
Executive Director

Dick Wolfe, P.E.  
Director

May 1, 2008

George F. McCune and Evelyn McCune  
c/o Colorado Water Plans  
P.O. Box 1955  
Elizabeth, CO 80107

RE: Applications for Determinations of Water Right to Appropriate Ground Water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson Aquifers Underlying a 900.52-Acre Tract,

Receipt Nos. 3628088A-D

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the legal notice to be published in the Ranchland News newspaper as required for the above described applications. If you find any errors or omissions in the notice, please contact this office by phone as soon as possible so that corrections may be made prior to publication. This office will bill you at a later time for the actual cost of this publication.

If you have any questions concerning these applications, please contact me at this office.

Sincerely,

Justina Mickelson  
Physical Science Researcher Scientist  
Designated Basins Branch

Enclosures: a/s  
cc: George and Evelyn McCune

Office of the State Engineer

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589  
[www.water.state.co.us](http://www.water.state.co.us)

OFFICE OF THE STATE ENGINEER  
Division of Water Resources – Department of Natural Resources  
1313 Sherman St, Room 818, Denver, Colorado 80203  
Phone 303-866-3581 – FAX 303-866-3589 – [www.water.state.co.us](http://www.water.state.co.us)

May 1, 2008

Ranchland News  
PO Box 307  
Simla, CO 80835

Applicant: George F. McCune and Evelyn McCune

**-EMAIL- DOCUMENT TRANSFER-**

Please publish the enclosed legal notice in your editions of May 8, 2008 and May 15, 2008, or as close to these dates as possible. Please single-space all the enclosed material in your standard single column legal notice format. Font size shall not be less than six-point type and not more than nine-point in size.

Prior to publishing the legal notice, a proof copy must be submitted to this office for approval. The Ground Water Commission staff will inspect the proof copy and a reply as to its correctness will be made immediately by phone to your office. The proof copy must be directed to the attention of Justina Mickelson, Colorado Division of Water Resource at the above address, or by email [justina.mickelson@state.co.us](mailto:justina.mickelson@state.co.us) or fax 303-866-3589.

The state Controller and the State Purchasing Agent require that four copies of the billing and four copies of the proof of publication affidavit must be received in order to process billing invoices for legal notice publications. Two copies of the proof of publication must be notarized.

Since we must re-bill the applicant prior to the official action concerning their application request, please transmit the billing copies together with the proofs of publication as soon as possible.

Should you have any questions concerning publication of this notice, please contact this office.

Sincerely,

Justina Mickelson  
Physical Science Researcher Scientist  
Designated Basins Branch

Enclosure (a/s)

cc: Robert R. Loose, Commission Member

BEFORE THE COLORADO GROUND WATER COMMISSION

KIOWA-BIJOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY

TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCune and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th PM. The applicant claims ownership of this land and control of the ground water in the above-described aquifers under this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The maximum allowable annual amount of ground water in each aquifer underlying the described property will be allocated.

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, the Colorado Ground Water Commission shall allocate ground water from the above-described aquifers based on ownership of the overlying land and an aquifer life of one hundred years. A preliminary evaluation of the applications by the Commission Staff finds the annual amount of water available for allocation from each of the described aquifers underlying the above-described property to be as follows: 263.4 acre-feet for the Laramie-Fox Hills, 398.0 acre-feet for the Arapahoe, 528.2 acre-feet for the Denver, and 819.5 for the Dawson subject to final staff evaluation. The estimated available annual acre-feet allocation amount for each aquifer indicated above may be increased or decreased by the Commission to conform to the actual aquifer characteristics, based upon site specific data.

In accordance with Rule 5.3.6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement status for the above aquifers underlying the above-described property to be as follows: nontributary for the Laramie-Fox Hills, nontributary for the Arapahoe, nontributary for the Denver, and nontributary (actual impact replacement) for the Dawson.

Upon Commission approval of these determinations of water right, well permits for wells to withdraw the allowed allocation from a specific aquifer shall be available upon application, subject to the conditions of the determination and the Designated Basin Rules and subject to approval by the Commission. Such wells must be completed in the specified aquifer and located on the above described 900.52 acre property. Well permits for wells to withdraw ground water from the Dawson aquifer would also be subject to the conditions of a replacement plan to be approved by the Commission.

Any person wishing to object to the approval of these determinations of water right must do so in writing, briefly stating the nature of the objection and indicating the above applicant, property description and the specific aquifers that are the subject of the objection. The objection must be accompanied by a \$10 per aquifer fee and must be received by the Commission Staff, Colorado Ground Water Commission, 818 Centennial Building, 1313 Sherman Street, Denver, Colorado 80203, by June 16, 2008.

# PUBLISHER'S AFFIDAVIT

STATE OF COLORADO )  
COUNTY OF ELBERT ) ss.

I, Susan Lister, do solemnly affirm that I am the Publisher of RANGLAND NEWS; that the same is a weekly newspaper published at Simla, County of Elbert, State of Colorado, and has a general circulation therein; that said newspaper has been continuously and uninterruptedly published in said County of Elbert for a period of at least 52 consecutive weeks next prior to the first publication of the annexed notice, that said newspaper is entered in the post office at Calhan, Colorado as second class mail matter and that said newspaper is a newspaper within the meaning of the Act of the General Assembly of the State of Colorado, approved March 30, 1923, and entitled "Legal Notices and Advertisements," with other Acts relating to the printing and publishing of legal notices and advertisements. That the annexed notice was published in the regular and entire issue of said newspaper, once each week for two successive weeks; that the first publication of said notice was in the issue of said newspaper dated:

May 8, 2008

and the last publication of said notice was in the issue of said newspaper dated:

May 15, 2008

and that copies of each number of said paper in which said notice and/or list was published were delivered by carriers or transmitted by mail to each of the subscribers of said newspaper, Ranchland News, according to the accustomed mode of business in this office.

Susan Lister  
Publisher

The above certificate of publication was subscribed and affirmed to before me, a Notary Public, to be the identical person described in the above certificate, on the

15 day of May, 2008  
Nikki Lister  
Notary Public

1/22/12  
(My Notary Public Commission Expiration Date)

## Determinations of Water

### Right

BEFORE THE COLORADO GROUND  
WATER COMMISSION

KIOWA-BUOU DESIGNATED GROUND  
WATER BASIN- EL PASO COUNTY

TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCune and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th PM. The applicant claims ownership of this land and control of the ground water in the above-described aquifers under this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The maximum allowable annual amount of ground water in each aquifer underlying the described property will be allocated.

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First Publication May 8, 2008  
Final Publication May 15, 2008  
In Ranchland News  
Legal No. 12,936

RECEIVED

MAY 19 2008

WATER RESOURCES  
STATISTICAL ENGINEER  
COLO.

# PUBLISHER'S AFFIDAVIT

STATE OF COLORADO )  
COUNTY OF ELBERT ) ss.

I, Susan Lister, do solemnly affirm that I am the Publisher of RANCHLAND NEWS; that the same is a weekly newspaper published at Simla, County of Elbert, State of Colorado, and has a general circulation herein; that said newspaper has been continuously and uninterruptedly published in said County of Elbert for a period of at least 52 consecutive weeks next prior to the first publication of the annexed notice, that said newspaper is entered in the post office at Calhan, Colorado as second class mail matter and that said newspaper is a newspaper within the meaning of the Act of the General Assembly of the State of Colorado, approved March 30, 1923, and entitled "Legal Notices and Advertisements," with other Acts relating to the printing and publishing of legal notices and advertisements. That the annexed notice was published in the regular and entire issue of said newspaper, once each week for two successive weeks; that the first publication of said notice was in the issue of said newspaper dated:

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May 15, 2008

and that copies of each number of said paper in which said notice and/or list was published were delivered by carriers or transmitted by mail to each of the subscribers of said newspaper, Ranchland News, according to the customary mode of business in this office.

Susan Lister  
Publisher

The above certificate of publication was subscribed and affirmed to before me, a Notary Public, to be the identical person described in the above certificate, on the

15 day of May, 2008  
Sue Lister  
Notary Public

1/22/12  
(Notary Public Commission Expiration Date)

## Determinations of Water Right

BEFORE THE COLORADO GROUND WATER COMMISSION

KIOWA-BLOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY

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First Publication May 8, 2008  
Final Publication May 15, 2008  
In Ranchland News  
Legal No. 12,936

RECEIVED

MAY 19 2008

WATER RESOURCES  
STATE OF COLORADO

Ranchland News  
115 Sioux Avenue, PO Box 307  
Simla CO 80835

Invoice	5/ 8/2008 DATE	3 NUMBER
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MAY 19 2008

WATER RESOURCES  
STATE ENGINEER  
C.C.O.

ID# 192

Colorado Ground Water Commission  
1313 Sherman Street, Room 818  
Denver CO 80203

Date	Description	Units	Amount
05/08/2008	Legal - 11.5 Picas McCune, legal 12,936	89.000	43.97
05/15/2008	Legal - Rerun - 11.5 Picas McCune, legal 12,936	89.000	30.71
***** Total			74.68



DEPARTMENT OF NATURAL RESOURCES

**DIVISION OF WATER RESOURCES**

**RECEIVED**

**JUN 02 2008**

**WATER RESOURCES  
STATE ENGINEER  
COLO.**

Bill Ritter, Jr.  
Governor

Harris D. Sherman  
Executive Director

Dick Wolfe, P.E.  
Director

May 21, 2008

George F. McCune and Evelyn McCune  
c/o Colorado Water Plans  
P.O. Box 1955  
Elizabeth, CO 80107

Invoice No. 08-PUB-220

**INVOICE**

Pursuant to Section 37-90-116, C.R.S., applicants are required to pay for the actual expense of publication for determinations of water right, well permit and change of water right applications.

Your application for determinations of water right to appropriate ground water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson aquifers was published in the Ranchland News newspaper on May 8 and May 15, 2008.

The following cost was incurred:

1. Actual cost of publication: \$74.68
2. Additional fees: none

**PAYABLE TO: DIVISION OF WATER RESOURCES**

**\$74.68**

Your application cannot be considered for approval until the charges are paid.

***Please return the enclosed copy of this invoice with remittance within thirty (30) days.***

(A copy of the publication affidavit is enclosed for your records.)

Sincerely,

Justina P. Mickelson  
Physical Science Researcher Scientist  
Designated Basins Branch

Enclosures (a/s)

Trans Number: 3629687  
6/2/2008 9:32:21 AM  
Debbie Gonzales (20)  
Total Trans Amt: \$231.58  
**CHECK**  
Check Number: 9784  
Check Amount: \$231.58

**Office of the State Engineer**

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589

[www.water.state.co.us](http://www.water.state.co.us)



DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

June 27, 2008

George F. and Evelyn McCune  
17480 Meridian Road  
Elbert, CO 80106-8916

Bill Ritter, Jr.  
Governor

Harris D. Sherman  
Executive Director

Dick Wolfe, P.E.  
Director

**RE: Determination of Water Right**

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1689-BD, for the allocation of ground water in the Laramie-Fox Hills aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county – in which the overlying land is located – so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

Sincerely,

Justina P. Mickelson  
Physical Science Researcher Scientist  
Designated Basins Branch

Enclosures: a/s

Office of the State Engineer

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589

[www.water.state.co.us](http://www.water.state.co.us)



Colorado Department of Natural Resources

Colorado.gov | Contact Us

# Colorado Division of Water Resources

## Colorado's Well Permit Search

### THIS PAGE IS NOT THE ACTUAL PERMIT

The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. [\(Full Disclaimer\)](#)

#### Permit Issued: Completion Status Unknown

Help

Last Refresh: 12/6/2016 12:03:01 AM

**Receipt:** 3628088B      **Division:** 1  
**Permit #:** 1690-BD -      **Water District:** 1  
**Well Name / #:**      **County:** EL PASO  
**Designated Basin:** KIOWA-BIJOU      **Management District:**  
**Case Number:**  
**WDID:**

#### [-] Imaged Documents - Permit File

Document Name	Date Imaged	Annotated
<a href="#">Findings &amp; Order for Determination</a>	05/21/2009	No

#### [-] Applicant/Contact

Applicant/Contact Name	Mailing Address	City/State/Zip
MCCUNE GEORGE F & EVELYN	17480 MERIDIAN RD	ELBERT, CO 80106-8916

#### [-] Location Information

##### Approved Well Location:

Q40	Q160	Section	Township	Range	PM	Footage from Section Lines
		24	11.0S	65.0W	S6th	
Northing (UTM y):		4325550.5		Easting (UTM x):		533176.3
Location Accuracy:		Spotted from quarters				

Subdivision Name

Filing Block Lot

Parcel ID:

Acres in Tract: 900.52

#### [-] Permit Details

Date Issued: 06/25/2008      Date Expires:

Uses (See [Imaged Documents](#) for more information)General Use(s): COMMERCIAL  
DOMESTIC

Aquifer(s): ARAPAHOE

Special Use:

Area which may be irrigated:

Annual volume of appropriation:

Statute:

Cross Reference Permit(s): Permit Number      Receipt

Comments: DETER ISSUED

#### [-] Construction/Usage Details

Well Construction Date:	Pump Installation Date:
Well Plugged:	1st Beneficial Use:

Elevation	Depth	Perforated Casing (Top)	Perforated Casing (Bottom)	Static Water Level	Pump Rate

#### [-] Application/Permit History

Permit Issued	06/25/2008
Application Received	04/17/2008

#### Disclaimer

**\*The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.**

**This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate.** The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).

Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn

more about well permitting in Colorado, please visit [DWR's Well Permitting Page](#). If you have any questions about this well permit file, please contact the [DWR Ground Water Information Desk](#).

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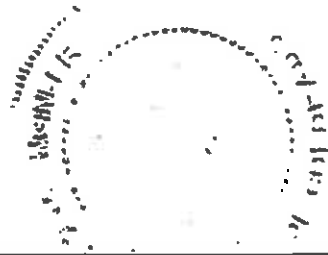
**COLORADO GROUND WATER COMMISSION  
FINDINGS AND ORDER**

IN THE MATTER OF AN APPLICATION FOR DETERMINATION OF WATER RIGHT TO  
ALLOW THE WITHDRAWAL OF GROUND WATER IN THE KIOWA-BIJOU DESIGNATED  
GROUND WATER BASIN

APPLICANT: GEORGE F. MCCUNE AND EVELYN MCCUNE

AQUIFER: ARAPAHOE

DETERMINATION NO.: 1690-BD



In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Arapahoe Aquifer.

**FINDINGS**

1. The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
2. The applicant requests a determination of rights to designated ground water in the Arapahoe Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter "Commission") has jurisdiction.
5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 39800 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

- a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 17 percent.
- b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 260 feet.
7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal pursuant to the data in the paragraphs above for the 900.52 acres of overlying land claimed by the applicant is 398 acre-feet.
9. A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural stream or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

15. In accordance with Sections 37-90-107(7) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on May 8 and May 15, 2008.
16. No objections to the determination of water right and proposed allocation of ground water were received within the time limit set by statute.
17. In order to prevent unreasonable impairment to the existing water rights of others within the Kiowa-Bijou Designated Ground Water Basin it is necessary to impose conditions on the determination of water right and proposed allocation of ground water. Under conditions as stated in the following Order, no unreasonable impairment of existing water rights will occur from approval of this determination of water right or from the issuance of well permits for wells to withdraw the authorized amount of allocated ground water from the aquifer.

### ORDER

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, the Colorado Ground Water Commission orders that the application for determination of rights to designated ground water in the Arapahoe Aquifer underlying 900.52 acres of land, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, is approved subject to the following conditions:

18. The allowed average annual amount of withdrawal of ground water from the aquifer shall not exceed 398 acre-feet. The allowed maximum annual amount of withdrawal may exceed the allowed average annual amount of withdrawal as long as the total volume of water withdrawn does not exceed the product of the number of years since the date of approval of this determination times the allowed average annual amount of withdrawal.
19. To conform to actual aquifer characteristics, the Commission may adjust the allowed average annual amount of ground water to be withdrawn from the aquifer based on analysis of geophysical logs or other site-specific data if such analysis indicates that the initial estimate of the volume of water in the aquifer was incorrect.
20. The applicant may pump the allowed average annual amount of withdrawal and the allowed maximum annual amount of withdrawal from one or more wells of a well field in any combination, so long as the total combined withdrawal of the wells does not exceed the amounts described in this Order.
21. No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.
22. The use of ground water from this allocation shall be limited to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The place of use shall be limited to the above described 900.52 acre land area.

23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county - in which the claimed overlying land is located - notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient, and the date of transfer.
24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:
  - a. The wells shall be located on the above described 900.52 acre overlying land area.
  - b. The wells must be constructed to withdraw water from only the Arapahoe Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.
  - c. The entire depth of each well must be geophysically logged prior to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.
  - d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.
  - e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.
  - f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.
25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Applicant: George F. McCune and Evelyn McCune  
Aquifer: Arapahoe  
Determination No.: 1890-BD

Page 5

Dated this 25<sup>th</sup> day of June, 2008.



Dick Wolfe, P.E.  
Executive Director  
Colorado Ground Water Commission

By:



Keith Vander Horst, P.E.  
Water Resource Engineer

Prepared by: JPM

92GWS 1  
03/2005

EXHIBIT A

1690-BD

Page 1 of 2

STATE OF COLORADO  
OFFICE OF THE STATE ENGINEER  
DIVISION OF WATER RESOURCES  
1313 Sherman St. Room 821  
Denver, CO 80203  
(303) 866-3581 Fax (303) 866-3589

RECEIVED

APR 17 2008

WATER RESOURCES  
STATE ENGINEER  
COLO.

**NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT**

I (We) George F. McCune and Evelyn McCune  
(Name(s))

claim and say that I (we) am (are) the owner(s) of the following described property consisting of  
900.52 acres in the County of El Paso  
State of Colorado:

(Insert the property legal description)

**SW/4SW/4 Section 18 and W/2 of the W/2 Section 19, T11S, R64W, and S/2SE/4 Section 13  
and All of Section 24, T11S R65W, 6<sup>th</sup> PM, El Paso County, 900.52 acres**

**See attached Quitclaim Deed dated November 29, 1976, and map.**

and, that the ground water sought to be withdrawn from the Arapahoe  
aquifer underlying the above-described land has not been conveyed or reserved to another, nor has  
consent been given to its withdrawal by another.

Further, I (we) claim and say that I (we) have read the statements made herein; know the contents  
hereof; and that the same are true to my (our) knowledge.

Signature

George F. McCune

Date

Signature

Evelyn M. McCune

Date

.....  
**INSTRUCTIONS:**

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word  
processing means. See additional information on the reverse side.

County of El Paso, State of Colorado

RECEIVED AT 912 NOV 29 1976

RECEIVED AT

2500257

HARVEST

## QUITCLAIM DEED

RECEIVED

APR 17 2008

WATER RESOURCES  
STATE ENGINEER  
COLO.

Best Copy Available

RAY C. McCUNE and GRETA C. McCUNE, as husband and wife, of the County of El Paso and State of Colorado, for the consideration of One Dollar (\$1.00) and other good and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. McCUNE and EVELYN M. McCUNE, husband and wife, in joint tenancy, of the County of Elbert and State of Colorado, a one-half interest in and to all minerals underlying the following described property, including oil and gas, said property lying and being in the County of El Paso and State of Colorado, to wit:

The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Sixty-four; the West half of the West half of Section Nineteen, Township Eleven, Range Sixty-four; the South half of the Southeast Quarter of Section Thirteen, Township Eleven, Range Sixty-five; All of Section Twenty-four, Township Eleven, Range Sixty-five, containing in all Nine hundred and fifty-two hundredths (900.52) acres, more or less, according to Government Survey.

with all its appurtenances.

No  
ConsiderationDATED and signed this 22 day of Nov., 1976.

STATE DOCUMENTARY

NOV 29 1976

FEE \$ None

Ray C. McCune  
Ray C. McCune

Greta C. McCune  
Greta C. McCune

STATE OF COLORADO )  
COUNTY OF EL PASO ) ss.

The foregoing instrument was acknowledged before me this 22 day of Nov., 1976, by Ray C. McCune and Greta C. McCune.

Stephanie J. Jorgensen  
Notary Public

My commission expires: 6/20/78

COLORADO GROUND WATER COMMISSION  
DIVISION OF WATER RESOURCES  
DEPARTMENT OF NATURAL RESOURCES  
1313 Sherman St, Room 818, Denver, CO 80203

RECEIVED

APPLICATION FOR DETERMINATION OF WATER RIGHT  
WITHIN A DESIGNATED GROUND WATER BASIN  
PURSUANT TO SECTION 37-90-107(7), C.R.S.

APR 17 2008

WATER RESOURCES  
STATE ENGINEER  
COLO.

Please note: This application may only be used to apply for a determination of rights to ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer underlying land areas located within a Designated Ground Water Basin. Review the instructions on the reverse of this form. This form must be completed, signed, dated and submitted to the Ground Water Commission with a non-refundable \$60 filing fee. A separate form must be used for each aquifer determination. Type or print in black ink.

1. APPLICANT INFORMATION

Name of Applicant

George F. McCune and Evelyn McCune

Applicant Mailing Address

17480 Meridian Road, Elbert, CO 80106-8916  
c/o Colorado Water Plans, P O Box 1955, Elbert, CO 80106

Applicant Telephone Number (include area code)

~~303-648-9999~~ Contact 303 646-4201 719-495-2562

2. AMOUNT OF OVERLYING LAND - the total and area claimed and described by the applicant in Item #8 below, consisting of 900.52 acres.

3. AQUIFER Arapahoe NT

4. EXISTING WELLS - Are there any wells located on the claimed and described overlying land? Yes      No X  
If yes, provide a complete list of all wells located on the overlying land area as an attachment to this application.

5. ANNUAL AMOUNT OF GROUND WATER - to be withdrawn, for intended beneficial uses, from the aquifer underlying the described land area claimed by the applicant in Item #8 below. Please specify one of the following:



Maximum allowable  
annual acre-feet



     acre-feet annually



Maximum allowable annual acre-feet, excluding  
     acre-feet from that amount

6. USE OF GROUND WATER - description of intended beneficial uses of the ground water to be withdrawn from the aquifer  
All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife. The water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for replacement of depletion's from the use of water from other sources and for all other augmentation purposes

7. PLACE OF USE - of the ground water shall be considered to be that overlying land area claimed and described by the applicant in Item #8 below, unless a legal description or accurate scale map is provided which describes an alternate/additional place of use.

8. REQUIRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall allocate ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying land. For this reason, a Nontributary Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim (form GWS-48), including a description of the overlying land area subject to this determination, must be submitted as an attachment to the application.

9. SIGNATURE OF APPLICANT - must be original signature - The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements herein, know the contents thereof, and state that they are true to my knowledge.

Signature George F. McCune & Evelyn M. McCune

Date April 14, 2008

- print name and title George F. McCune and Evelyn McCune, Owners

FOR OFFICE USE ONLY

DIV 8 CO      WD 1 BASIN 2 MD     

Trans Number: 3628088 B

4/17/2008 1:34:24 PM

Geoff Davis (21)

Total Trans Amt: \$240.00

CHECK

Check Number: 9724

Check Amount: \$240.00

RECEIVED

APR 17 2008

WATER RESOURCES  
STATE ENGINEER  
COMPL.



## COLORADO WATER PLANS

### Water Consultants

Colorado Ground Water Commission  
Division of Water Resources  
Department Of Natural Resources  
1313 Sherman Street - Room 818  
Denver, Colorado 80203

Re: Application for Determination of Water Right  
Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

Client:

By: George F. McCune & Evelyn M. McCune

By: \_\_\_\_\_

Date: 4-14-08

Colorado Water Plans LLC  
Craig L. Curl  
Dr. W. Jerry Koch  
Lisa S. Weinstein, Esq. #35688

By: [Signature]  
Date: 4-14-08

P.O. Box 1955 / Elizabeth / Colorado / 80107  
Office: 303/646-3895 Fax: 303/646-9655

**DETERMINATION OF WATER RIGHT  
SECTION 37-90-107(7)**

**APPLICANT:** George F. McCune and Evelyn McCune

**BASIN:** Kiowa-Bijou

**COUNTY:** El Paso

**AQUIFER:** Arapahoe                      **RECEIPT NO.** 3628088B

**NUMBER OF ACRES IN TRACT:** 900.52 acres

**GENERAL LOCATION:** SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6<sup>th</sup> PM,  
S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6<sup>th</sup> PM.

**AQUIFER DATA**

**AMOUNT AVAILABLE FOR APPROPRIATION:** (260 feet SS)(900.52 Acres)(0.17 SY) = 39803 AF      398.0 AFyr

**ADJUSTMENTS:** None

**ANNUAL AMOUNT:** 398.0 AFyr

**PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY:** N/A

**OVERLAP AREA:** N/A

**AREA CHECKED:** Sections 18, 19, and 30; T11S, R64W  
Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

**SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT:** N/A

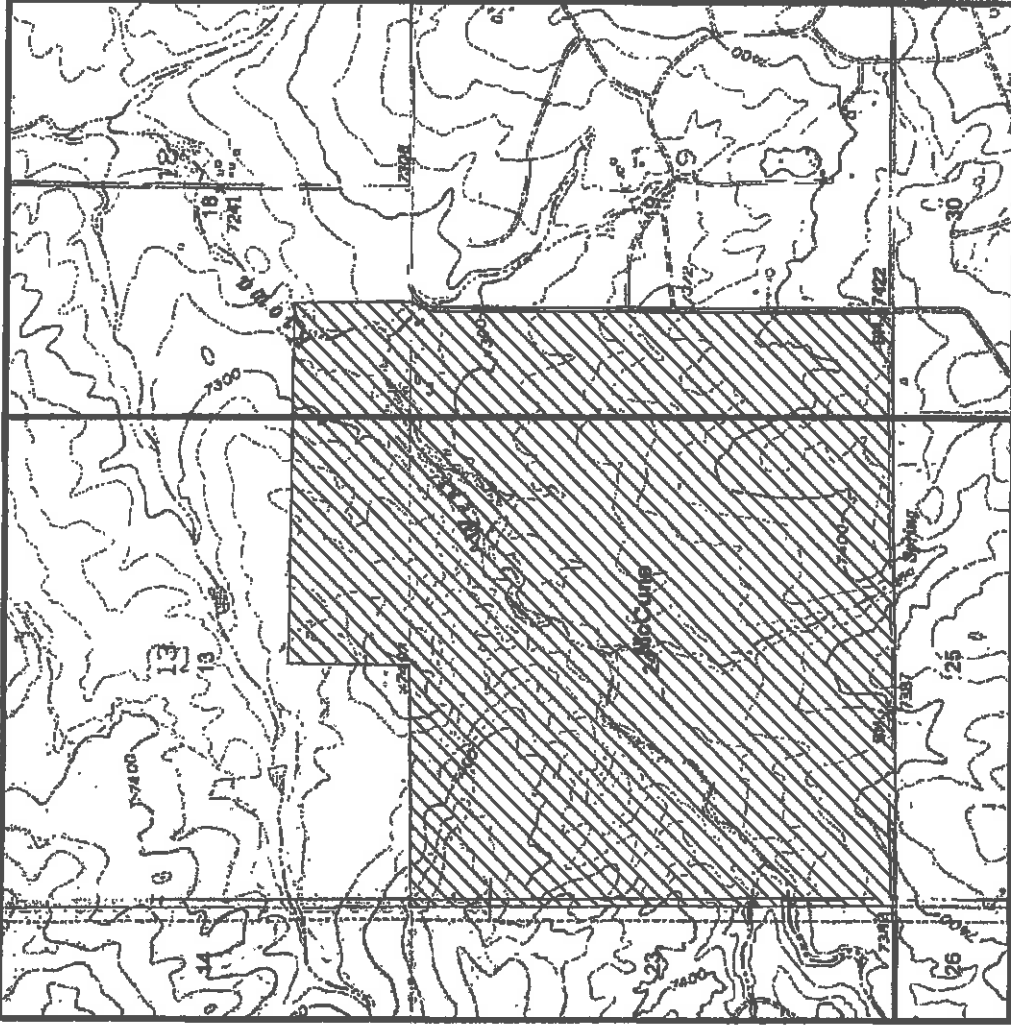
**REPLACEMENT WATER STATUS OF CLAIMED LAND AREA:** Nontributary

**REPLACEMENT PLAN REQUIRED:** Not Required

**AQUIFER INTERVAL (CENTRAL DATA POINT):** 1810 feet to 2310 feet below ground surface

**COMMENTS:** The SS was considered 260 feet based on the SS map for the Arapahoe aquifer.

Evaluated by: Justina Mickelson, Ground Water Commission Staff  
Reviewed by **CBG**



1:24,000



# DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 36280888  
 Applicant: George F. McCune  
 and Evelyn McCune  
 Basin: Kiowa-Bijou  
 GWMID:  
 Aquifer: Arapahoe  
 Sections: 13 and 24, T11S, R65W  
 Sections: 18 and 19, T11S, R64W  
 Meridian: 6

Area claimed: 900.52 acres  
 897 acres measured  
 Perimeter = 7,963 m

## Legend

- Township
- Section
- jpm\_work



Office of the State Engineer  
 Division of Water Resources  
 Department of Natural Resources

DIVISION OF WATER RESOURCES  
STATE OF COLORADO

Receipt Number: 3628088B  
Applicant: George F. McCune  
and Evelyn McCune  
Basin: Kiowa-Bijou  
GWMD:  
Aquifer: Arapahoe  
Sections: 13 and 24, T11S, R65W  
Sections: 18 and 19, T11S, R64W  
Meridian: 6

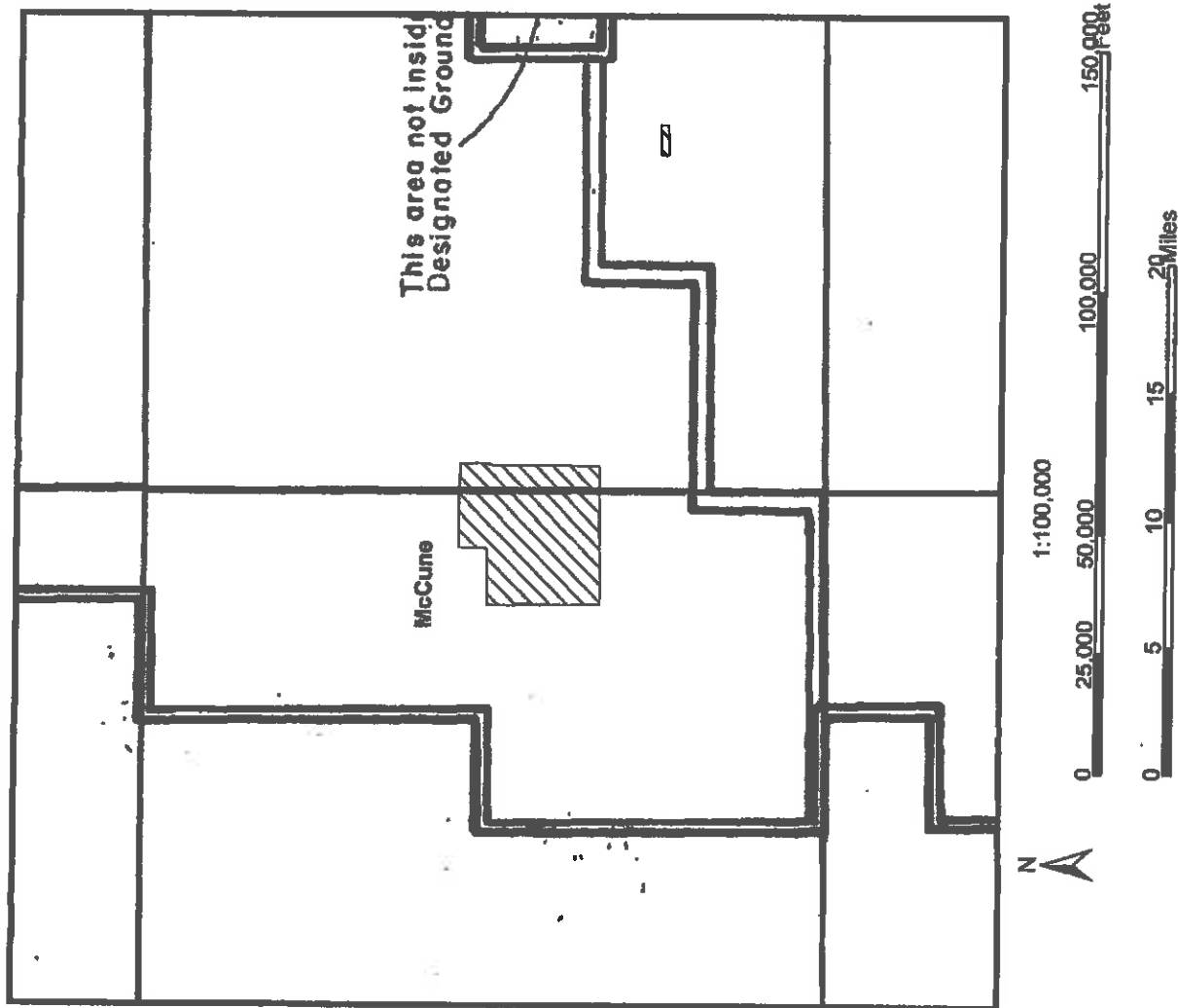
Area claimed: 900.52 acres  
897.22 acres measured  
Perimeter = 7,963 m

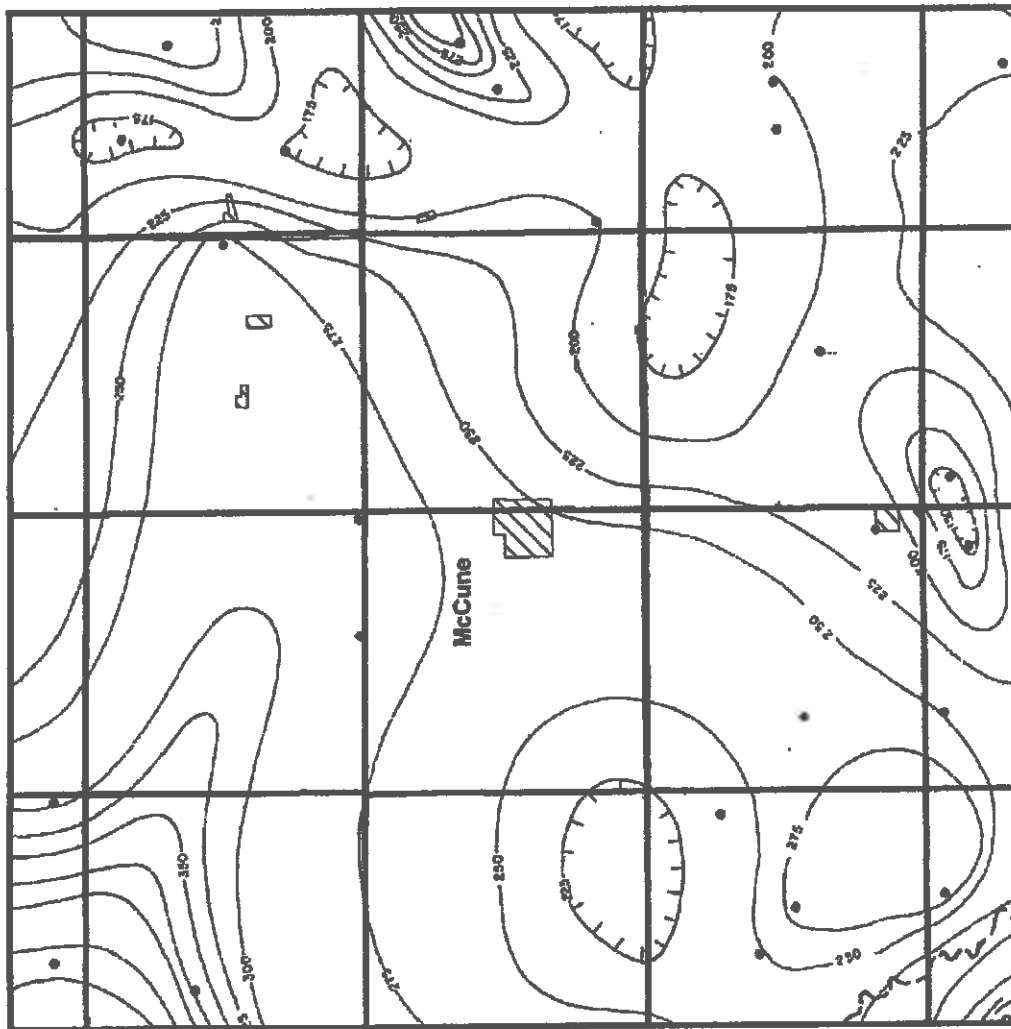
Tributary Status NT

Legend  
☐ Township  
☒ jpm\_work



Office of the State Engineer  
Division of Water Resources  
Department of Natural Resources





1:250,000



# **DIVISION OF WATER RESOURCES STATE OF COLORADO**

Receipt Number: 3628088B  
Applicant: George F. McCune  
and Evelyn McCune  
Basin: Kiowa-Bijou  
GWMD:  
Aquifer: Arapahoe

Sections: 13 and 24, T11S, R65W  
Sections: 18 and 19, T11S, R64W  
Meridian: 6

Area claimed: 900.52 acres  
897.22 acres measured  
Perimeter = 7,963 m

Saturated Sands

## **Legend**

- Township
- lpm\_work



Office of the State Engineer  
Division of Water Resources  
Department of Natural Resources

# PUBLISHER'S AFFIDAVIT

STATE OF COLORADO )  
COUNTY OF ELBERT ) ss.

I, Susan Listér, do solemnly affirm that I am the Publisher of RANCHLAND NEWS; that the same is a weekly newspaper published at Simla, County of Elbert, State of Colorado, and has a general circulation therein; that said newspaper has been continuously and uninterruptedly published in said County of Elbert for a period of at least 52 consecutive weeks next prior to the first publication of the annexed notice, that said newspaper is entered in the post office at Calhan, Colorado as second class mail matter and that said newspaper is a newspaper within the meaning of the Act of the General Assembly of the State of Colorado, approved March 30, 1923, and entitled "Legal Notices and Advertisements," with other Acts relating to the printing and publishing of legal notices and advertisements. That the annexed notice was published in the regular and entire issue of said newspaper, once each week for two consecutive weeks; that the first publication of said notice was in the issue of said newspaper dated:

May 8, 2008

and the last publication of said notice was in the issue of said newspaper dated:

May 15, 2008

and that copies of each number of said paper which said notice and/or list was published are delivered by carriers or transmitted by mail to each of the subscribers of said newspaper, Ranchland News, according to the customary mode of business in this office.

Susan Listér  
Publisher

The above certificate of publication was subscribed and affirmed to before me, a Notary Public, to be the identical person described in the above certificate, on the

15 day of May, 2008  
Jill Kiste  
Notary Public

1/22/12  
(Notary Public Commission Expiration Date)

## Determinations of Water Right

BEFORE THE COLORADO GROUND WATER COMMISSION

KIOWA-BUQU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY

TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCune and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 15 and all of Section 24, Township 11 South, Range 65 West of the 6th PM. The applicant claims ownership of this land and control of the ground water in the above-described aquifers under this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering; recreational water feature ponds and placatorial habitat less than 1600 square feet and wildlife, replacement and all other augmentation purposes. The maximum allowable annual amount of ground water in each aquifer underlying the described property will be allocated.

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, the Colorado Ground Water Commission shall allocate ground water from the above-described aquifers based on ownership of the overlying land and an aquifer life of one hundred years. A preliminary evaluation of the applications by the Commission Staff finds the annual amount of water available for allocation from each of the described aquifers underlying the above-described property to be as follows: 263.4 acre-feet for the Laramie-Fox Hills, 398.0 acre-feet for the Arapahoe, 528.2 acre-feet for the Denver, and 819.5 for the Dawson subject to final staff evaluation. The estimated available annual acre-feet allocation amount for each aquifer indicated above may be increased or decreased by the Commission to conform to the actual aquifer characteristics, based upon site specific data.

In accordance with Rule 5.3.6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement status for the above aquifers underlying the above-described property to be as follows: noncontributory for the Laramie-Fox Hills, noncontributory for the Arapahoe, noncontributory for the Denver, and noncontributory (actual impact replacement) for the Dawson.

Upon Commission approval of these determinations of water right, well permits for wells to withdraw the allowed allocation from a specific aquifer shall be available upon application, subject to the conditions of the determination and the Designated Basin Rules and subject to approval by the Commission. Such wells must be completed in the specified aquifer and located on the above described 900.52 acre property. Well permits for wells to withdraw ground water from the Dawson aquifer would also be subject to the conditions of a replacement plan to be approved by the Commission.

Any person wishing to object to the approval of these determinations of water right must do so in writing, briefly stating the nature of the objection and indicating the above applicant, property description and the specific aquifers that are the subject of the objection. The objection must be accompanied by a \$10 per aquifer fee and must be received by the Commission Staff, Colorado Ground Water Commission, 818 Centennial Building, 1313 Sherman Street, Denver, Colorado 80203, by June 16, 2008.

First Publication May 8, 2008  
Final Publication May 15, 2008  
In Ranchland News  
Legal No. 12,936

RECEIVED

MAY 19 2008

WATER RESOURCES  
DIVISION



DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

June 27, 2008

Bill Ritter, Jr.  
Governor

Harris D. Sherman  
Executive Director

Dick Wolfe, P.E.  
Director

George F. and Evelyn McCune  
17480 Meridian Road  
Elbert, CO 80106-8916

**RE: Determination of Water Right**

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1690-BD, for the allocation of ground water in the Arapahoe aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county – in which the overlying land is located – so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

Sincerely,

Justina P. Mickelson  
Physical Science Researcher Scientist  
Designated Basins Branch

Enclosures: a/s

Office of the State Engineer

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589

[www.water.state.co.us](http://www.water.state.co.us)

Colorado Department of Natural Resources

Colorado.gov | Contact Us

# Colorado Division of Water Resources

## Colorado's Well Permit Search

### THIS PAGE IS NOT THE ACTUAL PERMIT

The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. ([Full Disclaimer](#))

#### Permit Issued: Completion Status Unknown

[Help](#)

Last Refresh: 12/6/2016 12:03:01 AM

**Receipt:** 3628088C      **Division:** 1  
**Permit #:** 1691-BD -      **Water District:** 1  
**Well Name / #:**      **County:** EL PASO  
**Designated Basin:** KIOWA-BIYOU      **Management District:**  
**Case Number:**  
**WDID:**

#### [\[-\] Imaged Documents - Permit File](#)

Document Name	Date Imaged	Annotated
<a href="#">Findings &amp; Order for Determination</a>	05/21/2009	No

#### [\[-\] Applicant/Contact](#)

Applicant/Contact Name	Mailing Address	City/State/Zip
MCCUNE GEORGE F & EVELYN	17480 MERIDIAN RD	ELBERT, CO 80106-8916

#### [\[-\] Location Information](#)

##### Approved Well Location:

Q40	Q160	Section	Township	Range	PM	Footage from Section Lines
		24	11.0S	65.0W	Sixth	
<b>Northing (UTM y):</b>		4325550.5		<b>Easting (UTM x):</b>		533176.3
<b>Location Accuracy:</b>		Spotted from quarters				

##### Subdivision Name

##### Filing Block Lot

**Parcel ID:**      **Acres in Tract:** 900.52

#### [\[-\] Permit Details](#)

**Date Issued:** 06/25/2008      **Date Expires:**

**Uses** (See [Imaged Documents](#) for more information)

**General Use(s):** COMMERCIAL      **Aquifer(s):** DENVER  
DOMESTIC

##### Special Use:

##### Area which may be irrigated:

##### Annual volume of appropriation:

##### Statute:

**Cross Reference Permit(s):**      **Permit Number**      **Receipt**

**Comments:** DETER ISSUED

#### [\[-\] Construction/Usage Details](#)

**Well Construction Date:**      **Pump Installation Date:**

**Well Plugged:**      **1st Beneficial Use:**

Elevation	Depth	Perforated Casing (Top)	Perforated Casing (Bottom)	Static Water Level	Pump Rate
-----------	-------	-------------------------	----------------------------	--------------------	-----------

#### [\[-\] Application/Permit History](#)

<b>Permit Issued</b>	06/25/2008
<b>Application Received</b>	04/17/2008

#### Disclaimer

**\*The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.**

**This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate.** The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).

Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn

more about well permitting in Colorado, please visit [DWR's Well Permitting Page](#). If you have any questions about this well permit file, please contact the [DWR Ground Water Information Desk](#).

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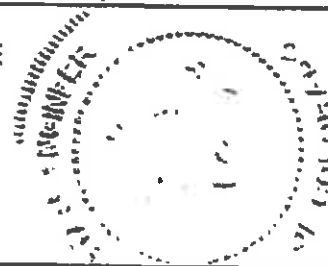
**COLORADO GROUND WATER COMMISSION  
FINDINGS AND ORDER**

IN THE MATTER OF AN APPLICATION FOR DETERMINATION OF WATER RIGHT TO  
ALLOW THE WITHDRAWAL OF GROUND WATER IN THE KIOWA-BIJOU DESIGNATED  
GROUND WATER BASIN

APPLICANT: GEORGE F. MCCUNE AND EVELYN MCCUNE

AQUIFER: DENVER

DETERMINATION NO.: 1691-BD



In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Denver Aquifer.

**FINDINGS**

1. The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
2. The applicant requests a determination of rights to designated ground water in the Denver Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter "Commission") has jurisdiction.
5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 52800 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

- a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 17 percent.
- b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 345 feet.
7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal pursuant to the data in the paragraphs above for the 900.52 acres of overlying land claimed by the applicant is 528 acre-feet.
9. A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural stream or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

15. In accordance with Sections 37-90-107(7) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on May 8 and May 15, 2008.
16. No objections to the determination of water right and proposed allocation of ground water were received within the time limit set by statute.
17. In order to prevent unreasonable impairment to the existing water rights of others within the Kiowa-Bijou Designated Ground Water Basin it is necessary to impose conditions on the determination of water right and proposed allocation of ground water. Under conditions as stated in the following Order, no unreasonable impairment of existing water rights will occur from approval of this determination of water right or from the issuance of well permits for wells to withdraw the authorized amount of allocated ground water from the aquifer.

### ORDER

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, the Colorado Ground Water Commission orders that the application for determination of rights to designated ground water in the Denver Aquifer underlying 900.52 acres of land, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, is approved subject to the following conditions:

18. The allowed average annual amount of withdrawal of ground water from the aquifer shall not exceed 528 acre-feet. The allowed maximum annual amount of withdrawal may exceed the allowed average annual amount of withdrawal as long as the total volume of water withdrawn does not exceed the product of the number of years since the date of approval of this determination times the allowed average annual amount of withdrawal.
19. To conform to actual aquifer characteristics, the Commission may adjust the allowed average annual amount of ground water to be withdrawn from the aquifer based on analysis of geophysical logs or other site-specific data if such analysis indicates that the initial estimate of the volume of water in the aquifer was incorrect.
20. The applicant may pump the allowed average annual amount of withdrawal and the allowed maximum annual amount of withdrawal from one or more wells of a well field in any combination, so long as the total combined withdrawal of the wells does not exceed the amounts described in this Order.
21. No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.
22. The use of ground water from this allocation shall be limited to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The place of use shall be limited to the above described 900.52 acre land area.

23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county - in which the claimed overlying land is located - notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient, and the date of transfer.
24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:
  - a. The wells shall be located on the above described 900.52 acre overlying land area.
  - b. The wells must be constructed to withdraw water from only the Denver Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.
  - c. The entire depth of each well must be geophysically logged prior to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.
  - d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.
  - e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.
  - f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.
25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Applicant: George F. McCune and Evelyn McCune  
Aquifer: Denver  
Determination No.: 1691-BD

Page 5

Dated this 25<sup>th</sup> day of June, 2008.

*Dick Wolfe*

Dick Wolfe, P.E.  
Executive Director  
Colorado Ground Water Commission

By:

*Keith Vander Horst*

Keith Vander Horst, P.E.  
Water Resource Engineer

Prepared by: JPM

92GWS 1  
03/2005

EXHIBIT A

1691-BD

Page 1 of 2

STATE OF COLORADO  
OFFICE OF THE STATE ENGINEER  
DIVISION OF WATER RESOURCES  
1313 Sherman St. Room 821  
Denver, CO 80203  
(303) 866-3581 Fax (303) 866-3589

RECEIVED

APR 17 2008

WATER RESOURCES  
STATE ENGINEER  
COLO.

**NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT**

I (We) George F. McCune and Evelyn McCune  
(Name(s))

claim and say that I (we) am (are) the owner(s) of the following described property consisting of  
900.52 acres in the County of El Paso  
State of Colorado:

(Insert the property legal description)

**SW/4SW/4 Section 18 and W/2 of the W/2 Section 19, T11S, R64W, and S/2SE/4 Section 13  
and All of Section 24, T11S R65W, 6<sup>th</sup> PM, El Paso County, 900.52 acres**

See attached Quitclaim Deed dated November 29, 1976, and map.

and, that the ground water sought to be withdrawn from the Denver  
aquifer underlying the above-described land has not been conveyed or reserved to another, nor has  
consent been given to its withdrawal by another.

Further, I (we) claim and say that I (we) have read the statements made herein; know the contents  
hereof; and that the same are true to my (our) knowledge.

Signature

George F. McCune  
Date

Signature

Evelyn M. McCune  
Date

.....  
**INSTRUCTIONS:**

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word  
processing means. See additional information on the reverse side.

## EXHIBIT A

1691-BD

Page 2 of 2

County of El Paso, State of Colorado

RECEIVED AT

RECEIPT FOR

NOV 29 1976

HARVEST SEALS

NOV 27 1976

QUITCLAIM DEED Best Copy Available RECEIVED

APR 17 2008

WATER RESOURCES  
STATE ENGINEER  
COLO.

SACRAMENTO

RAY C. McCUNE and GRETA C. McCUNE, as husband and wife, of the County of El Paso and State of Colorado, for the consideration of One Dollar (\$1.00) and other good and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. McCUNE and EVELYN M. McCUNE, husband and wife, in joint tenancy, of the County of Elbert and State of Colorado, a one-half interest in and to all minerals underlying the following described property, including oil and gas, and property lying and being in the County of El Paso and State of Colorado, to wit:

The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Sixty-four; the West half of the West half of Section Nineteen, Township Eleven, Range Sixty-four; the South half of the Southeast Quarter of Section Thirteen, Township Eleven, Range Sixty-five; All of Section Twenty-four, Township Eleven, Range Sixty-five, containing in all Nine hundred and fifty-two hundredths (900.52) acres, more or less, according to Government Survey,

with all its appurtenances.

No  
ConsiderationDATED and signed this 22 day of Nov., 1976.

STATE DOCUMENTARY

NOV 29 1976

FEE \$ None

Ray C. McCune  
Ray C. McCune

Greta C. McCune  
Greta C. McCune

STATE OF COLORADO )

COUNTY OF EL PASO ) ss.

The foregoing instrument was acknowledged before me this 22 day of Nov., 1976, by Ray C. McCune and Greta C. McCune.

Stephanie J. Jerny  
Notary Public

My commission expires: 6/20/78

COLORADO GROUND WATER COMMISSION  
DIVISION OF WATER RESOURCES  
DEPARTMENT OF NATURAL RESOURCES  
1313 Sherman St, Room 818, Denver, CO 80203

RECEIVED

APR 17 2008

APPLICATION FOR DETERMINATION OF WATER RIGHT  
WITHIN A DESIGNATED GROUND WATER BASIN  
PURSUANT TO SECTION 37-90-107(7), C.R.S.

WATER RESOURCES  
STATE ENGINEER  
COLO.

Please note: This application may only be used to apply for a determination of rights to ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer underlying land areas located within a Designated Ground Water Basin. Review the instructions on the reverse of this form. This form must be completed, signed, dated and submitted to the Ground Water Commission with a non-refundable \$60 filing fee. A separate form must be used for each aquifer determination. Type or print in black ink.

1. APPLICANT INFORMATION

Name of Applicant

George F. McCune and Evelyn McCune

Applicant Mailing Address

17480 Meridian Road, Elbert, CO 80106-8916  
c/o Colorado Water Plans, P O Box 1956, Elbert, CO 80106

Applicant Telephone Number (include area code)

~~303-648-9999~~ Contact 303 648-4201

719-495-2562

2. AMOUNT OF OVERLYING LAND - the total and area claimed and described by the applicant in Item #8 below, consisting of 900.52 acres.

3. AQUIFER Denver NT

4. EXISTING WELLS - Are there any wells located on the claimed and described overlying land? Yes \_\_\_ No X  
If yes, provide a complete list of all wells located on the overlying land area as an attachment to this application.

5. ANNUAL AMOUNT OF GROUND WATER - to be withdrawn, for intended beneficial uses, from the aquifer underlying the described land area claimed by the applicant in Item #8 below. Please specify one of the following:



Maximum allowable annual acre-feet



\_\_\_\_\_ acre-feet annually



Maximum allowable annual acre-feet, excluding \_\_\_\_\_ acre-feet from that amount

6. USE OF GROUND WATER - description of intended beneficial uses of the ground water to be withdrawn from the aquifer  
All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife. The water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for replacement of depletion's from the use of water from other sources and for all other augmentation purposes

7. PLACE OF USE - of the ground water shall be considered to be that overlying land area claimed and described by the applicant in Item #8 below, unless a legal description or accurate scale map is provided which describes an alternate/additional place of use.

8. REQUIRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall allocate ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying land. For this reason, a Nontributary Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim (form GWS-48), including a description of the overlying land area subject to this determination, must be submitted as an attachment to the application.

9. SIGNATURE OF APPLICANT - must be original signature - The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements herein, know the contents thereof, and state that they are true to my knowledge.

Signature

George F. McCune

Date

Evelyn M. McCune

- print name and title George F. McCune and Evelyn McCune, Owners

FOR OFFICE USE ONLY

DIV 8 CO \_\_\_\_\_ WD 1 BASIN 2 MD \_\_\_\_\_

Trans Number: 3028088  
4/17/2008 1:34:34 PM  
Geoff Davis (21)  
Total Trans Amt: \$240.00  
CHECK  
Check Number: 8724  
Check Amount: \$240.00

RECEIVED

APR 17 2008

WATER RESOURCES  
STATE ENGINEER  
COLORADO



## COLORADO WATER PLANS

### Water Consultants

Colorado Ground Water Commission  
Division of Water Resources  
Department Of Natural Resources  
1313 Sherman Street - Room 818  
Denver, Colorado 80203

Re: Application for Determination of Water Right  
Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

Client:

By: George F. McCune & Evelyn M. McCune

By: \_\_\_\_\_

Date: 4-14-08

Colorado Water Plans LLC  
Craig L. Curl  
Dr. W. Jerry Koch  
Lisa S. Weinstein, Esq. #35688

By: [Signature]  
Date: 4-14-08

P.O. Box 1955 / Elizabeth / Colorado / 80107  
Office: 303/646-3895 Fax: 303/646-9655

**DETERMINATION OF WATER RIGHT  
SECTION 37-90-107(7)**

**APPLICANT:** George F. McCune and Evelyn McCune

**BASIN:** Kiowa-Bijou

**COUNTY:** El Paso

**AQUIFER:** Denver      **RECEIPT NO.** 3628088C

**NUMBER OF ACRES IN TRACT:** 900.52 acres

**GENERAL LOCATION:** SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6<sup>th</sup> PM,  
S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6<sup>th</sup> PM.

**AQUIFER DATA**

**AMOUNT AVAILABLE FOR APPROPRIATION:** (345 feet SS)(900.52 Acres)(0.17 SY) = 52816 AF      528.2 AFyr

**ADJUSTMENTS:** None

**ANNUAL AMOUNT:** 528.2 AFyr

**PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY:** N/A

**OVERLAP AREA:** N/A

**AREA CHECKED:** Sections 18, 19, and 30, T11S, R64W  
Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

**SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT:** N/A

**REPLACEMENT WATER STATUS OF CLAIMED LAND AREA:** Nontributary

**REPLACEMENT PLAN REQUIRED:** Not Required

**AQUIFER INTERVAL (CENTRAL DATA POINT):** 970 feet to 1770 feet below ground surface

**COMMENTS:** The SS was considered 345 feet based on the SS map for the Denver aquifer.

**Evaluated by:** Justina Mickelson, Ground Water Commission Staff  
**Reviewed by** CBB

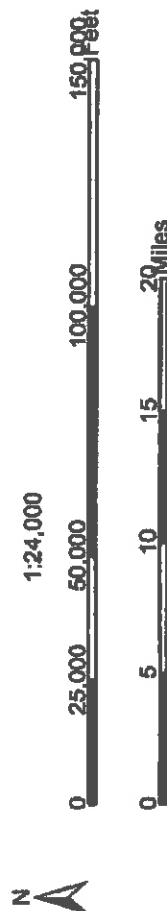
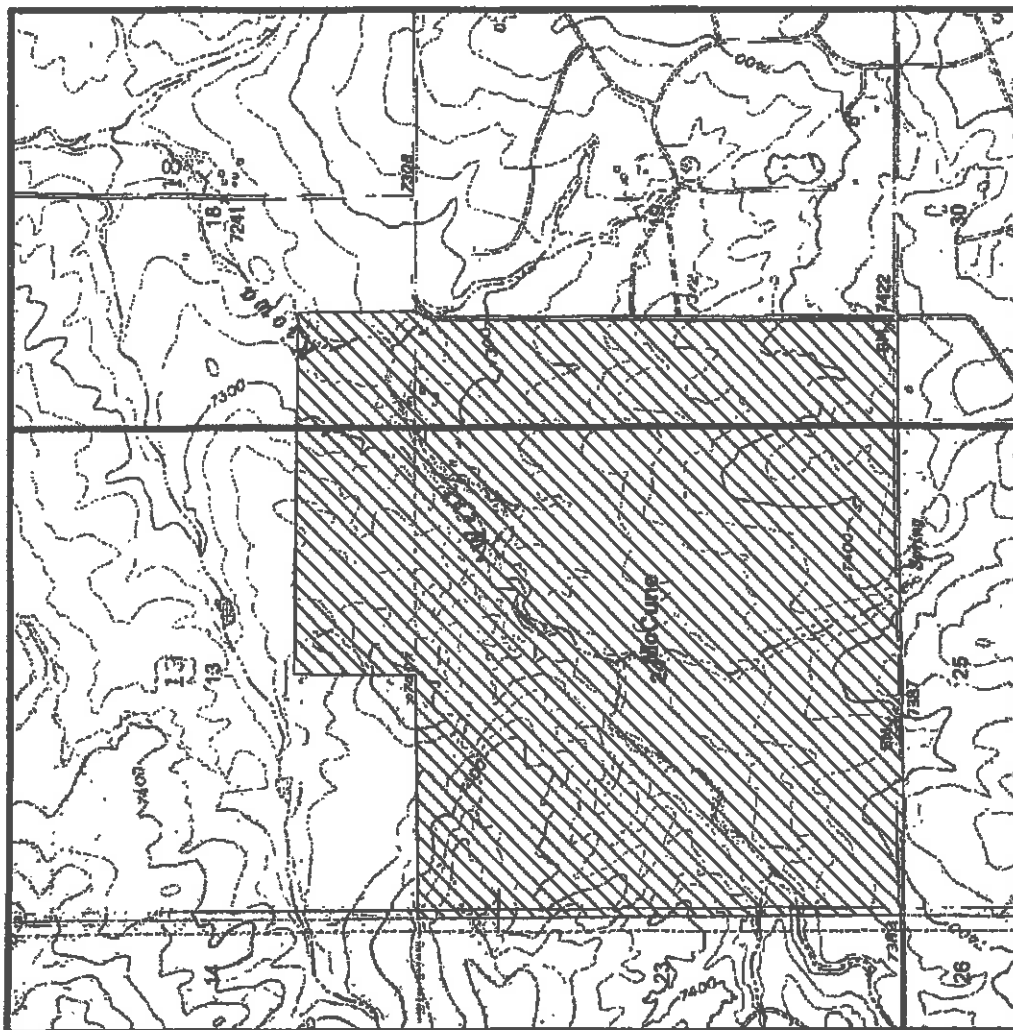
**DIVISION OF WATER RESOURCES  
STATE OF COLORADO**

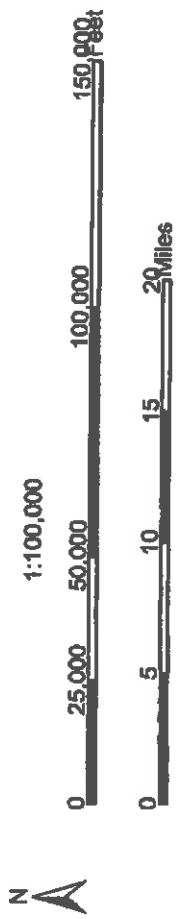
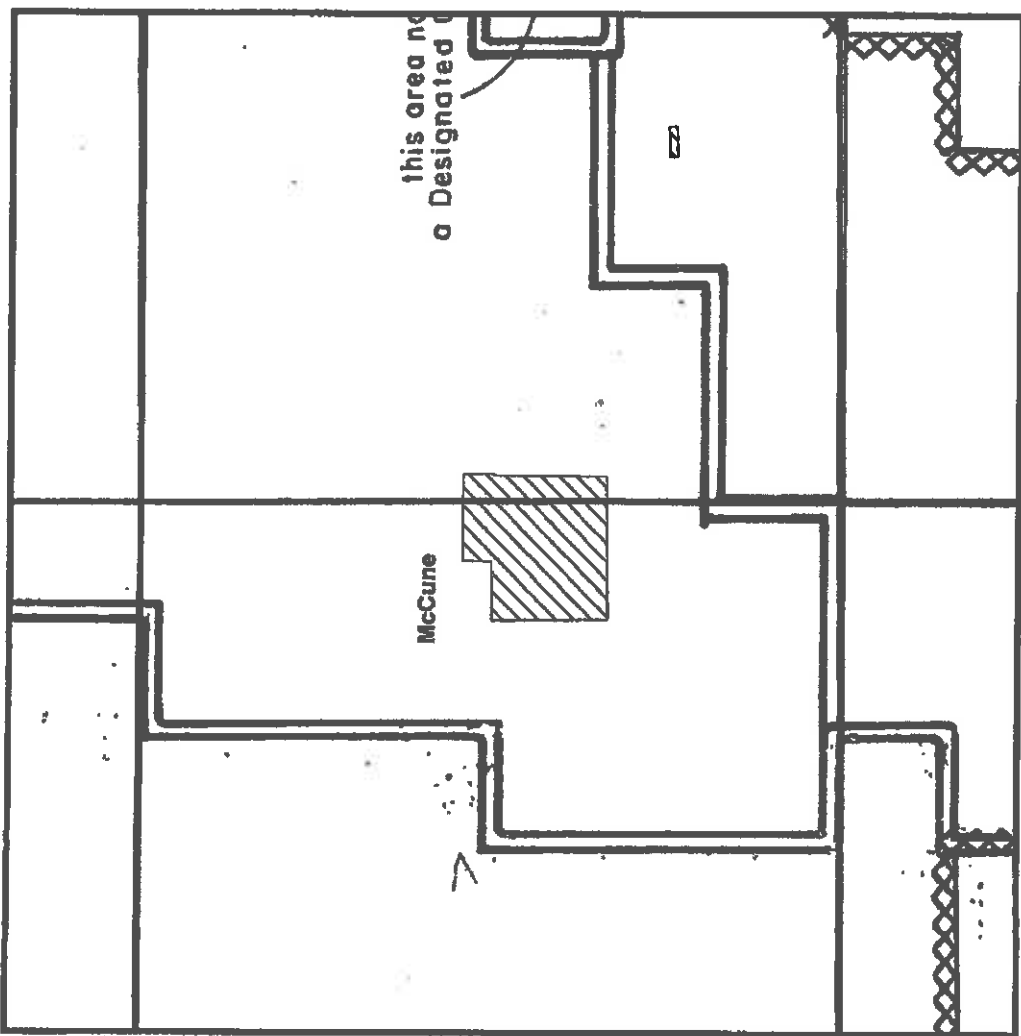
Receipt Number: 3628088C  
 Applicant: George F. McCune  
 and Evelyn McCune  
 Basin: Kiowa-Bijou  
 GWMD: Denver  
 Sections: 13 and 24, T11S, R65W  
 Sections: 18 and 19, T11S, R64W  
 Meridian: 6  
 Area claimed: 900.52 acres  
 897 acres measured  
 Perimeter = 7,963 m

**Legend**  
 □ Township  
 --- Section  
 ▨ jpm\_work



Office of the State Engineer  
 Division of Water Resources  
 Department of Natural Resources





# DIVISION OF WATER RESOURCES STATE OF COLORADO

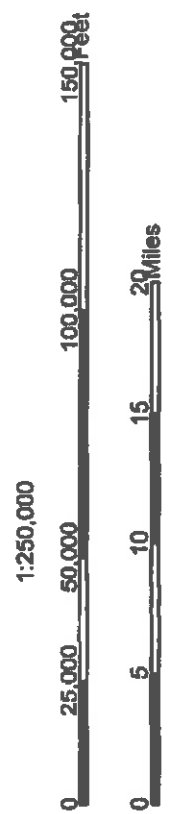
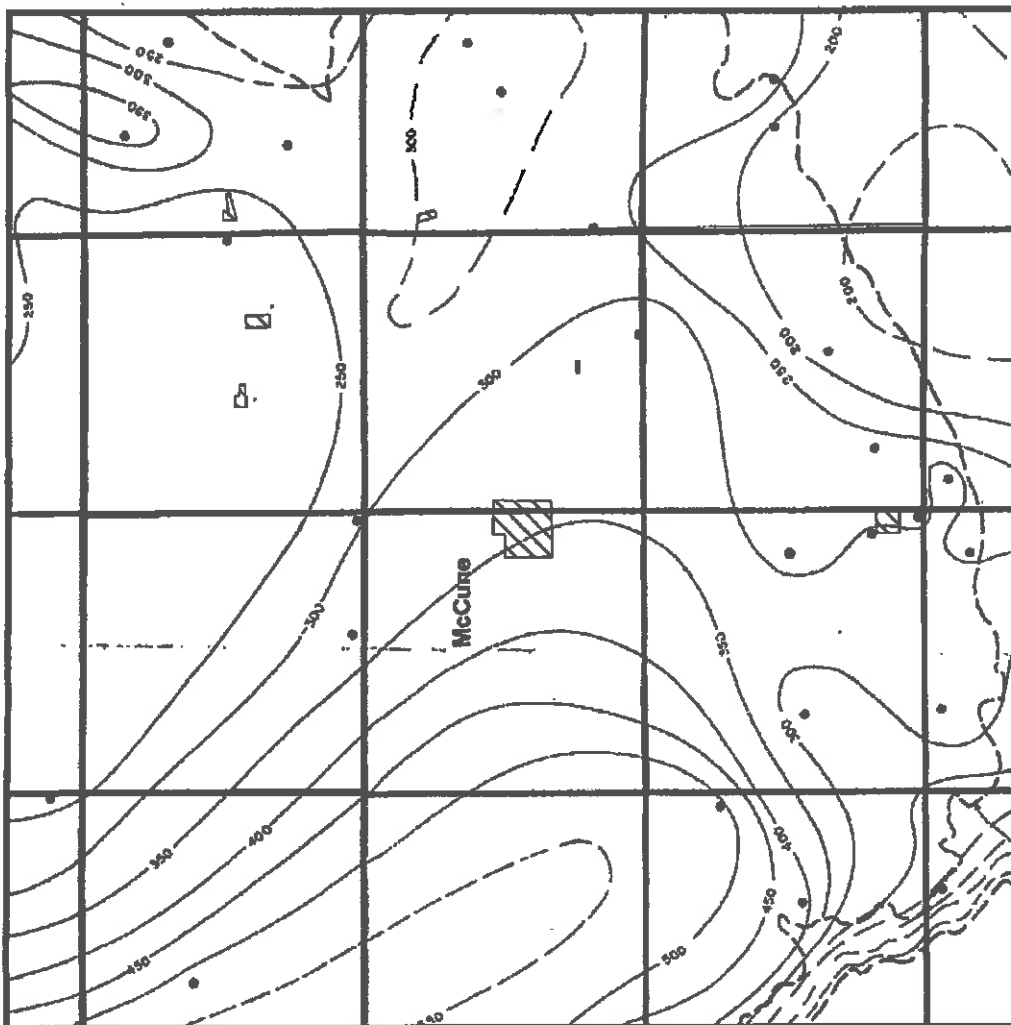
Receipt Number: 362808BC  
 Applicant: George F. McCune  
 and Evelyn McCune  
 Basin: Kiowa-Bijou  
 GWMD: Denver  
 Sections: 13 and 24, T11S, R65W  
 Sections: 18 and 19, T11S, R64W  
 Meridian: 6  
 Area claimed: 900.52 acres  
 897.22 acres measured  
 Perimeter = 7,963 m

Tributary Status NT

- Legend
- ☐ Township
  - ☒ jpm\_work



Office of the State Engineer  
 Division of Water Resources  
 Department of Natural Resources



# DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088C  
 Applicant: George F. McCune  
 and Evelyn McCune  
 Basin: Kiowa-Bijou  
 GWMD:  
 Aquifer: Denver  
 Sections: 13 and 24, T11S, R65W  
 Sections: 18 and 19, T11S, R64W  
 Meridian: 6

Area claimed: 900.52 acres  
 897.22 acres measured  
 Perimeter = 7,963 m

Saturated Sands

- Legend**
- Township
  - jpm\_work



Office of the State Engineer  
 Division of Water Resources  
 Department of Natural Resources

# PUBLISHER'S AFFIDAVIT

STATE OF COLORADO )  
COUNTY OF ELBERT ) ss.

I, Susan Lister, do solemnly affirm that I am the Publisher of RANGLAND NEWS; that the same is a weekly newspaper published at Simla, County of Elbert, State of Colorado, and has a general circulation therein; that said newspaper has been continuously and uninterruptedly published in said County of Elbert for a period of at least 52 consecutive weeks next prior to the first publication of the annexed notice, that said newspaper is entered in the post office at Calhan, Colorado as second class mail matter and that said newspaper is a newspaper within the meaning of the Act of the General Assembly of the State of Colorado, approved March 30, 1923, and entitled "Legal Notices and Advertisements," with other Acts relating to the printing and publishing of legal notices and advertisements. That the annexed notice was published in the regular and entire issue of said newspaper, once each week for two consecutive weeks; that the first publication of said notice was in the issue of said newspaper dated:

May 8, 2008

and the last publication of said notice was in the issue of said newspaper dated:

May 15, 2008

and that copies of each number of said paper which said notice and/or list was published are delivered by carriers or transmitted by mail to each of the subscribers of said newspaper, Ranchland News, according to the customary mode of business in this office.

Susan Lister  
Publisher

The above certificate of publication was subscribed and affirmed to before me, a Notary Public, to be the identical person described in the above certificate, on the

15 day of May, 2008  
J. K. Lister  
Notary Public

1/22/12  
My Notary Public Commission Expiration Date)

## Determinations of Water Right

BEFORE THE COLORADO GROUND WATER COMMISSION

KJOWA-BUOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY

TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCune and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 19 and all of Section 24, Township 11 South, Range 65 West of the 6th PM. The applicant claims ownership of this land and control of the ground water in the above-described aquifers under this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds, and piezometric habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The maximum allowable annual amount of ground water in each aquifer underlying the described property will be allocated.

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, the Colorado Ground Water Commission shall allocate ground water from the above-described aquifers based on ownership of the overlying land and an aquifer life of one hundred years. A preliminary evaluation of the applications by the Commission Staff finds the annual amount of water available for allocation from each of the described aquifers underlying the above-described property to be as follows: 263.4 acre-feet for the Laramie-Fox Hills, 398.0 acre-feet for the Arapahoe, 528.2 acre-feet for the Denver, and 819.5 for the Dawson subject to final staff evaluation. The estimated available annual acre-feet allocation amount for each aquifer indicated above may be increased or decreased by the Commission, to conform to the actual aquifer characteristics, based upon site specific data.

In accordance with Rule 5.3.6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement status for the above aquifers underlying the above-described property to be as follows: contributory for the Laramie-Fox Hills, noncontributory for the Arapahoe, noncontributory for the Denver, and noncontributory (actual impact replacement) for the Dawson.

Upon Commission approval of these determinations of water right, well permits for wells to withdraw the allowed allocation from a specific aquifer shall be available upon application, subject to the conditions of the determination and the Designated Basin Rules and subject to approval by the Commission. Such wells must be completed in the specified aquifer and located on the above described 900.52 acre property. Well permits for wells to withdraw ground water from the Dawson aquifer would also be subject to the conditions of a replacement plan to be approved by the Commission.

Any person wishing to object to the approval of these determinations of water right must do so in writing, briefly stating the nature of the objection and indicating the above applicant, property description and the specific aquifers that are the subject of the objection. The objection must be accompanied by a \$10 per aquifer fee and must be received by the Commission Staff, Colorado Ground Water Commission, 818 Centennial Building, 1313 Sherman Street, Denver, Colorado 80203, by June 16, 2008.

First Publication May 8, 2008  
First Publication May 15, 2008  
in Ranchland News  
Legal No. 12,936

RECEIVED

MAY 19 2008

WATER RESOURCES  
DIVISION



DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

June 27, 2008

Bill Ritter, Jr.  
Governor

Harris D. Sherman  
Executive Director

Dick Wolfe, P.E.  
Director

George F. and Evelyn McCune  
17480 Meridian Road  
Elbert, CO 80106-8916

**RE: Determination of Water Right**

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1691-BD, for the allocation of ground water in the Denver aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county – in which the overlying land is located – so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

Sincerely,

Justina P. Mickelson  
Physical Science Researcher Scientist  
Designated Basins Branch

Enclosures: a/s

Office of the State Engineer

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589

[www.water.state.co.us](http://www.water.state.co.us)



## APPENDIX D

# WELL PERMITS



**OFFICE OF THE STATE ENGINEER  
COLORADO DIVISION OF WATER RESOURCES**

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203  
(303) 866-3581

LIC

WELL PERMIT NUMBER 77785 - F -  
DIV. 2 WD 10 DES. BASIN MD

APPLICANT

MORLEY-BENTLEY INVESTMENTS LLC  
20 BOULDER CRESCENT ST  
COLORADO SPRINGS, CO 80903-

(719) 491-3024

APPROVED WELL LOCATION

EL PASO COUNTY  
NE 1/4 NW 1/4 Section 27  
Township 12 S Range 65 W Sixth P.M.

DISTANCES FROM SECTION LINES

324 Ft. from North Section Line  
2632 Ft. from West Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

**PERMIT TO CONSTRUCT A WELL**

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

**CONDITIONS OF APPROVAL**

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-90-137(4) and the decree granted in case no. 86CW19 Division 2 Water Court. The operation of this well is subject to the terms and conditions of said decree.
- 4) The use of ground water from this well is limited to municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, augmentation, livestock watering and agricultural uses.
- 5) The pumping rate of this well shall not exceed 150 GPM.
- 6) The average annual amount of ground water to be appropriated shall not exceed 539 acre-feet.
- 7) Production is limited to the Laramie-Fox Hills aquifer which is located 2,345 feet below land surface and extends to a depth of 2,630 feet. Plain casing must be installed and grouted to prevent the withdrawal of ground water from other aquifers and the movement of ground water between aquifers.
- 8) The entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules prior to installing casing.
- 9) The owner shall mark the well in a conspicuous place with well permit number(s), name of the aquifer, and court case number(s) as appropriate. The owner shall take necessary means and precautions to preserve these markings.
- 10) A totalizing flow meter must be installed on this well and maintained in good working order. Permanent records of all diversions must be maintained by the well owner (recorded at least annually) and submitted to the Division Engineer upon request.
- 11) This well shall be constructed at least 600 feet from any existing well, completed in the same aquifer, that is not owned by the applicant.
- 12) This well shall be constructed not more than 200 feet from the location specified on this permit.
- 13) Pursuant to CRS 37-90-137(9)(b) and the Denver Basin Rules, no more than 98% of the nontributary ground water withdrawn annually shall be consumed and the well owner shall demonstrate to the reasonable satisfaction of the State Engineer that no more than 98% of the water withdrawn will be consumed.
- 14) This well is subject to administration by the Division Engineer in accordance with applicable decrees, statutes, rules, and regulations.

NOTE: The ability of this well to withdraw its authorized amount of water from this non-renewable aquifer may be less than the 100 years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.

NOTE: To ensure a maximum productive life of this well, perforated casing should be set through the entire producing interval of the approved zone or aquifer indicated above.

NOTE: This permit will expire on the expiration date unless the well is constructed and a pump is installed by that date. A Well Construction and Test Report (GWS-31) and Pump Installation and Test Report (GWS-32) must be submitted to the Division of Water Resources to verify the well has been constructed and the pump has been installed. A one-time extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: <http://www.water.state.co.us>

APPROVED  
IDC

State Engineer

DATE ISSUED

12-19-2013

By

EXPIRATION DATE

12-19-2014

Receipt No. 3662756

**OFFICE OF THE STATE ENGINEER  
COLORADO DIVISION OF WATER RESOURCES**

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203  
(303) 866-3581

LIC

WELL PERMIT NUMBER 77786 - F -  
DIV. 2 WD 10 DES. BASIN MD

APPLICANT

MORLEY-BENTLEY INVESTMENTS LLC  
20 BOULDER CRESCENT ST  
COLORADO SPRINGS, CO 80903-

(719) 491-3024

APPROVED WELL LOCATION

EL PASO COUNTY  
NE 1/4 NW 1/4 Section 27  
Township 12 S Range 65 W Sixth P.M.

DISTANCES FROM SECTION LINES

304 Ft. from North Section Line  
2632 Ft. from West Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: Northing:

**PERMIT TO CONSTRUCT A WELL**

**ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT**

**CONDITIONS OF APPROVAL**

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-90-137(4) and the decree granted in case no. 86CW18 Division 2 Water Court. The operation of this well is subject to the terms and conditions of said decree.
- 4) The use of ground water from this well is limited to municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, augmentation, livestock watering and agricultural uses.
- 5) The pumping rate of this well shall not exceed 150 GPM.
- 6) The average annual amount of ground water to be appropriated shall not exceed 575 acre-feet.
- 7) Production is limited to the Arapahoe aquifer which is located 1,585 feet below land surface and extends to a depth of 2,070 feet. Plain casing must be installed and grouted to prevent the withdrawal of ground water from other aquifers and the movement of ground water between aquifers.
- 8) The entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules prior to installing casing.
- 9) The owner shall mark the well in a conspicuous place with well permit number(s), name of the aquifer, and court case number(s) as appropriate. The owner shall take necessary means and precautions to preserve these markings.
- 10) A totalizing flow meter must be installed on this well and maintained in good working order. Permanent records of all diversions must be maintained by the well owner (recorded at least annually) and submitted to the Division Engineer upon request.
- 11) This well shall be constructed at least 600 feet from any existing well, completed in the same aquifer, that is not owned by the applicant.
- 12) This well shall be constructed not more than 200 feet from the location specified on this permit.
- 13) Pursuant to CRS 37-90-137(9)(b) and the Denver Basin Rules, no more than 98% of the nontributary ground water withdrawn annually shall be consumed and the well owner shall demonstrate to the reasonable satisfaction of the State Engineer that no more than 98% of the water withdrawn will be consumed.
- 14) This well is subject to administration by the Division Engineer in accordance with applicable decrees, statutes, rules, and regulations.

NOTE: The ability of this well to withdraw its authorized amount of water from this non-renewable aquifer may be less than the 100 years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.

NOTE: To ensure a maximum productive life of this well, perforated casing should be set through the entire producing interval of the approved zone or aquifer indicated above.

NOTE: This permit will expire on the expiration date unless the well is constructed and a pump is installed by that date. A Well Construction and Test Report (GWS-31) and Pump Installation and Test Report (GWS-32) must be submitted to the Division of Water Resources to verify the well has been constructed and the pump has been installed. A one-time extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: <http://www.water.state.co.us>

APPROVED  
IDC

State Engineer

DATE ISSUED

12-19-2013

By

EXPIRATION DATE

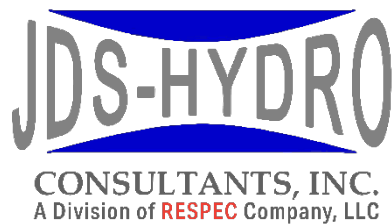
12-19-2014

Receipt No. 3662757



## APPENDIX E

# WATER QUALITY FROM EXISTING WELLS





Colorado Department  
of Public Health  
and Environment

**Inorganic Chemicals Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
**4300 Cherry Creek Drive South, Denver, CO 80246-1530**  
**Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us**

Revised 6/13/2014

**IOC**

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
<b>Public Water System Information</b>		<b>Certified Laboratory Information</b>	
PWSID#: CO-0121724		Laboratory ID: CO 0015	
System Name: LFH-1		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle	Phone #: 719-227-0072	Contact Person: Customer Service	Phone: 303-659-2313
Comments:	Do Samples Need to be Compositd BY THE LAB? <input type="checkbox"/>	Comments:	
<b>Section III (Supplied or Completed by Public Water System)</b>			
Sample Date: 2/16/17	Collector: Stephanie Schwe	Sample Pt ID (On Schedule):	
<b>Section IV Inorganic Chemicals (Completed by Certified Laboratory)</b>			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name
2/17/17	2/17/17	170217005-01	Fluoride
		CAS No.	Analytical Method
		7681-49-4	EPA 300.0
		MCL (mg/L.)	Lab MRL (mg/L.)
		4	0.09
			Result (mg/L.)
			1.07

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter  
MCL: Maximum Contaminant Level

3/6/17  
170217005-01

1/1

# Drinking Water Chain of Custody



LABORATORIES, INC.

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

[www.coloradolab.com](http://www.coloradolab.com)

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>IDS-Hydro</u>	Company Name: <u>SPUNKY</u>	PWSID: <u>CO-0121724</u>			
Contact Name: <u>Mark Valle</u>	Contact Name: <u>Jim Morley</u>	System Name: <u>LFH-1</u>			
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crescent St</u>	Address: <u>NE 1/4 NW 1/4 S27</u>			
Suite: <u>300</u>		<u>TJCS E65W 10TH PM</u>			
City: <u>CS</u>	State: <u>CO</u> Zip: <u>80903</u>	City: <u>Colorado Springs</u> State: <u>CO</u> Zip: <u>80908</u>			
Phone: <u>719-227-0572</u>	Phone: _____ Fax: _____	County: <u>El Paso</u>			
Email: <u>myelle@jshydro.com</u>	Email: <u>jmorley@spunky2870lead.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Sampler Name: <u>Seperate Schwenke</u>	PO No: _____	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

CAL Test No. 170217005

ARF		PHASE I, II, V Drinking Water Analyses (check analysis)																				Subcontract Analyses								
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC/DOC (Circle)	SUVA, UV 254 (Circle)	metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium
	9/31	#1	3			X																								
	9/30	#2	3				X																							
	9/30	#3	3								X																			
	9/30	#4	3																											
	9/30	#5	3																											
	9/30	#6	3																											
	9/30	#7	3																											
	9/30	#8	3																											
	9/30	#9	3																											
	9/30	#10	3																											

Instructions:

CS Info:

Seals Present Yes ☐ No ☒ Headspace Yes ☐ No ☒

Delivered Via: Fedex

C/S Charge: 10

Temp: 2 °C/°F

Sample Pres Yes ☒ No ☐

Relinquished By: Seperate Schwenke

Date/Time: 9/31/17

Received By: Jim Morley

Date/Time: 9/31/17

# Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS HYDRO</u>		Company Name: <u>SR WATER</u>		PWSID: <u>CO-0121724</u>	
Contact Name: <u>MARK VOLLE</u>		Contact Name: <u>JEH MORLEY</u>		System Name: <u>LFH-1</u>	
Address: <u>545 E. RIVES PEAK AVE</u>		Address: <u>20 BOULDER CRESSANT ST</u>		Address: <u>NE 1/4 NO 1/4 S 27</u>	
<u>SUITE 300</u>				<u>T 125 R 65 W 6TH PM</u>	
City/Co/State/Zip: <u>State CO Zip 80903</u>		City/Co/State/Zip: <u>State CO Zip 80903</u>		City/Co/State/Zip: <u>State CO Zip 80908</u>	
Phone: <u>719-227-0072</u> Fax:		Phone: Fax:		County: <u>EL PASO</u>	
Email: <u>mvalle@jds-hydro.com</u>		Email: <u>jmorley@srwater.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>STEPA SCHWENKE</u>		PO No:		Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

please report results on state forms

CAL Task No.  
170217005

ARF			PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses												
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOC's-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride <sup>Drinking Water TDS</sup>	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxene	Gross Alpha/Beta	Radium 226	Radium 228	Radium <sup>Cyamide</sup>	Uranium	
9/16	8:31	#11	3																											
9/16	9:30	#12	3																											
9/16	9:41	#13	3																											
9/16	9:43	#14	1																											
9/16	8:40	#15	1																											
9/16	8:44	#16	1																											
9/16	9:00	#17	1																											
9/16	9:42	#18	1																											
9/16	9:14	#19	3																											

Instructions: 34 + 504 Blank

Relinquished By: [Signature] Date/Time: 9/16/17 12:15 PM Received By: [Signature] Date/Time: 9/17/17 0800

Delivered Via: Fedex Relinquished By: [Signature] Date/Time: 9/17/17

C/S Charge ☐ Temp. 2 °C/lcc ☒ Sample Pres. Yes ☒ No ☐ Date/Time: 9/17/17

Seals Present Yes ☐ No ☒ Headspace Yes ☐ No ☒



Colorado Department  
of Public Health  
and Environment

**Inorganic Chemicals Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
Submit Online at <http://www.wqcdcompliance.com/login>

Revised 4/13/2015

**IOC**

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO-0121724		Laboratory ID: CO 0015	
System Name: LFH-1		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle	Phone #:	Contact Person: Customer Service	Phone: 303-659-2313
Comments:	Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>	Comments:	

Section III (Supplied or Completed by Public Water System)				Section IV Inorganic Chemicals (Completed by Certified Laboratory)			
Sample Date: 2/16/17		Collector: Stephanie Schwe		Sample Pt ID (On Schedule):			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	Analytical Method	MCL (mg/L)	Lab MRL (mg/L)
2/17/17	2/22/17	170217005-01A	Antimony	7740-36-0	EPA 200.8	0.006	0.001
2/17/17	2/22/17	170217005-01A	Arsenic	7440-38-2	EPA 200.8	0.01	0.001
2/17/17	2/22/17	170217005-01A	Barium	7440-39-3	EPA 200.8	2	0.001
2/17/17	2/22/17	170217005-01A	Beryllium	7440-41-7	EPA 200.8	0.004	0.001
2/17/17	2/22/17	170217005-01A	Cadmium	7440-43-9	EPA 200.8	0.005	0.001
2/17/17	2/22/17	170217005-01A	Chromium	7440-47-3	EPA 200.8	0.1	0.001
2/17/17	2/22/17	170217005-01A	Mercury	7439-97-6	EPA 200.8	0.002	0.0001
2/17/17	2/22/17	170217005-01A	Nickel	7440-02-0	EPA 200.8	N/A	0.001
2/17/17	2/22/17	170217005-01A	Selenium	7782-49-2	EPA 200.8	0.05	0.001
2/17/17	2/24/17	170217005-01A	Sodium	7440-23-5	EPA 200.7	N/A	0.1
2/17/17	2/22/17	170217005-01A	Thallium	7440-28-0	EPA 200.8	0.002	0.001

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter  
MCL: Maximum Contaminant Level

# Drinking Water Chain of Custody



LABORATORIES, INC.

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr., Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

[www.coloradolab.com](http://www.coloradolab.com)

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: <u>IDS-Hydro</u>	Company Name: <u>SP-Water</u>	PWSID: <u>60-D121724</u>			
Contact Name: <u>Mark Volle</u>	Contact Name: <u>Jim Morley</u>	System Name: <u>LFH-1</u>			
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crescent St</u>	Address: <u>NE 1/4 NW 1/4 S37</u>			
<u>Suite 200</u>		<u>TJCS E65W 64THN</u>			
City: <u>CS</u>	State: <u>CO</u> Zip: <u>80903</u>	City: <u>Colorado Spgs</u> State: <u>CO</u> Zip: <u>80908</u>			
Phone: <u>719-327-0522</u>	Phone: _____ Fax: _____	County: <u>El Paso</u>			
Email: <u>myelle@ishydro.com</u>	Email: <u>jmorley@boulderad.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Sampler Name: <u>Seprane Schwenke</u>	PO No: _____	Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

CAL Task No.		PHASE I, II, V Drinking Water Analysis (check analysis)															Subcontract Analyses														
170217005																															
ARF	Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC/DOC (Circle)	SUVA, UV 254 (Circle)	metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium
	9:31		#1	3			X																								
	9:32		#2	3				X																							
	9:30		#3	3																											
	9:34		#4	3								X																			
	9:33		#5	3																											
	9:36		#6	3																											
	9:32		#7	3																											
	9:34		#8	3																											
	9:34		#9	3																											
	9:52		#10	3																											

Instructions:		CS Info:		Scale Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Headspace Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Relinquished By: <u>[Signature]</u>	Date/Time: <u>10:15 AM</u>	Received By: <u>[Signature]</u>	Date/Time: <u>2:17 PM</u>	CS Charge: <u>[Signature]</u>	Temp: <u>2</u> °C/°F	Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date/Time: <u></u>

# Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS HYDRO</u>		Company Name: <u>SR WATER</u>		PWSID: <u>CO-0121724</u>	
Contact Name: <u>MARK VOLLE</u>		Contact Name: <u>JIM MORLEY</u>		System Name: <u>LFH-1</u>	
Address: <u>545 E. PARKS PEAK AVE</u>		Address: <u>20 BOULDER CRESSANT ST</u>		Address: <u>NE 1/4 NW 1/4 S27</u>	
<u>Suite 300</u>				<u>T 125 R65W 6TH PM</u>	
City/CO ZIP: <u>State CO zip 80903</u>		City/CO ZIP: <u>State CO zip 80903</u>		City/CO ZIP: <u>State CO zip 80908</u>	
Phone: <u>719-227-0072</u> Fax:		Phone: <u></u> Fax:		County: <u>EL PASO</u>	
Email: <u>mvalle@jds-hydro.com</u>		Email: <u>imorley@srwater.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>STEVEN SCHWENKE</u>		PO No: <u></u>		Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Please attach state forms  
with results on state forms

CAL Task No.  
170217005

## PHASE I, II, V Drinking Water Analyses (check analysis)

## Subcontract Analyses

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOC's-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride <sup>Drinking Water</sup>	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Radium <sup>Cyanide</sup>	Uranium
2/16	8:31	#11	3																										
2/16	9:30	#12	3																										
2/16	9:41	#13	3																										
2/16	9:43	#14	3																										
2/16	8:40	#15	1																										
2/16	8:44	#16	1																										
2/16	9:00	#17	1																										
2/16	9:12	#18	1																										
2/16	9:19	#19	3																										

Instructions:

34 + 504 Blank

SOA

C/S Info: Fedex

Seals Present Yes ☐ No ☒ Headspace Yes ☐ No ☐

Relinquished By: <u>[Signature]</u>	Date/Time: <u>2/16/17 12:15 PM</u>	Received By: <u>[Signature]</u>	Date/Time: <u>2/17/17 0800</u>	Delivered Via: <u>Fedex</u>	C/S Charge <input type="checkbox"/>	Temp. <u>2</u> °C/°F <u>Y</u>	Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>



**Hazen Research, Inc.**  
4601 Indiana Street  
Golden, CO 80403 USA  
Tel: (303) 279-4501  
Fax: (303) 276-1528

Lab Control ID: B16917  
Received: Feb 17, 2017  
Reported: Mar 20, 2017  
Purchase Order No.  
None Received

Customer ID: 20040H  
Account ID: Z01034  
Project #: 009-616

## ANALYTICAL REPORT

Stuart Nielson  
Colorado Analytical Laboratories, Inc.

Lab Sample ID			B16917-001					
Customer Sample ID			170217005-01 - Lfh-1 - PWSID: CO0121724 - LFH-1 sampled on 02/16/17 @ 0906 by Stephanie Schwenke					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	0.0	0.0	1.5	SM 7110 B	3/2/17 @ 0840	LD
Gross Beta	pCi/L	T	0.0	2.1	2.2	SM 7110 B	3/2/17 @ 0840	LD
Radium-226	pCi/L	T	0.0	0.2	0.1	SM 7500-Ra B	3/3/17 @ 0825	LD
Radium-228	pCi/L	T	0.0	0.8	0.8	EPA Ra-05	3/14/17 @ 1257	JR
Radon	pCi/L	T	345	25	13.9	SM 7500-Rn B	2/17/17 @ 1500	AN

Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; NJ CO008; NYSELAP (NELAC Certified) 11417; RI LAO00284; WI 998376610, TX T104704256-15-6

\*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Residual  
(PD) = Potentially Dissolved < = Less Than



Colorado Department  
of Public Health  
and Environment

## Radionuclides Certified Laboratory Report Form

WQCD - Drinking Water CAS

4300 Cherry Creek Drive South; Denver, CO 80246-1530

Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us

Revision 6/13/2014

# RAD

### Section I (Supplied or Completed by Public Water System)

#### Public Water System Information

PWS ID: CO0121724

System Name: Lfh-1

Contact Person:

Phone #:

Do Samples Need to be Compositing BY THE LAB?

Laboratory ID: CO 00008

Laboratory Name: Hazen Research, Inc.

Contact Person: Jessica Axen

Phone #: 303-279-4501

Comments:

### Section II (Supplied or Completed by Certified Laboratory)

#### Certified Laboratory Information

### Section III (Supplied or Completed by Public Water System)

Collector: Stephanie Schwenke

Facility ID (On Schedule):

Sample Pt ID (On Schedule):

### Section IV Radionuclides (Supplied or Completed by Certified Laboratory)

Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name (Code)	CAS No.	Analytical Method	MCL	Lab MRL	Result
02/17/2017	03/02/2017	B16917-001	Gross Alpha Including Uranium (4002)	12587-46-1	SM 7110 B	N/A	1.5	0.0(±0.0)
			Combined Uranium (4006)	7440-61-1	D2907-97	30 ug/L		
02/17/2017	03/03/2017	B16917-001	Radium -226 (4020)	13982-63-3	SM 7500-Ra B	N/A	0.1	0.0(±0.2)
02/17/2017	03/14/2017	B16917-001	Radium -228 (4030)	15262-20-1	EPA Ra-05	N/A	0.8	0.0(±0.8)
02/17/2017	03/02/2017	B16917-001	Gross Beta (4100)	12587-47-2	SM 7110 B	50 pCi/L*	2.2	0.0(±2.1)
			Total Dissolved Solids (1930)		EPA 160.3	N/A		

\*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern.

### Section V Calculated Values

Gross Alpha Excluding Uranium (4000)	Gross Alpha Excluding Uranium (4000)	Calculated Value	Calculated Value
Combined Radium {-226 & -228} (4010)	Combined Radium {-226 & -228} (4010)	15 pCi/L	5 pCi/L

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

BDL: Below Laboratory MRL. A less than sign (<) may also be used

ug/L: Micrograms per Liter

pCi/L: PicoCuries per Liter

MCL: Maximum Contaminant Level

Feb 11



**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr, Suite 101  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

**[www.coleradolab.com](http://www.coleradolab.com)**

Task Number			PHASE I, II, V Drinking Water Analyses (check analysis)																	Subcontract Analyses											
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)		Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium	
02/16/17	0906	170217005-01 LEH-1	6		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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					<input type="checkbox"/>	<input type="checkbox"/>																									

## Analytical Results

**TASK NO: 170217005**

**Report To:** Mark Volle

**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley

**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

**Task No.:** 170217005  
**Client PO:**  
**Client Project:** LFH-1 CO-0121724

**Date Received:** 2/17/17  
**Date Reported:** 3/6/17  
**Matrix:** Water - Drinking

**Customer Sample ID** LFH-1

**Sample Date/Time:** 2/16/17

**Lab Number:** 170217005-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	155.5 mg/L as CaCO <sub>3</sub>	SM 2320-B	0.1	2/20/17	VDB
Calcium as CaCO <sub>3</sub>	6.3 mg/L	SM 3111-B	0.1	2/24/17	MBN
Carbonate	4.0 mg/L as CaCO <sub>3</sub>	SM 2320-B	0.1	2/20/17	VDB
Langelier Index	-0.43 units	SM 2330-B		2/24/17	SAN
pH	8.44 units	SM 4500-H-B	0.01	2/17/17	MBN
Temperature	20 °C	SM 4500-H-B	1	2/17/17	MBN
Total Alkalinity	159.5 mg/L as CaCO <sub>3</sub>	SM 2320-B	0.1	2/20/17	VDB
Total Dissolved Solids	456 mg/L	SM 2540-C	5	2/23/17	ISG

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
mg/L = Milligrams Per Liter or PPM  
ug/L = Micrograms Per Liter or PPB  
mpn/100 ml = Most Probable Number Index/ 100 ml  
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

# Drinking Water Chain of Custody



LABORATORIES, INC.

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr., Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

[www.coloradolab.com](http://www.coloradolab.com)

<b>Report &amp; Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS-Hydro</u>		Company Name: <u>SP Water</u>		PWSID: <u>60-D121724</u>	
Contact Name: <u>Mark Valle</u>		Contact Name: <u>Jim Morley</u>		System Name: <u>LFH-1</u>	
Address: <u>545 E. Pikes Peak Ave</u>		Address: <u>20 Boulder Crescent St</u>		Address: <u>NE 1/4 NW 1/4 527</u>	
<u>Suite 200</u>				<u>TJAS E65W 64PM</u>	
City: <u>CS</u> State: <u>CO</u> Zip: <u>80903</u>		City: <u>Colorado Springs</u> Zip: <u>80903</u>		City: <u>Colorado Springs</u> State: <u>CO</u> Zip: <u>80908</u>	
Phone: <u>719-327-0022</u> Fax: _____		Phone: _____ Fax: _____		County: <u>El Paso</u>	
Email: <u>myelle@jds-hydro.com</u>		Email: <u>jmorley@spwater.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>Seppane Schwenke</u> PO No: _____		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		State: <u>Colorado</u>	

CAL Task No.  
170217005

Date		Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC/DOC (Circle)	SUVA, UV 254 (Circle)	metals	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium
		9:31	#1	3			X																								
		9:32	#2	3				X																							
		9:30	#3	3																											
		9:34	#4	3								X																			
		9:33	#5	3																											
		9:36	#6	3																											
		9:32	#7	3																											
		9:40	#8	3																											
		9:54	#9	3		X																									
		8:53	#10	3																											

Instructions:

ARF

170217005

PHASE I, II, V Drinking Water Analyses (check analysis)

Subcontract Analyses

Instructions:

C/S Info:

Scale Present Yes ☐ No ☒ Headspace Yes ☐ No ☒

Delivered Via:

C/S Change:

Temp. 2 °C/lit

Sample Pres. Yes ☒ No ☐

Relinquished By:

Date/Time:

Received By:

Date/Time:

Relinquished By:

Date/Time:

Received By:

Date/Time:

# Drinking Water Chain of Custody



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12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS HYDRO</u>		Company Name: <u>SR WATER</u>		PWSID: <u>CO-0121724</u>	
Contact Name: <u>MARK VOLLE</u>		Contact Name: <u>JIM MORLEY</u>		System Name: <u>LFH-1</u>	
Address: <u>545 E. BOXES PEAK AVE</u>		Address: <u>20 BOULDER CRESSANT ST</u>		Address: <u>NE 1/4 NO 1/4 S 27</u>	
<u>SIXTH 300</u>				<u>T 125 R 65 W 6TH PM</u>	
City/CO/ST/PS: <u>State CO zip 80903</u>		City/CO/ST/PS: <u>State CO zip 80903</u>		City/CO/ST/PS: <u>State CO zip 80908</u>	
Phone: <u>719-227-0072</u> Fax:		Phone: <u>719-227-0072</u> Fax:		County: <u>EL PASO</u>	
Email: <u>mark.volle@jds-hydro.com</u>		Email: <u>imorley@srwater.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>STEVE SCHWENKE</u>		PO No:		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

please report results on state forms

CAL Task No.  
170217005

## PHASE I, II, V Drinking Water Analyses (check analysis)

## Subcontract Analyses

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOC's-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxene	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium
2/16	8:31	#11	3																										
	9:30	#12	3																										
	9:31	#13	3																										
	9:43	#14	1																										
2/16	8:40	#15	1																										
	8:44	#16	1																										
	1:00	#17	1																										
	5:42	#18	1																										
	9:19	#19	3																										

## Instructions:

34 + 504 Blank

CS Info: Fedex

Seals Present Yes ☐ No ☒ Headspace Yes ☐ No ☐

Relinquished By: <u>John Doe</u>	Date/Time: <u>2/16/17 12:15 PM</u>	Received By: <u>Mark Volle</u>	Date/Time: <u>2/17/17 0800</u>	Delivered Via: <u>Fedex</u>	Relinquished By: <u>John Doe</u>	Date/Time: <u>2/17/17 0800</u>	Temp. <u>2</u> °C/°F	Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date/Time: <u>2/17/17 0800</u>
----------------------------------	------------------------------------	--------------------------------	--------------------------------	-----------------------------	----------------------------------	--------------------------------	----------------------	--	--------------------------------



Colorado Department  
of Public Health  
and Environment

Nitrate and Nitrite as Nitrogen Certified Laboratory Report Form  
WQCD - Drinking Water CAS  
Submit Online at <http://www.wqcdcompliance.com/login>

Revised 4/13/2015

NOX

Section I (Supplied or Completed by Public Water System)				Section II (Supplied or Completed by Certified Laboratory)			
Public Water System Information				Certified Laboratory Information			
PWSID#: CO-0121724				Laboratory ID: CO 0015			
System Name: LFH-1				Laboratory Name: Colorado Analytical Laboratory			
Contact Person: Mark Volle		Phone #: 719-227-0072		Contact Person: Customer Service		Phone: 303-659-2313	
Comments:				Comments:			

Section III (Supplied or Completed by Public Water System)					Section IV (Supplied or Completed by Certified Laboratory)							
Sample Date	Collector	Facility ID On Schedule	Sample Pt ID On Schedule	Confirmation?	Lab Receipt Date	Lab Analysis Date	Laboratory Sample ID #	Analyte	Analytical Method	MCL (mg/L)	Lab MRI (mg/L)	Result (mg/L)
2/16/17	Jephannie Schwendt			<input type="checkbox"/>	2/17/17	2/17/17	170217005-01	Nitrate Nitrogen	EPA 300.0	10	0.1	BDL
2/16/17	Jephannie Schwendt			<input type="checkbox"/>	2/17/17	2/17/17	170217005-01	Nitrite Nitrogen	EPA 300.0	1	0.1	BDL

NT: Not Tested  
Lab MRI: Laboratory Minimum Reporting Level  
BDL: Below Laboratory MRI. A less than (<) may also used.

mg/L: Milligrams per Liter  
MCL: Maximum Contaminant Level

# Drinking Water Chain of Custody



LABORATORIES, INC.

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

[www.coloradolab.com](http://www.coloradolab.com)

<b>Report To Information:</b> Company Name: <u>IDS-Hydro</u> Contact Name: <u>Mark Valle</u> Address: <u>545 E. Pikes Peak Ave</u> <u>Suite 200</u> City: <u>CS</u> State: <u>CO</u> Zip: <u>80903</u> Phone: <u>719-337-0022</u> Fax: _____ Email: <u>myelle@jshydro.com</u>		<b>Bill To Information (if different from report to):</b> Company Name: <u>SP Water</u> Contact Name: <u>J.M. Morley</u> Address: <u>20 Boulder Crescent St</u> City: <u>Colorado Springs</u> State: <u>CO</u> Zip: <u>80903</u> Phone: _____ Fax: _____ Email: <u>jmorley@spwater.com</u>		<b>State Form / Project Information</b> PWSID: <u>60-D121724</u> System Name: <u>LFT-1</u> Address: <u>NE 1/4 NW 1/4 S27</u> <u>T12S R6SW 6th PM</u> City: <u>Colorado Springs</u> State: <u>CO</u> Zip: <u>80908</u> County: <u>El Paso</u> Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
<b>CAL Test No.</b> 170217005		<b>PHASE I, II, V Drinking Water Analyses (check analysis)</b>				<b>Subcontract Analyses</b>	
<b>ARF</b> Date Time Client Sample ID / EP Code		No. of Containers		Residual Chlorine (mg/L) P/A Samples Only		Total Coliform P/A	
9:31 #1		3		504.1 EDB/DBCP		505 Pests/PCBs	
9:32 #2		3		515.4 Herbicides		524.2 VOCs	
9:30 #3		3		525.2 SOCs-Pest		531.1 Carbamates	
9:34 #4		3		547 Glyphosate		548.1 Endothall	
9:33 #5		3		549.2 Diquat		524.2 TTHMs	
9:32 #6		3		552.2 HAA5s		Lead/Copper	
9:32 #7		3		Nitrate		Nitrite	
9:34 #8		3		Fluoride		Inorganics	
9:34 #9		3		Alk./Lang. Index		TOC/DOC (Circle)	
9:32 #10		3		SUVA, UV 254 (Circle)		metals	
				Gross Alpha/Beta		Radium 226	
						Radium 228	
						Radon	
						Uranium	
<b>Instructions:</b>		CS Info:		Seals Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Headspace Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Relinquished By: <u>[Signature]</u> Date/Time: <u>10:50 AM</u>		Received By: <u>[Signature]</u> Date/Time: <u>11:17 AM</u>		Delivered Via: <u>Fedex</u>		CS Charged <input checked="" type="checkbox"/> Temp. <u>2</u> °C/lc <u>1</u> Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

# Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Forms / Project Information</b>	
Company Name: <u>JDS H2O</u>	Company Name: <u>SR WATER</u>	PWSID: <u>CO-0121724</u>			
Contact Name: <u>MARK VOLLE</u>	Contact Name: <u>JOHN MORLEY</u>	System Name: <u>LFH-1</u>			
Address: <u>545 E. BOXES PEAK AVE</u>	Address: <u>20 BOULDER CRESSANT ST</u>	Address: <u>NE 1/4 NW 1/4 S27</u>			
<u>Suite 300</u>		<u>T125 R65W 6TH PM</u>			
City/CO/State/Zip: <u>State CO Zip 80903</u>	City/CO/State/Zip: <u>City COLO 805 State CO Zip 80903</u>	City/CO/State/Zip: <u>City COLO 805 State CO Zip 80908</u>			
Phone: <u>719-224-0072</u> Fax:	Phone: Fax:	County: <u>EL PASO</u>			
Email: <u>mwalle@jds-h2o.com</u>	Email: <u>johnmorley@boulderco.gov</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Sampler Name: <u>STEVE SCHWENKE</u>	PO No.:	Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

please report results on state forms

CAL Task No.  
170217005

## PHASE I, II, V Drinking Water Analyses (check analysis)

## Subcontract Analyses

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOC's-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride <sup>Drinking Water</sup>	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Radium Cyanide	Uranium
2/16	8:31	#11	3																										
	9:30	#12	3																										
	9:41	#13	2																										
	9:43	#14	1																										
2/16	8:40	#15	1																										
	8:44	#16	1																										
	9:00	#17	1																										
	8:42	#18	1																										
	9:19	#19	3																										

### Instructions:

34 + 504 Blank

VOA

CS Info: Fedex

Seal Present Yes ☐ No ☒ Headspace Yes ☐ No ☐

Relinquished By: <u>[Signature]</u>	Date/Time: <u>2/16/17</u>	Received By: <u>[Signature]</u>	Date/Time: <u>2/17/17</u>	Delivered Via: <u>Fedex</u>	Relinquished By:	CS Charge <input type="checkbox"/>	Date/Time:	Temp. <u>2</u> °C/°F	Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Date/Time:
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Colorado Department  
of Public Health  
and Environment

# Organic Chemicals Certified Laboratory Report Form

## WQCD - Drinking Water CAS

Submit Online at <http://www.wqcdcompliance.com/login>

Revised 4/13/2015

# VOC/SOC

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO-0121724		Laboratory ID: CO 00063	
System Name: LFH-1		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle	Phone #: 719-227-0072	Contact Person: Customer Service	Phone: 303-659-2313
Comments:	Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>	Comments:	

PWSID#: CO-0121724				Section V (Supplied or Completed by Public Water System)				
Sample Date: 2/16/17		Collector:	Stephanie Schwenk	Facility ID (On Schedule):	Sample Pt ID (On Schedule):			
Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)								
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
2/17/17	2/24/17	170217005-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
2/17/17	3/1/17	170217005-01G	2,4-D	94-75-7	EPA 515.4	70	0.1	BDL
2/17/17	3/1/17	170217005-01G	2,4,5-TP	93-72-1	EPA 515.4	50	0.2	BDL
2/17/17	2/23/17	170217005-01H	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL
2/17/17	3/2/17	170217005-01I	Aldicarb	116-06-3	EPA 531.1	N/A	0.6	BDL
2/17/17	3/2/17	170217005-01I	Aldicarb sulfone	1646-88-4	EPA 531.1	N/A	1	BDL
2/17/17	3/2/17	170217005-01I	Aldicarb sulfoxide	1646-87-3	EPA 531.1	N/A	0.7	BDL
2/17/17	2/23/17	170217005-01II	Atrazine	1912-24-9	EPA 525.2	3	0.1	BDL
2/17/17	2/23/17	170217005-01H	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDL
2/17/17	3/2/17	170217005-01I	Carbofuran	1563-66-2	EPA 531.1	40	0.9	BDL
2/17/17	2/24/17	170217005-01F	Chlordane	57-74-9	EPA 505	2	0.2	BDL
2/17/17	3/1/17	170217005-01G	Dalapon	75-99-0	EPA 515.4	200	1	BDL
2/17/17	2/23/17	170217005-01II	Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2	400	0.6	BDL
2/17/17	2/23/17	170217005-01H	Di(2-ethylhexyl)phthalate	117-81-7	EPA 525.2	6	0.6	BDL
2/17/17	3/1/17	170217005-01G	Dinoseb	85-85-7	EPA 515.4	7	0.2	BDL
2/17/17	2/23/17	170217005-01K	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
2/17/17	2/23/17	170217005-01J	Endosulf	145-73-3	EPA 548.1	100	9	BDL
2/17/17	2/24/17	170217005-01F	Endrin	72-20-8	EPA 505	2	0.01	BDL
2/17/17	2/24/17	170217005-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDL
2/17/17	2/23/17	170217005-01H	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
2/17/17	2/24/17	170217005-01F	Heptachlor epoxide	1024-57-3	EPA 505	0.2	0.02	BDL

NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL ^ less than sign (<) may also be used.

1/2  
3/8/17  
170217005-01

PWSID#: CO-0121724		Section V (Supplied or Completed by Public Water System)						
Sample Date:	2/16/17	Collector:	Stephanie Schwenk	Facility ID (On Schedule):	Sample Pt ID (On Schedule):			
Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)								
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analytic Name	CAS No.	Analytical Method	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
2/17/17	2/24/17	170217005-01F	Hexachlorobenzene	118-74-1	EPA 505	1	0.1	BDL
2/17/17	2/24/17	170217005-01F	Hexachlorocyclopentadiene	77-47-4	EPA 505	50	0.1	BDL
2/17/17	2/24/17	170217005-01F	Lindane	58-89-9	EPA 505	0.2	0.02	BDL
2/17/17	2/24/17	170217005-01F	Methoxychlor	72-43-5	EPA 505	40	0.1	BDL
2/17/17	3/2/17	170217005-01I	Oxamyl	23135-22-0	EPA 531.1	200	1	BDL
2/17/17	3/1/17	170217005-01G	Pentachlorophenol	87-86-5	EPA 515.4	1	0.04	BDL
2/17/17	3/1/17	170217005-01G	Picloram	1918-02-1	EPA 515.4	500	0.1	BDL
2/17/17	2/24/17	170217005-01F	Polychlorinated biphenyl's	1336-36-3	EPA 505	0.5	0.1	BDL
2/17/17	2/23/17	170217005-01H	Simazine	122-34-9	EPA 525.2	4	0.07	BDL
2/17/17	2/24/17	170217005-01F	Toxaphene	8001-35-2	EPA 505	3	1	BDL

NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL: Below Laboratory MRL  $\Delta$  less than sign (<) may also be used.

170217005-01

2/2  
3/8/17

# Drinking Water Chain of Custody



LABORATORIES, INC.

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr., Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

[www.coloradolab.com](http://www.coloradolab.com)

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>IDS-Hydro</u>	Company Name: <u>SP Water</u>	PWSID: <u>60-D121724</u>			
Contact Name: <u>Mark Valle</u>	Contact Name: <u>J.M. Morley</u>	System Name: <u>LFA-1</u>			
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crescent St</u>	Address: <u>NE 1/4 NW 1/4 S27</u>			
Suite: <u>200</u>		<u>T125 E 65th 16th PM</u>			
City: <u>CS</u>	State/Zip: <u>80903</u>	City: <u>Colorado Springs</u>	State/Zip: <u>80903</u>		
Phone: <u>719-227-0072</u>	Phone: <u></u>	County: <u>El Paso</u>			
Email: <u>mvalle@jshydro.com</u>	Email: <u>jmorley@boulderad.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Sampler Name: <u>Seperate Schwenke</u>	PO No: <u></u>	Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

CAL Test No.  
170217005

170217005		PHASE I, II, V Drinking Water Analyses (check analysis)																				Subcontract Analyses																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
ARF		Date		Time		Client Sample ID / EP Code		No. of Containers		Residual Chlorine (mg/L) P/A Samples Only		Total Coliform P/A		504.1 EDB/DBCP		505 Pests/PCBs		515.4 Herbicides		524.2 VOCs		525.2 SOCs-Pest		531.1 Carbarnates		547 Glyphosate		548.1 Endothall		549.2 Diquat		524.2 TTHMs		552.2 HAA5s		Lead/Copper		Nitrate		Nitrite		Fluoride		Inorganics		Alk./Lang. Index		TOC/DOC (Circle)		SUVA, UV 254 (Circle)		metals		Gross Alpha/Beta		Radium 226		Radium 228		Radon		Uranium																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Instructions:

Relinquished By:

Date/Time:

Received By:

Date/Time:

Delivered Via:

Relinquished By:

Date/Time:

C/S Change:

Temp:

% C/lc

Sample Pres. Yes

Date/Time:

Headspace Yes

No

No

Relinquished By: Seperate Schwenke Date/Time: 10/16/17 Received By: Mark Valle Date/Time: 10/17/17 Delivered Via: Fedex Relinquished By: Mark Valle Date/Time: 10/17/17 C/S Change: 10/17/17 Temp: 2 % C/lc: 1 Sample Pres. Yes ☒ No ☐ Date/Time: 10/17/17 Headspace Yes ☐ No ☐

# Drinking Water Chain of Custody



LABORATORIES, INC.

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

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Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

[www.coloradolab.com](http://www.coloradolab.com)

*Please attach results state forms*

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS HYDRO</u>		Company Name: <u>SR WATER</u>		PWSID: <u>CO-0121724</u>	
Contact Name: <u>MARK VOLLE</u>		Contact Name: <u>JEFF MORLEY</u>		System Name: <u>LFH-1</u>	
Address: <u>545 E. ROCKS PEAK AVE</u>		Address: <u>20 BOULDER CRESSANT ST</u>		Address: <u>NE 1/4 NW 1/4 S27</u>	
<u>Suite 300</u>				<u>T125 R65W 6TH PM</u>	
City/State/Zip: <u>State CO Zip 80903</u>		City/State/Zip: <u>State CO Zip 80903</u>		City/State/Zip: <u>State CO Zip 80908</u>	
Phone: <u>719-227-0072</u> Fax:		Phone: Fax:		County: <u>EL PASO</u>	
Email: <u>mvalle@jds-hydro.com</u>		Email: <u>jeffmorley@srwater.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>STEPA SCHWENKE</u>		PO No:		Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

CAL Task No.  
170217005

ARF		PHASE I, II, V Drinking Water Analyses (check analysis)														Subcontract Analyses														
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOC's-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Drinking Fluoride Water TDS	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Radium Gamma	Uranium	
7/16	8:31	#11	3																											
	9:30	#12	3																											
	9:31	#13	3																											
	9:43	#14	1																											
7/16	8:40	#15	1																											
	8:44	#16	1																											
	9:00	#17	1																											
	9:12	#18	1																											
	9:19	#19	3																											

Instructions: 34 + 504 Blank

Relinquished By: [Signature] Date/Time: 7/16/17 12:15 PM Received By: [Signature] Date/Time: 7/17/17 0800

Delivered Via: Fedex Relinquished By: [Signature] Date/Time: 7/17/17

CS Charge ☐ Temp. 2 °C/lit 1 Sample Pres. Yes ☒ No ☐ Date/Time: 7/17/17

Scals Present Yes ☐ No ☒ Headspace Yes ☐ No ☒

## Analytical Results

**TASK NO: 170217005**

**Report To:** Mark Voile

**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley

**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

**Task No.:** 170217005  
**Client PO:**  
**Client Project:** LFH-1 CO-0121724

**Date Received:** 2/17/17  
**Date Reported:** 3/6/17  
**Matrix:** Water - Drinking

**Customer Sample ID** LFH-1

**Sample Date/Time:** 2/16/17

**Lab Number:** 170217005-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	5.8 mg/L	EPA 300.0	0.1 mg/L	2/17/17	LJG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	2/24/17	VDB
E-Coli	< 1 mpn/100ml	Colilert	1 mpn/100ml	2/18/17	VDB
Sulfate	142.1 mg/L	EPA 300.0	0.1 mg/L	2/17/17	LJG
Total Coliform	93 mpn/100ml	Colilert	1 mpn/100ml	2/18/17	VDB
Total Organic Carbon	0.8 mg/L	SM 5310-C	0.5 mg/L	2/23/17	ISG
Turbidity	2.49 NTU	SM 2130-B	0.01 NTU	2/17/17	MBN
<b>Total</b>					
Aluminum	0.053 mg/L	EPA 200.8	0.001 mg/L	2/22/17	TCD
Calcium	2.5 mg/L	EPA 200.7	0.1 mg/L	2/22/17	MBN
Copper	0.0026 mg/L	EPA 200.8	0.0008 mg/L	2/22/17	TCD
Iron	0.602 mg/L	EPA 200.7	0.005 mg/L	2/24/17	MBN
Lead	0.0005 mg/L	EPA 200.8	0.0001 mg/L	2/22/17	TCD
Magnesium	0.39 mg/L	EPA 200.7	0.02 mg/L	2/22/17	MBN
Manganese	0.0259 mg/L	EPA 200.8	0.0008 mg/L	2/22/17	TCD
Potassium	1.5 mg/L	EPA 200.7	0.1 mg/L	2/22/17	MBN
Silver	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	2/22/17	TCD
Strontium	0.037 mg/L	EPA 200.8	0.005 mg/L	2/22/17	TCD
Total Hardness	7.7 mg/L as CaCO <sub>3</sub>	SM 2340-B	0.1 mg/L as CaCO <sub>3</sub>	2/24/17	MBN
Uranium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	2/22/17	TCD
Zinc	0.004 mg/L	EPA 200.8	0.001 mg/L	2/22/17	TCD

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 ml = Most Probable Number Index/ 100 ml

Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

## Analytical Results

**TASK NO: 170217005**

**Report To:** Mark Voile

**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley

**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

**Task No.:** 170217005  
**Client PO:**  
**Client Project:** LFH-1 CO-0121724

**Date Received:** 2/17/17  
**Date Reported:** 3/6/17  
**Matrix:** Water - Drinking

**Customer Sample ID:** LFH-1  
**Sample Date/Time:** 2/16/17  
**Lab Number:** 170217005-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
<u>Total</u> Zinc	0.005 mg/L	EPA 200.8	0.001 mg/L	2/22/17	TCD

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
mg/L = Milligrams Per Liter or PPM  
ug/L = Micrograms Per Liter or PPB  
mpn/100 mls = Most Probable Number Index/ 100 mls  
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY

# Drinking Water Chain of Custody



LABORATORIES, INC.

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

[www.coloradolab.com](http://www.coloradolab.com)

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>IDS-Hydro</u>	Company Name: <u>SP Water</u>	PWSID: <u>Co-0101724</u>			
Contact Name: <u>Mark Velle</u>	Contact Name: <u>Jim Morley</u>	System Name: <u>LFH-1</u>			
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crescent St</u>	Address: <u>NE 1/4 NW 1/4 S27</u>			
Suite <u>300</u>		<u>TJOS E65W 64TH N</u>			
City: <u>CS</u>	State/Zip: <u>80903</u>	City/State/Zip: <u>80903</u>			
Phone: <u>719-327-0072</u>	Phone: <u></u>	County: <u>El Paso</u>			
Email: <u>mvelle@ishydro.com</u>	Email: <u>jmorley@boulderad.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Sampler Name: <u>Debra Schwenke</u>	PO No.: <u></u>	Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

*MADE REPAIRS  
DR. GARY  
LEWIS*

CAL Task No.  
170217005

CAL Task No. 170217005		ARF		Date		Time		Client Sample ID / Ep-Code		No. of Containers		Residual Chlorine (mg/L) P/A Samples Only		Total Coliform P/A		PHASE I, II, V Drinking Water Analyses (check analysis)													Subcontract Analyses				

Instructions:

CS Info:

Seals Present Yes ☐ No ☒ Headspace Yes ☐ No ☐

Delivered Via:

*Fedex*

CS Change:

Temp. 2 °C/ltr ☒ Sample Pres. Yes ☒ No ☐

Relinquished By:

Date/Time: 12/15/04

Received By:

Date/Time: 12/17/04

Relinquished By:

Date/Time:

Received By:

Date/Time:

*Signature* 02/16/07 *Signature* 12/17/04

# Drinking Water Chain of Custody



LABORATORIES, INC.

Brighton Lab  
240 South Main Street  
Brighton, CO 80601

Lakewood Lab  
12860 W. Cedar Dr., Suite 100A  
Lakewood CO 80228

Phone: 303-659-2313  
Fax: 303-659-2315

www.coloradolab.com

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS HYDRO</u>		Company Name: <u>SR WATER</u>		PWSID: <u>CO-0121724</u>	
Contact Name: <u>MARK VOLLE</u>		Contact Name: <u>JIM MORLEY</u>		System Name: <u>LFH-1</u>	
Address: <u>545 E. ARKES PEAK AVE</u>		Address: <u>20 BOULDER CRESSANT ST</u>		Address: <u>NE 1/4 NO 1/4 S 27</u>	
<u>Suite 300</u>				<u>T 125 R 65 W 6TH PM</u>	
City/State ZIP: <u>State CO Zip 80903</u>		City/State ZIP: <u>State CO Zip 80903</u>		City/State ZIP: <u>State CO Zip 80908</u>	
Phone: <u>719-224-0012</u> Fax:		Phone: <u>719-224-0012</u> Fax:		County: <u>EL PASO</u>	
Email: <u>mark.volle@jds-hydro.com</u>		Email: <u>imorley@3870@aol.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>STEVE SCHWENKE</u>		PO No:		Send Forms to State: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

please return state forms  
with results

CAL Task No.  
170217005

## PHASE I, II, V Drinking Water Analyses (check analysis)

## Subcontract Analyses

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOC's-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride <sup>Drinking Water</sup>	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	1,4 Dioxane	Gross Alpha/Beta	Radium 226	Radium 228	Radium <sup>Cyanide</sup>	Uranium
2/16	8:31	#11	3																										
2/16	9:50	#12	3																										
2/16	9:51	#13	2																										
2/16	9:43	#14	1																										
2/16	8:40	#15	1																										
2/16	8:44	#16	1																										
2/16	9:00	#17	1																										
2/16	8:42	#18	1																										
2/16	9:19	#19	3																										

### Instructions:

34 + 504 Blank

SOA

CS Info: Index

CS Charge ☐

Temp. 2 °C/lc

Sample Pres. Yes ☒ No ☐

Seal Present Yes ☐ No ☒ Headspace Yes ☐ No ☐

Relinquished By:

Date/Time: 2/16/17

Received By:

Date/Time: 2/17/17

Relinquished By:

Date/Time:

Received By:

Date/Time:



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College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

## ANALYTICAL SUMMARY REPORT

March 02, 2017

Colorado Analytical Laboratories Inc  
PO Drawer 507  
Brighton, CO 80601

Work Order: C17020566 Quote ID: C4542 - 624, 625, 1,4-Dioxane

Project Name: 170217005 LFH-1 CO-0121724

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 2/21/2017 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C17020566-001	170217005-01 LFH-1	02/16/17 0:00	02/21/17	Drinking Water	Azeotropic Distillation Separatory Funnel Liquid-Liquid Ext. Semi-Volatile Organic Compounds 624-Purgeable Organics Volatile Compounds by Azeotropic Distillation

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

  
Randy Horton, Project Manager

Digitally signed by  
Randy Horton  
Date: 2017.03.02 10:49:28 -07:00



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College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

**CLIENT:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724  
**Work Order:** C17020566

**Report Date:** 03/02/17

## **CASE NARRATIVE**

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724  
**Lab ID:** C17020566-001  
**Client Sample ID:** 170217005-01 LFH-1

**Report Date:** 03/02/17  
**Collection Date:** 02/16/17  
**Date Received:** 02/21/17  
**Matrix:** Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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### VOCS BY AZEOTROPIC DISTILLATION

1,4-Dioxane	ND	ug/L		1.0		SW8260M	02/27/17 11:16 / eli-b
-------------	----	------	--	-----	--	---------	------------------------

- Analysis by direct aqueous injection of the sample distillate. A deuterated version of 1,4-Dioxane was added to the sample prior to distillation and used to quantitate the 1,4-Dioxane and account for any variations in the analysis or distillation.

### VOLATILE ORGANIC COMPOUNDS

Acetone	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Acetonitrile	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Acrolein	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Acrylonitrile	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Benzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromochloromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromodichloromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromoform	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Bromomethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Carbon disulfide	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Carbon tetrachloride	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chlorodibromomethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chloroform	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Chloromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
2-Chlorotoluene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
4-Chlorotoluene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2-Dibromoethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Dibromomethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2-Dichlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,3-Dichlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,4-Dichlorobenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Dichlorodifluoromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1-Dichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2-Dichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1-Dichloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
cis-1,2-Dichloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
trans-1,2-Dichloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2-Dichloropropane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,3-Dichloropropane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
2,2-Dichloropropane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1-Dichloropropene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
cis-1,3-Dichloropropene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
trans-1,3-Dichloropropene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Ethylbenzene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724  
**Lab ID:** C17020566-001  
**Client Sample ID:** 170217005-01 LFH-1

**Report Date:** 03/02/17  
**Collection Date:** 02/16/17  
**Date Received:** 02/21/17  
**Matrix:** Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Methyl tert-butyl ether (MTBE)	ND	ug/L		2.0		E624	02/24/17 19:19 / eli-b
Methyl ethyl ketone	ND	ug/L		20		E624	02/24/17 19:19 / eli-b
Methyl isobutyl ketone	ND	ug/L		10		E624	02/24/17 19:19 / eli-b
Methylene chloride	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Naphthalene	ND	ug/L		0.50		E624	02/24/17 19:19 / eli-b
Styrene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Tetrachloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Toluene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Trichloroethene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,1-Trichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,1,2-Trichloroethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Trichlorofluoromethane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
1,2,3-Trichloropropane	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Vinyl Acetate	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Vinyl chloride	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
m+p-Xylenes	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
o-Xylene	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Xylenes, Total	ND	ug/L		1.0		E624	02/24/17 19:19 / eli-b
Surr: 1,2-Dichloroethane-d4	76.0	%REC		71-139		E624	02/24/17 19:19 / eli-b
Surr: p-Bromofluorobenzene	92.0	%REC		80-127		E624	02/24/17 19:19 / eli-b
Surr: Toluene-d8	94.0	%REC		80-123		E624	02/24/17 19:19 / eli-b
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
Acenaphthene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Acenaphthylene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Anthracene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Azobenzene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzidine	ND	ug/L		10		E625	02/28/17 13:13 / eli-b
Benzo(a)anthracene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(a)pyrene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(b)fluoranthene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(g,h,i)perylene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Benzo(k)fluoranthene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
4-Bromophenyl phenyl ether	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
Butylbenzylphthalate	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
4-Chloro-3-methylphenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
bis(-2-chloroethoxy)Methane	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
bis(-2-chloroethyl)Ether	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
bis(2-chloroisopropyl)Ether	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2-Chloronaphthalene	ND	ug/L		10		E625	02/27/17 19:27 / eli-b
2-Chlorophenol	ND	ug/L		10		E625	02/27/17 19:27 / eli-b

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724  
**Lab ID:** C17020566-001  
**Client Sample ID:** 170217005-01 LFH-1

**Report Date:** 03/02/17  
**Collection Date:** 02/16/17  
**Date Received:** 02/21/17  
**Matrix:** Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
4-Chlorophenyl phenyl ether	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Chrysene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Diethyl phthalate	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Di-n-butyl phthalate	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
1,2-Dichlorobenzene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
1,3-Dichlorobenzene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
1,4-Dichlorobenzene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
3,3'-Dichlorobenzidine	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
2,4-Dichlorophenol	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Dimethyl phthalate	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Di-n-octyl phthalate	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
2,4-Dimethylphenol	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
4,6-Dinitro-2-methylphenol	ND	ug/L		50	E625		02/27/17 19:27 / eli-b
2,4-Dinitrophenol	ND	ug/L		50	E625		02/27/17 19:27 / eli-b
2,4-Dinitrotoluene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
2,6-Dinitrotoluene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
bis(2-ethylhexyl)Phthalate	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Fluoranthene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Fluorene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Hexachlorobenzene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Hexachlorobutadiene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Hexachloroethane	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Indeno(1,2,3-cd)pyrene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Isophorone	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
2-Nitrophenol	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
4-Nitrophenol	ND	ug/L		50	E625		02/27/17 19:27 / eli-b
Naphthalene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Nitrobenzene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Pentachlorophenol	ND	ug/L		50	E625		02/27/17 19:27 / eli-b
Phenanthrene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Phenol	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Pyrene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
1,2,4-Trichlorobenzene	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
2,4,6-Trichlorophenol	ND	ug/L		10	E625		02/27/17 19:27 / eli-b
Surr: 2-Fluorobiphenyl	59.0	%REC		28-107	E625		02/27/17 19:27 / eli-b
Surr: 2-Fluorophenol	34.0	%REC		20-56	E625		02/27/17 19:27 / eli-b
Surr: Nitrobenzene-d5	63.0	%REC		32-94	E625		02/27/17 19:27 / eli-b
Surr: Phenol-d5	33.0	%REC		19-45	E625		02/27/17 19:27 / eli-b

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170217005 LFH-1 CO-0121724  
**Lab ID:** C17020566-001  
**Client Sample ID:** 170217005-01 LFH-1

**Report Date:** 03/02/17  
**Collection Date:** 02/16/17  
**Date Received:** 02/21/17  
**Matrix:** Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
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### SEMI-VOLATILE ORGANIC COMPOUNDS

Surr: Terphenyl-d14	69.0	%REC		32-122	E625		02/27/17 19:27 / eli-b
Surr: 2,4,6-Tribromophenol	60.0	%REC		21-130	E625		02/27/17 19:27 / eli-b

• The sample was received past the extraction prep hold time. The prep hold time was exceeded by 4.31 days.

**Report**  
**Definitions:** RL - Analyte reporting limit.  
QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624		Analytical Run: R275391							
Lab ID: ccv022417	Continuing Calibration Verification Standard							02/24/17 09:51	
Acetone	40.8	ug/L	20	82	70	130			
Acetonitrile	60.0	ug/L	20	120	70	130			
Acrolein	59.2	ug/L	20	118	70	130			
Acrylonitrile	46.4	ug/L	20	93	70	130			
Benzene	4.80	ug/L	0.50	96	70	130			
Bromobenzene	4.56	ug/L	0.50	91	70	130			
Bromochloromethane	4.64	ug/L	0.50	93	70	130			
Bromodichloromethane	4.08	ug/L	0.50	82	70	130			
Bromoform	4.08	ug/L	0.50	82	70	130			
Bromomethane	5.56	ug/L	0.50	111	70	130			
Carbon disulfide	4.80	ug/L	0.50	96	70	130			
Carbon tetrachloride	3.70	ug/L	0.50	74	70	130			
Chlorobenzene	4.80	ug/L	0.50	96	70	130			
Chlorodibromomethane	4.32	ug/L	0.50	86	70	130			
Chloroethane	4.88	ug/L	0.50	98	70	130			
2-Chloroethyl vinyl ether	3.07	ug/L	1.0	61	70	130			S
Chloroform	4.36	ug/L	0.50	87	70	130			
Chloromethane	4.60	ug/L	0.50	92	70	130			
2-Chlorotoluene	4.84	ug/L	0.50	97	70	130			
4-Chlorotoluene	4.80	ug/L	0.50	96	70	130			
1,2-Dibromoethane	4.40	ug/L	0.50	88	70	130			
Dibromomethane	4.60	ug/L	0.50	92	70	130			
1,2-Dichlorobenzene	4.72	ug/L	0.50	94	70	130			
1,3-Dichlorobenzene	4.84	ug/L	0.50	97	70	130			
1,4-Dichlorobenzene	4.76	ug/L	0.50	95	70	130			
Dichlorodifluoromethane	3.87	ug/L	0.50	77	70	130			
1,1-Dichloroethane	4.40	ug/L	0.50	88	70	130			
1,2-Dichloroethane	3.78	ug/L	0.50	76	70	130			
1,1-Dichloroethene	4.20	ug/L	0.50	84	70	130			
cis-1,2-Dichloroethene	4.72	ug/L	0.50	94	70	130			
trans-1,2-Dichloroethene	4.64	ug/L	0.50	93	70	130			
1,2-Dichloropropane	5.20	ug/L	0.50	104	70	130			
1,3-Dichloropropane	4.64	ug/L	0.50	93	70	130			
2,2-Dichloropropane	3.92	ug/L	0.50	78	70	130			
1,1-Dichloropropene	4.40	ug/L	0.50	88	70	130			
cis-1,3-Dichloropropene	4.56	ug/L	0.50	91	70	130			
trans-1,3-Dichloropropene	4.04	ug/L	0.50	81	70	130			
Ethylbenzene	4.84	ug/L	0.50	97	70	130			
Methyl tert-butyl ether (MTBE)	3.68	ug/L	0.50	74	70	130			
Methyl ethyl ketone	42.8	ug/L	20	86	70	130			
Methyl isobutyl ketone	45.6	ug/L	20	91	70	130			
Methylene chloride	5.44	ug/L	0.50	109	70	130			
Naphthalene	4.88	ug/L	0.50	98	70	130			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Analytical Run: R275391		
Lab ID: ccv022417	Continuing Calibration Verification Standard						02/24/17 09:51		
Styrene	4.76	ug/L	0.50	95	70	130			
Tetrachloroethene	4.60	ug/L	0.50	92	70	130			
1,1,1,2-Tetrachloroethane	4.24	ug/L	0.50	85	70	130			
1,1,2,2-Tetrachloroethane	4.96	ug/L	0.50	99	70	130			
Toluene	4.96	ug/L	0.50	99	70	130			
Trichloroethene	4.80	ug/L	0.50	96	70	130			
1,1,1-Trichloroethane	3.75	ug/L	0.50	75	70	130			
1,1,2-Trichloroethane	4.76	ug/L	0.50	95	70	130			
Trichlorofluoromethane	3.34	ug/L	0.50	67	70	130			S
1,2,3-Trichloropropane	4.20	ug/L	0.50	84	70	130			
Vinyl Acetate	4.56	ug/L	1.0	91	70	130			
Vinyl chloride	4.84	ug/L	0.50	97	70	130			
m+p-Xylenes	9.76	ug/L	0.50	98	70	130			
o-Xylene	4.76	ug/L	0.50	95	70	130			
Xylenes, Total	14.5	ug/L	0.50	97	70	130			
Surr: 1,2-Dichloroethane-d4			0.50	74	71	139			
Surr: p-Bromofluorobenzene			0.50	88	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Method: E624							Batch: R275391		
Lab ID: lcs022417	Laboratory Control Sample						Run: 5971A.I_170224A		
Acetone	41.6	ug/L	20	83	55	144			02/24/17 10:31
Acetonitrile	60.4	ug/L	20	121	54	142			
Acrolein	49.6	ug/L	20	99	16	233			
Acrylonitrile	46.0	ug/L	20	92	76	127			
Benzene	4.96	ug/L	0.50	99	73	122			
Bromobenzene	4.76	ug/L	0.50	95	74	129			
Bromochloromethane	4.64	ug/L	0.50	93	66	120			
Bromodichloromethane	4.44	ug/L	0.50	89	74	128			
Bromoform	4.36	ug/L	0.50	87	66	128			
Bromomethane	5.76	ug/L	0.50	115	51	123			
Carbon disulfide	4.92	ug/L	0.50	98	46	145			
Carbon tetrachloride	3.80	ug/L	0.50	76	75	125			
Chlorobenzene	4.92	ug/L	0.50	98	80	123			
Chlorodibromomethane	4.64	ug/L	0.50	93	74	125			
Chloroethane	5.04	ug/L	0.50	101	59	142			
2-Chloroethyl vinyl ether	2.74	ug/L	1.0	55	36	144			
Chloroform	4.40	ug/L	0.50	88	68	124			
Chloromethane	4.64	ug/L	0.50	93	53	146			
2-Chlorotoluene	5.04	ug/L	0.50	101	75	131			
4-Chlorotoluene	4.68	ug/L	0.50	94	74	129			
1,2-Dibromoethane	4.40	ug/L	0.50	88	76	124			
Dibromomethane	4.76	ug/L	0.50	95	77	125			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Batch: R275391		
Lab ID: lcs022417	Laboratory Control Sample					Run: 5971A.L_170224A	02/24/17 10:31		
1,2-Dichlorobenzene	4.80	ug/L	0.50	96	74	124			
1,3-Dichlorobenzene	5.00	ug/L	0.50	100	77	122			
1,4-Dichlorobenzene	4.80	ug/L	0.50	96	76	126			
Dichlorodifluoromethane	4.36	ug/L	0.50	87	56	146			
1,1-Dichloroethane	4.56	ug/L	0.50	81	74	133			
1,2-Dichloroethane	3.76	ug/L	0.50	75	75	129			
1,1-Dichloroethene	4.28	ug/L	0.50	86	74	132			
cis-1,2-Dichloroethene	4.76	ug/L	0.50	95	81	122			
trans-1,2-Dichloroethene	5.08	ug/L	0.50	102	79	143			
1,2-Dichloropropane	5.20	ug/L	0.50	104	75	126			
1,3-Dichloropropane	4.32	ug/L	0.50	86	71	136			
2,2-Dichloropropane	4.00	ug/L	0.50	80	68	142			
1,1-Dichloropropene	4.16	ug/L	0.50	83	70	131			
cis-1,3-Dichloropropene	4.12	ug/L	0.50	82	74	135			
trans-1,3-Dichloropropene	3.96	ug/L	0.50	79	76	149			
Ethylbenzene	4.92	ug/L	0.50	98	72	130			
Methyl tert-butyl ether (MTBE)	3.71	ug/L	0.50	74	72	120			
Methyl ethyl ketone	45.2	ug/L	20	90	45	130			
Methyl isobutyl ketone	49.2	ug/L	20	98	58	135			
Methylene chloride	5.64	ug/L	0.50	113	66	142			
Naphthalene	5.44	ug/L	0.50	109	69	124			
Styrene	4.84	ug/L	0.50	97	80	124			
Tetrachloroethene	4.68	ug/L	0.50	94	72	131			
1,1,1,2-Tetrachloroethane	4.16	ug/L	0.50	83	78	124			
1,1,2,2-Tetrachloroethane	4.72	ug/L	0.50	94	68	137			
Toluene	5.16	ug/L	0.50	103	72	135			
Trichloroethene	4.80	ug/L	0.50	96	85	126			
1,1,1-Trichloroethane	3.73	ug/L	0.50	75	63	120			
1,1,2-Trichloroethane	4.68	ug/L	0.50	94	78	124			
Trichlorofluoromethane	3.30	ug/L	0.50	66	72	120			S
1,2,3-Trichloropropane	4.04	ug/L	0.50	81	64	138			
Vinyl Acetate	4.08	ug/L	1.0	82	31	124			
Vinyl chloride	5.12	ug/L	0.50	102	58	140			
m+p-Xylenes	9.84	ug/L	0.50	98	67	139			
o-Xylene	4.84	ug/L	0.50	97	74	135			
Xylenes, Total	14.7	ug/L	0.50	98	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	72	71	139			
Surr: p-Bromofluorobenzene			0.50	87	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Lab ID: blk022417	Method Blank					Run: 5971A.L_170224A	02/24/17 11:30		
Acetone	ND	ug/L	20						
Acetonitrile	ND	ug/L	20						

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R275391
Lab ID: blk022417	Method Blank					Run: 5971A.L_170224A			02/24/17 11:30
Acrolein	ND	ug/L	20						
Acrylonitrile	ND	ug/L	3.0						
Benzene	ND	ug/L	0.50						
Bromobenzene	ND	ug/L	0.50						
Bromochloromethane	ND	ug/L	0.50						
Bromodichloromethane	ND	ug/L	0.50						
Bromoform	ND	ug/L	0.50						
Bromomethane	ND	ug/L	0.50						
Carbon disulfide	ND	ug/L	0.50						
Carbon tetrachloride	ND	ug/L	0.50						
Chlorobenzene	ND	ug/L	0.50						
Chlorodibromomethane	ND	ug/L	0.50						
Chloroethane	ND	ug/L	0.50						
2-Chloroethyl vinyl ether	ND	ug/L	1.0						
Chloroform	ND	ug/L	0.50						
Chloromethane	ND	ug/L	0.50						
2-Chlorotoluene	ND	ug/L	0.50						
4-Chlorotoluene	ND	ug/L	0.50						
1,2-Dibromoethane	ND	ug/L	0.50						
Dibromomethane	ND	ug/L	0.50						
1,2-Dichlorobenzene	ND	ug/L	0.50						
1,3-Dichlorobenzene	ND	ug/L	0.50						
1,4-Dichlorobenzene	ND	ug/L	0.50						
Dichlorodifluoromethane	ND	ug/L	0.50						
1,1-Dichloroethane	ND	ug/L	0.50						
1,2-Dichloroethane	ND	ug/L	0.50						
1,1-Dichloroethene	ND	ug/L	0.50						
cis-1,2-Dichloroethene	ND	ug/L	0.50						
trans-1,2-Dichloroethene	ND	ug/L	0.50						
1,2-Dichloropropane	ND	ug/L	0.50						
1,3-Dichloropropane	ND	ug/L	0.50						
2,2-Dichloropropane	ND	ug/L	0.50						
1,1-Dichloropropene	ND	ug/L	0.50						
cis-1,3-Dichloropropene	ND	ug/L	0.30						
trans-1,3-Dichloropropene	ND	ug/L	0.30						
Ethylbenzene	ND	ug/L	0.50						
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50						
Methyl ethyl ketone	ND	ug/L	20						
Methyl isobutyl ketone	ND	ug/L	20						
Methylene chloride	ND	ug/L	0.50						
Naphthalene	ND	ug/L	0.50						
Styrene	ND	ug/L	0.50						
Tetrachloroethene	ND	ug/L	0.50						

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E624</b>									Batch: R275391
Lab ID: blk022417	Method Blank					Run: 5971A.I_170224A			02/24/17 11:30
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
Trichloroethene	ND	ug/L	0.50						
1,1,1-Trichloroethane	ND	ug/L	0.50						
1,1,2-Trichloroethane	ND	ug/L	0.50						
Trichlorofluoromethane	ND	ug/L	0.50						
1,2,3-Trichloropropane	ND	ug/L	0.50						
Vinyl Acetate	ND	ug/L	1.0						
Vinyl chloride	ND	ug/L	0.40						
m+p-Xylenes	ND	ug/L	0.50						
o-Xylene	ND	ug/L	0.50						
Xylenes, Total	ND	ug/L	0.50						
Surr: 1,2-Dichloroethane-d4			0.50	74	71	139			
Surr: p-Bromofluorobenzene			0.50	90	80	127			
Surr: Toluene-d8			0.50	94	80	123			
Lab ID: b17021110-001bms	Sample Matrix Spike					Run: 5971A.I_170224A			02/24/17 20:47
Acrolein	ND	ug/L	20	0	16	233			S 1
Acrylonitrile	48.8	ug/L	20	98	76	127			
2-Chloroethyl vinyl ether	3.44	ug/L	1.0	69	36	144			
Surr: 1,2-Dichloroethane-d4			0.50	80	71	139			
Surr: p-Bromofluorobenzene			0.50	95	80	127			
Surr: Toluene-d8			0.50	100	80	123			
- 1 = This is a known very reactive compound. The recovery of this compound was normal in the Laboratory Control Sample (LCS). The compound appears to have reacted with the sample matrix.									
Lab ID: b17021110-001bmsd	Sample Matrix Spike Duplicate					Run: 5971A.I_170224A			02/24/17 21:16
Acrolein	ND	ug/L	20	0	16	233			20 S 1
Acrylonitrile	48.8	ug/L	20	98	76	127	0.0	20	
2-Chloroethyl vinyl ether	3.66	ug/L	1.0	73	36	144	6.1	20	
Surr: 1,2-Dichloroethane-d4			0.50	81	71	139			
Surr: p-Bromofluorobenzene			0.50	96	80	127			
Surr: Toluene-d8			0.50	99	80	123			
- 1 = This is a known very reactive compound. The recovery of this compound was normal in the Laboratory Control Sample (LCS). The compound appears to have reacted with the sample matrix.									
Lab ID: b17021110-001bms	Sample Matrix Spike					Run: 5971A.I_170224A			02/24/17 18:21
Acetone	40.4	ug/L	20	81	55	144			
Acetonitrile	66.0	ug/L	20	132	54	142			
Benzene	4.60	ug/L	0.50	92	73	122			
Bromobenzene	4.60	ug/L	0.50	92	74	129			
Bromochloromethane	4.56	ug/L	0.50	91	66	120			
Bromodichloromethane	4.36	ug/L	0.50	87	74	128			
Bromoform	4.40	ug/L	0.50	88	66	128			
Bromomethane	5.88	ug/L	0.50	118	51	123			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624		Batch: R275391							
Lab ID: b17021110-001bms	Sample Matrix Spike		Run: 5971A.I_170224A		02/24/17 18:21				
Carbon disulfide	5.12	ug/L	0.50	102	46	145			
Carbon tetrachloride	3.59	ug/L	0.50	72	75	125			S
Chlorobenzene	4.52	ug/L	0.50	90	80	123			
Chlorodibromomethane	4.52	ug/L	0.50	90	74	125			
Chloroethane	5.40	ug/L	0.50	108	59	142			
Chloroform	4.68	ug/L	0.50	82	68	124			
Chloromethane	4.64	ug/L	0.50	93	53	146			
2-Chlorotoluene	4.88	ug/L	0.50	98	75	131			
4-Chlorotoluene	4.68	ug/L	0.50	94	74	129			
1,2-Dibromoethane	4.16	ug/L	0.50	83	76	124			
Dibromomethane	4.64	ug/L	0.50	93	77	125			
1,2-Dichlorobenzene	4.64	ug/L	0.50	93	74	124			
1,3-Dichlorobenzene	4.88	ug/L	0.50	98	77	122			
1,4-Dichlorobenzene	4.76	ug/L	0.50	91	76	126			
Dichlorodifluoromethane	4.32	ug/L	0.50	86	56	146			
1,1-Dichloroethane	4.24	ug/L	0.50	85	74	133			
1,2-Dichloroethane	3.48	ug/L	0.50	70	75	129			S
1,1-Dichloroethene	4.12	ug/L	0.50	82	74	132			
cis-1,2-Dichloroethene	4.48	ug/L	0.50	90	81	122			
trans-1,2-Dichloroethene	4.64	ug/L	0.50	93	79	143			
1,2-Dichloropropane	4.92	ug/L	0.50	98	75	126			
1,3-Dichloropropane	4.24	ug/L	0.50	85	71	136			
2,2-Dichloropropane	3.80	ug/L	0.50	72	68	142			
1,1-Dichloropropene	4.04	ug/L	0.50	81	70	131			
cis-1,3-Dichloropropene	4.08	ug/L	0.50	82	74	135			
trans-1,3-Dichloropropene	3.97	ug/L	0.50	79	76	149			
Ethylbenzene	4.64	ug/L	0.50	93	72	130			
Methyl tert-butyl ether (MTBE)	3.83	ug/L	0.50	73	72	120			
Methyl ethyl ketone	44.4	ug/L	20	89	45	130			
Methyl isobutyl ketone	51.2	ug/L	20	102	58	135			
Methylene chloride	5.44	ug/L	0.50	109	66	142			
Naphthalene	4.84	ug/L	0.50	97	69	124			
Styrene	4.56	ug/L	0.50	91	80	124			
Tetrachloroethene	4.44	ug/L	0.50	89	72	131			
1,1,1,2-Tetrachloroethane	3.95	ug/L	0.50	79	78	124			
1,1,2,2-Tetrachloroethane	4.88	ug/L	0.50	98	68	137			
Toluene	4.88	ug/L	0.50	98	72	135			
Trichloroethene	4.56	ug/L	0.50	91	85	126			
1,1,1-Trichloroethane	3.51	ug/L	0.50	70	63	120			
1,1,2-Trichloroethane	4.52	ug/L	0.50	90	78	124			
Trichlorofluoromethane	3.29	ug/L	0.50	66	72	120			S
1,2,3-Trichloropropane	3.90	ug/L	0.50	78	64	138			
Vinyl Acetate	4.00	ug/L	1.0	80	31	124			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E624</b>									Batch: R275391
Lab ID: b17021110-001bms	Sample Matrix Spike		Run: 5971A.I_170224A			02/24/17 18:21			
Vinyl chloride	5.12	ug/L	0.50	102	58	140			
m+p-Xylenes	9.32	ug/L	0.50	93	67	139			
o-Xylene	4.44	ug/L	0.50	89	74	135			
Xylenes, Total	13.8	ug/L	0.50	92	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	80	71	139			
Surr: p-Bromofluorobenzene			0.50	94	80	127			
Surr: Toluene-d8			0.50	101	80	123			
Lab ID: b17021110-001bmsd	Sample Matrix Spike Duplicate		Run: 5971A.I_170224A			02/24/17 18:50			
Acetone	44.0	ug/L	20	88	55	144	8.5	20	
Acetonitrile	65.6	ug/L	20	131	54	142	0.6	20	
Benzene	5.04	ug/L	0.50	101	73	122	9.1	20	
Bromobenzene	4.96	ug/L	0.50	99	74	129	7.5	20	
Bromochloromethane	4.80	ug/L	0.50	96	66	120	5.1	20	
Bromodichloromethane	4.60	ug/L	0.50	92	74	128	5.4	20	
Bromoform	4.80	ug/L	0.50	96	66	128	8.7	20	
Bromomethane	6.00	ug/L	0.50	120	51	123	2.0	20	
Carbon disulfide	5.20	ug/L	0.50	104	46	145	1.6	20	
Carbon tetrachloride	3.97	ug/L	0.50	79	75	125	10	20	
Chlorobenzene	4.88	ug/L	0.50	98	80	123	7.7	20	
Chlorodibromomethane	4.76	ug/L	0.50	95	74	125	5.2	20	
Chloroethane	5.32	ug/L	0.50	106	59	142	1.5	20	
Chloroform	4.96	ug/L	0.50	87	68	124	5.8	20	
Chloromethane	4.88	ug/L	0.50	98	53	146	5.0	20	
2-Chlorotoluene	5.20	ug/L	0.50	104	75	131	6.3	20	
4-Chlorotoluene	5.04	ug/L	0.50	101	74	129	7.4	20	
1,2-Dibromoethane	4.52	ug/L	0.50	90	76	124	8.3	20	
Dibromomethane	4.88	ug/L	0.50	98	77	125	5.0	20	
1,2-Dichlorobenzene	5.04	ug/L	0.50	101	74	124	8.3	20	
1,3-Dichlorobenzene	5.20	ug/L	0.50	104	77	122	6.3	20	
1,4-Dichlorobenzene	5.12	ug/L	0.50	98	76	126	7.3	20	
Dichlorodifluoromethane	4.36	ug/L	0.50	87	56	146	0.9	20	
1,1-Dichloroethane	4.68	ug/L	0.50	94	74	133	9.9	20	
1,2-Dichloroethane	3.76	ug/L	0.50	75	75	129	7.8	20	
1,1-Dichloroethene	4.44	ug/L	0.50	89	74	132	7.5	20	
cis-1,2-Dichloroethene	4.88	ug/L	0.50	98	81	122	8.5	20	
trans-1,2-Dichloroethene	5.12	ug/L	0.50	102	79	143	9.8	20	
1,2-Dichloropropane	5.24	ug/L	0.50	105	75	126	6.3	20	
1,3-Dichloropropane	4.64	ug/L	0.50	93	71	136	9.0	20	
2,2-Dichloropropane	3.96	ug/L	0.50	79	68	142	9.6	20	
1,1-Dichloropropene	4.44	ug/L	0.50	89	70	131	9.4	20	
cis-1,3-Dichloropropene	4.40	ug/L	0.50	88	74	135	7.5	20	
trans-1,3-Dichloropropene	4.24	ug/L	0.50	85	76	149	6.6	20	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc

**Report Date:** 03/02/17

**Project:** 170217005 LFH-1 CO-0121724

**Work Order:** C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E624</b>							Batch: R275391		
<b>Lab ID:</b> b17021110-001bmsd	<b>Sample Matrix Spike Duplicate</b>				<b>Run: 5971A.L_170224A</b>			<b>02/24/17 18:50</b>	
Ethylbenzene	5.00	ug/L	0.50	100	72	130	7.5	20	
Methyl tert-butyl ether (MTBE)	3.83	ug/L	0.50	77	72	120	5.5	20	
Methyl ethyl ketone	46.0	ug/L	20	92	45	130	3.5	20	
Methyl isobutyl ketone	51.2	ug/L	20	102	58	135	0.0	20	
Methylene chloride	5.72	ug/L	0.50	114	66	142	5.0	20	
Naphthalene	5.56	ug/L	0.50	111	69	124	14	20	
Styrene	4.84	ug/L	0.50	97	80	124	6.0	20	
Tetrachloroethene	4.72	ug/L	0.50	94	72	131	6.1	20	
1,1,1,2-Tetrachloroethane	4.20	ug/L	0.50	84	78	124	6.1	20	
1,1,2,2-Tetrachloroethane	5.20	ug/L	0.50	104	68	137	6.3	20	
Toluene	5.12	ug/L	0.50	102	72	135	4.8	20	
Trichloroethene	4.80	ug/L	0.50	96	85	126	5.1	20	
1,1,1-Trichloroethane	3.94	ug/L	0.50	79	63	120	12	20	
1,1,2-Trichloroethane	4.76	ug/L	0.50	95	78	124	5.2	20	
Trichlorofluoromethane	3.36	ug/L	0.50	67	72	120	2.3	20	S
1,2,3-Trichloropropane	4.20	ug/L	0.50	84	64	138	7.4	20	
Vinyl Acetate	4.20	ug/L	1.0	84	31	124	4.9	20	
Vinyl chloride	5.08	ug/L	0.50	102	58	140	0.8	20	
m+p-Xylenes	9.92	ug/L	0.50	99	67	139	6.2	20	
o-Xylene	4.80	ug/L	0.50	96	74	135	7.8	20	
Xylenes, Total	14.7	ug/L	0.50	98	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	81	71	139			
Surr: p-Bromofluorobenzene			0.50	94	80	127			
Surr: Toluene-d8			0.50	100	80	123			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625									Batch: 107004
Lab ID: MB-107004	Method Blank					Run: SV5973N2.I_170227B			02/27/17 18:24
Acenaphthene	ND	ug/L	10						
Acenaphthylene	ND	ug/L	10						
Anthracene	ND	ug/L	10						
Azobenzene	ND	ug/L	10						
Benzo(a)anthracene	ND	ug/L	10						
Benzo(a)pyrene	ND	ug/L	10						
Benzo(b)fluoranthene	ND	ug/L	10						
Benzo(g,h,i)perylene	ND	ug/L	10						
Benzo(k)fluoranthene	ND	ug/L	10						
4-Bromophenyl phenyl ether	ND	ug/L	10						
Butylbenzylphthalate	ND	ug/L	10						
4-Chloro-3-methylphenol	ND	ug/L	10						
bis(-2-chloroethoxy)Methane	ND	ug/L	10						
bis(-2-chloroethyl)Ether	ND	ug/L	10						
bis(2-chloroisopropyl)Ether	ND	ug/L	10						
2-Chloronaphthalene	ND	ug/L	10						
2-Chlorophenol	ND	ug/L	10						
4-Chlorophenyl phenyl ether	ND	ug/L	10						
Chrysene	ND	ug/L	10						
Diethyl phthalate	ND	ug/L	10						
Di-n-butyl phthalate	ND	ug/L	10						
1,2-Dichlorobenzene	ND	ug/L	10						
1,3-Dichlorobenzene	ND	ug/L	10						
1,4-Dichlorobenzene	ND	ug/L	10						
3,3'-Dichlorobenzidine	ND	ug/L	10						
2,4-Dichlorophenol	ND	ug/L	10						
Dimethyl phthalate	ND	ug/L	10						
Di-n-octyl phthalate	ND	ug/L	10						
Dibenzo(a,h)anthracene	ND	ug/L	10						
2,4-Dimethylphenol	ND	ug/L	10						
4,6-Dinitro-2-methylphenol	ND	ug/L	50						
2,4-Dinitrophenol	ND	ug/L	50						
2,4-Dinitrotoluene	ND	ug/L	10						
2,6-Dinitrotoluene	ND	ug/L	10						
bis(2-ethylhexyl)Phthalate	ND	ug/L	10						
Fluoranthene	ND	ug/L	10						
Fluorene	ND	ug/L	10						
Hexachlorobenzene	ND	ug/L	10						
Hexachlorobutadiene	ND	ug/L	10						
Hexachlorocyclopentadiene	ND	ug/L	10						
Hexachloroethane	ND	ug/L	10						
Indeno(1,2,3-cd)pyrene	ND	ug/L	10						
Isophorone	ND	ug/L	10						

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>									Batch: 107004
<b>Lab ID: MB-107004</b>	<b>Method Blank</b>								Run: SV5973N2.I_170227B 02/27/17 18:24
n-Nitrosodimethylamine	ND	ug/L	10						
n-Nitroso-di-n-propylamine	ND	ug/L	10						
n-Nitrosodiphenylamine	ND	ug/L	10						
2-Nitrophenol	ND	ug/L	10						
4-Nitrophenol	ND	ug/L	50						
Naphthalene	ND	ug/L	10						
Nitrobenzene	ND	ug/L	10						
Pentachlorophenol	ND	ug/L	50						
Phenanthrene	ND	ug/L	10						
Phenol	ND	ug/L	10						
Pyrene	ND	ug/L	10						
1,2,4-Trichlorobenzene	ND	ug/L	10						
2,4,6-Trichlorophenol	ND	ug/L	10						
Surr: 2-Fluorobiphenyl			10	55	28	107			
Surr: 2-Fluorophenol			10	36	20	56			
Surr: Nitrobenzene-d5			10	58	32	94			
Surr: Phenol-d5			10	35	19	45			
Surr: Terphenyl-d14			10	77	32	122			
Surr: 2,4,6-Tribromophenol			10	58	21	130			
<b>Lab ID: LCS-107004</b>									Run: SV5973N2.I_170227B 02/27/17 18:55
	<b>Laboratory Control Sample</b>								
Acenaphthene	81.2	ug/L	10	81	58	99			
Acenaphthylene	76.5	ug/L	10	77	57	96			
Anthracene	79.5	ug/L	10	80	60	107			
Azobenzene	79.3	ug/L	10	79	56	100			
Benzo(a)anthracene	84.1	ug/L	10	84	62	114			
Benzo(a)pyrene	80.1	ug/L	10	80	62	108			
Benzo(b)fluoranthene	88.6	ug/L	10	89	48	127			
Benzo(g,h,i)perylene	81.6	ug/L	10	82	62	121			
Benzo(k)fluoranthene	79.2	ug/L	10	79	55	111			
4-Bromophenyl phenyl ether	83.0	ug/L	10	83	58	105			
Butylbenzylphthalate	91.6	ug/L	10	92	60	113			
4-Chloro-3-methylphenol	65.7	ug/L	10	66	53	92			
bis(-2-chloroethoxy)Methane	73.9	ug/L	10	74	50	92			
bis(-2-chloroethyl)Ether	63.4	ug/L	10	63	44	82			
bis(2-chloroisopropyl)Ether	61.2	ug/L	10	61	56	87			
2-Chloronaphthalene	74.9	ug/L	10	75	56	95			
2-Chlorophenol	60.1	ug/L	10	60	47	76			
4-Chlorophenyl phenyl ether	75.8	ug/L	10	76	58	99			
Chrysene	81.9	ug/L	10	82	63	106			
Diethyl phthalate	78.6	ug/L	10	79	58	103			
Di-n-butyl phthalate	87.6	ug/L	10	88	61	110			
1,2-Dichlorobenzene	61.5	ug/L	10	62	43	81			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batch: 107004		
Lab ID: LCS-107004	Laboratory Control Sample					Run: SV5973N2.I_170227B	02/27/17 18:55		
1,3-Dichlorobenzene	60.2	ug/L	10	60	41	79			
1,4-Dichlorobenzene	61.4	ug/L	10	61	42	79			
3,3'-Dichlorobenzidine	66.6	ug/L	10	69	51	93			
2,4-Dichlorophenol	64.7	ug/L	10	65	49	90			
Dimethyl phthalate	76.4	ug/L	10	76	58	104			
Di-n-octyl phthalate	88.3	ug/L	10	88	56	110			
Dibenzo(a,h)anthracene	80.4	ug/L	10	80	61	111			
2,4-Dimethylphenol	61.8	ug/L	10	62	45	89			
4,6-Dinitro-2-methylphenol	48.2	ug/L	50	48	37	105			
2,4-Dinitrophenol	39.7	ug/L	50	40	27	81			
2,4-Dinitrotoluene	87.7	ug/L	10	88	63	110			
2,6-Dinitrotoluene	75.5	ug/L	10	76	60	107			
bis(2-ethylhexyl)Phthalate	88.6	ug/L	10	89	56	108			
Fluoranthene	63.8	ug/L	10	84	63	110			
Fluorene	77.4	ug/L	10	77	60	99			
Hexachlorobenzene	78.2	ug/L	10	78	57	103			
Hexachlorobutadiene	67.5	ug/L	10	67	39	83			
Hexachlorocyclopentadiene	68.4	ug/L	10	68	39	91			
Hexachloroethane	59.6	ug/L	10	60	37	75			
Indeno(1,2,3-cd)pyrene	82.0	ug/L	10	82	59	109			
Isophorone	67.1	ug/L	10	67	42	102			
n-Nitrosodimethylamine	36.9	ug/L	10	37	20	45			
n-Nitroso-di-n-propylamine	71.5	ug/L	10	71	49	98			
n-Nitrosodiphenylamine	90.0	ug/L	10	90	61	108			
2-Nitrophenol	68.0	ug/L	10	68	51	96			
4-Nitrophenol	18.3	ug/L	50	18	15	36			
Naphthalene	71.6	ug/L	10	72	48	96			
Nitrobenzene	65.0	ug/L	10	65	51	91			
Pentachlorophenol	70.6	ug/L	50	71	53	109			
Phenanthrene	80.5	ug/L	10	81	58	104			
Phenol	35.4	ug/L	10	35	27	45			
Pyrene	89.3	ug/L	10	89	64	108			
1,2,4-Trichlorobenzene	67.3	ug/L	10	67	49	85			
2,4,6-Trichlorophenol	64.9	ug/L	10	65	47	99			
Surr: 2-Fluorobiphenyl			10	63	28	107			
Surr: 2-Fluorophenol			10	35	20	56			
Surr: Nitrobenzene-d5			10	68	32	94			
Surr: Phenol-d5			10	42	19	45			
Surr: Terphenyl-d14			10	87	32	122			
Surr: 2,4,6-Tribromophenol			10	70	21	130			
Lab ID: B17021688-001CMS	Sample Matrix Spike					Run: SV5973N2.I_170227B	02/27/17 20:29		
Acenaphthene	86.4	ug/L	10	86	58	99			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625									Batch: 107004
Lab ID: B17021688-001CMS	Sample Matrix Spike		Run: SV5973N2.I_170227B				02/27/17 20:29		
Acenaphthylene	83.0	ug/L	10	83	57	96			
Anthracene	86.4	ug/L	10	86	60	107			
Azobenzene	84.3	ug/L	10	84	56	100			
Benzo(a)anthracene	90.3	ug/L	10	90	62	114			
Benzo(a)pyrene	80.9	ug/L	10	81	62	108			
Benzo(b)fluoranthene	80.4	ug/L	10	80	48	127			
Benzo(g,h,i)perylene	80.5	ug/L	10	81	62	121			
Benzo(k)fluoranthene	83.5	ug/L	10	83	55	111			
4-Bromophenyl phenyl ether	80.4	ug/L	10	80	58	105			
Butylbenzylphthalate	99.7	ug/L	10	100	60	113			
4-Chloro-3-methylphenol	77.0	ug/L	10	77	53	92			
bis(-2-chloroethoxy)Methane	77.3	ug/L	10	77	50	92			
bis(-2-chloroethyl)Ether	66.7	ug/L	10	67	44	82			
bis(2-chloroisopropyl)Ether	66.6	ug/L	10	67	56	87			
2-Chloronaphthalene	79.8	ug/L	10	80	56	95			
2-Chlorophenol	64.1	ug/L	10	64	47	76			
4-Chlorophenyl phenyl ether	84.5	ug/L	10	85	58	99			
Chrysene	85.9	ug/L	10	86	63	106			
Diethyl phthalate	85.4	ug/L	10	85	58	103			
Di-n-butyl phthalate	96.0	ug/L	10	96	61	110			
1,2-Dichlorobenzene	66.1	ug/L	10	66	43	81			
1,3-Dichlorobenzene	61.9	ug/L	10	62	41	79			
1,4-Dichlorobenzene	61.8	ug/L	10	62	42	79			
3,3'-Dichlorobenzidine	69.1	ug/L	10	69	51	93			
2,4-Dichlorophenol	68.4	ug/L	10	68	49	90			
Dimethyl phthalate	81.4	ug/L	10	81	58	104			
Di-n-octyl phthalate	90.6	ug/L	10	91	56	110			
Dibenzo(a,h)anthracene	80.0	ug/L	10	80	61	111			
2,4-Dimethylphenol	69.2	ug/L	10	69	45	87			
4,6-Dinitro-2-methylphenol	58.9	ug/L	50	59	37	105			
2,4-Dinitrophenol	54.8	ug/L	50	55	27	81			
2,4-Dinitrotoluene	82.5	ug/L	10	83	63	110			
2,6-Dinitrotoluene	80.8	ug/L	10	81	60	107			
bis(2-ethylhexyl)Phthalate	92.0	ug/L	10	92	56	108			
Fluoranthene	88.0	ug/L	10	88	63	110			
Fluorene	80.1	ug/L	10	80	60	99			
Hexachlorobenzene	82.5	ug/L	10	83	57	103			
Hexachlorobutadiene	69.0	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	68.1	ug/L	10	68	39	91			
Hexachloroethane	65.6	ug/L	10	66	37	75			
Indeno(1,2,3-cd)pyrene	82.3	ug/L	10	82	59	109			
Isophorone	71.3	ug/L	10	71	42	102			
n-Nitrosodimethylamine	41.5	ug/L	10	41	20	45			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625									Batch: 107004
Lab ID: B17021688-001CMS	Sample Matrix Spike		Run: SV5973N2.L_170227B				02/27/17 20:29		
n-Nitroso-di-n-propylamine	76.9	ug/L	10	77	49	98			
n-Nitrosodiphenylamine	93.7	ug/L	10	94	61	108			
2-Nitrophenol	69.9	ug/L	10	70	51	96			
4-Nitrophenol	24.6	ug/L	50	25	15	36			
Naphthalene	76.0	ug/L	10	76	48	96			
Nitrobenzene	72.5	ug/L	10	73	51	91			
Pentachlorophenol	89.2	ug/L	50	89	53	109			
Phenanthrene	85.1	ug/L	10	85	58	104			
Phenol	36.7	ug/L	10	37	27	45			
Pyrene	88.8	ug/L	10	90	64	108			
1,2,4-Trichlorobenzene	70.9	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	67.7	ug/L	10	68	47	99			
Surr: 2-Fluorobiphenyl			10	62	28	107			
Surr: 2-Fluorophenol			10	39	20	56			
Surr: Nitrobenzene-d5			10	72	32	94			
Surr: Phenol-d5			10	35	19	45			
Surr: Terphenyl-d14			10	87	32	122			
Surr: 2,4,6-Tribromophenol			10	75	21	130			
Lab ID: B17021688-003CMS	Sample Matrix Spike		Run: SV5973N2.L_170227B				02/27/17 21:31		
Acenaphthene	89.8	ug/L	10	90	58	99			
Acenaphthylene	82.2	ug/L	10	82	57	96			
Anthracene	73.2	ug/L	10	73	60	107			
Azobenzene	80.2	ug/L	10	80	56	100			
Benzo(a)anthracene	85.1	ug/L	10	85	62	114			
Benzo(a)pyrene	77.0	ug/L	10	77	62	108			
Benzo(b)fluoranthene	73.3	ug/L	10	73	48	127			
Benzo(g,h,i)perylene	78.5	ug/L	10	79	62	121			
Benzo(k)fluoranthene	83.1	ug/L	10	83	55	111			
4-Bromophenyl phenyl ether	78.1	ug/L	10	78	58	105			
Butylbenzylphthalate	92.9	ug/L	10	93	60	113			
4-Chloro-3-methylphenol	69.5	ug/L	10	69	53	92			
bis(-2-chloroethoxy)Methane	69.6	ug/L	10	70	50	92			
bis(-2-chloroethyl)Ether	58.4	ug/L	10	58	44	82			
bis(2-chloroisopropyl)Ether	57.7	ug/L	10	58	56	87			
2-Chloronaphthalene	77.7	ug/L	10	78	56	95			
2-Chlorophenol	56.6	ug/L	10	57	47	76			
4-Chlorophenyl phenyl ether	82.9	ug/L	10	83	58	99			
Chrysene	82.0	ug/L	10	82	63	106			
Diethyl phthalate	80.2	ug/L	10	80	58	103			
Di-n-butyl phthalate	86.9	ug/L	10	87	61	110			
1,2-Dichlorobenzene	61.5	ug/L	10	62	43	81			
1,3-Dichlorobenzene	59.3	ug/L	10	59	41	79			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batch: 107004		
Lab ID: B17021688-003CMS	Sample Matrix Spike		Run: SV5973N2.I_170227B				02/27/17 21:31		
1,4-Dichlorobenzene	57.9	ug/L	10	58	42	79			
3,3'-Dichlorobenzidine	52.9	ug/L	10	53	51	93			
2,4-Dichlorophenol	61.5	ug/L	10	62	49	90			
Dimethyl phthalate	74.3	ug/L	10	74	58	104			
Di-n-octyl phthalate	82.5	ug/L	10	83	56	110			
Dibenzo(a,h)anthracene	75.9	ug/L	10	76	61	111			
2,4-Dimethylphenol	60.0	ug/L	10	60	45	87			
4,6-Dinitro-2-methylphenol	41.6	ug/L	50	42	37	105			
2,4-Dinitrophenol	30.1	ug/L	50	30	27	81			
2,4-Dinitrotoluene	86.9	ug/L	10	87	63	110			
2,6-Dinitrotoluene	75.9	ug/L	10	76	60	107			
bis(2-ethylhexyl)Phthalate	81.5	ug/L	10	82	56	108			
Fluoranthene	82.0	ug/L	10	82	63	110			
Fluorene	81.9	ug/L	10	82	60	99			
Hexachlorobenzene	75.8	ug/L	10	76	57	103			
Hexachlorobutadiene	69.3	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	69.5	ug/L	10	70	39	91			
Hexachloroethane	57.7	ug/L	10	58	37	75			
Indeno(1,2,3-cd)pyrene	73.4	ug/L	10	73	59	109			
Isophorone	68.4	ug/L	10	68	42	102			
n-Nitrosodimethylamine	27.8	ug/L	10	28	20	45			
n-Nitroso-di-n-propylamine	68.7	ug/L	10	69	49	98			
n-Nitrosodiphenylamine	84.0	ug/L	10	84	61	108			
2-Nitrophenol	61.8	ug/L	10	62	51	96			
4-Nitrophenol	27.7	ug/L	50	28	15	36			
Naphthalene	72.4	ug/L	10	72	48	96			
Nitrobenzene	69.7	ug/L	10	70	51	91			
Pentachlorophenol	66.8	ug/L	50	67	53	109			
Phenanthrene	79.7	ug/L	10	80	58	104			
Phenol	33.9	ug/L	10	34	27	45			
Pyrene	81.2	ug/L	10	81	64	108			
1,2,4-Trichlorobenzene	71.3	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	63.8	ug/L	10	64	47	99			
Surr: 2-Fluorobiphenyl			10	45	28	107			
Surr: 2-Fluorophenol			10	37	20	56			
Surr: Nitrobenzene-d5			10	62	32	94			
Surr: Phenol-d5			10	31	19	45			
Surr: Terphenyl-d14			10	64	32	122			
Surr: 2,4,6-Tribromophenol			10	55	21	130			
Lab ID: MB-107004	Method Blank		Run: SV5973N2.I_170228A				02/28/17 12:11		
Benzidine	ND	ug/L	10						

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625									Batch: 107004
Lab ID: LCS-107004	Laboratory Control Sample					Run: SV5973N2.I_170228A			02/28/17 12:42
Benzidine	63.4	ug/L	10	63	10	100			
Lab ID: B17021688-001CMS	Sample Matrix Spike					Run: SV5973N2.I_170228A			02/28/17 14:16
Benzidine	25.8	ug/L	20	26	10	100			
Lab ID: B17021688-003CMS	Sample Matrix Spike					Run: SV5973N2.I_170228A			02/28/17 15:18
Benzidine	28.5	ug/L	20	28	10	100			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Analytical Run: R275528		
Lab ID: 27-Feb-17_CCV_2	Continuing Calibration Verification Standard							02/27/17 15:18	
Acenaphthene	75.7	ug/L	10	101	80	120			
Acenaphthylene	75.2	ug/L	10	100	80	120			
Anthracene	78.7	ug/L	10	105	80	120			
Azobenzene	79.8	ug/L	10	106	80	120			
Benzo(a)anthracene	78.0	ug/L	10	104	80	120			
Benzo(a)pyrene	78.0	ug/L	10	104	80	120			
Benzo(b)fluoranthene	78.6	ug/L	10	105	80	120			
Benzo(g,h,i)perylene	75.3	ug/L	10	100	80	120			
Benzo(k)fluoranthene	73.2	ug/L	10	98	80	120			
4-Bromophenyl phenyl ether	74.4	ug/L	10	99	80	120			
Butylbenzylphthalate	84.4	ug/L	10	113	80	120			
4-Chloro-3-methylphenol	77.2	ug/L	10	103	80	120			
bis(-2-chloroethoxy)Methane	79.4	ug/L	10	106	80	120			
bis(-2-chloroethyl)Ether	80.8	ug/L	10	108	80	120			
bis(2-chloroisopropyl)Ether	77.8	ug/L	10	104	80	120			
2-Chloronaphthalene	70.3	ug/L	10	94	80	120			
2-Chlorophenol	80.3	ug/L	10	107	80	120			
4-Chlorophenyl phenyl ether	72.9	ug/L	10	97	80	120			
Chrysene	75.0	ug/L	10	100	80	120			
Diethyl phthalate	75.7	ug/L	10	101	80	120			
Di-n-butyl phthalate	81.6	ug/L	10	109	80	120			
1,2-Dichlorobenzene	72.7	ug/L	10	97	80	120			
1,3-Dichlorobenzene	77.8	ug/L	10	104	80	120			
1,4-Dichlorobenzene	74.9	ug/L	10	100	80	120			
3,3'-Dichlorobenzidine	75.8	ug/L	10	101	80	120			
2,4-Dichlorophenol	74.8	ug/L	10	100	80	120			
Dimethyl phthalate	75.3	ug/L	10	100	80	120			
Di-n-octyl phthalate	83.5	ug/L	10	111	80	120			
Dibenzo(a,h)anthracene	74.8	ug/L	10	100	80	120			
2,4-Dimethylphenol	73.0	ug/L	10	97	80	120			
4,6-Dinitro-2-methylphenol	71.3	ug/L	50	95	80	120			
2,4-Dinitrophenol	69.4	ug/L	50	93	80	120			
2,4-Dinitrotoluene	79.4	ug/L	10	106	80	120			
2,6-Dinitrotoluene	78.1	ug/L	10	104	80	120			
bis(2-ethylhexyl)Phthalate	84.4	ug/L	10	112	80	120			
Fluoranthene	76.0	ug/L	10	101	80	120			
Fluorene	77.8	ug/L	10	104	80	120			
Hexachlorobenzene	73.8	ug/L	10	98	80	120			
Hexachlorobutadiene	71.9	ug/L	10	96	80	120			
Hexachlorocyclopentadiene	73.1	ug/L	10	97	80	120			
Hexachloroethane	77.6	ug/L	10	103	80	120			
Indeno(1,2,3-cd)pyrene	75.6	ug/L	10	101	80	120			
Isophorone	78.1	ug/L	10	104	80	120			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Analytical Run: R275528		
Lab ID: 27-Feb-17_CCV_2	Continuing Calibration Verification Standard						02/27/17 15:18		
n-Nitrosodimethylamine	75.3	ug/L	10	100	80	120			
n-Nitroso-di-n-propylamine	77.8	ug/L	10	104	80	120			
n-Nitrosodiphenylamine	78.9	ug/L	10	105	80	120			
2-Nitrophenol	75.8	ug/L	10	101	80	120			
4-Nitrophenol	69.6	ug/L	50	93	80	120			
Naphthalene	79.8	ug/L	10	106	80	120			
Nitrobenzene	76.8	ug/L	10	102	80	120			
Pentachlorophenol	73.3	ug/L	50	98	80	120			
Phenanthrene	74.0	ug/L	10	99	80	120			
Phenol	79.2	ug/L	10	106	80	120			
Pyrene	75.2	ug/L	10	100	80	120			
1,2,4-Trichlorobenzene	72.8	ug/L	10	97	80	120			
2,4,6-Trichlorophenol	73.6	ug/L	10	98	80	120			
Surr: 2-Fluorobiphenyl			10	100	80	120			
Surr: 2-Fluorophenol			10	113	80	120			
Surr: Nitrobenzene-d5			10	105	80	120			
Surr: Phenol-d5			10	121	80	120			S
Surr: Terphenyl-d14			10	101	80	120			
Surr: 2,4,6-Tribromophenol			10	102	80	120			
Method: E625							Analytical Run: R275577		
Lab ID: 28-Feb-17_CCV_2	Continuing Calibration Verification Standard						02/28/17 11:39		
Benzidine	89.5	ug/L	10	119	80	120			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260M	Analytical Run: 107003								
Lab ID: CCV-107003	Continuing Calibration Verification Standard								02/27/17 08:30
1,4-Dioxane	105	ug/L	1.0	105	80	120			
Method: SW8260M	Batch: 107003								
Lab ID: LCS-107003	Laboratory Control Sample								02/27/17 09:22
1,4-Dioxane	106	ug/L	1.0	106	70	130			
Lab ID: MB-107003	Method Blank								02/27/17 09:44
1,4-Dioxane	ND	ug/L	1.0						
Lab ID: C17020566-001BMS	Sample Matrix Spike								02/27/17 11:37
1,4-Dioxane	200	ug/L	2.0	100	70	130			
Lab ID: C17020566-001BMSSD	Sample Matrix Spike Duplicate								02/27/17 11:59
1,4-Dioxane	206	ug/L	2.0	103	70	130	3.0	20	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

C17020566

Login completed by: Dorian Quis

Date Received: 2/21/2017

Reviewed by: Kasey Vidick

Received by: dcq

Reviewed Date: 2/21/2017

Carrier name: Ground

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	6.8°C Blue Ice		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### Contact and Corrective Action Comments:

None



Colorado Analytical  
Laboratories, Inc.

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601  
**Lakewood Lab**  
12860 W. Cedar Dr, Suite 100A  
Lakewood CO 80228

**Phone: 303-659-2313**  
**Fax: 303-659-2315**

**[www.coloradolab.com](http://www.coloradolab.com)**

<b>Report To Information</b>	<b>Bill To Information (If different from report to)</b>	<b>Project Name</b>
Company Name: <u>Colorado Analytical</u>	Company Name: <u>Same As Report To</u>	<u>170217005</u>
Contact Name: <u>Stuart Nielson</u>	Contact Name: _____	<u>Lfh-1 Co-0121724</u>
Address: <u>240 S. Main St.</u> _____ _____ City <u>Brighton</u> State <u>CO</u> Zip <u>80601</u>	Address: _____ _____ City _____ State _____ Zip _____	<b>Task Number (Lab Use Only)</b>
Phone: <u>3036592313</u> Fax: <u>3036592315</u>	Phone: _____ Fax: _____	<b>Disposal Date (Lab Use Only)</b>
Email: <u>stuartnielson@coloradolab.com</u>	Email: _____	
Sample Collector: <u>Stephanie Schwenke</u>	PO No.: _____	

[illegible]



Colorado Department  
of Public Health  
and Environment

**Inorganic Chemicals Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
**4300 Cherry Creek Drive South, Denver, CO 80246-1530**  
**Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us**

Revised 6/13/2014

**IOC**

<b>Section I (Supplied or Completed by Public Water System)</b>		<b>Section II (Supplied or Completed by Certified Laboratory)</b>	
<b>Public Water System Information</b>		<b>Certified Laboratory Information</b>	
PWSID#: CO0121724		Laboratory ID: CO 0015	
System Name: Sterling Ranch MID		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle		Contact Person: Customer Service Phone: 303-659-2313	
Comments:		Comments:	
Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>			
<b>Section III (Supplied or Completed by Public Water System)</b>			
Sample Date: 3/23/17		Sample Pt ID (On Schedule): New Well	
Collector: Stephanie Schwe		Facility ID (On Schedule): New Well	
<b>Section IV Inorganic Chemicals (Completed by Certified Laboratory)</b>			
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name
3/24/17	3/24/17	170324007-01	Fluoride
			CAS No. 7681-49-4
			Analytical Method EPA 300.0
			MCL (mg/L) 4
			Lab MRL (mg/L) 0.09
			Result (mg/L) 1.22

NT: Not Tested  
Lab MRL: Laboratory Minimum Reporting Level  
BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter  
MCL: Maximum Contaminant Level

4/21/17  
170324007-01  
1/1  
N



# Drinking Water Chain of Custody

page 1 of 2

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS-Hydro Consultants</u>		Company Name: <u>SR WATER</u>		PWSID: <u>CO 0121724</u>	
Contact Name: <u>Mark Volle</u>		Contact Name: <u>JIM MORLEY</u>		System Name: <u>STEALING RANCH MD</u>	
Address: <u>545 E. Pikes Peak Ave</u>		Address: <u>20 BOWDER CRESCENT</u>		Address: <u>20 BOWDER CRESCENT</u>	
Suite <u>300</u>		City <u>COLO SPRINGS</u> State <u>CO</u> Zip <u>80903</u>		City <u>COLO SPRINGS</u> State <u>CO</u> Zip <u>80903</u>	
City <u>CO</u> State <u>CO</u> Zip <u>80903</u>		Phone: <u>719-227-0072</u> Fax: <u></u>		County: <u>El Paso</u>	
Email: <u>mvolle@jshydro.com</u>		Email: <u>jmorley3870@aol.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>Stephanie Schwenke</u> PO No.: <u></u>		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			

CAL Task No.  
170324007

ARF

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	53.1 Carbinates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium
3-23	7:55	#1	1																										
	7:57	#2	1																										
	8:11	#3	2																										
	7:52	#4	1																										
	7:52am	#5	1																										
	7:53	#6	3																										
	7:58	#7	2																										
	7:58	#8 - no H2O2 included in	1																										
	7:59	#9	1																										
	8:03	#10	1																										

Instructions: No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive the shipment.

Relinquished By: Stephanie Schwenke Date/Time: 3-23 11:30am Received By: Elise Wilson Date/Time: 3/24/17 1010

Delivered Via: Fed Ex C/S Charge ☐ Temp. 3.3 °C/ice ☒ Sample Pres. Yes ☒ No ☐ Date/Time:

Seals Present Yes ☐ No ☒ Headspace Yes ☐ No ☒

# Drinking Water Chain of Custody



page 2 of 2

Report To Information		State Form / Project Information	
Company Name: <u>JDS-Hydr Consultants</u>	Company Name: <u>SR Water</u>	PWSID: <u>CO 0121724</u>	
Contact Name: <u>Mark Valle</u>	Contact Name: <u>Jim Morley</u>	System Name: <u>Serling Ranch MD</u>	
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crest</u>	Address: <u>20 Boulder Crest</u>	
<u>Suite 300</u>			
City <u>CS</u> State <u>CO</u> Zip <u>80903</u>	City <u>CS</u> State <u>CO</u> Zip <u>80903</u>		
Phone: <u>719-227-0072</u>	Phone: <u>719-227-0072</u>	County: <u>El Paso</u>	
Email: <u>mvalle@jds-hydr.com</u>	Email: <u>morley3870@cs.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>Seprane Schuster</u>	Sampler Name: <u>Seprane Schuster</u>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses																
ARF																																	
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	(TOD, DOC) (Circle)	SUVA, UV 254 (Circle)	Cyanide	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium			
3-23	8:01	#11	1																														
	8:00 am	#12	1																														
	8:26	#14	3																														
	8:18	#15	2																														
	8:12	#16 (1,4 Dioxane)	3																														
	8:23	#17	2																														
	8:21	#18	2																														
	8:15	#19	3																														
	8:29	#20	3																														
Instructions:																																	
Relinquished By: <u>[Signature]</u>		Date/Time: <u>3-23 11:30am</u>		Received By: <u>[Signature]</u>		Date/Time: <u>3-23 11:30am</u>		Relinquished By: <u>[Signature]</u>		Date/Time: <u>3-23 11:30am</u>		Received By: <u>[Signature]</u>		Date/Time: <u>3-23 11:30am</u>		Relinquished By: <u>[Signature]</u>		Date/Time: <u>3-23 11:30am</u>		Received By: <u>[Signature]</u>		Date/Time: <u>3-23 11:30am</u>		Relinquished By: <u>[Signature]</u>		Date/Time: <u>3-23 11:30am</u>		Received By: <u>[Signature]</u>		Date/Time: <u>3-23 11:30am</u>			



Colorado Department  
of Public Health  
and Environment

**Inorganic Chemicals Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
Submit Online at <http://www.wqcdcompliance.com/login>

Revised 4/13/2015

**IOC**

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO0121724		Laboratory ID: CO 0015	
System Name: Sterling Ranch MD		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle	Phone #:	Contact Person: Customer Service	Phone: 303-659-2313
Comments:	Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>	Comments:	

Section III (Supplied or Completed by Public Water System)									
Sample Date: 3/23/17		Collector: Stephanie Schw		Facility ID (On Schedule): New Well		Sample Pt ID (On Schedule): New Well			
Section IV Inorganic Chemicals (Completed by Certified Laboratory)									
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (mg/L)	Lab MRL (mg/L)	Result (mg/L)	
3/24/17	3/29/17	170324007-01A	Antimony	7740-36-0	EPA 200.8	0.006	0.001	BDL	
3/24/17	3/29/17	170324007-01A	Arsenic	7440-38-2	EPA 200.8	0.01	0.001	0.002	
3/24/17	3/29/17	170324007-01A	Barium	7440-39-3	EPA 200.8	2	0.001	0.003	
3/24/17	3/29/17	170324007-01A	Beryllium	7440-41-7	EPA 200.8	0.004	0.001	BDL	
3/24/17	3/29/17	170324007-01A	Cadmium	7440-43-9	EPA 200.8	0.005	0.001	BDL	
3/24/17	3/29/17	170324007-01A	Chromium	7440-47-3	EPA 200.8	0.1	0.001	BDL	
3/24/17	3/29/17	170324007-01A	Mercury	7439-97-6	EPA 200.8	0.002	0.0001	BDL	
3/24/17	3/29/17	170324007-01A	Nickel	7440-02-0	EPA 200.8	N/A	0.001	0.001	
3/24/17	3/29/17	170324007-01A	Selenium	7782-49-2	EPA 200.8	0.05	0.001	BDL	
3/24/17	3/30/17	170324007-01A	Sodium	7440-23-5	EPA 200.7	N/A	0.1	52.8	
3/24/17	3/29/17	170324007-01A	Thallium	7440-28-0	EPA 200.8	0.002	0.001	BDL	

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

BDL: Below Laboratory MRL. A less than (<) may also used.

mg/L: Milligrams per Liter  
MCL: Maximum Contaminant Level

4/21/17  
170324007-01A  
1/1  
N



# Drinking Water Chain of Custody

page 1 of 2

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: IDS-Hydro Consultants		Company Name: SR WATER		PWSID: CO 0121724	
Contact Name: Mark Valle		Contact Name: JIM MORLEY		System Name: STEERING RANCH MD	
Address: 545 E. Pikes Peak Ave		Address: 20 BOWDER CRESCENT		Address: 20 BOWDER CRESCENT	
Suite 300		City CO Springs		City CO Springs	
City CO Springs		State CO Zip 80903		State CO Zip 80903	
Phone: 719-207-0072		Phone: 3870-2000		County: El Paso	
Fax: 719-207-0072		Fax: 3870-2000		County: El Paso	
Email: mvalle@jshydro.com		Email: jmorley@srwater.com		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: Stephanie Schwenke		PO No.:		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

CAL Task No.  
170324007

ARF

Date Time Client Sample ID / EP Code

3-23	7:55	#1
3-23	7:57	#2
3-23	8:05	#3
3-23	8:11	#4
3-23	7:52	#5
3-23	7:52am	#6
3-23	7:53	#7
3-23	7:58	#8 - no H2O2 included in
3-23	7:59	#9
3-23	8:03	#10

Instructions: No H<sub>2</sub>SO<sub>4</sub> preservative was included

with the bottle shipment. Please preserve Diquat

Sample #8 as soon as you receive the shipment.

Relinquished By: 3-23 11:30am Elise Nielsen 3/24/10

Date/Time: 3-23 11:30am

Received By: Elise Nielsen

Date/Time: 3/24/10

## PHASE I, II, V Drinking Water Analyses (check analysis)

Subcontract Analyses														Subcontract Analyses													
C/S Info:														C/S Info:													
Total Coliform P/A														Total Coliform P/A													
Residual Chlorine (mg/L)														Residual Chlorine (mg/L)													
No. of Containers														No. of Containers													
P/A Samples Only														P/A Samples Only													
504.1 EDB/BCP														504.1 EDB/BCP													
505 Pests/PCBs														505 Pests/PCBs													
515.4 Herbicides														515.4 Herbicides													
524.2 VOCs														524.2 VOCs													
525.2 SOCs-Pest														525.2 SOCs-Pest													
531.1 Carbinates														531.1 Carbinates													
547 Glyphosate														547 Glyphosate													
548.1 Endothall														548.1 Endothall													
549.2 Diquat														549.2 Diquat													
552.2 THMs														552.2 THMs													
552.2 HAAs														552.2 HAAs													
Lead/Copper														Lead/Copper													
Nitrate														Nitrate													
Nitrite														Nitrite													
Fluoride														Fluoride													
Inorganics														Inorganics													
Alk./Lang. Index														Alk./Lang. Index													
TOC, DOC (Circle)														TOC, DOC (Circle)													
SUVA, UV 254 (Circle)														SUVA, UV 254 (Circle)													
Gross Alpha/Beta														Gross Alpha/Beta													
Radium 226														Radium 226													
Radium 228														Radium 228													
Radon														Radon													
Uranium														Uranium													

Seals Present Yes ☐ No ☒ Headspace Yes ☐ No ☒

Temp. 3.3 °C/ice Y Sample Pres. Yes ☒ No ☐

Received By: Fed Ex Date/Time:

Relinquished By: 3-23 11:30am Elise Nielsen 3/24/10

Date/Time: 3-23 11:30am

Received By: Elise Nielsen

Date/Time: 3/24/10



# Drinking Water Chain of Custody

page 2 of 2

<b>Report To Information</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS-Hydro Consultants</u>	Company Name: <u>SR Water</u>	PWSID: <u>CO 0121724</u>	
Contact Name: <u>Mark Volle</u>	Contact Name: <u>Jim Morley</u>	System Name: <u>Serling Ranch MD</u>	
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crest</u>	Address: <u>20 Boulder Crest</u>	
<u>Suite 300</u>			
City <u>CS</u> State <u>CO</u> Zip <u>80903</u>	City <u>CS</u> State <u>CO</u> Zip <u>80903</u>		
Phone: <u>719-227-0073</u>	Phone: <u>3870-0001</u>	County: <u>El Paso</u>	
Email: <u>mvolle@jds-hydro.com</u>	Email: <u>morley3870@aol.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>Stephanie Schuster</u>	Sampler Name: <u>Stephanie Schuster</u>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses												
ARF		No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	522.2 HAAs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	(TOC, DOC) (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium	
Date	Time	Client Sample ID / EP Code																											
3-23	8:01	#11																											
	8:00 am	#12																											
	8:26	#14																											
	8:18	#15																											
	8:12	#16 (1,4 Dioxane)																											
	8:23	#17																											
	8:21	#18																											
	8:15	#19																											
	8:29	#20																											
Instructions:																													
Relinquished By: <u>[Signature]</u>			Date/Time: <u>3-23 11:30am</u>	Received By: <u>[Signature]</u>			Date/Time: <u>3-23 11:30am</u>	Delivered Via: <u>C/S Charge</u>			Temp. <u>°C/°F</u>			Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/>			Headspace Yes <input type="checkbox"/> No <input type="checkbox"/>			Sample Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>			Date/Time: <u></u>						

## Analytical Results

**TASK NO: 170324007**

**Report To:** Mark Volle

**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley

**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

**Task No.:** 170324007  
**Client PO:**  
**Client Project:** Sterling Ranch MD CO0121724

**Date Received:** 3/24/17  
**Date Reported:** 4/21/17  
**Matrix:** Water - Drinking

**Customer Sample ID:** Sterling Ranch MD  
**Sample Date/Time:** 3/23/17 8:03 AM  
**Lab Number:** 170324007-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	99.7 mg/L as CaCO <sub>3</sub>	SM 2320-B	0.1	3/28/17	VDB
Calcium as CaCO <sub>3</sub>	2.6 mg/L	SM 3111-B	0.1	3/30/17	MBN
Carbonate	< 0.1 mg/L as CaCO <sub>3</sub>	SM 2320-B	0.1	3/28/17	VDB
Langelier Index	-1.23 units	SM 2330-B		3/31/17	LJG
pH	8.16 units	SM 4500-H-B	0.01	3/24/17	MBN
Temperature	20 °C	SM 4500-H-B	1	3/24/17	MBN
Total Alkalinity	99.7 mg/L as CaCO <sub>3</sub>	SM 2320-B	0.1	3/28/17	VDB
Total Dissolved Solids	143 mg/L	SM 2540-C	5	3/29/17	ISG

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
mg/L = Milligrams Per Liter or PPM  
ug/L = Micrograms Per Liter or PPB  
mpn/100 ml = Most Probable Number Index/ 100 ml  
Date Analyzed = Date Test Completed



DATA APPROVED FOR RELEASE BY



# Drinking Water Chain of Custody

page 1 of 2

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS-Hydro Consultants</u>		Company Name: <u>SR WATER</u>		PWSID: <u>CO 0121724</u>	
Contact Name: <u>Mark Valle</u>		Contact Name: <u>JIM MORLEY</u>		System Name: <u>STEALING BANCH MD</u>	
Address: <u>545 E. Pikes Peak Ave</u>		Address: <u>20 BOWDER CRESCENT</u>		Address: <u>20 BOWDER CRESCENT</u>	
City: <u>CO Springs</u>		City: <u>CO Springs</u>		City: <u>CO Springs</u>	
State: <u>CO</u>		State: <u>CO</u>		State: <u>CO</u>	
Zip: <u>80903</u>		Zip: <u>80903</u>		Zip: <u>80903</u>	
Phone: <u>719-227-0072</u>		Phone: <u>719-227-0072</u>		County: <u>El Paso</u>	
Fax: <u></u>		Fax: <u></u>		County: <u>El Paso</u>	
Email: <u>mvalle@jds-hydro.com</u>		Email: <u>jmorley3870@aol.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>Stephanie Schwenke</u>		PO No.: <u></u>		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

CAL Task No.  
170324007

ARF

Date Time Client Sample ID / EP Code

3-23	7:55	#1
3-23	7:57	#2
3-23	8:05	#3
3-23	8:11	#4
3-23	7:52	#5
3-23	7:52am	#6
3-23	7:53	#7
3-23	7:58	#8 - no H2SO4 preservative included in
3-23	7:59	#9
3-23	8:03	#10

Instructions: No H2SO4 preservative was included with the bottle shipment. Please preserve Diqnot Sample #8 as soon as you receive the shipment.

Relinquished By: Stephanie Schwenke Date/Time: 3-23 11:30am Received By: Elise Wilson Date/Time: 3/24/17 10:10

## PHASE I, II, V Drinking Water Analyses (check analysis)

Subcontract Analyses (check analysis)														Subcontract Analyses													
Seals Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>														Seals Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>													
Temp. 3.3 °C/°F <input checked="" type="checkbox"/> Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														Temp. 3.3 °C/°F <input checked="" type="checkbox"/> Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
Date/Time: <u>3-23 11:30am</u>														Date/Time: <u>3-23 11:30am</u>													
Relinquished By: <u>Stephanie Schwenke</u>														Relinquished By: <u>Elise Wilson</u>													
Date/Time: <u>3-23 11:30am</u>														Date/Time: <u>3-23 11:30am</u>													
Received By: <u>Elise Wilson</u>														Received By: <u>Elise Wilson</u>													
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Date/Time: <u>3-23 11:30am</u>														Date/Time: <u>3-23 11:30am</u>													
Received By:																											

# Drinking Water Chain of Custody



page 2 of 2

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: <u>JDS-Hydro Consultants</u>	Company Name: <u>SR Water</u>	PWSID: <u>CO 0121724</u>	System Name: <u>Serling Ranch MD</u>		
Contact Name: <u>Mark Volle</u>	Contact Name: <u>Jim Morley</u>	Address: <u>20 Boulder Crest</u>	City: <u>CS</u> State: <u>CO</u> Zip: <u>80903</u>		
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crest</u>	City: <u>CS</u>	State: <u>CO</u> Zip: <u>80903</u>		
Suite: <u>300</u>		County: <u>El Paso</u>			
City: <u>CS</u>	State: <u>CO</u> Zip: <u>80903</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Phone: <u>719-227-0072</u>	Phone: <u>3870-0001</u>				
Email: <u>mvolle@jds-hydro.com</u>	Email: <u>jmorley3870@aol.com</u>				
Sampler Name: <u>Stephan Schuster</u>	Sampler No.: <u>60</u>				

CAL Task No. 170324007		PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses														
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOC-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	532.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOD, DOC (Circle)	SUVA, UV 254 (Circle)	Cyanide	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium	
3-23	8:01	#11	1																												
	8:00 am	#12	1																												
	8:26	#14	3																												
	8:18	#15	2																												
	8:12	#16 (1,4 Dioxane)	3																												
	8:23	#17	2																												
	8:21	#18	2																												
	8:15	#19	3																												
	8:29	#20	3																												
Instructions:			C/S Info:															Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/> Headspace Yes <input type="checkbox"/> No <input type="checkbox"/>													
Relinquished By: <u>[Signature]</u>	Date/Time: <u>3-23 11:30am</u>	Received By: <u>[Signature]</u>	Date/Time: <u>3-23 11:30am</u>	Delivered Via: <input type="checkbox"/> C/S Charge <input type="checkbox"/>		Relinquished By: <u>[Signature]</u>		Date/Time: <u>3-23 11:30am</u>		Temp. <u>°C/°F</u>		Sample Pres. Yes <input type="checkbox"/> No <input type="checkbox"/>		Received By: <u>[Signature]</u>		Date/Time: <u>3-23 11:30am</u>															



Colorado Department  
of Public Health  
and Environment

Nitrate and Nitrite as Nitrogen Certified Laboratory Report Form  
WQCD - Drinking Water CAS  
Submit Online at <http://www.wqcdcompliance.com/login>

Revised 4/13/2015

NOX

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO0121724		Laboratory ID: CO 0015	
System Name: Sterling Ranch MD		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle	Phone #: 719-227-0072	Contact Person: Customer Service	Phone: 303-659-2313
Comments:		Comments:	

Section III (Supplied or Completed by Public Water System)					Section IV (Supplied or Completed by Certified Laboratory)							
Sample Date	Collector	Facility ID On Schedule	Sample Pt ID On Schedule	Confirmation?	Lab Receipt Date	Lab Analysis Date	Laboratory Sample ID #	Analyte	Analytical Method	MCL (mg/L)	Lab MRL (mg/L)	Result (mg/L)
3/23/17	Ephanie Schwenk	New Well	New Well	<input type="checkbox"/>	3/24/17	3/24/17	170324007-01	Nitrate Nitrogen	EPA 300.0	10	0.1	BDL
3/23/17	Ephanie Schwenk	New Well	New Well	<input type="checkbox"/>	3/24/17	3/24/17	170324007-01	Nitrite Nitrogen	EPA 300.0	1	0.1	BDL

NT: Not Tested  
Lab MRL: Laboratory Minimum Reporting Level  
BDL: Below Laboratory MRL. A less than (<) may also be used.

mg/L: Milligrams per Liter  
MCL: Maximum Contaminant Level

4/21/17  
170324007-01  
1/1  
N



# Drinking Water Chain of Custody

page 1 of 2

Report To Information		Bill To Information (if different from report to)		State Form / Project Information	
Company Name: IDS-Hydro Consultants		Company Name: SR WATER		PWSID: CO 0121724	
Contact Name: Mark Valle		Contact Name: JIM MORLEY		System Name: STEALING BANCH MD	
Address: 545 E. Pikes Peak Ave Suite 300		Address: 20 BOWDER CRESCENT		Address: 20 BOWDER CRESCENT	
City CS Suite 300 Zip 80903		City COLORADO State CO Zip 80903		City CO State CO Zip 80903	
Phone: 719-227-0072 Fax:		Phone: Fax:		County: El Paso	
Email: mvalle@idshydro.com		Email: jmorley@srwater.com		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: Stephanie Schwenke		PO No.:		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

CAL Task No.  
170324007

ARF

Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/BCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbinates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	605-502	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium
3-23	7:55	#1	1						X																						
	7:57	#2	1																												
	8:11	#3 8:05	2								X																				
	7:52	#4	1																												
	7:52	#5	1																												
	7:52am	#6	3																												
	7:53	#7	2																												
	7:58	#8 - no H2O2 added in	1																												
	7:59	#9	1																												
	8:03	#10	1																												

Instructions: No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive the shipment.

Relinquished By: Stephanie Schwenke Date/Time: 3-23 11:30am Received By: Elise Wilson Date/Time: 3/24/17 10:10

Delivered Via: Fed Ex C/S Charge ☐ C/S Info: 3.3 °C/lcc Y Sample Pres. Yes ☒ No ☐ Date/Time: 3-23 11:30am Received By: Elise Wilson Date/Time: 3/24/17 10:10



Colorado  
Analytical  
LABORATORIES, INC.

Page 2 of 2

Report To Information	Bill To Information (if different from report to)	State Form / Project Information
Company Name: <u>IDS-Hydra Consultants</u>	Company Name: <u>SR Water</u>	PWSID: <u>CO 0121724</u>
Contact Name: <u>Mark Volle</u>	Contact Name: <u>Tim Morley</u>	System Name: <u>Sterling Ranch MDS</u>
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crest</u>	Address: <u>20 Boulder Crest</u>
<u>Suite 300</u>		
City <u>CS</u> state <u>CO</u> zip <u>80903</u>	City <u>Colorado</u> state <u>CO</u> zip <u>80903</u>	City <u>CS</u> state <u>CO</u> zip <u>80903</u>
Phone: <u>719-227-0072</u> Fax:	Phone: Fax:	County: <u>El Paso</u>
Email: <u>mvolle@ids-hydra.com</u>	Email: <u>jmorley3870@aol.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler Name: <u>Debra Schwenker</u>	PO No.:	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

CAL Task No. 170324007			PHASE I, II, V Drinking Water Analyses (check analysis)										Subcontract Analyses																	
Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium	
3-23	8:01	#11	1																											
	8:00 am	#12	1																											
	8:26	#14	1																											
	8:28	#15	1																											
	8:12	#16 (1,4 Dioxane)	1																											
	8:23	#17	1																											
	8:24	#18	1																											
	8:15	#19	1																											
	8:39	#20	1																											

Instructions:

Relinquished By: [Signature] Date/Time: 3-23 11:30am

Received By: [Signature] Date/Time: 3-23 11:30am



Colorado Department  
of Public Health  
and Environment

**Organic Chemicals Certified Laboratory Report Form**  
**WQCD - Drinking Water CAS**  
**Submit Online at <http://www.wqedcompliance.com/login>**

Revised 4/13/2015

**VOC/SOC**

Section I (Supplied or Completed by Public Water System)		Section II (Supplied or Completed by Certified Laboratory)	
Public Water System Information		Certified Laboratory Information	
PWSID#: CO0121724		Laboratory ID: CO 00063	
System Name: Sterling Ranch MD		Laboratory Name: Colorado Analytical Laboratory	
Contact Person: Mark Volle	Phone #: 719-227-0072	Contact Person: Customer Service	Phone: 303-659-2313
Comments:	Do Samples Need to be Compositied BY THE LAB? <input type="checkbox"/>	Comments:	

PWSID#: CO0121724		Section V (Supplied or Completed by Public Water System)						
Sample Date:	3/23/17	Collector:	Stephanie Schwenk	Facility ID (On Schedule):	New Well	Sample Pt ID (On Schedule):	New Well	
Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)								
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No	Analytical Method	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
3/24/17	4/3/17	170324007-01E	Dibromochloropropane	96-12-8	EPA 504.1	0.2	0.02	BDL
3/24/17	3/29/17	170324007-01G	2,4-D	94-75-7	EPA 515.4	70	0.1	BDL
3/24/17	3/29/17	170324007-01G	2,4,5-TP	93-72-1	EPA 515.4	50	0.2	BDL
3/24/17	3/31/17	170324007-01I	Alachlor	15972-60-8	EPA 525.2	2	0.2	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb	116-06-3	EPA 531.1	N/A	0.6	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb sulfone	1646-88-4	EPA 531.1	N/A	1	BDL
3/24/17	3/31/17	170324007-01J	Aldicarb sulfoxide	1646-87-3	EPA 531.1	N/A	0.7	BDL
3/24/17	3/31/17	170324007-01I	Atrazine	1912-24-9	EPA 525.2	3	0.1	BDL
3/24/17	3/31/17	170324007-01I	Benzo(a)pyrene	50-32-8	EPA 525.2	0.2	0.02	BDL
3/24/17	3/31/17	170324007-01J	Carbofuran	1563-66-2	EPA 531.1	40	0.9	BDL
3/24/17	3/30/17	170324007-01F	Chlordane	57-74-9	EPA 505	2	0.2	BDL
3/24/17	3/29/17	170324007-01G	Delapon	75-99-0	EPA 515.4	200	1	BDL
3/24/17	3/31/17	170324007-01I	Di(2-ethylhexyl)adipate	103-23-1	EPA 525.2	400	0.6	BDL
3/24/17	3/31/17	170324007-01I	Di(2-ethylhexyl)phthalate	117-81-7	EPA 525.2	6	0.6	BDL
3/24/17	3/29/17	170324007-01G	Dinoseb	85-85-7	EPA 515.4	7	0.2	BDL
3/24/17	3/24/17	170324007-01L	Diquat	85-00-7	EPA 549.2	20	0.4	BDL
3/24/17	3/29/17	170324007-01K	Endothall	145-73-3	EPA 548.1	100	9	BDL
3/24/17	3/30/17	170324007-01F	Endrin	72-20-8	EPA 505	2	0.01	BDL
3/24/17	4/3/17	170324007-01E	Ethylene dibromide	106-93-4	EPA 504.1	0.05	0.01	BDL
3/24/17	3/31/17	170324007-01I	Heptachlor	76-44-8	EPA 525.2	0.4	0.04	BDL
3/24/17	3/30/17	170324007-01F	Heptachlor epoxide	1024-57-3	EPA 505	0.2	0.02	BDL

NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also be used.

170324007-01 N

1/2  
4/21/17

PWSID#: C00121724		Section V (Supplied or Completed by Public Water System)						
Sample Date: 3/23/17		Collector:	Stephanie Schwenk	Facility ID (On Schedule):	New Well	Sample Pt ID (On Schedule):	New Well	
Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory)								
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name	CAS No.	Analytical Method	MCL (ug/L)	Lab MRL (ug/L)	Result (ug/L)
3/24/17	3/30/17	170324007-01F	Hexachlorobenzene	118-74-1	EPA 505	1	0.1	BDL
3/24/17	3/30/17	170324007-01F	Hexachlorocyclopentadiene	77-47-4	EPA 505	50	0.1	BDL
3/24/17	3/30/17	170324007-01F	Lindane	58-89-9	EPA 505	0.2	0.02	BDL
3/24/17	3/30/17	170324007-01F	Methoxychlor	72-43-5	EPA 505	40	0.1	BDL
3/24/17	3/31/17	170324007-01J	Oxamyl	23135-22-0	EPA 531.1	200	1	BDL
3/24/17	3/29/17	170324007-01G	Pentachlorophenol	87-86-5	EPA 515.4	1	0.04	BDL
3/24/17	3/29/17	170324007-01G	Picloram	1918-02-1	EPA 515.4	500	0.1	BDL
3/24/17	3/30/17	170324007-01F	Polychlorinated biphenyl's	1336-36-3	EPA 505	0.5	0.1	BDL
3/24/17	3/31/17	170324007-01I	Simazine	122-34-9	EPA 525.2	4	0.07	BDL
3/24/17	3/30/17	170324007-01F	Toxaphene	8001-35-2	EPA 505	3	1	BDL

NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also be used.

170324007-01 N

2/2  
4/21/17



Colorado  
Analytical  
LABORATORIES, INC.

page 1 of 2

Report To Information	Bill To Information (if different from report to)	State Form / Project Information
Company Name: <u>JDS-Hydro Consultants</u>	Company Name: <u>SR WATER</u>	PWSID: <u>CO 0121724</u>
Contact Name: <u>Mark Volle</u>	Contact Name: <u>JIM MORLEY</u>	System Name: <u>STEARNS RANCH MD</u>
Address: <u>545 E. PikesPeak Ave</u>	Address: <u>20 BOULDER CRESCENT</u>	Address: <u>20 BOULDER CRESCENT</u>
<u>Suite 300</u>		
City <u>CS</u> State <u>CO</u> Zip <u>80903</u>	City <u>SPRING</u> State <u>CO</u> Zip <u>80903</u>	City <u>COLO</u> State <u>CO</u> Zip <u>80903</u>
Phone: <u>719-227-0072</u> Fax: <u></u>	Phone: <u></u> Fax: <u></u>	County: <u>El Paso</u>
Email: <u>mvolle@jds-hydro.com</u>	Email: <u>jmorley3870@aol.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler Name: <u>Stephanie Schwenke</u>	PO No.: <u></u>	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

CAL Task No. 170324007			PHASE I, II, V Drinking Water Analyses (check analysis)															Subcontract Analyses																														
ARF		Date	Time	Client Sample ID / EP Code	No. of Containers	Residual Chlorine (mg/L)	P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	TOC, DOC (Circle)	SUA, UV 254 (Circle)	625-SCL	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium															
✓	3-23	7:55	#1	1																																												
		7:57	#2	1																																												
		8:05	#3	2																																												
		8:11	#4	1																																												
		7:52	#5	1																																												
		7:52am	#6	3																																												
		7:53	#7	2																																												
		7:58	#8 - no H2SO4 preservative included in shipment	1																																												
		7:59	#9	1																																												
		8:03	#10	1																																												
Instructions: No H <sub>2</sub> SO <sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquat Sample #8 as soon as you receive the shipment.																																	C/S Info:				Seals Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Headspace Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>											
Relinquished By: <u>3-23 11:30am G. Wilson</u>																																	Date/Time: <u>3-23 11:30am</u>				Received By: <u>G. Wilson</u>				Date/Time: <u>3-23 11:30am</u>				Sample Pres. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			





Colorado Department  
of Public Health  
and Environment

## Radionuclides Certified Laboratory Report Form

WQCD – Drinking Water CAS

4300 Cherry Creek Drive South; Denver, CO 80246-1530

Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us

Revision 6/13/2014

# RAD

Section I (Supplied or Completed by Public Water System)				Section II (Supplied or Completed by Certified Laboratory)				
Public Water System Information				Certified Laboratory Information				
PWS ID: CO0121724				Laboratory ID: CO 00008				
System Name: Sterling Ranch MD				Laboratory Name: Hazen Research, Inc.				
Contact Person:		Phone #:		Contact Person: Jessica Axen		Phone #: 303-279-4501		
Comments:		Do Samples Need to be Compositd <u>BY THE LAB?</u>		Comments:				
Section III (Supplied or Completed by Public Water System)								
Sample Date: 03/23/2017		Collector:		Facility ID (On Schedule):		Sample Pt ID (On Schedule):		
Section IV Radionuclides (Supplied or Completed by Certified Laboratory)								
Lab Receipt Date	Lab Analysis Date	Lab Sample ID	Analyte Name (Code)	CAS No.	Analytical Method	MCL	Lab MRL	Result
03/24/2017	04/18/2017	C27017-001	Gross Alpha Including Uranium (4002)	12587-46-1	SM 7110 B	N/A	1.5	0.0(±1.5)
			Combined Uranium (4006)	7440-61-1	D2907-97	30 ug/L		
03/24/2017	04/07/2017	C27017-001	Radium -226 (4020)	13982-63-3	SM 7500-Ra B	N/A	0.1	0.4(±0.3)
03/24/2017	03/30/2017	C27017-001	Radium -228 (4030)	15262-20-1	EPA Ra-05	N/A	0.6	0.2(±0.6)
03/24/2017	04/18/2017	C27017-001	Gross Beta (4100)	12587-47-2	SM 7110 B	50 pCi/L.*	2.1	0.0(±2.0)
			Total Dissolved Solids (1930)		EPA 160.3	N/A		
*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern.								
Section V Calculated Values								
N/A			Gross Alpha Excluding Uranium (4000)		Calculated Value		15 pCi/L N/A	
			Combined Radium {-226 & -228} (4010)		Calculated Value		5 pCi/L N/A	

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

BDL: Below Laboratory MRL. A less than sign (<) may also be used

ug/L: Micrograms per Liter

pCi/L: Picocuries per Liter

MCL: Maximum Contaminant Level



Colorado Analytical  
Laboratories, Inc.

**Brighton Lab**  
240 South Main Street  
Brighton, CO 80601

**Lakewood Lab**  
12860 W. Cedar Dr., Suite 101  
Lakewood CO 80228

**Phone: 303-659-2313**  
**Fax: 303-659-2315**

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[illegible]

## Analytical Results

**TASK NO: 170324007**

**Report To:** Mark Volle

**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley

**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

**Task No.:** 170324007  
**Client PO:**  
**Client Project:** Sterling Ranch MD CO0121724

**Date Received:** 3/24/17  
**Date Reported:** 4/21/17  
**Matrix:** Water - Drinking

**Customer Sample ID:** Sterling Ranch MD  
**Sample Date/Time:** 3/23/17 8:03 AM  
**Lab Number:** 170324007-01

**Facility ID:** New Well  
**Sample Point ID:** New Well

Test	Result	Method	ML	Date Analyzed	Analyzed By
Chloride	1.3 mg/L	EPA 300.0	0.1 mg/L	3/24/17	LJG
Cyanide-Free	< 0.005 mg/L	EPA 335.4	0.005 mg/L	3/28/17	VDB
E-Coli	< 1 mpn/100ml	Coli-ert	1 mpn/100ml	3/25/17	VDB
Sulfate	10.7 mg/L	EPA 300.0	0.1 mg/L	3/24/17	LJG
Total Coliform	68 mpn/100ml	Coli-ert	1 mpn/100ml	3/25/17	VDB
Total Organic Carbon	< 0.5 mg/L	SM 5310-C	0.5 mg/L	3/28/17	ISG
Turbidity	1.08 NTU	SM 2130-B	0.01 NTU	3/24/17	MBN
<b>Total</b>					
Aluminum	0.032 mg/L	EPA 200.8	0.001 mg/L	3/29/17	TCD
Calcium	1.0 mg/L	EPA 200.7	0.1 mg/L	3/29/17	MBN
Copper	< 0.0008 mg/L	EPA 200.8	0.0008 mg/L	3/29/17	TCD
Iron	0.180 mg/L	EPA 200.7	0.005 mg/L	3/30/17	MBN
Lead	0.0002 mg/L	EPA 200.8	0.0001 mg/L	3/29/17	TCD
Magnesium	0.06 mg/L	EPA 200.7	0.02 mg/L	3/29/17	MBN
Manganese	0.0071 mg/L	EPA 200.8	0.0008 mg/L	3/29/17	TCD
Potassium	1.0 mg/L	EPA 200.7	0.1 mg/L	3/29/17	MBN
Silver	< 0.0001 mg/L	EPA 200.8	0.0001 mg/L	3/29/17	TCD
Strontium	0.009 mg/L	EPA 200.8	0.005 mg/L	3/29/17	TCD
Total Hardness	2.7 mg/L as CaCO <sub>3</sub>	SM 2340-B	0.1 mg/L as CaCO <sub>3</sub>	3/30/17	MBN
Uranium	< 0.0002 mg/L	EPA 200.8	0.0002 mg/L	3/29/17	TCD
Zinc	0.002 mg/L	EPA 200.8	0.001 mg/L	3/29/17	TCD

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
mg/L = Milligrams Per Liter or PPM  
ug/L = Micrograms Per Liter or PPB  
mpn/100 ml = Most Probable Number Index/ 100 ml  
Date Analyzed = Date Test Completed



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## Analytical Results

**TASK NO: 170324007**

**Report To:** Mark Volle

**Company:** JDS Hydro Consultants  
545 E. Pikes Peak Ave  
Suite 300  
Colorado Springs CO 80903

**Bill To:** Jim Morley

**Company:** SR Water  
20 Boulder Crescent St.  
Colorado Springs CO 80903

**Task No.:** 170324007  
**Client PO:**  
**Client Project:** Sterling Ranch MD CO0121724

**Date Received:** 3/24/17  
**Date Reported:** 4/21/17  
**Matrix:** Water - Drinking

**Customer Sample ID:** Sterling Ranch MD  
**Sample Date/Time:** 3/23/17 8:03 AM  
**Lab Number:** 170324007-01

**Facility ID:** New Well  
**Sample Point ID:** New Well

Test	Result	Method	ML	Date Analyzed	Analyzed By
<u>Total</u> Zinc	0.002 mg/L	EPA 200.8	0.001 mg/L	3/29/17	TCD

**Abbreviations/ References:**

ML = Minimum Level = LRL = RL  
mg/L = Milligrams Per Liter or PPM  
ug/L = Micrograms Per Liter or PPB  
mpn/100 mls = Most Probable Number Index/ 100 mls  
Date Analyzed = Date Test Completed



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# Drinking Water Chain of Custody

page 1 of 2

<b>Report To Information</b>		<b>Bill To Information (if different from report to)</b>		<b>State Form / Project Information</b>	
Company Name: <u>JDS-Hydro Consultants</u>		Company Name: <u>SR WATER</u>		PWSID: <u>CO 0121724</u>	
Contact Name: <u>Mark Volle</u>		Contact Name: <u>JIM MORLEY</u>		System Name: <u>STEALING RANCH MD</u>	
Address: <u>545 E. Pikes Peak Ave</u>		Address: <u>20 BOWDER CRESCENT</u>		Address: <u>20 BOWDER CRESCENT</u>	
Suite <u>300</u>		City <u>COLORADO</u>		City <u>COLORADO</u>	
City <u>CO</u>		State <u>CO</u>		State <u>CO</u>	
Zip <u>80903</u>		Zip <u>80903</u>		Zip <u>80903</u>	
Phone: <u>719-227-0072</u>		Phone: <u>38702200.com</u>		County: <u>El Paso</u>	
Fax: <u>719-227-0072</u>		Email: <u>jmorley@jshydro.com</u>		Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Sampler Name: <u>Stephanie Schwenke</u>		PO No.: <u>170324007</u>		Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

CAL Task No.

170324007

ARF

Date Time Client Sample ID / EP Code

3-23	7:55	#1
7:57	#2	
8:11	#3	8:05
7:52	#4	
7:52am	#5	
7:53	#6	
7:58	#7	
7:59	#8	no H2SO4 preservative included in
8:03	#9	
	#10	

Instructions:

No H<sub>2</sub>SO<sub>4</sub> preservative was included with the bottle shipment. Please preserve Diquot Sample #8 as soon as you receive the shipment.

Relinquished By:

Date/Time:

Received By:

Date/Time:

Relinquished By:

Date/Time:

Received By:

Date/Time:

## PHASE I, II, V Drinking Water Analyses (check analysis)

Subcontract Analyses														Subcontract Analyses													
Total Coliform P/A														Total Coliform P/A													
Residual Chlorine (mg/L)														Residual Chlorine (mg/L)													
P/A Samples Only														P/A Samples Only													
No. of Containers														No. of Containers													
504.1 EDB/BCP														504.1 EDB/BCP													
505 Pests/PCBs														505 Pests/PCBs													
515.4 Herbicides														515.4 Herbicides													
524.2 VOCs														524.2 VOCs													
525.2 SOCs-Pest														525.2 SOCs-Pest													
531.1 Carbinates														531.1 Carbinates													
547 Glyphosate														547 Glyphosate													
548.1 Endothall														548.1 Endothall													
549.2 Diquat														549.2 Diquat													
552.2 THMs														552.2 THMs													
552.2 HAA5														552.2 HAA5													
Lead/Copper														Lead/Copper													
Nitrate														Nitrate													
Nitrite														Nitrite													
Fluoride														Fluoride													
Inorganics														Inorganics													
Alk./Lang. Index														Alk./Lang. Index													
TOC, DOC (Circle)														TOC, DOC (Circle)													
SUVA, UV 254 (Circle)														SUVA, UV 254 (Circle)													
Gross Alpha/Beta														Gross Alpha/Beta													
Radium 226														Radium 226													
Radium 228														Radium 228													
Radon														Radon													
Uranium														Uranium													

Seals Present Yes ☐ No ☒

Headspace Yes ☐ No ☒

Temp. 3.3 °C/sec

Sample Pres. Yes ☒ No ☐

Date/Time:

Received By:

Date/Time:

Relinquished By:

Date/Time:

Received By:

Date/Time:

Relinquished By:

Date/Time:

Received By:

Date/Time:



Colorado  
Analytical  
LABORATORIES, INC.

Page 2 of 2

Report To Information	Bill To Information (if different from report to)	State Form / Project Information
Company Name: <u>IDS-Hydro Consultants</u>	Company Name: <u>SR Water</u>	PWSID: <u>CO 0121724</u>
Contact Name: <u>Mark Volle</u>	Contact Name: <u>Jim Morley</u>	System Name: <u>Serling Ranch M/D</u>
Address: <u>545 E. Pikes Peak Ave</u>	Address: <u>20 Boulder Crest</u>	Address: <u>20 Boulder Crest</u>
<u>Suite 300</u>		
City <u>CS</u> State <u>CO</u> Zip <u>80903</u>	City <u>Colorado</u> State <u>CO</u> Zip <u>80903</u>	City <u>CS</u> State <u>CO</u> Zip <u>80903</u>
Phone: <u>719-227-0072</u> Fax: _____	Phone: _____ Fax: _____	County: <u>El Paso</u>
Email: <u>mvolle@idshydro.com</u>	Email: <u>jmorley3870@aol.com</u>	Compliance Samples: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Sampler Name: <u>Stephanie Schwenke</u>	PO No.: _____	Send Forms to State: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

PHASE I, II, V Drinking Water Analyses (check analysis)										Subcontract Analyses																				
Date	Time	Client Sample ID / BP Code	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	525.2 SOCs-Pest	531.1 Carbinates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index	(TOC, DOC (Circle))	SUA, UV 254 (Circle)	Cyanide	Gross Alpha/Beta	Radium 226	Radium 228	Radon	Uranium	
3-23	8:01	#11	1																					X						
	8:00	#12	X																											
	8:26	#14	X																											
	8:18	#15	X																											
	8:12	#16 (1,4 Dioxane)	X																											
	8:23	#17	X																											
	8:21	#18	X																											
	8:15	#19	X																											
	8:29	#20	X																											

Instructions:

Relinquished By: *[Signature]* Date/Time: 3-23 11:30am

Received By: *[Signature]* Date/Time: 3-23 11:30am



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Gillette, WY 866.686.7175 • Helena, MT 877.472.071

## ANALYTICAL SUMMARY REPORT

April 06, 2017

Colorado Analytical Laboratories Inc  
PO Drawer 507  
Brighton, CO 80601

Work Order: C17030850 Quote ID: C4542 - 624, 625, 1,4-Dioxane

Project Name: 170324007 Sterling Ranch MD

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 3/28/2017 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C17030850-001	170324007 Sterling Ranch MD	03/23/17 8:03	03/28/17	Groundwater	Azeotropic Distillation Separatory Funnel Liquid-Liquid Ext. Semi-Volatile Organic Compounds 624-Purgeable Organics Volatile Compounds by Azeotropic Distillation

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

  
Randy Horton, Project Manager

Digitally signed by  
Randy Horton

Date: 2017.04.06 16:31:29 -06:00



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

**CLIENT:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD  
**Work Order:** C17030850

**Report Date:** 04/06/17

## **CASE NARRATIVE**

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.



## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD  
**Lab ID:** C17030850-001  
**Client Sample ID:** 170324007 Sterling Ranch MD

**Report Date:** 04/06/17  
**Collection Date:** 03/23/17 08:03  
**Date Received:** 03/28/17  
**Matrix:** Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>VOCS BY AZEOTROPIC DISTILLATION</b>							
1,4-Dioxane	ND	ug/L		1.0		SW8260M	04/06/17 09:34 / eli-b
- Analysis by direct aqueous injection of the sample distillate. A deuterated version of 1,4-Dioxane was added to the sample prior to distillation and used to quantitate the 1,4-Dioxane and account for any variations in the analysis or distillation.							
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Acetone	ND	ug/L		20		E624	03/31/17 16:09 / eli-b
Acetonitrile	ND	ug/L		20		E624	03/31/17 16:09 / eli-b
Acrolein	ND	ug/L		20		E624	03/31/17 16:09 / eli-b
Acrylonitrile	ND	ug/L		20		E624	03/31/17 16:09 / eli-b
Benzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Bromobenzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Bromochloromethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Bromodichloromethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Bromoform	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Bromomethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Carbon disulfide	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Carbon tetrachloride	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Chlorobenzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Chlorodibromomethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Chloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
2-Chloroethyl vinyl ether	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Chloroform	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Chloromethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
2-Chlorotoluene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
4-Chlorotoluene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,2-Dibromoethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Dibromomethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,2-Dichlorobenzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,3-Dichlorobenzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,4-Dichlorobenzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Dichlorodifluoromethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1-Dichloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,2-Dichloroethane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1-Dichloroethene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
cis-1,2-Dichloroethene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
trans-1,2-Dichloroethene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,2-Dichloropropane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,3-Dichloropropane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
2,2-Dichloropropane	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
1,1-Dichloropropene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
cis-1,3-Dichloropropene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
trans-1,3-Dichloropropene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b
Ethylbenzene	ND	ug/L		1.0		E624	03/31/17 16:09 / eli-b

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD  
**Lab ID:** C17030850-001  
**Client Sample ID:** 170324007 Sterling Ranch MD

**Report Date:** 04/06/17  
**Collection Date:** 03/23/17 08:03  
**Date Received:** 03/28/17  
**Matrix:** Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>VOLATILE ORGANIC COMPOUNDS</b>							
Methyl tert-butyl ether (MTBE)	ND	ug/L		2.0	E624		03/31/17 16:09 / eli-b
Methyl ethyl ketone	ND	ug/L		20	E624		03/31/17 16:09 / eli-b
Methyl isobutyl ketone	ND	ug/L		10	E624		03/31/17 16:09 / eli-b
Methylene chloride	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Naphthalene	ND	ug/L		0.50	E624		03/31/17 16:09 / eli-b
Styrene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Tetrachloroethene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,1,1,2-Tetrachloroethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,1,2,2-Tetrachloroethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Toluene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Trichloroethene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,1,1-Trichloroethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,1,2-Trichloroethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Trichlorofluoromethane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
1,2,3-Trichloropropane	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Vinyl Acetate	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Vinyl chloride	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
m+p-Xylenes	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
o-Xylene	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Xylenes, Total	ND	ug/L		1.0	E624		03/31/17 16:09 / eli-b
Surr: 1,2-Dichloroethane-d4	105	%REC		71-139	E624		03/31/17 16:09 / eli-b
Surr: p-Bromofluorobenzene	102	%REC		80-127	E624		03/31/17 16:09 / eli-b
Surr: Toluene-d8	92.0	%REC		80-123	E624		03/31/17 16:09 / eli-b
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
Acenaphthene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Acenaphthylene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Anthracene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Azobenzene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Benzidine	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Benzo(a)anthracene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Benzo(a)pyrene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Benzo(b)fluoranthene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Benzo(g,h,i)perylene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Benzo(k)fluoranthene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
4-Bromophenyl phenyl ether	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Butylbenzylphthalate	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
4-Chloro-3-methylphenol	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
bis(-2-chloroethoxy)Methane	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
bis(-2-chloroethyl)Ether	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
bis(2-chloroisopropyl)Ether	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
2-Chloronaphthalene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
2-Chlorophenol	ND	ug/L		10	E625		03/30/17 17:14 / eli-b

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD  
**Lab ID:** C17030850-001  
**Client Sample ID:** 170324007 Sterling Ranch MD

**Report Date:** 04/06/17  
**Collection Date:** 03/23/17 08:03  
**Date Received:** 03/28/17  
**Matrix:** Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
4-Chlorophenyl phenyl ether	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Chrysene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Diethyl phthalate	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Di-n-butyl phthalate	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
1,2-Dichlorobenzene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
1,3-Dichlorobenzene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
1,4-Dichlorobenzene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
3,3'-Dichlorobenzidine	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
2,4-Dichlorophenol	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Dimethyl phthalate	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Di-n-octyl phthalate	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Dibenzo(a,h)anthracene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
2,4-Dimethylphenol	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
4,6-Dinitro-2-methylphenol	ND	ug/L		50	E625		03/30/17 17:14 / eli-b
2,4-Dinitrophenol	ND	ug/L		50	E625		03/30/17 17:14 / eli-b
2,4-Dinitrotoluene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
2,6-Dinitrotoluene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
bis(2-ethylhexyl)Phthalate	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Fluoranthene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Hexachlorobenzene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Hexachlorobutadiene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Hexachlorocyclopentadiene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Hexachloroethane	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Indeno(1,2,3-cd)pyrene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Isophorone	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
n-Nitrosodimethylamine	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
n-Nitroso-di-n-propylamine	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
n-Nitrosodiphenylamine	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
2-Nitrophenol	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
4-Nitrophenol	ND	ug/L		50	E625		03/30/17 17:14 / eli-b
Naphthalene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Nitrobenzene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Pentachlorophenol	ND	ug/L		50	E625		03/30/17 17:14 / eli-b
Phenanthrene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Phenol	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Pyrene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
1,2,4-Trichlorobenzene	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
2,4,6-Trichlorophenol	ND	ug/L		10	E625		03/30/17 17:14 / eli-b
Surr: 2-Fluorobiphenyl	61.0	%REC		28-107	E625		03/30/17 17:14 / eli-b
Surr: 2-Fluorophenol	39.0	%REC		20-56	E625		03/30/17 17:14 / eli-b
Surr: Nitrobenzene-d5	63.0	%REC		32-94	E625		03/30/17 17:14 / eli-b
Surr: Phenol-d5	27.0	%REC		19-45	E625		03/30/17 17:14 / eli-b

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Colorado Analytical Laboratories Inc  
**Project:** 170324007 Sterling Ranch MD  
**Lab ID:** C17030850-001  
**Client Sample ID:** 170324007 Sterling Ranch MD

**Report Date:** 04/06/17  
**Collection Date:** 03/23/17 08:03  
**Date Received:** 03/28/17  
**Matrix:** Groundwater

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>							
Surr: Terphenyl-d14	70.0	%REC		32-122	E625		03/30/17 17:14 / eli-b
Surr: 2,4,6-Tribromophenol	68.0	%REC		21-130	E625		03/30/17 17:14 / eli-b

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Analytical Run: R277281		
Lab ID: ccv033117	Continuing Calibration Verification Standard						03/31/17 08:45		
Acetone	58.0	ug/L	20	116	70	130			
Acetonitrile	56.4	ug/L	20	113	70	130			
Acrolein	56.4	ug/L	20	113	70	130			
Acrylonitrile	49.6	ug/L	20	99	70	130			
Benzene	5.08	ug/L	0.50	102	70	130			
Bromobenzene	5.04	ug/L	0.50	101	70	130			
Bromochloromethane	5.36	ug/L	0.50	107	70	130			
Bromodichloromethane	4.92	ug/L	0.50	98	70	130			
Bromoform	5.04	ug/L	0.50	101	70	130			
Bromomethane	4.28	ug/L	0.50	86	70	130			
Carbon disulfide	5.32	ug/L	0.50	106	70	130			
Carbon tetrachloride	5.80	ug/L	0.50	116	70	130			
Chlorobenzene	4.56	ug/L	0.50	91	70	130			
Chlorodibromomethane	5.04	ug/L	0.50	101	70	130			
Chloroethane	4.80	ug/L	0.50	96	70	130			
2-Chloroethyl vinyl ether	2.90	ug/L	1.0	58	70	130			S
Chloroform	5.60	ug/L	0.50	112	70	130			
Chloromethane	3.82	ug/L	0.50	76	70	130			
2-Chlorotoluene	5.00	ug/L	0.50	100	70	130			
4-Chlorotoluene	5.44	ug/L	0.50	109	70	130			
1,2-Dibromoethane	4.68	ug/L	0.50	94	70	130			
Dibromomethane	4.96	ug/L	0.50	99	70	130			
1,2-Dichlorobenzene	5.04	ug/L	0.50	101	70	130			
1,3-Dichlorobenzene	5.16	ug/L	0.50	103	70	130			
1,4-Dichlorobenzene	5.00	ug/L	0.50	100	70	130			
Dichlorodifluoromethane	5.20	ug/L	0.50	104	70	130			
1,1-Dichloroethane	4.96	ug/L	0.50	99	70	130			
1,2-Dichloroethane	6.24	ug/L	0.50	125	70	130			
1,1-Dichloroethene	5.12	ug/L	0.50	102	70	130			
cis-1,2-Dichloroethene	4.76	ug/L	0.50	95	70	130			
trans-1,2-Dichloroethene	5.00	ug/L	0.50	100	70	130			
1,2-Dichloropropane	4.88	ug/L	0.50	98	70	130			
1,3-Dichloropropane	4.88	ug/L	0.50	98	70	130			
2,2-Dichloropropane	5.72	ug/L	0.50	114	70	130			
1,1-Dichloropropene	5.44	ug/L	0.50	109	70	130			
cis-1,3-Dichloropropene	4.80	ug/L	0.50	96	70	130			
trans-1,3-Dichloropropene	4.84	ug/L	0.50	97	70	130			
Ethylbenzene	4.88	ug/L	0.50	98	70	130			
Methyl tert-butyl ether (MTBE)	5.20	ug/L	0.50	104	70	130			
Methyl ethyl ketone	54.0	ug/L	20	108	70	130			
Methyl isobutyl ketone	50.4	ug/L	20	101	70	130			
Methylene chloride	5.88	ug/L	0.50	118	70	130			
Naphthalene	5.08	ug/L	0.50	102	70	130			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc

**Report Date:** 04/06/17

**Project:** 170324007 Sterling Ranch MD

**Work Order:** C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E624</b>							Analytical Run: R277281		
<b>Lab ID:</b> ccv033117	Continuing Calibration Verification Standard							03/31/17 08:45	
Styrene	4.52	ug/L	0.50	90	70	130			
Tetrachloroethene	4.68	ug/L	0.50	94	70	130			
1,1,1,2-Tetrachloroethane	4.72	ug/L	0.50	94	70	130			
1,1,2,2-Tetrachloroethane	4.96	ug/L	0.50	99	70	130			
Toluene	4.76	ug/L	0.50	95	70	130			
Trichloroethene	4.92	ug/L	0.50	98	70	130			
1,1,1-Trichloroethane	5.72	ug/L	0.50	114	70	130			
1,1,2-Trichloroethane	4.72	ug/L	0.50	94	70	130			
Trichlorofluoromethane	4.88	ug/L	0.50	98	70	130			
1,2,3-Trichloropropane	5.24	ug/L	0.50	105	70	130			
Vinyl Acetate	5.32	ug/L	1.0	106	70	130			
Vinyl chloride	4.60	ug/L	0.50	92	70	130			
m+p-Xylenes	9.32	ug/L	0.50	93	70	130			
o-Xylene	4.52	ug/L	0.50	90	70	130			
Xylenes, Total	13.8	ug/L	0.50	92	70	130			
Surr: 1,2-Dichloroethane-d4			0.50	107	71	139			
Surr: p-Bromofluorobenzene			0.50	102	80	127			
Surr: Toluene-d8			0.50	91	80	123			
<b>Method: E624</b>							Batch: R277281		
<b>Lab ID:</b> lcs033117	Laboratory Control Sample					Run: 5971A.L_170331A	03/31/17 09:19		
Acetone	56.0	ug/L	20	112	55	144			
Acetonitrile	56.8	ug/L	20	114	54	142			
Acrolein	42.4	ug/L	20	85	16	233			
Acrylonitrile	48.4	ug/L	20	97	76	127			
Benzene	4.92	ug/L	0.50	98	73	122			
Bromobenzene	4.96	ug/L	0.50	99	74	129			
Bromochloromethane	5.16	ug/L	0.50	103	66	120			
Bromodichloromethane	5.16	ug/L	0.50	103	74	128			
Bromoform	5.12	ug/L	0.50	102	66	128			
Bromomethane	4.76	ug/L	0.50	95	51	123			
Carbon disulfide	5.36	ug/L	0.50	107	46	145			
Carbon tetrachloride	5.72	ug/L	0.50	114	75	125			
Chlorobenzene	4.64	ug/L	0.50	93	80	123			
Chlorodibromomethane	5.32	ug/L	0.50	106	74	125			
Chloroethane	4.48	ug/L	0.50	90	59	142			
2-Chloroethyl vinyl ether	2.62	ug/L	1.0	52	36	144			
Chloroform	5.52	ug/L	0.50	110	68	124			
Chloromethane	3.77	ug/L	0.50	75	53	146			
2-Chlorotoluene	5.08	ug/L	0.50	102	75	131			
4-Chlorotoluene	5.36	ug/L	0.50	107	74	129			
1,2-Dibromoethane	4.64	ug/L	0.50	93	76	124			
Dibromomethane	5.16	ug/L	0.50	103	77	125			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Batch: R277281		
Lab ID: lcs033117	Laboratory Control Sample				Run: 5971A.I_170331A		03/31/17 09:19		
1,2-Dichlorobenzene	4.96	ug/L	0.50	99	74	124			
1,3-Dichlorobenzene	5.12	ug/L	0.50	102	77	122			
1,4-Dichlorobenzene	4.96	ug/L	0.50	99	76	126			
Dichlorodifluoromethane	5.60	ug/L	0.50	112	56	146			
1,1-Dichloroethane	4.72	ug/L	0.50	94	74	133			
1,2-Dichloroethane	5.76	ug/L	0.50	115	75	129			
1,1-Dichloroethene	5.16	ug/L	0.50	103	74	132			
cis-1,2-Dichloroethene	4.88	ug/L	0.50	98	81	122			
trans-1,2-Dichloroethene	5.12	ug/L	0.50	102	79	143			
1,2-Dichloropropane	4.60	ug/L	0.50	92	75	126			
1,3-Dichloropropane	4.68	ug/L	0.50	94	71	136			
2,2-Dichloropropane	5.68	ug/L	0.50	114	68	142			
1,1-Dichloropropene	5.00	ug/L	0.50	100	70	131			
cis-1,3-Dichloropropene	4.40	ug/L	0.50	88	74	135			
trans-1,3-Dichloropropene	4.84	ug/L	0.50	97	76	149			
Ethylbenzene	4.96	ug/L	0.50	99	72	130			
Methyl tert-butyl ether (MTBE)	5.12	ug/L	0.50	102	72	120			
Methyl ethyl ketone	52.0	ug/L	20	104	45	130			
Methyl isobutyl ketone	50.8	ug/L	20	102	58	135			
Methylene chloride	6.08	ug/L	0.50	122	66	142			
Naphthalene	5.60	ug/L	0.50	112	69	124			
Styrene	4.56	ug/L	0.50	91	80	124			
Tetrachloroethene	4.72	ug/L	0.50	94	72	131			
1,1,1,2-Tetrachloroethane	4.64	ug/L	0.50	93	78	124			
1,1,2,2-Tetrachloroethane	4.76	ug/L	0.50	95	68	137			
Toluene	4.76	ug/L	0.50	95	72	135			
Trichloroethene	4.80	ug/L	0.50	96	85	126			
1,1,1-Trichloroethane	5.40	ug/L	0.50	108	63	120			
1,1,2-Trichloroethane	4.48	ug/L	0.50	90	78	124			
Trichlorofluoromethane	4.52	ug/L	0.50	90	72	120			
1,2,3-Trichloropropane	4.68	ug/L	0.50	94	64	138			
Vinyl Acetate	4.76	ug/L	1.0	95	31	124			
Vinyl chloride	4.76	ug/L	0.50	95	58	140			
m+p-Xylenes	9.08	ug/L	0.50	91	67	139			
o-Xylene	4.48	ug/L	0.50	90	74	135			
Xylenes, Total	13.6	ug/L	0.50	90	70	137			
Surr: 1,2-Dichloroethane-d4			0.50	109	71	139			
Surr: p-Bromofluorobenzene			0.50	102	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Lab ID: blk033117	Method Blank				Run: 5971A.I_170331A		03/31/17 10:16		
Acetone	ND	ug/L	20						
Acetonitrile	ND	ug/L	20						

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc

**Report Date:** 04/06/17

**Project:** 170324007 Sterling Ranch MD

**Work Order:** C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E624</b>									Batch: R277281
<b>Lab ID: blk033117</b>	<b>Method Blank</b>								Run: 5971A.I_170331A 03/31/17 10:18
Acrolein	ND	ug/L	20						
Acrylonitrile	ND	ug/L	20						
Benzene	ND	ug/L	0.50						
Bromobenzene	ND	ug/L	0.50						
Bromochloromethane	ND	ug/L	0.50						
Bromodichloromethane	ND	ug/L	0.50						
Bromoform	ND	ug/L	0.50						
Bromomethane	ND	ug/L	0.50						
Carbon disulfide	ND	ug/L	0.50						
Carbon tetrachloride	ND	ug/L	0.50						
Chlorobenzene	ND	ug/L	0.50						
Chlorodibromomethane	ND	ug/L	0.50						
Chloroethane	ND	ug/L	0.50						
2-Chloroethyl vinyl ether	ND	ug/L	1.0						
Chloroform	ND	ug/L	0.50						
Chloromethane	ND	ug/L	0.50						
2-Chlorotoluene	ND	ug/L	0.50						
4-Chlorotoluene	ND	ug/L	0.50						
1,2-Dibromoethane	ND	ug/L	0.50						
Dibromomethane	ND	ug/L	0.50						
1,2-Dichlorobenzene	ND	ug/L	0.50						
1,3-Dichlorobenzene	ND	ug/L	0.50						
1,4-Dichlorobenzene	ND	ug/L	0.50						
Dichlorodifluoromethane	ND	ug/L	0.50						
1,1-Dichloroethane	ND	ug/L	0.50						
1,2-Dichloroethane	ND	ug/L	0.50						
1,1-Dichloroethene	ND	ug/L	0.50						
cis-1,2-Dichloroethene	ND	ug/L	0.50						
trans-1,2-Dichloroethene	ND	ug/L	0.50						
1,2-Dichloropropane	ND	ug/L	0.50						
1,3-Dichloropropane	ND	ug/L	0.50						
2,2-Dichloropropane	ND	ug/L	0.50						
1,1-Dichloropropene	ND	ug/L	0.50						
cis-1,3-Dichloropropene	ND	ug/L	0.50						
trans-1,3-Dichloropropene	ND	ug/L	0.50						
Ethylbenzene	ND	ug/L	0.50						
Methyl tert-butyl ether (MTBE)	ND	ug/L	0.50						
Methyl ethyl ketone	ND	ug/L	20						
Methyl isobutyl ketone	ND	ug/L	20						
Methylene chloride	ND	ug/L	0.50						
Naphthalene	ND	ug/L	0.50						
Styrene	ND	ug/L	0.50						
Tetrachloroethene	ND	ug/L	0.50						

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Batch: R277281		
Lab ID: blk033117	Method Blank		Run: 5971A.I_170331A				03/31/17 10:18		
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
Trichloroethene	ND	ug/L	0.50						
1,1,1-Trichloroethane	ND	ug/L	0.50						
1,1,2-Trichloroethane	ND	ug/L	0.50						
Trichlorofluoromethane	ND	ug/L	0.50						
1,2,3-Trichloropropane	ND	ug/L	0.50						
Vinyl Acetate	ND	ug/L	1.0						
Vinyl chloride	ND	ug/L	0.50						
m+p-Xylenes	ND	ug/L	0.50						
o-Xylene	ND	ug/L	0.50						
Xylenes, Total	ND	ug/L	0.50						
Surr: 1,2-Dichloroethane-d4			0.50	105	71	139			
Surr: p-Bromofluorobenzene			0.50	104	80	127			
Surr: Toluene-d8			0.50	92	80	123			
Lab ID: b17031875-001dms	Sample Matrix Spike		Run: 5971A.I_170331A				03/31/17 14:12		
Acetone	378	ug/L	100	109	55	144			
Acetonitrile	274	ug/L	100	110	54	142			
Benzene	24.6	ug/L	2.5	98	73	122			
Bromobenzene	24.8	ug/L	2.5	99	74	129			
Bromochloromethane	25.2	ug/L	2.5	101	66	120			
Bromodichloromethane	26.2	ug/L	2.5	105	74	128			
Bromoform	27.0	ug/L	2.5	108	66	128			
Bromomethane	18.8	ug/L	2.5	75	51	123			
Carbon disulfide	26.4	ug/L	2.5	106	46	145			
Carbon tetrachloride	28.2	ug/L	2.5	113	75	125			
Chlorobenzene	22.8	ug/L	2.5	91	80	123			
Chlorodibromomethane	26.8	ug/L	2.5	107	74	125			
Chloroethane	20.2	ug/L	2.5	81	59	142			
Chloroform	33.2	ug/L	2.5	110	68	124			
Chloromethane	18.6	ug/L	2.5	74	53	146			
2-Chlorotoluene	24.8	ug/L	2.5	99	75	131			
4-Chlorotoluene	25.8	ug/L	2.5	103	74	129			
1,2-Dibromoethane	24.0	ug/L	2.5	96	76	124			
Dibromomethane	26.2	ug/L	2.5	105	77	125			
1,2-Dichlorobenzene	24.6	ug/L	2.5	98	74	124			
1,3-Dichlorobenzene	24.6	ug/L	2.5	98	77	122			
1,4-Dichlorobenzene	24.6	ug/L	2.5	98	76	126			
Dichlorodifluoromethane	27.0	ug/L	2.5	108	56	146			
1,1-Dichloroethane	24.2	ug/L	2.5	97	74	133			
1,2-Dichloroethane	29.2	ug/L	2.5	117	75	129			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624							Batch: R277281		
Lab ID: b17031875-001dms	Sample Matrix Spike		Run: 5971A.I_170331A				03/31/17 14:12		
1,1-Dichloroethene	26.6	ug/L	2.5	106	74	132			
cis-1,2-Dichloroethene	24.4	ug/L	2.5	98	81	122			
trans-1,2-Dichloroethene	25.8	ug/L	2.5	103	79	143			
1,2-Dichloropropane	23.0	ug/L	2.5	92	75	126			
1,3-Dichloropropane	22.4	ug/L	2.5	90	71	136			
2,2-Dichloropropane	28.0	ug/L	2.5	112	68	142			
1,1-Dichloropropene	25.2	ug/L	2.5	101	70	131			
cis-1,3-Dichloropropene	22.2	ug/L	2.5	89	74	135			
trans-1,3-Dichloropropene	24.6	ug/L	2.5	98	76	149			
Ethylbenzene	23.6	ug/L	2.5	94	72	130			
Methyl tert-butyl ether (MTBE)	25.6	ug/L	2.5	102	72	120			
Methyl ethyl ketone	268	ug/L	100	107	45	130			
Methyl isobutyl ketone	258	ug/L	100	103	58	135			
Methylene chloride	32.2	ug/L	2.5	129	66	142			
Naphthalene	27.6	ug/L	2.5	110	69	124			
Styrene	22.4	ug/L	2.5	90	80	124			
Tetrachloroethene	22.8	ug/L	2.5	91	72	131			
1,1,1,2-Tetrachloroethane	23.0	ug/L	2.5	92	78	124			
1,1,2,2-Tetrachloroethane	26.0	ug/L	2.5	104	68	137			
Toluene	24.4	ug/L	2.5	95	72	135			
Trichloroethene	23.8	ug/L	2.5	95	85	126			
1,1,1-Trichloroethane	26.8	ug/L	2.5	107	63	120			
1,1,2-Trichloroethane	23.4	ug/L	2.5	94	78	124			
Trichlorofluoromethane	21.2	ug/L	2.5	85	72	120			
1,2,3-Trichloropropane	26.2	ug/L	2.5	105	64	138			
Vinyl Acetate	24.4	ug/L	5.0	98	31	124			
Vinyl chloride	22.6	ug/L	2.5	90	58	140			
m+p-Xylenes	44.8	ug/L	2.5	90	67	139			
o-Xylene	22.6	ug/L	2.5	90	74	135			
Xylenes, Total	67.4	ug/L	2.5	90	70	137			
Surr: 1,2-Dichloroethane-d4			2.5	110	71	139			
Surr: p-Bromofluorobenzene			2.5	102	80	127			
Surr: Toluene-d8			2.5	93	80	123			
Lab ID: b17031875-001dmsd	Sample Matrix Spike Duplicate		Run: 5971A.I_170331A				03/31/17 15:11		
Acetone	410	ug/L	100	122	55	144	8.1	20	
Acetonitrile	262	ug/L	100	105	54	142	4.5	20	
Benzene	25.0	ug/L	2.5	100	73	122	1.6	20	
Bromobenzene	25.6	ug/L	2.5	102	74	129	3.2	20	
Bromochloromethane	25.2	ug/L	2.5	101	66	120	0.0	20	
Bromodichloromethane	27.2	ug/L	2.5	109	74	128	3.7	20	
Bromoform	28.4	ug/L	2.5	114	66	128	5.1	20	
Bromomethane	20.8	ug/L	2.5	83	51	123	10	20	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R277281
Lab ID: b17031875-001dmsd	Sample Matrix Spike Duplicate		Run: 5971A.I_170331A						03/31/17 15:11
Carbon disulfide	25.6	ug/L	2.5	102	46	145	3.1	20	
Carbon tetrachloride	28.6	ug/L	2.5	114	75	125	1.4	20	
Chlorobenzene	23.6	ug/L	2.5	94	80	123	3.4	20	
Chlorodibromomethane	28.0	ug/L	2.5	112	74	125	4.4	20	
Chloroethane	20.6	ug/L	2.5	82	59	142	2.0	20	
Chloroform	33.6	ug/L	2.5	111	68	124	1.2	20	
Chloromethane	19.3	ug/L	2.5	77	53	146	3.8	20	
2-Chlorotoluene	26.4	ug/L	2.5	106	75	131	6.2	20	
4-Chlorotoluene	27.2	ug/L	2.5	109	74	129	5.3	20	
1,2-Dibromoethane	24.0	ug/L	2.5	96	76	124	0.0	20	
Dibromomethane	26.8	ug/L	2.5	107	77	125	2.3	20	
1,2-Dichlorobenzene	25.8	ug/L	2.5	103	74	124	4.8	20	
1,3-Dichlorobenzene	26.0	ug/L	2.5	104	77	122	5.5	20	
1,4-Dichlorobenzene	25.4	ug/L	2.5	102	76	126	3.2	20	
Dichlorodifluoromethane	25.8	ug/L	2.5	103	56	146	4.5	20	
1,1-Dichloroethane	24.8	ug/L	2.5	99	74	133	2.4	20	
1,2-Dichloroethane	29.2	ug/L	2.5	117	75	129	0.0	20	
1,1-Dichloroethene	26.8	ug/L	2.5	107	74	132	0.7	20	
cis-1,2-Dichloroethene	25.2	ug/L	2.5	101	81	122	3.2	20	
trans-1,2-Dichloroethene	26.4	ug/L	2.5	106	79	143	2.3	20	
1,2-Dichloropropane	23.6	ug/L	2.5	94	75	126	2.6	20	
1,3-Dichloropropane	23.8	ug/L	2.5	95	71	136	6.1	20	
2,2-Dichloropropane	28.6	ug/L	2.5	114	68	142	2.1	20	
1,1-Dichloropropene	25.8	ug/L	2.5	103	70	131	2.4	20	
cis-1,3-Dichloropropene	23.2	ug/L	2.5	93	74	135	4.4	20	
trans-1,3-Dichloropropene	25.4	ug/L	2.5	102	76	149	3.2	20	
Ethylbenzene	25.0	ug/L	2.5	100	72	130	5.8	20	
Methyl tert-butyl ether (MTBE)	26.6	ug/L	2.5	106	72	120	3.8	20	
Methyl ethyl ketone	292	ug/L	100	117	45	130	8.6	20	
Methyl isobutyl ketone	286	ug/L	100	114	58	135	10	20	
Methylene chloride	31.4	ug/L	2.5	126	66	142	2.5	20	
Naphthalene	27.8	ug/L	2.5	111	69	124	0.7	20	
Styrene	22.8	ug/L	2.5	91	80	124	1.8	20	
Tetrachloroethene	23.8	ug/L	2.5	95	72	131	4.3	20	
1,1,1,2-Tetrachloroethane	23.2	ug/L	2.5	93	78	124	0.9	20	
1,1,2,2-Tetrachloroethane	27.4	ug/L	2.5	110	68	137	5.2	20	
Toluene	24.4	ug/L	2.5	95	72	135	0.0	20	
Trichloroethene	25.0	ug/L	2.5	100	85	126	4.9	20	
1,1,1-Trichloroethane	27.4	ug/L	2.5	110	63	120	2.2	20	
1,1,2-Trichloroethane	24.8	ug/L	2.5	99	78	124	5.8	20	
Trichlorofluoromethane	22.4	ug/L	2.5	90	72	120	5.5	20	
1,2,3-Trichloropropane	26.8	ug/L	2.5	107	64	138	2.3	20	
Vinyl Acetate	24.4	ug/L	5.0	98	31	124	0.0	20	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc

**Report Date:** 04/06/17

**Project:** 170324007 Sterling Ranch MD

**Work Order:** C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E624</b>									<b>Batch: R277281</b>
<b>Lab ID: b17031875-001dmsd</b>	<b>Sample Matrix Spike Duplicate</b>		<b>Run: 5971A.I_170331A</b>						<b>03/31/17 15:11</b>
Vinyl chloride	22.8	ug/L	2.5	91	58	140	0.9	20	
m+p-Xylenes	46.0	ug/L	2.5	92	67	139	2.6	20	
o-Xylene	23.4	ug/L	2.5	94	74	135	3.5	20	
Xylenes, Total	69.4	ug/L	2.5	93	70	137			
Surr: 1,2-Dichloroethane-d4			2.5	112	71	139			
Surr: p-Bromofluorobenzene			2.5	105	80	127			
Surr: Toluene-d8			2.5	93	80	123			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc

**Report Date:** 04/06/17

**Project:** 170324007 Sterling Ranch MD

**Work Order:** C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>									Batch: 107942
<b>Lab ID: MB-107942</b>	<b>Method Blank</b>			<b>Run: SV5973N2.I_170330B</b>				<b>03/30/17 16:12</b>	
Acenaphthene	ND	ug/L	10						
Acenaphthylene	ND	ug/L	10						
Anthracene	ND	ug/L	10						
Azobenzene	ND	ug/L	10						
Benzidine	ND	ug/L	10						
Benzo(a)anthracene	ND	ug/L	10						
Benzo(a)pyrene	ND	ug/L	10						
Benzo(b)fluoranthene	ND	ug/L	10						
Benzo(g,h,i)perylene	ND	ug/L	10						
Benzo(k)fluoranthene	ND	ug/L	10						
4-Bromophenyl phenyl ether	ND	ug/L	10						
Butylbenzylphthalate	ND	ug/L	10						
4-Chloro-3-methylphenol	ND	ug/L	10						
bis(-2-chloroethoxy)Methane	ND	ug/L	10						
bis(-2-chloroethyl)Ether	ND	ug/L	10						
bis(2-chloroisopropyl)Ether	ND	ug/L	10						
2-Chloronaphthalene	ND	ug/L	10						
2-Chlorophenol	ND	ug/L	10						
4-Chlorophenyl phenyl ether	ND	ug/L	10						
Chrysene	ND	ug/L	10						
Diethyl phthalate	ND	ug/L	10						
Di-n-butyl phthalate	ND	ug/L	10						
1,2-Dichlorobenzene	ND	ug/L	10						
1,3-Dichlorobenzene	ND	ug/L	10						
1,4-Dichlorobenzene	ND	ug/L	10						
3,3'-Dichlorobenzidine	ND	ug/L	10						
2,4-Dichlorophenol	ND	ug/L	10						
Dimethyl phthalate	ND	ug/L	10						
Di-n-octyl phthalate	ND	ug/L	10						
Dibenzo(a,h)anthracene	ND	ug/L	10						
2,4-Dimethylphenol	ND	ug/L	10						
4,6-Dinitro-2-methylphenol	ND	ug/L	50						
2,4-Dinitrophenol	ND	ug/L	50						
2,4-Dinitrotoluene	ND	ug/L	10						
2,6-Dinitrotoluene	ND	ug/L	10						
bis(2-ethylhexyl)Phthalate	ND	ug/L	10						
Fluoranthene	ND	ug/L	10						
Fluorene	ND	ug/L	10						
Hexachlorobenzene	ND	ug/L	10						
Hexachlorobutadiene	ND	ug/L	10						
Hexachlorocyclopentadiene	ND	ug/L	10						
Hexachloroethane	ND	ug/L	10						
Indeno(1,2,3-cd)pyrene	ND	ug/L	10						

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>									Batch: 107942
<b>Lab ID: MB-107942</b>	<b>Method Blank</b>						<b>Run: SV5973N2.I_170330B</b>		03/30/17 16:12
Isophorone	ND	ug/L	10						
n-Nitrosodimethylamine	ND	ug/L	10						
n-Nitroso-di-n-propylamine	ND	ug/L	10						
n-Nitrosodiphenylamine	ND	ug/L	10						
2-Nitrophenol	ND	ug/L	10						
4-Nitrophenol	ND	ug/L	50						
Naphthalene	ND	ug/L	10						
Nitrobenzene	ND	ug/L	10						
Pentachlorophenol	ND	ug/L	50						
Phenanthrene	ND	ug/L	10						
Phenol	ND	ug/L	10						
Pyrene	ND	ug/L	10						
1,2,4-Trichlorobenzene	ND	ug/L	10						
2,4,6-Trichlorophenol	ND	ug/L	10						
Surr: 2-Fluorobiphenyl			10	57	28	107			
Surr: 2-Fluorophenol			10	42	20	56			
Surr: Nitrobenzene-d5			10	62	32	94			
Surr: Phenol-d5			10	30	19	45			
Surr: Terphenyl-d14			10	80	32	122			
Surr: 2,4,6-Tribromophenol			10	68	21	130			
<b>Lab ID: LCS-107942</b>	<b>Laboratory Control Sample</b>						<b>Run: SV5973N2.I_170330B</b>		03/30/17 16:43
Acenaphthene	89.1	ug/L	10	89	58	99			
Acenaphthylene	84.2	ug/L	10	84	57	96			
Anthracene	75.6	ug/L	10	76	60	107			
Azobenzene	78.0	ug/L	10	78	56	100			
Benzidine	53.1	ug/L	10	53	10	100			
Benzo(a)anthracene	86.4	ug/L	10	86	62	114			
Benzo(a)pyrene	84.7	ug/L	10	85	62	108			
Benzo(b)fluoranthene	89.8	ug/L	10	90	48	127			
Benzo(g,h,i)perylene	87.2	ug/L	10	87	62	121			
Benzo(k)fluoranthene	84.0	ug/L	10	84	55	111			
4-Bromophenyl phenyl ether	87.1	ug/L	10	87	58	105			
Butylbenzylphthalate	90.8	ug/L	10	91	60	113			
4-Chloro-3-methylphenol	74.6	ug/L	10	75	53	92			
bis(2-chloroethoxy)Methane	69.9	ug/L	10	70	50	92			
bis(2-chloroethyl)Ether	72.1	ug/L	10	72	44	82			
bis(2-chloroisopropyl)Ether	63.2	ug/L	10	63	56	87			
2-Chloronaphthalene	84.9	ug/L	10	85	56	95			
2-Chlorophenol	67.2	ug/L	10	67	47	76			
4-Chlorophenyl phenyl ether	83.0	ug/L	10	83	58	99			
Chrysene	87.0	ug/L	10	87	63	106			
Diethyl phthalate	84.6	ug/L	10	85	58	103			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batch: 107942		
Lab ID: LCS-107942	Laboratory Control Sample					Run: SV5973N2.I_170330B	03/30/17 16:43		
Di-n-butyl phthalate	87.1	ug/L	10	87	61	110			
1,2-Dichlorobenzene	69.3	ug/L	10	69	43	81			
1,3-Dichlorobenzene	64.0	ug/L	10	64	41	79			
1,4-Dichlorobenzene	64.5	ug/L	10	64	42	79			
3,3'-Dichlorobenzidine	64.8	ug/L	10	65	51	93			
2,4-Dichlorophenol	70.6	ug/L	10	71	49	90			
Dimethyl phthalate	82.5	ug/L	10	82	58	104			
Di-n-octyl phthalate	93.4	ug/L	10	93	56	110			
Dibenzo(a,h)anthracene	87.8	ug/L	10	88	61	111			
2,4-Dimethylphenol	66.2	ug/L	10	66	45	89			
4,6-Dinitro-2-methylphenol	66.1	ug/L	50	66	37	105			
2,4-Dinitrophenol	54.1	ug/L	50	54	27	81			
2,4-Dinitrotoluene	86.2	ug/L	10	86	63	110			
2,6-Dinitrotoluene	77.2	ug/L	10	77	60	107			
bis(2-ethylhexyl)Phthalate	86.0	ug/L	10	86	56	108			
Fluoranthene	84.2	ug/L	10	84	63	110			
Fluorene	89.3	ug/L	10	89	60	99			
Hexachlorobenzene	82.7	ug/L	10	83	57	103			
Hexachlorobutadiene	71.7	ug/L	10	72	39	83			
Hexachlorocyclopentadiene	81.0	ug/L	10	81	39	91			
Hexachloroethane	65.0	ug/L	10	65	37	75			
Indeno(1,2,3-cd)pyrene	83.2	ug/L	10	83	59	109			
Isophorone	69.8	ug/L	10	70	42	102			
n-Nitrosodimethylamine	36.8	ug/L	10	37	20	45			
n-Nitroso-di-n-propylamine	76.6	ug/L	10	77	49	98			
n-Nitrosodiphenylamine	91.5	ug/L	10	92	61	108			
2-Nitrophenol	72.3	ug/L	10	72	51	96			
4-Nitrophenol	27.4	ug/L	50	27	15	36			
Naphthalene	68.1	ug/L	10	68	48	96			
Nitrobenzene	77.9	ug/L	10	78	51	91			
Pentachlorophenol	72.4	ug/L	50	72	53	109			
Phenanthrene	82.0	ug/L	10	82	58	104			
Phenol	40.6	ug/L	10	41	27	45			
Pyrene	85.0	ug/L	10	85	64	108			
1,2,4-Trichlorobenzene	71.2	ug/L	10	71	49	85			
2,4,6-Trichlorophenol	73.9	ug/L	10	74	47	99			
Surr: 2-Fluorobiphenyl			10	69	28	107			
Surr: 2-Fluorophenol			10	42	20	56			
Surr: Nitrobenzene-d5			10	72	32	94			
Surr: Phenol-d5			10	36	19	45			
Surr: Terphenyl-d14			10	80	32	122			
Surr: 2,4,6-Tribromophenol			10	70	21	130			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc

**Report Date:** 04/06/17

**Project:** 170324007 Sterling Ranch MD

**Work Order:** C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>							Batch: 107942		
<b>Lab ID: C17030850-001CMS</b>	<b>Sample Matrix Spike</b>		<b>Run: SV5973N2.I_170330B</b>				<b>03/30/17 17:45</b>		
Acenaphthene	86.7	ug/L	10	87	58	99			
Acenaphthylene	75.5	ug/L	10	76	57	96			
Anthracene	81.6	ug/L	10	82	60	107			
Azobenzene	84.6	ug/L	10	85	56	100			
Benzidine	122	ug/L	20	122	10	100			S
Benzo(a)anthracene	83.4	ug/L	10	83	62	114			
Benzo(a)pyrene	78.4	ug/L	10	78	62	108			
Benzo(b)fluoranthene	79.9	ug/L	10	80	48	127			
Benzo(g,h,i)perylene	83.2	ug/L	10	83	62	121			
Benzo(k)fluoranthene	84.5	ug/L	10	84	55	111			
4-Bromophenyl phenyl ether	79.5	ug/L	10	79	58	105			
Butylbenzylphthalate	89.2	ug/L	10	89	60	113			
4-Chloro-3-methylphenol	78.3	ug/L	10	78	53	92			
bis(-2-chloroethoxy)Methane	77.9	ug/L	10	78	50	92			
bis(-2-chloroethyl)Ether	71.5	ug/L	10	71	44	82			
bis(2-chloroisopropyl)Ether	58.4	ug/L	10	58	56	87			
2-Chloronaphthalene	77.6	ug/L	10	78	56	95			
2-Chlorophenol	63.7	ug/L	10	64	47	76			
4-Chlorophenyl phenyl ether	81.0	ug/L	10	81	58	99			
Chrysene	85.9	ug/L	10	86	63	106			
Diethyl phthalate	84.0	ug/L	10	84	58	103			
Di-n-butyl phthalate	87.0	ug/L	10	87	61	110			
1,2-Dichlorobenzene	67.3	ug/L	10	67	43	81			
1,3-Dichlorobenzene	66.0	ug/L	10	66	41	79			
1,4-Dichlorobenzene	66.7	ug/L	10	67	42	79			
3,3'-Dichlorobenzidine	131	ug/L	10	131	51	93			S
2,4-Dichlorophenol	70.0	ug/L	10	70	49	90			
Dimethyl phthalate	79.3	ug/L	10	79	58	104			
Di-n-octyl phthalate	81.8	ug/L	10	82	56	110			
Dibenzo(a,h)anthracene	80.1	ug/L	10	80	61	111			
2,4-Dimethylphenol	70.7	ug/L	10	71	45	87			
4,6-Dinitro-2-methylphenol	53.1	ug/L	50	53	37	105			
2,4-Dinitrophenol	43.0	ug/L	50	43	27	81			
2,4-Dinitrotoluene	85.6	ug/L	10	86	63	110			
2,6-Dinitrotoluene	81.5	ug/L	10	81	60	107			
bis(2-ethylhexyl)Phthalate	77.5	ug/L	10	77	56	108			
Fluoranthene	84.0	ug/L	10	84	63	110			
Fluorene	80.0	ug/L	10	80	60	99			
Hexachlorobenzene	78.2	ug/L	10	78	57	103			
Hexachlorobutadiene	69.1	ug/L	10	69	39	83			
Hexachlorocyclopentadiene	69.0	ug/L	10	69	39	91			
Hexachloroethane	62.6	ug/L	10	63	37	75			
Indeno(1,2,3-cd)pyrene	76.3	ug/L	10	76	59	109			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.



## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Batch: 107942		
Lab ID: C17030850-001CMS	Sample Matrix Spike		Run: SV5973N2.I_170330B				03/30/17 17:45		
Isophorone	71.4	ug/L	10	71	42	102			
n-Nitrosodimethylamine	26.1	ug/L	10	26	20	45			
n-Nitroso-di-n-propylamine	76.1	ug/L	10	76	49	98			
n-Nitrosodiphenylamine	105	ug/L	10	105	61	108			
2-Nitrophenol	73.5	ug/L	10	74	51	96			
4-Nitrophenol	25.8	ug/L	50	26	15	36			
Naphthalene	75.6	ug/L	10	76	48	96			
Nitrobenzene	75.6	ug/L	10	76	51	91			
Pentachlorophenol	60.3	ug/L	50	60	53	109			
Phenanthrene	83.8	ug/L	10	84	58	104			
Phenol	38.7	ug/L	10	39	27	45			
Pyrene	87.0	ug/L	10	87	64	108			
1,2,4-Trichlorobenzene	74.7	ug/L	10	75	49	85			
2,4,6-Trichlorophenol	68.8	ug/L	10	69	47	99			
Surr: 2-Fluorobiphenyl			10	51	28	107			
Surr: 2-Fluorophenol			10	41	20	56			
Surr: Nitrobenzene-d5			10	64	32	94			
Surr: Phenol-d5			10	33	19	45			
Surr: Terphenyl-d14			10	73	32	122			
Surr: 2,4,6-Tribromophenol			10	67	21	130			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc

**Report Date:** 04/06/17

**Project:** 170324007 Sterling Ranch MD

**Work Order:** C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E625</b>							Analytical Run: R277253		
<b>Lab ID: 30-Mar-17_CCV_11</b>	Continuing Calibration Verification Standard						03/30/17 15:40		
Acenaphthene	75.3	ug/L	10	100	80	120			
Acenaphthylene	79.7	ug/L	10	106	80	120			
Anthracene	75.2	ug/L	10	100	80	120			
Azobenzene	75.1	ug/L	10	100	80	120			
Benzidine	70.6	ug/L	10	94	80	120			
Benzo(a)anthracene	76.3	ug/L	10	102	80	120			
Benzo(a)pyrene	81.9	ug/L	10	109	80	120			
Benzo(b)fluoranthene	78.3	ug/L	10	104	80	120			
Benzo(g,h,i)perylene	78.0	ug/L	10	104	80	120			
Benzo(k)fluoranthene	81.6	ug/L	10	109	80	120			
4-Bromophenyl phenyl ether	81.6	ug/L	10	109	80	120			
Butylbenzylphthalate	78.0	ug/L	10	104	80	120			
4-Chloro-3-methylphenol	76.0	ug/L	10	101	80	120			
bis-(2-chloroethoxy)Methane	70.4	ug/L	10	94	80	120			
bis-(2-chloroethyl)Ether	77.2	ug/L	10	103	80	120			
bis(2-chloroisopropyl) Ether	76.7	ug/L	10	102	80	120			
2-Chloronaphthalene	79.8	ug/L	10	106	80	120			
2-Chlorophenol	72.7	ug/L	10	97	80	120			
4-Chlorophenyl phenyl ether	72.7	ug/L	10	97	80	120			
Chrysene	74.9	ug/L	10	100	80	120			
Diethyl phthalate	76.8	ug/L	10	102	80	120			
Di-n-butyl phthalate	76.9	ug/L	10	102	80	120			
1,2-Dichlorobenzene	76.8	ug/L	10	102	80	120			
1,3-Dichlorobenzene	72.1	ug/L	10	96	80	120			
1,4-Dichlorobenzene	74.8	ug/L	10	100	80	120			
3,3'-Dichlorobenzidine	76.2	ug/L	10	102	80	120			
2,4-Dichlorophenol	73.5	ug/L	10	98	80	120			
Dimethyl phthalate	77.0	ug/L	10	103	80	120			
Di-n-octyl phthalate	81.2	ug/L	10	108	80	120			
Dibenzo(a,h)anthracene	76.2	ug/L	10	102	80	120			
2,4-Dimethylphenol	70.3	ug/L	10	94	80	120			
4,6-Dinitro-2-methylphenol	77.4	ug/L	50	103	80	120			
2,4-Dinitrophenol	80.2	ug/L	50	107	80	120			
2,4-Dinitrotoluene	79.8	ug/L	10	106	80	120			
2,6-Dinitrotoluene	80.8	ug/L	10	108	80	120			
bis(2-ethylhexyl)Phthalate	77.3	ug/L	10	103	80	120			
Fluoranthene	76.8	ug/L	10	102	80	120			
Fluorene	82.8	ug/L	10	110	80	120			
Hexachlorobenzene	74.2	ug/L	10	99	80	120			
Hexachlorobutadiene	73.0	ug/L	10	97	80	120			
Hexachlorocyclopentadiene	79.2	ug/L	10	106	80	120			
Hexachloroethane	74.4	ug/L	10	99	80	120			
Indeno(1,2,3-cd)pyrene	73.3	ug/L	10	98	80	120			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



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Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

## QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E625							Analytical Run: R277253		
Lab ID: 30-Mar-17_CCV_11	Continuing Calibration Verification Standard							03/30/17 15:40	
Isophorone	71.5	ug/L	10	95	80	120			
n-Nitrosodimethylamine	79.5	ug/L	10	106	80	120			
n-Nitroso-di-n-propylamine	76.0	ug/L	10	101	80	120			
n-Nitrosodiphenylamine	77.5	ug/L	10	103	80	120			
2-Nitrophenol	74.6	ug/L	10	99	80	120			
4-Nitrophenol	72.4	ug/L	50	97	80	120			
Naphthalene	68.4	ug/L	10	91	80	120			
Nitrobenzene	77.1	ug/L	10	103	80	120			
Pentachlorophenol	71.7	ug/L	50	96	80	120			
Phenanthrene	70.9	ug/L	10	95	80	120			
Phenol	79.0	ug/L	10	105	80	120			
Pyrene	79.0	ug/L	10	105	80	120			
1,2,4-Trichlorobenzene	73.1	ug/L	10	98	80	120			
2,4,6-Trichlorophenol	71.0	ug/L	10	95	80	120			
Surr: 2-Fluorobiphenyl			10	108	80	120			
Surr: 2-Fluorophenol			10	105	80	120			
Surr: Nitrobenzene-d5			10	101	80	120			
Surr: Phenol-d5			10	102	80	120			
Surr: Terphenyl-d14			10	104	80	120			
Surr: 2,4,6-Tribromophenol			10	105	80	120			

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Colorado Analytical Laboratories Inc

**Report Date:** 04/06/17

**Project:** 170324007 Sterling Ranch MD

**Work Order:** C17030850

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> SW8260M							Analytical Run: 108173		
<b>Lab ID:</b> CCV-108173	Continuing Calibration Verification Standard								04/06/17 08:29
1,4-Dioxane	95.7	ug/L	1.0	96	80	120			
<b>Method:</b> SW8260M							Batch: 108173		
<b>Lab ID:</b> LCS-108173	Laboratory Control Sample								04/06/17 08:51
1,4-Dioxane	87.5	ug/L	1.0	88	70	130			
<b>Lab ID:</b> MB-108173	Method Blank								04/06/17 09:12
1,4-Dioxane	ND	ug/L	1.0						
<b>Lab ID:</b> C17030850-001AMS	Sample Matrix Spike								04/06/17 09:55
1,4-Dioxane	194	ug/L	2.0	97	70	130			
<b>Lab ID:</b> C17030850-001AMSD	Sample Matrix Spike Duplicate								04/06/17 10:17
1,4-Dioxane	206	ug/L	2.0	103	70	130	6.0	20	

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



## Work Order Receipt Checklist

Colorado Analytical Laboratories Inc

C17030850

Login completed by: Corinne Wagner

Date Received: 3/28/2017

Reviewed by: Kasey Vidick

Received by: ckw

Reviewed Date: 3/29/2017

Carrier name: Ground

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on all sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Not Applicable <input type="checkbox"/>
Container/Temp Blank temperature:	6.6°C On Ice - From Field		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

### Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

### Contact and Corrective Action Comments:

None



Colorado Analytical  
Laboratories, Inc.

**Colorado Analytical  
Laboratories, Inc.**

## Brighton Lab

**240 South Main Street**

**Brighton, CO 80601**

**Lakewood Lab**

**12860 W. Cedar Dr., Suite 100A**

**Lakewood CO 80228**

**Phone: 303-659-2313**

**Fax: 303-659-2315**

**www.coloradolab.com**

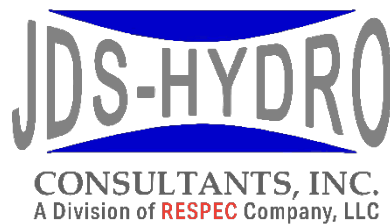
017030850

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## APPENDIX F

# FAWA WATER SUPPLY VS CURRENT WATER COMMITMENTS



Appendix F  
Falcon Area Water and Wastewater Authority  
Commitments within FAWWA Service Area (Sterling Ranch)  
Update October 18, 2022

Analysis of Water Commitments								Volumetric Commitment (300 year--Acre-feet)		
Development		Preliminary Commitments			Final Commitments					
		Commitment SFE	Supply / Commitment Acre-Feet	Letter or Summary Date/Notes	Commitment SFE	Commitment Acre-Feet	Letter or Summary Date/Notes			
Commitments	The Retreat at TimberRidge Preliminary Plan (Central System Only)		167	58.951	April 2018 Report			17685.3		
	Final #1			Supplement Nov 2020						
	Final #2				59 SFE	20.827	23-Aug-20			
	Final #3				78 SFE	27.53	April 30,2021			
					30 SFE	10.59	July, 2022			
Commitments	Sterling Ranch Preliminary Plan Phase One		726	255.96	June 2015 Report/Summary Update February 2019					
	Sterling Ranch Filing #1					0	0	Tracts Only		
	Tract BB (10.545) Branding Iron at Sterling Ranch Filing No. 1					51	17.85	Summary and Letter		
	Branding Iron Filing No. 2					88	31.07	Revised Feb 20, 2020 Residential)		
	Sterling Ranch Filing #2 (49 SF lots with 4.29 AF landscaping)					61 (61 SFE w irrigation)	21.59	Includes 4.29 AF Irrigation Revised Jan 21, 2021		
	Tract G (19.574) Homestead at Sterling Ranch Filing No. 1					72	25.42			
	Tract E (29.658) Homestead at Sterling Ranch Filing No. 2					104	36.71	20-Feb-19		
	Copper Chase at Sterling Ranch resubmittal		142.9	50.45	17-Dec-21	147.68	52.13	October 12, 2022 138 single family lots includes 1.39 Ac Park additional irrigation		
				138 single family lots 12/21/2021 includes 1.39 Ac Park						
	Sterling Ranch Preliminary Plan Phase Two		214.5	75.719	July, 2020 Re-issue Feb 26, 2021			School commitment (13 SFE) contained in Branding Iron Filing #2 above		
	Sterling Ranch Filing #4					159 Lots (2.667 Acres Irrigation) Specific Note 1	51.91			
	Homestead North at Sterling Ranch Preliminary Plan		147	62.47	Letter November 4, 2020 includes 10.58 AFs irrigation			Letter November 4, 2020 includes 10.58 AFs irrigation		
					Update Letter Jan 21, 2021			Update Letter Jan 21, 2021		
	Homestead North at Sterling Ranch Filing No. 3		77 (5.65 acres irrigation)	41.31	Letter dated June 10, 2022					
	Sterling Ranch East Preliminary Plan No 2 (Foursquare)		158 High Density Units (1.424 acres irrigation)	50.73	Letter dated June 10, 2022					
	Sterling Ranch East Preliminary Plan No 3 (Villages)		246 High Density Units (1.934 acres irrigation)	67.58	Letter dated June 10, 2022					
	Sterling Ranch East Preliminary Phase One		761 (28.31 acres irrigation) 35 acre K-8 School	335.68	Letter dated June 10, 2022 Revision October 18, 2022			Note prior commitment for elementary school in Branding Iron No 2		
	Totals	Total Active Commitments Either actual Finding of Sufficiency or anticipated Finding		Total Findings at Preliminary			Total Findings at Final			
				Units	AF		Units	AF		
1770.5				692.44		523.7	184.768		262658.3	
					Total Active Commitments (AF)			877.21		

Specific Note 1; Lolts 147 -157 were previously platted as lots 22-32 Sterling Ranch Filing No. 2 Water was committed under Sterling Ranch Filing No 2

General Note 1. As of January 1, 2022 the Falcon Area Water and Wastewater Authority is managing all water among various Districts, who are participating agencies. Therefore, water acounting changes were adopted on January 1, that do not separately balance or account for separate water accounting within the respective area. Going forward, the commitment sheet will be streamlined by simply adding the total commitments across the FAWWA participating entities.

General Note 2; Sketch Plans do not have hard commitments and are not shown here. Subdivisions can either have a finding of sufficiency at preliminary or final plat stage. Water reports/commitments are sometimes submitted at both stages, even though suffuiciency might be achieved at different stages. In order to attempt to track this possible discrepancy we will show the active water commitment in yellow highlight as best as possible. Summation of active water commitments will only track the totals highlighted in yellow. If/when a submitted preliminaray plan commitment does not result in a finding of sufficiency and an ensuing finding occurs at final plat, only the final commitment will be tallied.

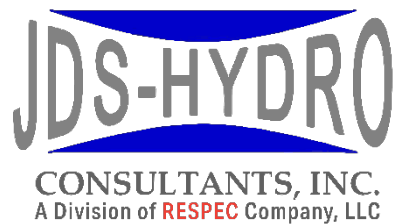
General Note 3; Yellow highlight signifies applicable commitments, where commitments have been over-riden, changed or modified and are no longer active, they are not highlighted in yellow

JDS-Hydro a Division of Respec



## APPENDIX G

# WATER SUPPLY SUMMARY FORM



## WATER SUPPLY INFORMATION SUMMARY

Section 30-28-133(d), C.R.S. requires that the applicant submit to the County, "Adequate evidence that a Water supply that is sufficient in terms of quantity, quality, and dependability will be available to ensure an adequate supply of water"

1. NAME OF DEVELOPMENT AS PROPOSED				<u>Homestead North at Sterling Ranch Filing #3</u>			
2. LAND USE ACTION				<u>Preliminary Plan</u>			
3. NAME OF EXISTING PARCEL AS RECORDED				<u>N/A</u>			
SUBDIVISION <u>See Above</u>		FILING <u>Preliminary</u>		BLOCK <u>All</u>		Lot <u>All</u>	
4. TOTAL ACERAGE <u>40.8271</u>		5. NUMBER OF LOTS PROPOSED <u>77</u>		PLAT MAPS ENCLOSED		<input type="checkbox"/> YES <u>Preliminary Plan Separate Cover</u>	
6. PARCEL HISTORY - Please attach copies of deeds, plats, or other evidence or documentation. (In submittal package)							
A. Was parcel recorded with county prior to June 1, 1972?				<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
B. Has the parcel ever been part of a division of land action since June 1, 1972?				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
If yes, describe the previous action							
7. LOCATION OF PARCEL - Include a map delineating the project area and tie to a section corner. (In submittal)							
_____ OF <u>SE</u> SECTION <u>28</u> TOWNSHIP <u>12</u>				<input type="checkbox"/> N <input checked="" type="checkbox"/> S RANGE <u>65</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W			
OF _____ 1SECTION _____ TOWNSHIP _____							
PRINCIPAL MERIDIAN: <input checked="" type="checkbox"/> 6TH <input type="checkbox"/> N.M. <input type="checkbox"/> UTE <input type="checkbox"/> COSTILLA							
8. PLAT - Location of all wells on property must be plotted and permit numbers provided.							
Surveyors plat <input type="checkbox"/> YES <input type="checkbox"/> NO				If not, scaled hand -drawn sketch <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <u>N/A</u>			
9. ESTIMATED WATER REQUIREMENTS - Gallons per Day or Acre Foot per Year				10. WATER SUPPLY SOURCE <u>DENVER BASIN</u>			
HOUSEHOLD USE # * <u>77</u> of units <u>24,266</u> GPD <u>27.18</u> AF				<input checked="" type="checkbox"/> EXISTING <input type="checkbox"/> DEVELOPED <input type="checkbox"/> NEW WELLS			
COMMERCIAL USE # _____ Acres _____ GPD _____ AF				WELLS SPRING WELL PERMIT NUMBERS <u>LFH 80131-F</u> <u>Arapahoe 80132-F</u>			
IRRIGATION # ** <u>5.65</u> acres <u>12,610</u> GPD <u>14.13</u> AF				<input checked="" type="checkbox"/> Alluvial <input checked="" type="checkbox"/> Upper Arapahoe <input checked="" type="checkbox"/> Upper Dawson <input checked="" type="checkbox"/> Lower Arapahoe <input type="checkbox"/> Lower Dawson <input checked="" type="checkbox"/> Laramie Fox Hills <input type="checkbox"/> Denver <input type="checkbox"/> Dakota <input type="checkbox"/> Other			
STOCK WATERING # _____ of head _____ GPD _____ AF				<input checked="" type="checkbox"/> MUNICIPAL			
OTHER _____ GPD _____ AF				<input type="checkbox"/> ASSOCIATION			
TOTAL <u>36,876</u> GPD <u>41.31</u> AF				<input type="checkbox"/> COMPANY			
* Household Use includes Indoor at 0.18 AF/SFE and .173 AF/SFE Outdoor Use				<input checked="" type="checkbox"/> DISTRICT			
** Tract Irrigation				NAME <u>Sterling Ranch Metropolitan District #1</u>			
				LETTER OF COMMITMENT FOR SERVICE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
11. ENGINEER'S WATER SUPPLY REPORT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				If yes, please forward with this form. (This may be required before our review is completed)			
12. TYPE OF SEWAGE DISPOSAL SYSTEM <u>Central Sewer</u>							
<input type="checkbox"/> SEPTIC TANK/LEACH FIELD				<input checked="" type="checkbox"/> CENTRAL SYSTEM - DISTRICT NAME: <u>Sterling Ranch Metropolitan District #1</u>			
<input type="checkbox"/> LAGOON				<input type="checkbox"/> VAULT - LOCATION SEWAGE HAULED TO:			
<input type="checkbox"/> ENGINEERED SYSTEM (Attach a copy of engineering design)				<input type="checkbox"/> OTHER:			