

# ***WATER RESOURCES REPORT***

*for*

***The Renehan Family  
Renehan Subdivision***

***EPC Parcel #: 6213000050***

**September 2023**

**Prepared By:**



The Renehan Family  
Renehan Subdivision  
5740 Burgess Rd.  
EPC Parcel # 6213000050

## WATER RESOURCES REPORT

September 2023

Prepared for:

Renehan Family  
5740 Burgess Rd,  
Colorado Springs, CO 80908

Prepared by:

RESPEC  
5540 Tech Center Drive, Suite 100  
Colorado Springs, CO 80919

## Table of Contents

<b>1.0</b>	<b>INTRODUCTION AND EXECUTIVE SUMMARY</b> .....	<b>1</b>
<b>2.0</b>	<b>PROJECTED LAND USES</b> .....	<b>1</b>
2.1	<i>Projected Land Uses</i> .....	1
<b>3.0</b>	<b>WATER NEEDS AND PROJECTED DEMANDS</b> .....	<b>1</b>
3.1	<i>Water Demand Summary</i> .....	1
3.2	<i>Unit Water User Characteristics</i> .....	2
3.3	<i>Demand versus Supply</i> .....	2
<b>4.0</b>	<b>WATER RIGHTS AND SUPPLY</b> .....	<b>2</b>
4.1	<i>Water Rights</i> .....	2
4.2	<i>Adequacy of Water Rights</i> .....	3
4.3	<i>Description of Current Water Rights</i> .....	3
<b>5.0</b>	<b>WATER SYSTEM FACILITIES AND PHYSICAL SUPPLY</b> .....	<b>4</b>
5.1	<i>Source of Supply</i> .....	4
5.2	<i>Water Treatment</i> .....	4
5.3	<i>Water Storage</i> .....	4
5.4	<i>Distribution, Pumping, and Transmission Lines</i> .....	4
5.5	<i>Water Quality</i> .....	4
<b>6.0</b>	<b>EL PASO COUNTY MASTER PLANNING ELEMENTS</b> .....	<b>5</b>
6.1	<i>County Water Master Plan 2040 and 2060 Projections</i> .....	5
6.2	<i>Buildout (Including 2040 and 2060 Buildout):</i> .....	5
6.3	<i>Description of Long-Term Planning and Future Sources of Supply</i> .....	5
6.4	<i>Water System Interconnects</i> .....	5
<b>7.0</b>	<b>CONCLUSION</b> .....	<b>5</b>

## APPENDICES

*Appendix A – Land Use Exhibit*

*Appendix B – Water Supply Information Summary – SEO Form*

*Appendix C – Determinations and Decrees*

*Appendix D – Water Quality Results*

**1.0 INTRODUCTION AND EXECUTIVE SUMMARY**

The purpose of this report is to address the specific water needs of a proposed subdivision of Parcel # 6213000050 in El Paso County, CO.

**EXECUTIVE SUMMARY:** The water rights and augmentation plan in place for the existing parcel are adequate to meet the needs of three (3) lots proposed for the subdivision on a 300-year basis.

**2.0 PROJECTED LAND USES**

*2.1 Projected Land Uses*

This report pertains to the existing 34.368-acre parcel that is proposed to be divided into three (3) lots, with Lot 1 described as 8.619 acres, Lot 2 at 17.057 acres, and Lot 3 at 8.692 acres. Please refer to the *Land Use Exhibit* in **Appendix A**.

**3.0 WATER NEEDS AND PROJECTED DEMANDS**

*3.1 Water Demand Summary*

It is anticipated that the proposed three residential lots, one consisting of approximately 8.619 acres, one consisting of 17.057 acres, and one consisting of 8.692 acres, will use approximately 0.78 AF/year of water total for indoor household uses and a total of 2.4 AF/year of water combined water uses for the entire subdivision. This estimate is based upon information from the *Findings of Fact* contained in Division 2 Court Case 00CW99 located in **Appendix C** as well as the El Paso County Land Development Code Chapter 8.4.7 Section B.7.d. Water demands and wastewater loads are shown Table 3-1 below:

**Table 3-1: Summary of Expected Water Demands & Wastewater Loads**

Water						Wastewater
# of SFEs	Annual Indoor Use 0.27 (AF/YR/SFE)	Average Daily Indoor Use (GPD)	Irrigation 0.0566 (AF/1,000 SF)	Domestic Watering 0.011 (AF/Horse/Year)	Total Indoor, Watering, & Irrigation (AF)	ADF (@ 90% Indoor Use) (GPD)
3	<i>Note 1</i> 0.810	723	<i>Note 2</i> 1.460	<i>Note 3</i> 0.132	2.40	651
<b>Total</b>					<b>2.40</b>	<b>651</b>

*Note 1: Per Findings of Fact Section 19, Decree No. 00CW99 and No. 00CW196.*

*Note 2: Assuming 0.0566 per 1000 ft^2 per El Paso County Land Development Code and 8,600 SF of lawn/garden/trees*

*Note 3: Assuming for a total of 12 horses (4 horses per unit)*

3.2 *Unit Water User Characteristics*

Unit water user characteristics are counted on a *single-family equivalent (SFE)* basis. All single-family homes are counted as one SFE, and user characteristics were based on information provided in the *El Paso County Land Development Code*, Chapter 8.

3.3 *Demand versus Supply*

An overall demand of 2.4 acre-feet for the proposed subdivision is less than the amount of supply listed in the decrees, determinations, and *Findings of Fact* (provided in **Appendix C**) and is further discussed in Section 4.0 of this report.

**4.0 WATER RIGHTS AND SUPPLY**

4.1 *Water Rights*

Water rights, determinations, and replacement plan have been applied for as shown in **Appendix C**. Table 4-1 below summarizes the information from said water rights and pending determinations.

**Table 4-1: Water Rights Summary**

***Rehan Subdivision***  
Overall Water Supply Inventory

Land Formation/ Aquifer	Determination	Tributary Status	Area	Total Water Decree	Annual Allocation 100-Year	Annual Allocation 300-Year
			(Acres)	(AF)	(AF/Year)	(AF/Year)
Dawson	00CW99	NNT	34.368	1,100	11.00	3.67
Denver	00CW99	NNT	34.368	2,220	22.20	7.40
Arapahoe	00CW99	NNT	34.368	1,520	15.2	5.07
Laramie-Fox Hills	00CW99	NT	34.368	980	9.80	3.27
<b>Total Legal Supply</b>					<b>58.20</b>	<b>19.40</b>
					100-Year	300-Year

**Beneficial Uses:** *Domestic Indoor, Industrial, Commercial, Fire Protection, Augmentation Indoor & Outdoor Irrigation, Livestock, Recreational, Fish/Wildlife, Storage*

According to the *Findings of Fact* contained in Division 2 Court Case No. 00CW99 located in **Appendix C**, the following conditions are allowed for the subject property:

- Type of use to which the Dawson water pumped must be used for domestic indoor use, indoor and outdoor irrigation, commercial, industrial, livestock, fire protection, recreation, fish and wildlife, augmentation, and storage, pursuant to the augmentation plan.

#### 4.2 *Adequacy of Water Rights*

Current water rights are adequate for buildout demands of three (3) lots to meet 2040 and 2060 buildout projections on a 300-year basis.

According to the Groundwater Rights found in Division 2 Court Case 00CW99 the entire 34.368-acre property has appropriated water rights located in the Dawson, Denver, Arapahoe, and Laramie Fox-Hills confined aquifers. Of these formations, only the Laramie Fox-Hills is considered nontributary while the Dawson, Denver, and Arapahoe aquifers are considered not non-tributary. The applicant has rights to consume water from all four formations, though use from the Dawson, Denver, and Arapahoe requires an augmentation and replacement plan for all uses. The associated determinations and approved augmentation plan are shown in the court cases included in **Appendix C**:

- The annual allocation on a 300-year plan for the Dawson Aquifer is 3.67 AF/yr, which is greater than the estimated annual demand of 2.4 AF-year for all three (3) lots to be served by Dawson wells as needed.
- Assuming a 0.27 AF/yr domestic use per residence (which meets the minimum demand requirement of El Paso County Land Development Code Chapter 8) with 90% return flows through the septic system per resident, this results in a 0.243 AF/yr replacement flow back through the septic system per resident, or 0.729 AF/year total for the three residences
- Per approved decree 00CW99, pumping from the Dawson Aquifer will result in an estimated 25% depletion to the alluvium by the 300<sup>th</sup> year of pumping, which is 0.6 AF total. Conservatively estimated return flows through the septic system total 0.729 AF/yr, which is in excess of required replacement water for alluvial depletions due to not-nontributary pumping from the Dawson Aquifer.

*Conclusion:*

*The current water rights and augmentation plan in place are adequate to meet the estimated overall demand and resulting alluvial depletions of 0.6 acre-feet for three (3) lots.*

#### 4.3 *Description of Current Water Rights*

The subject area's current water rights involve non-renewable supplies in the Denver Basin, further discussed below.

*Non-Renewable Denver Basin Supply*

The Denver Basin is a vast, deep-rock aquifer that stretches from southeast of Colorado Springs to Greeley, and from the base of the front range to the eastern end of Elbert County. Rights granted in the Denver basin are based on the

ownership of the surface property – the larger the parcel, the larger the allocation. This water is much deeper than typical residential wells, ranging up to 2,650 feet deep.

Denver Basin water is considered finite and therefore non-renewable. In the subject area, there are four main formations that make up the Denver Basin: Dawson, Denver, Arapahoe, and Laramie-Fox Hills (LFH), described from shallowest to deepest.

The subject property was granted water rights in the four Denver Basin formations as shown in **Table 4-1** above.

## **5.0 WATER SYSTEM FACILITIES AND PHYSICAL SUPPLY**

### *5.1 Source of Supply*

Supply for the three (3) lots will be met with future or existing wells completed in the Dawson aquifer. Any new wells will be drilled, screened, test-pumped, and completed in accordance with the Colorado Division of Water Resources rules and regulations.

### *5.2 Water Treatment*

Water from an adjacent well (approximately 0.2 miles East along Burgess Rd) was tested on 7/5/23 for constituents required by El Paso County regulations for a confined aquifer. Any desired treatment of existing and future wells will rely on the individual homeowners as this is not considered a *Community System* by the Colorado Department of Public Health and Environment.

### *5.3 Water Storage*

Water storage (other than potential individual cisterns) will not be constructed. Therefore, a central water system with treatment and fire-flow capabilities will not be provided. The residents of each subdivided lot will be made aware of this since it will be included on the subdivision plat.

### *5.4 Distribution, Pumping, and Transmission Lines*

Since there is no central water system proposed for this subdivision, no distribution, pumping, or transmission lines will be constructed.

### *5.5 Water Quality*

The water quality in the Dawson aquifer formation in this area has typically been suitable for residential potable use. Water samples were obtained from an adjacent well approximately 0.2 miles East along Burgess Rd. Water samples were obtained from this tap on 7/5/2023, with water quality testing performed Colorado Analytical Laboratories and Hazen Research, Inc., per the El Paso County Land Development Code section 8.4.7(B). Final results from this water quality

testing can be found in **Appendix D**. All results were found to be below primary and secondary Maximum Contaminant Limits (MCLs).

Because of the absence of any and all evidence of fecal contamination in the form of E. Coli or Total Coliform, or that all sampled and analyzed constituents were below all primary and secondary standards the proposed water source emanating from the Dawson Aquifer is deemed safe for public consumption.

## **6.0 EL PASO COUNTY MASTER PLANNING ELEMENTS**

### *6.1 County Water Master Plan 2040 and 2060 Projections*

The subject property lies within the El Paso County Water Master Planning area, Region #2.

### *6.2 Buildout (Including 2040 and 2060 Buildout):*

Expected buildout of the subject property are three (3) total lots. Demands for the entire subdivision are listed in Section 3.0 of this report, which include a total demand of 2.4 AF/year as based on Division 2 Court Case 00CW99 and El Paso County Land Development Code Chapter 8.4. Section B.7.d.

### *6.3 Description of Long-Term Planning and Future Sources of Supply*

Per El Paso County criteria, the 300-year supply of water for the subject property appears to be more than adequate for full buildout, which would include both the 2040 and 2060 scenarios.

If needed beyond the 300-year supply, the subdivision has nontributary water rights in the Laramie-Fox Hills formation. Please refer to the *Plan for Augmentation* in **Appendix C**.

### *6.4 Water System Interconnects*

The closest source for a potential interconnect is the Donala Water and Sanitation District, area A – approximately 6.5 miles to the northwest.

It is not anticipated (and Donala Water and Sanitation District has not been contacted) that an interconnect is needed or warranted.

## **7.0 CONCLUSION**

**The subject property has adequate water supply and water quality to meet the needs of the proposed subdivision on a 300-year basis.**



*Appendix A*

# RENEHAN SUBDIVISION

A PORTION OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 13,  
TOWNSHIP 12 SOUTH, RANGE 66 WEST OF THE 6TH P.M.,  
IN EL PASO COUNTY, COLORADO

## BE IT KNOWN BY THESE PRESENTS:

That Bradley W. Renehan, Sandra L. Renehan, Jeffrey N. Renehan and Julie A. Renehan, being the owners of the following described tract of land to wit:

A tract of land located in the East Half (E2) of the Southeast Quarter (SE4) of Section 13, Township 12 South (T12S), Range 66 West (R66W) of the 6th P.M., County of El Paso, State of Colorado, as described in Warranty Deed recorded under Reception No. 213007142 in the records of the Clerk and Recorder's Office of said County, being more particularly described as follows:

Commencing at the Southwest corner of the East Half (E2) of said Southeast Quarter (SE4); thence N00°50'30"W along the West line of said East Half (E2), a distance of 1547.24 feet to the Point of Beginning of the tract herein described; thence continuing along the West line of said East Half (E2), N00°54'21"W, a distance of 434.40 feet to a point on the North line of the South Half (S2) of the Northeast Quarter (NE4) of said Southeast Quarter (SE4); thence N89°30'14"E along said North line, a distance of 1327.97 feet to a point on the East line of said Section 13; thence along the East line of said Section 13, S00°43'00"E, a distance of 1950.70 feet to a point thirty feet (30') North of the Southeast corner of said Section 13; thence S89°27'51"W, thirty feet (30') North of and parallel to the South line of said Section 13, a distance of 605.47 feet; thence N00°50'30"W, a distance of 1517.24 feet; thence S89°27'51"W, a distance of 717.75 feet to the Point of Beginning;

Said tract contains 34.368 acres (1,497,074 square feet), more or less.

## OWNERS' CERTIFICATE:

The undersigned, being all the owners of the land described herein, have laid out, subdivided, and platted said land into lots, public right-of-way addition and easements as shown hereon under the name and subdivision of RENEHAN SUBDIVISION. The utility easements shown hereon are hereby dedicated for public utilities and communication systems and other purposes as shown hereon. The entities responsible for providing the services for which the easements are established are hereby granted the perpetual right of ingress and egress from and to adjacent properties for installation, maintenance, and replacement of utility lines and related facilities.

Bradley W. Renehan Sandra L. Renehan Jeffery N. Renehan Julie A. Renehan

## NOTARIAL:

STATE OF COLORADO }  
COUNTY OF EL PASO } SS

Acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ by Bradley W. Renehan, Sandra L. Renehan, Jeffery N. Renehan and Julie A. Renehan.

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

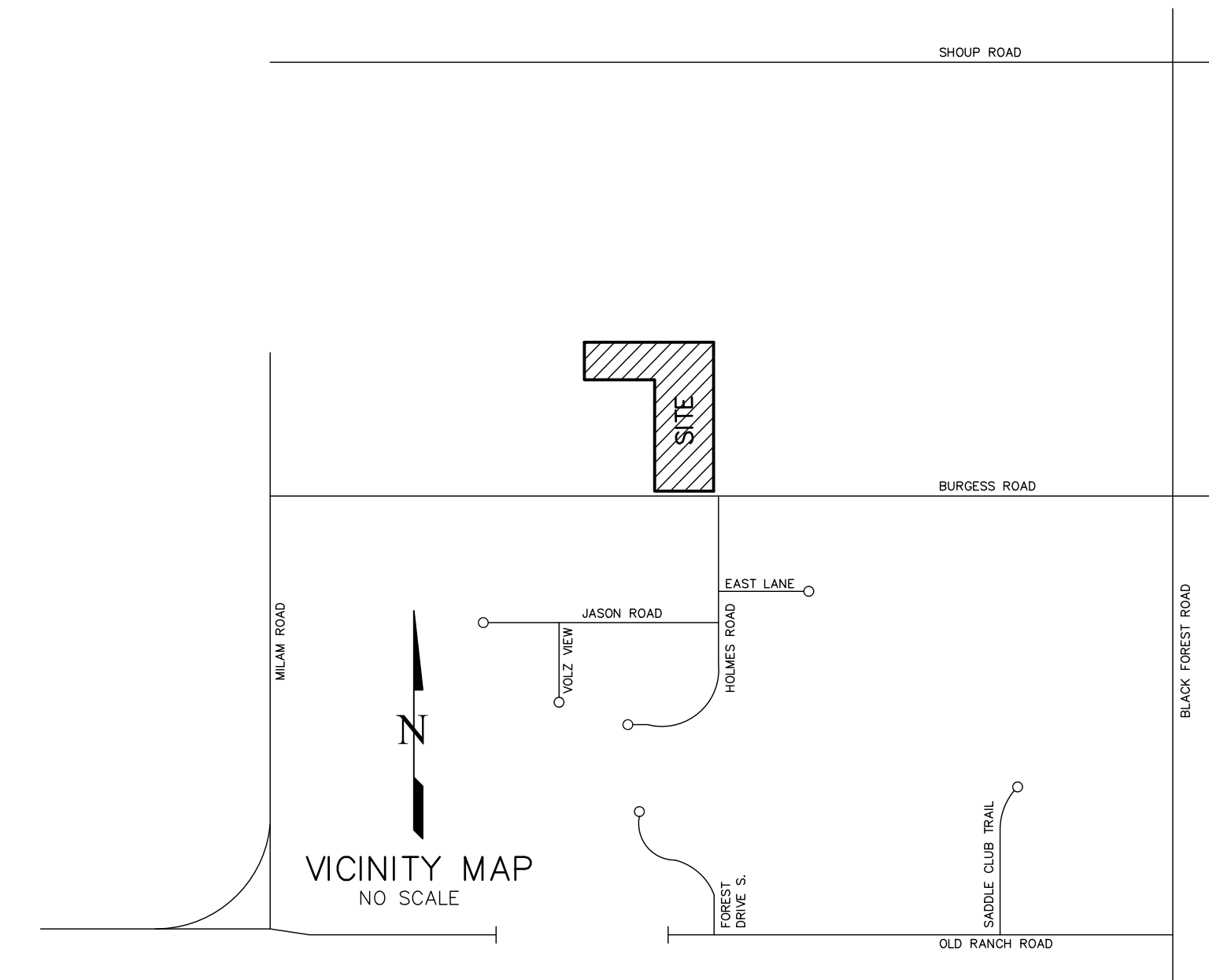
Witness my hand and seal \_\_\_\_\_  
Notary Public

## NOTES:

- o - Indicates survey monument recovered as a #4 rebar with Surveyor's Cap, PLS #20681.
  - - Indicates recovered survey monument as noted.
- This survey does not constitute a title search by LDC, Inc. to determine ownership or easements of record. For all information regarding easements, rights-of-way and title of record, LDC, Inc. relied upon an ALTA Commitment for Title Insurance prepared by STEWART TITLE GUARANTY COMPANY, Commitment No. 1978475-10 dated March 22, 2023 at 8:00 a.m.
- Individual lot purchasers are responsible for constructing driveways. No driveway shall be established unless an access permit has been granted by El Paso County.
- Each individual property owner is responsible for the construction and operation of a non-evaporative wastewater disposal system approved by the El Paso County Health Department. The Health Department may require a specially designed, or "engineered," system prior to permit approval. Engineered systems may cost more to design, install and maintain than systems which are not engineered.
- Basis of Bearings: All bearings are based on that Southerly boundary line, said line also being coincident with the Northerly right-of-way line of Burgess Road (60' public r.o.w.), being a #4 rebar and cap marked "PLSC RLS 25968" at each end, and a line between them assumed to bear S89°27'52"W, a distance of 605.47 feet.
- All structural foundations shall be located and designed by a Professional Engineer, currently registered in the State of Colorado.
- The private driveway as shown on this plat will not be maintained by El Paso County. A Declaration of Easement and Joint Driveway Maintenance is recorded under Reception No. \_\_\_\_\_ of the records of El Paso County, Colorado.
- FEDERAL EMERGENCY MANAGEMENT AGENCY, Flood Insurance Rate Map Number 08041CO315 G, effective date December 7, 2018 indicates the area in the vicinity of this parcel of land to be a Zone X (area determined to be out of the 500 year flood plain).
- (1581) - Indicates property address. The addresses exhibited on this plat are for informational purposes only. They are not the legal description and are subject to change.
- Fire protection to be provided by Black Forest Fire Rescue Protection District.
- Unless otherwise indicated, side, front and rear lot lines are hereby platted on each side with a ten foot Public Utility and Drainage Easement, as shown hereon. All exterior subdivision boundaries shall have a twenty foot Public Utility and Drainage Easement, as modified in the vicinity of the driveway cul-de-sac. The sole responsibility for maintenance of these easements is hereby vested with the individual property owners.
- The following reports and/or documentation have been submitted in association with the Final Plat for this subdivision and are on file at the County Planning and Community Development Department: Transportation Memorandum; Drainage Report; Water Resources Report; Wastewater Disposal Report; Geology and Soils Report; Wildfire Hazard Report; Fire Protection Report and Natural Features Report.
- All property owners are responsible for maintaining proper storm water drainage in and through their property. Public drainage easements as specifically noted on the plat shall be maintained by the individual lot owners unless otherwise indicated. Structures, fences, materials or landscaping that could impede the flow of runoff shall not be placed in drainage easements.
- Environmental: Developer shall comply with federal and state laws, regulations, ordinances, review and permit requirements, and other agency requirements, if any, of applicable agencies including, but not limited to, the Colorado Division of Wildlife, Colorado Department of Transportation, U.S. Army Corps of Engineers and the U.S. Fish and Wildlife Service regarding the Endangered Species Act, particularly as it relates to the listed species (e.g., Preble's Meadow Jumping Mouse).
- Mailboxes shall be installed in accordance with all El Paso County and United States Postal Service regulations.

## NOTES (CONT.):

- Any person who knowingly removes, alters or defaces any public land survey monument or land boundary monument or accessory commits a Class Two (2) Misdemeanor pursuant to C.R.S. 18-4-508.
  - The subdivider(s) agrees on behalf of him/herself and any developer or builder successors and assignees that subdivider and/or said successors and assigns shall be required to pay traffic impact fees in accordance with El Paso County Road Impact Fee Program Resolution (Resolution No. 19-471), or any amendments thereto, at or prior to the time of building permit submittals. The fee obligation, if not paid at final plat recording, shall be documented on all sales documents and n plat notes to ensure that a title search would find the fee obligation before sale of the property.
  - Individual wells are the responsibility of each property owner. permits for individual wells must be obtained from the State Engineer who by law has the authority to set conditions for the issuance of these permits. water in the Denver Basin aquifers is allocated based on a 100-year aquifer life; however, for El Paso county planning purposes, water in the Denver Basin aquifers is evaluated based on a 300-year aquifer life. Applicants and all future owners of the subdivision should be aware that the economic life of a water supply based on wells in a given Denver Basin aquifer may be less than either the 100 years or 300 years indicated due to anticipated water level declines. Furthermore, the water supply plan should not rely solely on non-renewable aquifers. alternate renewable water resources should be acquired and incorporated in a permanent water supply plan that provides future generations with a water supply.
- Property is subject to terms therefore granted by Decree in the District Court, Water Division 2, State of Colorado and filed for record in the Central Files as Case Number 00CW99 dated May 21, 2001 and June 29, 2001.
- Soil and Geologic Conditions: Areas within this subdivision have been found to be impacted by potential geologic constraints as detailed in the Soil, Geology, and Geologic Hazard Study for RENEHAN SUBDIVISION prepared by ENTECH ENGINEERING, INC. and dated February 3, 2023. The report is available in the El Paso County Planning and Community Development Department records (www.epcdevplanreview.com) under File Number \_\_\_\_\_. The report includes mapping of any potential hazard areas within the subdivision. A description of affected lots, potential constraints and mitigation measures are listed below. No buildable areas of the site exceed 8% in grade. Individual soils investigations and foundation designs for all new building sites and septic systems are required once building locations have been determined. Should groundwater or bedrock be encountered within 6 feet of the surface, designed onsite wastewater systems are required. Wastewater absorption fields must be located at least 100 feet from any well, 50 feet from drainages, floodplains or ponded areas and 25 feet from dry gulches.
- Lot 3: Potentially seasonal shallow ground water area within the most Westerly buildable are of the lot.
- Lineal units shown hereon are US Survey Feet.
  - No obstruction greater than eighteen inches (18") are allowed in the fifty foot (50') by fifty foot (50') sight triangle no-build areas from the driveway width each side to Burgess Road right-of-way addition near the corner lot at the drive/road intersection.
  - No direct vehicular access to/from Lot 1 will be allowed except via the indicated Private Driveway.



## SURVEYOR'S CERTIFICATION:

I David Hostetler, a duly registered Professional Land Surveyor in the State of Colorado, do hereby certify that this plat truly and correctly represents the results of a survey made on date of survey, by me or under my direct supervision and that all monuments exist as shown hereon; that mathematical closure errors are less than 1:10,000 ; and that said plat has been prepared in full compliance with all applicable laws of the State of Colorado dealing with monuments, subdivision, or surveying of land and all applicable provisions of the El Paso County Land Development Code.

David V. Hostetler  
Colorado Professional Land Surveyor No. 20681

PRELIMINARY COPY  
SUBJECT TO FINAL  
COUNTY APPROVAL

## BOARD OF COUNTY COMMISSIONERS CERTIFICATE:

This plat for RENEHAN SUBDIVISION was approved for filing by the El Paso County, Colorado

Board of County Commissioners on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, subject to any notes specified hereon and any conditions included in the resolution of approval. The dedications of land to the public streets and easements are accepted.

\_\_\_\_\_  
Chair, Board of County Commissioners Date

## PCD DIRECTOR:

This plat for RENEHAN SUBDIVISION was approved for filing by the El Paso County, Colorado

Planning and Community Development Department Director on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, subject to any notes specified hereon.

\_\_\_\_\_  
Planning and Community Development Director Date

## RECORDING:

STATE OF COLORADO }  
COUNTY OF EL PASO } SS

I hereby certify that this instrument was filed for record in my office at \_\_\_\_ o'clock \_\_\_\_M., this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ A.D., and is duly recorded under Reception No. \_\_\_\_\_ of the records of El Paso County, Colorado.

Chuck Broerman, Recorder

SURCHARGE: \_\_\_\_\_ BY: \_\_\_\_\_ Deputy  
FEE: \_\_\_\_\_

Owner of Record at time of platting:

Bradley W. Renehan, Sandra L. Renehan,  
Jeffery N. Renehan and Julie A. Renehan  
640 Southpointe Court, Suite 150  
Colorado Springs CO 80906-3884  
(719) 358-5827

DSD FILE NO.: \_\_\_\_\_

According to Colorado law, this plat may be voided by legal action based upon any defect in this survey within three years after you first discover the defect. In no event, may any action based upon any defect in this survey be brought more than ten years from the date of the certification shown hereon.

CALL BEFORE YOU DIG . . .  
**811**  
DIAL 811  
48 HOURS BEFORE YOU DIG. CALL UTILITY LOCATORS FOR LOCATING AND MARKING GAS, ELECTRIC, WATER AND WASTEWATER

No.	Description	By	Date
1	CONSULTANT/CLIENT COMMENTS	DVH	03/31/23

H Scale: N/A  
V Scale: N/A  
Designed By: N/A  
Drawn By: WCS  
Checked By: DVH  
Date: 11/21/22

**Land Development Consultants, Inc.**  
PLANNING · SURVEYING  
www ldc inc com · TEL: (719) 528-6133 · FAX: (719) 528-8848  
3888 MAZELAND ROAD · COLORADO SPRINGS, CO 80909

**RENEHAN SUBDIVISION**  
FINAL PLAT

Project No.: 22027

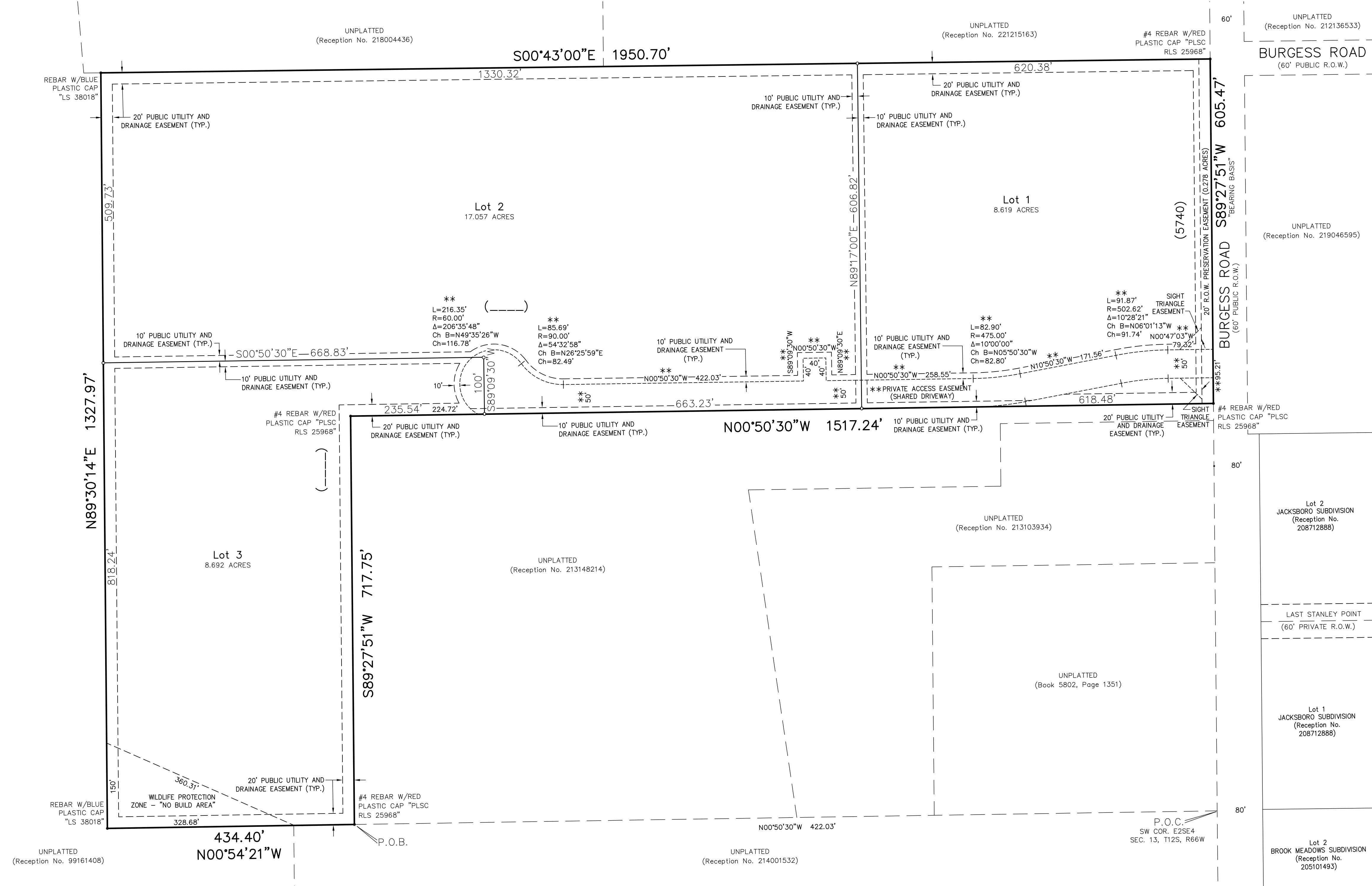
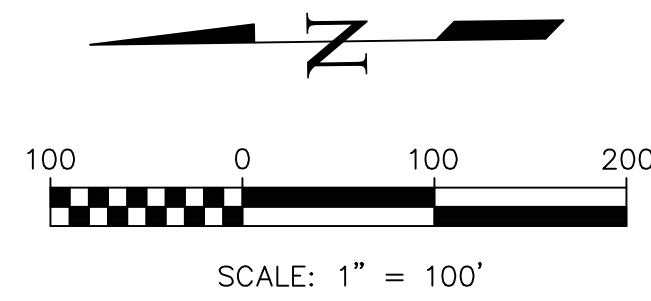
Sheet: 1 of 2

# RENEHAN SUBDIVISION

A PORTION OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 13,  
TOWNSHIP 12 SOUTH, RANGE 66 WEST OF THE 6TH P.M.,  
IN EL PASO COUNTY, COLORADO

**LEGEND:**

- Indicates survey monument "to be set" with #4 rebar and red plastic cap, PLS No. 20681 flush w/ground, except where noted otherwise
- Indicates survey monument found as noted
- Indicates boundary line
- \*\* - Indicates data relative to Private Access Easement (shared driveway)
- (5740) - Indicates lot address



According to Colorado law, legal action based upon any defect in this survey within three years after the first discovery of the defect in no event, may any action based upon any defect in this survey more than ten years from the date of the certification shown hereon.

**CALL BEFORE YOU DIG**  
**811**  
DIAL 811  
48 HOURS BEFORE YOU DIG. CALL UTILITY LOCATORS FOR LOCATING AND MARKING GAS, ELECTRIC, WATER AND WASTEWATER.

No.	Description	By	Date
1	CONSULTANT/CLIENT COMMENTS	DVH	03/01/23

H Scale: 1" = 100'  
V Scale: N/A  
Designed By: N/A  
Drawn By: WCS  
Checked By: DVH  
Date: 01/25/23

**Land Development Consultants, Inc.**  
PLANNING · SURVEYING  
www ldc inc com · TEL: (719) 528-6133 · FAX: (719) 528-8548  
3888 MAZELAND ROAD · COLORADO SPRINGS, CO 80909

**RENEHAN SUBDIVISION**  
FINAL PLAT

Lot 2 JACKSBORO SUBDIVISION (Reception No. 208712888)  
LAST STANLEY POINT (60' PRIVATE R.O.W.)  
Lot 1 JACKSBORO SUBDIVISION (Reception No. 208712888)  
Lot 2 BROOK MEADOWS SUBDIVISION (Reception No. 205101493)

PRELIMINARY COPY  
SUBJECT TO FINAL COUNTY APPROVAL

Project No.: 22027  
Sheet: 2 of 2

DSD FILE NO.: \_\_\_\_\_

*Appendix B*

# 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>Renehan Subdivision</u>							
2. LAND USE ACTION <u>Minor Subdivision</u>							
3. NAME OF EXISTING PARCEL AS RECORDED <u>5740 Burgess Rd.</u>							
SUBDIVISION <u>See Above</u>	FILING <u>N/A</u> BLOCK <u>N/A</u> Lot <u>N/A</u>						
4. TOTAL ACERAGE <u>34.368</u>	5. NUMBER OF LOTS PROPOSED <u>3</u> PLAT MAPS ENCLOSED						
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 type="checkbox"/> YES <input checked="" 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)							
<u>E1/2</u> OF SE <u>1/4</u> SECTION 13 TOWNSHIP <u>12</u> S _____ <input type="checkbox"/> N   S RANGE <u>66</u> _____ <input type="checkbox"/> E <input checked="" type="checkbox"/> W							
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 checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If not, scaled hand-drawn sketch <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
9. ESTIMATED WATER REQUIREMENTS - Gallons per Day or Acre Foot per Year							
HOUSEHOLD USE # <u>3</u> of units <u>0.270</u> AF/SFE/YR <u>0.810</u> AF	10. WATER SUPPLY SOURCE						
COMMERCIAL USE # <u>0</u> SF <u>-</u> GPD <u>-</u> AF							
IRRIGATION <sup>2</sup> <u>0.0566</u> AF/1000SF <u>1,304</u> GPD <u>1.460</u> AF							
ANIMAL WATERING <sup>3</sup> <u>12</u> Horses <u>0.011</u> AF/Horse/Year <u>0.132</u> AF							
TOTAL <u>2,145</u> GPD <u>2.40</u> AF*							
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> EXISTING <input type="checkbox"/> DEVELOPED                  WELLS SPRING                   WELL PERMIT NUMBERS                   _____                  _____             </td> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> NEW WELLS                   Proposed Aquifers - (Check One)  <input type="checkbox"/> Alluvial <input type="checkbox"/> Upper  <input checked="" type="checkbox"/> Upper Dawson <input type="checkbox"/> Lower  <input type="checkbox"/> Lower Dawson <input type="checkbox"/> Laramie Fox  <input type="checkbox"/> Denver <input type="checkbox"/> Dakota   <input type="checkbox"/> Other             </td> </tr> <tr> <td style="vertical-align: top;"> <input type="checkbox"/> MUNICIPAL  <input type="checkbox"/> ASSOCIATION  <input type="checkbox"/> COMPANY  <input type="checkbox"/> DISTRICT             </td> <td style="vertical-align: top;">                 WATER COURT DECREE CASE NUMBERS   <u>Case Number - 00CW99 (Division 2)</u>   <u>Case Number - 00CW196 (Division 1)</u> </td> </tr> <tr> <td colspan="2">                 NAME: <u>N/A</u>                  LETTER OF COMMITMENT FOR SERVICE - <u>N/A</u> <input type="checkbox"/> YES <input type="checkbox"/> NO             </td> </tr> </table>		<input type="checkbox"/> EXISTING <input type="checkbox"/> DEVELOPED WELLS SPRING  WELL PERMIT NUMBERS  _____ _____	<input checked="" type="checkbox"/> NEW WELLS  Proposed Aquifers - (Check One) <input type="checkbox"/> Alluvial <input type="checkbox"/> Upper <input checked="" type="checkbox"/> Upper Dawson <input type="checkbox"/> Lower <input type="checkbox"/> Lower Dawson <input type="checkbox"/> Laramie Fox <input type="checkbox"/> Denver <input type="checkbox"/> Dakota  <input type="checkbox"/> Other	<input type="checkbox"/> MUNICIPAL <input type="checkbox"/> ASSOCIATION <input type="checkbox"/> COMPANY <input type="checkbox"/> DISTRICT	WATER COURT DECREE CASE NUMBERS  <u>Case Number - 00CW99 (Division 2)</u>  <u>Case Number - 00CW196 (Division 1)</u>	NAME: <u>N/A</u> LETTER OF COMMITMENT FOR SERVICE - <u>N/A</u> <input type="checkbox"/> YES <input type="checkbox"/> NO	
<input type="checkbox"/> EXISTING <input type="checkbox"/> DEVELOPED WELLS SPRING  WELL PERMIT NUMBERS  _____ _____	<input checked="" type="checkbox"/> NEW WELLS  Proposed Aquifers - (Check One) <input type="checkbox"/> Alluvial <input type="checkbox"/> Upper <input checked="" type="checkbox"/> Upper Dawson <input type="checkbox"/> Lower <input type="checkbox"/> Lower Dawson <input type="checkbox"/> Laramie Fox <input type="checkbox"/> Denver <input type="checkbox"/> Dakota  <input type="checkbox"/> Other						
<input type="checkbox"/> MUNICIPAL <input type="checkbox"/> ASSOCIATION <input type="checkbox"/> COMPANY <input type="checkbox"/> DISTRICT	WATER COURT DECREE CASE NUMBERS  <u>Case Number - 00CW99 (Division 2)</u>  <u>Case Number - 00CW196 (Division 1)</u>						
NAME: <u>N/A</u> LETTER OF COMMITMENT FOR SERVICE - <u>N/A</u> <input 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							
<input checked="" type="checkbox"/> SEPTIC TANK/LEACH FIELD	<input type="checkbox"/> CENTRAL SYSTEM - DISTRICT NAME: _____						
<input type="checkbox"/> LAGOON	<input type="checkbox"/> VAULT - LOCATION SEWAGE HAULED _____						
<input type="checkbox"/> ENGINEERED SYSTEM (Attach a copy of engineering design)	<input type="checkbox"/> OTHER: _____						

<sup>1</sup> Per 00CW99 and 00CW196, Paragraph 19

<sup>2</sup> Assuming 8,600 ft<sup>2</sup> of irrigatable land per lot @ 0.0566AF/year/1,000 ft<sup>2</sup>

<sup>3</sup> Assuming 4 large animals per lot @ 0.011 AF/year/animal

*Appendix C*

Please provide documentation that Robert W Slagle does not own the water rights to this property and please show the Renehan's ownership.

# CENTRAL FILES

RECEIVED

MAY 24 2001

**DISTRICT COURT, WATER DIVISION 2, STATE OF COLORADO**

Court Address: 320 W. Tenth St., Pueblo, CO 81003  
Phone Number: (719) 583-7048

**CONCERNING THE APPLICATION OF:**

**ROBERT W. SLAGLE**

**IN EL PASO AND DOUGLAS COUNTIES**

**Attorney for Applicant:**

Steven T. Monson  
Felt, Monson & Culichia, LLC  
319 N. Weber St., Colorado Springs, CO 80903  
Phone Number: (719) 471-1212  
Fax Number: (719) 471-1234  
E-mail: FMCH2O@MSN.COM  
Atty. Reg. #. 11329

WATER RESOURCES  
STATE ENGINEER  
COLO

FILED IN THE OFFICE OF THE CLERK,  
DISTRICT COURT WATER DIV. NO. 2  
STATE OF COLORADO

MAY 21 2001

CLERK

▲ COURT USE ONLY ▲

Case No.: 00CW99 (Division 2)  
Case No.: 00CW196 (Division 1)

**FINDINGS OF FACT, JUDGMENT AND DECREE GRANTING UNDERGROUND WATER RIGHTS AND PLAN FOR AUGMENTATION**

THIS MATTER comes before the Court on the Application for Underground Water Rights and Plan for Augmentation filed by Robert W. Slagle and, having reviewed said application and other pleadings on file and the stipulation of the parties, and being fully advised on this matter, the following findings and orders have been made:

### FINDINGS OF FACT

#### General Findings

1. The applicant in this case is Robert W. Slagle ("Applicant"). This case involves the adjudication of Denver Basin ground water underlying Applicant's Property in northern El Paso County. It also involves the adjudication of a plan for augmentation to replace stream depletions caused by pumping from four wells in the not nontributary Dawson Aquifer. The water rights application was filed in both Water Divisions 1 and 2 because stream depletions may occur in both the South Platte River and Arkansas River drainages.

2. The water rights application in this case was filed in Water Division 2 on October 26, 2000, and also filed in Water Division 1 on October 27, 2000.

3. By Order of Referral from Water Division 2 dated November 1, 2000, Case No 00CW99 was referred to the Water Referee. By Order of Referral from Water Division 1 dated October 27, 2000, Case No 00CW196 was referred to the Water Referee.

4. By an April 6, 2001 Order of the Panel on Consolidated Multidistrict Litigation, Case No. 01MDL04, the Division 1 case, Case No. 00CW196, was consolidated into this Division 2 case, Case No. 00CW99.

5. The Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether or not they have appeared in this action. The land and water rights involved herein are not included within the boundaries of any designated groundwater basin.

6. A Statement of Opposition to the Application was timely filed by the City of Colorado Springs. No other Statements of Opposition have been filed, and the time for filing such Statements has now expired. A May 10, 2001 Stipulation has been entered into between the Applicant and the City of Colorado Springs whereby the City of Colorado Springs has consented to the entry of this decree.

### **Ground Water Rights**

7. The land overlying the ground water which is the subject of this case is owned by the Applicant and consists of approximately 34.3 acres within the E 1/2 SE 1/4 of Section 13, Township 12 South, Range 66 West, 6th P.M., in El Paso County, Colorado ("Applicant's Property"). The Applicant's Property is more particularly described in the attached Exhibit A legal description.

8. The Dawson, Denver and Arapahoe aquifers of the Denver Basin underlying the Applicant's Property are not nontributary. The Laramie-Fox Hills aquifer underlying the Applicant's Property is nontributary. The Denver and Arapahoe aquifers for the Applicant's Property are more than one mile from any point of contact between any natural stream, including its alluvium. As such, and pursuant to C.R.S. §37-90-137(9)(c) (Vol. 10, 2000), the augmentation requirements for wells into these two not nontributary aquifers will only require the replacement to the affected stream system of a total amount of water equal to four percent of the water withdrawn on an annual basis. Applicant shall not be entitled to construct a well or use water from the not nontributary Dawson, Denver or Arapahoe aquifers until an augmentation plan has been decreed by the Court in accordance with C.R.S. §37-90-137(9)(c) (Vol. 10, 2000).

9. The depth of the aquifers underlying the Applicant's Property are as follows:



<u>Aquifer</u>	<u>Aquifer Depth</u>
Dawson	0 to 410 feet below land surface
Denver	450 to 1,380 feet below land surface
Arapahoe	1,430 to 1,940 feet below land surface
Laramie-Fox Hills	2,230 to 2,550 feet below land surface

The depths of the aquifers underlying Applicant's Property are based upon the best information presently available. The actual depth of each well to be constructed within the respective aquifers will be determined by water availability and actual aquifer conditions.

10. Applicant shall be entitled to withdraw all legally available ground water in the Denver Basin aquifers underlying Applicant's Property. Said amounts can be withdrawn over the 100 year life of the aquifers as set forth in C.R.S. §37-90-137(4) (Vol. 10, 2000). The average annual amounts of ground water available for withdrawal from the underlying Denver Basin aquifers are determined and set forth as follows:

<u>Aquifer</u>	<u>Acres</u>	<u>Saturated Thickness (Feet)</u>	<u>Specific Yield (%)</u>	<u>Annual Ave. Withdrawn (Acre Feet)</u>
Dawson	34.3	160	20	11.0
Denver	34.3	380	17	22.2
Arapahoe	34.3	260	17	15.2
Laramie-Fox Hills	34.3	190	15	9.8

11. Applicant shall be entitled to withdraw an amount of ground water in excess of the annual amount decreed from the Denver Basin aquifers underlying Applicant's Property, so long as the sum of the total withdrawals from all the 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 a decree herein, whichever comes first, and the annual volume of water which Applicant is entitled to withdraw from the aquifer underlying Applicant's Property.

12. Applicant shall be entitled to produce the full legal entitlement from the respective Denver Basin aquifers underlying Applicant's Property through any combination of wells constructed into each aquifer. These wells may be treated as a well field, and may be located at any point within the boundaries of the Applicant's Property without the necessity of filing an amendment

to the application, republishing, or petitioning the Court for the opening of this decree. The pumping rates for each well may vary according to aquifer conditions and well production capabilities. The Applicant shall be entitled to withdraw ground water at rates of flow necessary to withdraw the entire decreed amounts.

13. Well permit applications for the wells to be drilled pursuant to this decree shall be applied for prior to drilling wells into the Denver Basin aquifers. No exact location is required for the wells in this decree, as that information will be provided when the well permit applications are submitted

14. The Applicant shall have the right to use the ground water for all beneficial uses, including, without limitation, domestic, commercial, industrial, irrigation, stock water, recreation, fish and wildlife propagation, fire protection, central water supply for such uses, and also for exchange and augmentation purposes. The nontributary water may be used, reused, and successively used to extinction, both on and off the Applicant's Property. Subject, however, to the relinquishment of the right to consume no more than two percent of such nontributary water withdrawn. 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 not be entitled to construct a well or use water from the not nontributary Dawson, Denver and Arapahoe aquifers until a decreed augmentation plan has been entered by the Court.

15. Water is available from the nontributary aquifers beneath the Applicant's Property and the withdrawal of that water from wells in the amounts of water 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.

#### **Plan for Augmentation**

16. The structures to be augmented are four wells to be completed in the not nontributary Dawson aquifer of the Denver Basin underlying the Applicant's Property, including any replacement wells ("Dawson Aquifer Wells")

17. The Dawson Aquifer Wells are to be used for the water supply for four single family residences upon the Applicant's Property. The maximum annual diversions from the wells shall not exceed 0.8 acre feet per well and a total of 3.2 acre feet for all four wells. The Applicant's consultant has operated the State Engineer's Denver Basin Ground Water Flow Model for the determination of stream depletions from the Dawson aquifer pumping. The actual stream depletions are a maximum of twenty-five percent of the Dawson Aquifer well pumping, assuming 300 years of withdrawal under this plan. The actual stream depletions will therefore be a maximum of 0.2 annual acre feet per residence (0.8 annual diversions times 25 percent), with a total depletion under this plan from all four wells of 0.8 annual acre feet. Attached hereto as Exhibit B is the Dawson Aquifer stream depletion factors under the ground water flow model operated by Applicant's consultant.

18. The water rights to be used for augmentation during pumping are the return flows of the not nontributary Dawson Aquifer Wells to be pumped as set forth in this plan for augmentation. Pursuant to C.R.S. §37-90-137(9)(c) (Vol. 10, 2000), the augmentation obligation for the Dawson Aquifer Wells requires the replacement of actual stream depletions to the extent necessary to prevent any injurious effect.

19 Waste water from the inhouse residential uses shall be disposed of through a nonevaporative septic system which is hereby determined to have return flows to the tributary stream system of ninety percent of the inhouse residential pumping of 0.27 per unit. Inhouse consumptive use is ten percent of diversions and return flows for each inhouse residential use will therefore be ninety percent of the above 0.27 annual acre feet of pumping, or 0.24 acre feet per residence. Total return flows from the inhouse use from the four Dawson Aquifer Wells will be 0.96 annual acre feet. These return flows will adequately augment the tributary stream system in excess of the maximum actual stream depletion amount of 0.8 annual acre feet and will prevent material injury to other vested water rights. These inhouse use return flows are committed to this plan for augmentation and cannot be used for any purpose without a subsequent order of this Court under the Court's retained jurisdiction or under further water rights application filed with this Court.

20. The use of the remaining pumping allotment from the Dawson Aquifer Wells beyond the inhouse use will be for stock watering and for the irrigation of lawns, gardens and landscaping. The irrigation return flows are not used as part of this augmentation plan, but Applicant preserves his claim to those return flows and does not waive his rights thereto.

21. This application was filed in both Water Divisions 1 and 2 because depletions may occur to both divisions. The return flows set forth above as augmentation will accrue to only the Monument Creek system, tributary to Fountain Creek, tributary to the Arkansas River. Under this augmentation plan, the total amount of depletions will be replaced to the Arkansas River Basin as set forth herein, and the Court finds that those replacements are sufficient under this augmentation plan.

22. This plan for augmentation shall have a pumping period of three hundred years. It is necessary for the Applicant to address the replacement of injurious post-pumping depletions which may be caused to the stream system by the Dawson Aquifer Wells beyond the operation of the wells. For the replacement of such post-pumping depletions, the Applicant shall reserve 960 acre feet of water from the nontributary Laramie-Fox Hills aquifer underlying the Applicant's Property, less the amount of actual replacements made during the three hundred year plan. The Applicant's entitlement to the Laramie-Fox Hills aquifer, as previously determined under this decree, shall be reduced by this amount in order to reflect this reservation. The reserved nontributary water will be used to replace injurious post-pumping depletions. This decree, upon recording, shall constitute a covenant running with the land requiring construction of the well to the nontributary Laramie-Fox Hills aquifer and pumping of water to replace injurious post-pumping stream depletions under this decree. Applicant claims that post-pumping depletions will be noninjurious and need not be replaced. To preserve the ability to prove such claim at a later point, the Applicant is allowed the right to invoke

the Court's retained jurisdiction to prove that post-pumping depletions are noninjurious, or that a lesser amount of replacement water is required than reserved herein. Applicant shall have the burden of proof on these matters.

23. 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.

24. 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 is 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 for substitution for water derived by the exercise of the Applicant's Dawson Aquifer wells. As a result of the operation of this plan for augmentation, the depletions from the Dawson Aquifer Well will not result in material injury to the vested water rights of others.

#### **Conclusions of Law**

25. The application for augmentation filed by the Applicant was filed with the Water Clerks in Division No. 1 and Division No. 2, pursuant to C.R.S. §37-92-302(1)(a) and C.R.S. §37-90-137(9)(c) (Vol. 10, 2000). These cases were properly consolidated before Water Division 2.

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

27. The Applicant has complied with C.R.S. §37-90-137(4) (Vol. 10, 2000), and the ground water requested herein is legally available for withdrawal by the requested nontributary wells, and legally available for withdrawal by the requested not nontributary wells upon the entry of a decree approving an augmentation plan pursuant to C.R.S. §37-90-137(9)(c) (Vol. 10, 2000). Applicant is entitled to a decree from this Court confirming its rights to withdraw ground water pursuant to C.R.S. §37-90-137(4) (Vol. 10, 2000).

28. The Denver Basin water rights applied for in this claim are not conditional water rights, but are absolute water rights determined pursuant to C.R.S. §37-90-137 (Vol. 10, 2000). No applications for diligence are required. The claims for nontributary and not nontributary ground water meet the requirements of Colorado law.

29. The determination of the nontributary ground water rights in the Denver Basin aquifers as set forth herein is contemplated and authorized by law. C.R.S. §37-90-137 and C.R.S. §37-92-302 to §37-92-305 (Vol. 10, 2000).

30. 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 for the Dawson Aquifer Wells as described herein, without adversely affecting any other vested water rights in the Arkansas River and South Platte River or their tributaries and when curtailment would otherwise be required to meet a valid senior call for water. C.R.S. §38-92-305(3), (5), and (8) (Vol. 10, 2000).

NOW, THEREFORE, IT IS HEREBY ORDERED, ADJUDGED, AND DECREED AS FOLLOWS:

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

32. The Application for Underground Water Rights and Plan of Augmentation proposal by the Applicant is approved, subject to the terms of this decree.

33. The Applicant shall comply with C.R.S. §37-90-137(9)(b) (Vol. 10, 2000) requiring the relinquishment of the right to consume of up to two percent of the amount of the nontributary ground water withdrawn. Ninety-eight percent of the nontributary ground water withdrawn may thereby be consumed. No plan of augmentation shall be required to provide for such relinquishment.

34. The State Engineer, the Division Engineer, and/or the Water Commissioner shall not, at the request of appropriators, or on their own initiative, curtail the diversion and use of water covered by the Dawson Aquifer Wells and plan for augmentation, so long as the return flows from the annual diversions associated with the Dawson Aquifer Wells 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 Dawson Aquifer Wells 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 regulations 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.

35. 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 characteristics, and that the Applicant need not refile, republish, or otherwise amend this application to request such adjustments. The Court further retains jurisdiction for the Applicant to later seek to prove that post-pumping depletions are noninjurious or that the extent of replacement for post-pumping depletions is less than the amount of water reserved herein

36. The Court shall retain jurisdiction for so long as depletions occur to the South Platte River system in order to reconsider whether the replacement of depletions to only the Monument

Creek system, instead of the South Platte River system, is causing material injury to the vested water rights tributary to the South Platte River. Any person may invoke the Court's retained jurisdiction at any time that Applicant is causing depletions, including ongoing post-pumping depletions to the South Platte River system and is replacing such depletions to only Monument Creek. 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 the alleged material injury and for requesting that the Court evaluate injury to vested water rights associated with the above replacement of depletions under this decree, together with the 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 and that Applicant's failure to replace depletions to the South Platte River system is causing material injury to water rights owned by that party invoking the Court's retained jurisdiction, except that the State and Division Engineer may invoke the Court's retained jurisdiction by establishing a prima facie case that material injury is occurring to any vested or conditionally decreed water rights in the South Platte River system due to the location of Applicant's replacement water. If the Court finds that those facts are to be established, the Applicant shall thereupon have the burden of proof to show (a) that any modification sought by the Applicant will avoid material injury to other appropriators, or (b) that any modification sought by the petitioner is not required to avoid material injury to appropriators, or (c) that any term or condition proposed by Applicant in response to the petition does avoid material injury to other vested water rights.

37. Pursuant to the provisions of §37-92-304(6) (Vol. 10, 2000), this plan for augmentation decreed herein shall be subject to the reconsideration of this Court, for the purpose of evaluating injury to vested water rights, for a period of three years from the date of this decree. Any person, within the three year 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 evaluate injury to 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 to be established, Applicant shall thereupon have the burden of proof to show: (a) that any modification sought by Applicant will avoid material injury to other appropriators, or (b) that any modification sought by the petitioner is not required to avoid material injury to appropriators, or (c) that any term or condition proposed by Applicant in response to the petition does avoid material injury to other vested water rights. If no such petition is filed within the three year 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.

38. The Court determines and orders that the State Engineer shall issue well permits in accordance with the decree entered herein. Should Applicant fail to construct any well prior to the expiration of the well permit, Applicant may reapply to the State Engineer for a new well permit and the State Engineer shall issue a new well permit with terms and conditions no more burdensome than those contained herein.

39. The wells shall be installed and metered as reasonably required by the Division Engineer and the State Engineer. Each well shall be equipped with a totalizing flow meter and Applicant shall submit diversion records to the Division Engineer or his representative on an annual basis or as otherwise requested by the Division Engineer. The Applicant shall also provide accountings to the Division Engineer and Water Commissioner as required by them to demonstrate compliance under this plan of augmentation, a representative copy of which accounting is attached hereto as Exhibit C

40. This decree shall be recorded. Copies of this decree, when entered by the Court, shall be mailed to the parties as required by statute.

DATED THIS 21<sup>st</sup> day of May, 2001.

BY THE COURT:

Water Referee  
Water Division 2  
State of Colorado

EXHIBIT A

That portion of the East half of the Southeast quarter of Section 13 in Township 12 South, Range 66 West of the 6th P.M., in El Paso County, Colorado described as follows:

Commencing at the Southwest corner of the East half of the Southeast quarter of said Section 13; thence Northerly on the West line of the East half of said Southeast quarter 1547.24 feet for the point of beginning of the tract to be described hereby; Thence Easterly parallel with the South line of said Section 13 a distance of 717.75 feet; thence Southerly parallel with the West line of the East half of said Southeast quarter 1547.24 feet to intersect the South line of said Section 13; thence Easterly on said South line to the Southeast corner of said Section 13; thence Northerly on the East line of said Section 13 to the Northeast corner of the South half of the Northeast quarter of the Southeast quarter of said Section 13; thence Westerly on the North line of the South half of the Northeast quarter of the Southeast quarter of said Section 13 to the Northwest corner thereof; thence Southerly on the West line of the Northeast quarter of the Southeast quarter of said Section 13 to the point of beginning, except the South 30 feet thereof.



EXHIBIT B

Table 1  
Diverse Aquifer Stream Depletion Factors  
Single Property  
(as % q/Q)

YRS	MONUMENT	W-PRESS	E-FLUW	W-CHERRY	B-CHERRY	CHERRY	KIOWA	KETTLE	SAND	BIG SANDY	SQUIRREL	TOTAL
10	0.09	0.00	0.00	0.00	0.01	0.00	0.00	1.86	0.07	0.00	0.00	2.08
20	0.24	0.00	0.00	0.01	0.04	0.00	0.00	3.17	0.07	0.00	0.00	3.53
30	0.43	0.00	0.00	0.02	0.09	0.00	0.00	4.00	0.17	0.00	0.00	4.71
40	0.64	0.00	0.00	0.04	0.15	0.00	0.00	4.81	0.34	0.00	0.00	5.76
50	0.83	0.00	0.00	0.06	0.23	0.00	0.00	5.10	0.51	0.00	0.01	6.75
60	1.05	0.00	0.00	0.10	0.32	0.00	0.00	5.49	0.72	0.00	0.01	7.72
70	1.26	0.00	0.00	0.15	0.42	0.00	0.01	5.83	0.99	0.00	0.02	8.67
80	1.45	0.00	0.00	0.20	0.52	0.00	0.01	6.13	1.26	0.00	0.03	9.61
90	1.63	0.00	0.00	0.26	0.63	0.01	0.02	6.37	1.56	0.00	0.04	10.54
100	1.82	0.00	0.00	0.33	0.74	0.01	0.02	6.61	1.88	0.00	0.05	11.46
110	2.01	0.00	0.00	0.41	0.85	0.01	0.03	6.82	2.18	0.00	0.07	12.32
120	2.19	0.00	0.00	0.49	0.96	0.02	0.04	7.01	2.49	0.00	0.08	13.29
130	2.36	0.00	0.01	0.57	1.08	0.02	0.05	7.18	2.81	0.00	0.10	14.19
140	2.53	0.00	0.01	0.66	1.19	0.03	0.07	7.34	3.13	0.00	0.12	15.03
150	2.70	0.01	0.01	0.74	1.30	0.04	0.09	7.49	3.43	0.00	0.14	15.94
160	2.86	0.01	0.01	0.82	1.40	0.05	0.11	7.62	3.74	0.00	0.16	16.78
170	3.01	0.01	0.02	0.90	1.51	0.06	0.13	7.72	4.00	0.00	0.18	17.60
180	3.16	0.01	0.02	0.99	1.62	0.07	0.15	7.85	4.32	0.00	0.20	18.42
190	3.31	0.02	0.02	1.08	1.72	0.08	0.18	7.97	4.60	0.00	0.23	19.22
200	3.46	0.02	0.03	1.17	1.83	0.10	0.21	8.01	4.87	0.00	0.25	20.01
210	3.60	0.03	0.03	1.26	1.93	0.11	0.24	8.12	5.13	0.00	0.28	20.78
220	3.74	0.03	0.04	1.35	2.04	0.13	0.27	8.26	5.38	0.00	0.30	21.54
230	3.88	0.04	0.05	1.44	2.14	0.14	0.30	8.35	5.63	0.00	0.32	22.29
240	4.01	0.04	0.05	1.53	2.23	0.16	0.33	8.43	5.86	0.00	0.35	23.03
250	4.15	0.05	0.06	1.62	2.33	0.18	0.37	8.51	6.09	0.00	0.37	23.75
260	4.28	0.05	0.06	1.71	2.43	0.20	0.41	8.58	6.31	0.00	0.40	24.46
270	4.40	0.07	0.07	1.80	2.53	0.22	0.45	8.63	6.52	0.00	0.44	25.15
280	4.53	0.08	0.08	1.89	2.63	0.24	0.49	8.72	6.72	0.00	0.48	25.83
290	4.65	0.08	0.09	1.98	2.72	0.27	0.53	8.78	6.91	0.00	0.51	26.52
300	4.77	0.10	0.09	2.07	2.83	0.29	0.57	8.84	7.10	0.00	0.49	27.17
310	4.81	0.11	0.10	2.17	2.93	0.32	0.62	8.92	7.26	0.00	0.51	27.77
320	4.77	0.12	0.11	2.26	3.03	0.34	0.67	9.01	7.57	0.00	0.54	28.48
330	4.69	0.13	0.12	2.34	3.08	0.37	0.71	9.00	7.64	0.00	0.56	29.14
340	4.60	0.14	0.13	2.41	3.12	0.40	0.76	8.94	7.65	0.00	0.58	29.84
350	4.51	0.16	0.14	2.48	3.14	0.43	0.81	8.81	7.61	0.00	0.60	30.58
360	4.41	0.17	0.15	2.53	3.15	0.45	0.86	8.65	7.54	0.00	0.61	31.33
370	4.32	0.19	0.16	2.57	3.15	0.48	0.91	8.54	7.53	0.00	0.63	32.09
380	4.22	0.20	0.17	2.61	3.14	0.51	0.96	8.41	7.48	0.00	0.64	32.86
390	4.14	0.22	0.18	2.63	3.13	0.54	1.01	8.29	7.42	0.00	0.65	33.61
400	4.06	0.24	0.18	2.65	3.11	0.57	1.06	8.17	7.34	0.00	0.66	34.37
410	3.98	0.25	0.19	2.66	3.09	0.60	1.11	8.04	7.26	0.00	0.66	35.14
420	3.90	0.27	0.20	2.67	3.07	0.62	1.15	7.92	7.18	0.00	0.66	35.91
430	3.83	0.29	0.21	2.67	3.04	0.65	1.19	7.80	7.10	0.00	0.66	36.68
440	3.76	0.31	0.22	2.67	3.02	0.67	1.24	7.68	7.02	0.00	0.66	37.45
450	3.69	0.33	0.23	2.66	2.99	0.70	1.28	7.56	6.94	0.00	0.66	38.22
460	3.62	0.34	0.24	2.65	2.96	0.72	1.32	7.44	6.86	0.00	0.66	39.00
470	3.55	0.36	0.25	2.64	2.93	0.75	1.35	7.32	6.78	0.00	0.66	39.78
480	3.49	0.38	0.26	2.63	2.89	0.77	1.39	7.20	6.70	0.00	0.65	40.56
490	3.42	0.40	0.26	2.61	2.86	0.79	1.42	7.08	6.62	0.00	0.65	41.34
500	3.36	0.42	0.27	2.59	2.83	0.81	1.45	6.96	6.54	0.00	0.64	42.12
510	3.30	0.44	0.27	2.57	2.79	0.83	1.48	6.84	6.46	0.00	0.64	42.90
520	3.24	0.45	0.28	2.54	2.76	0.85	1.51	6.72	6.38	0.00	0.64	43.68
530	3.18	0.47	0.29	2.52	2.72	0.86	1.54	6.60	6.30	0.00	0.64	44.46
540	3.12	0.49	0.29	2.49	2.69	0.88	1.56	6.48	6.22	0.00	0.64	45.24
550	3.06	0.50	0.30	2.47	2.66	0.89	1.59	6.36	6.14	0.00	0.64	46.02
560	3.01	0.52	0.30	2.44	2.62	0.91	1.61	6.24	6.06	0.00	0.64	46.80
570	2.95	0.54	0.31	2.41	2.59	0.92	1.63	6.12	5.98	0.00	0.64	47.58
580	2.90	0.55	0.31	2.39	2.55	0.93	1.65	6.00	5.90	0.00	0.64	48.36
590	2.85	0.57	0.31	2.36	2.52	0.94	1.67	5.88	5.82	0.00	0.64	49.14
600	2.80	0.58	0.32	2.33	2.48	0.96	1.68	5.76	5.74	0.00	0.64	50.00

Well No 13/125/65W (21,12)

				From	To
				Yearly	
				(gal.)	(af)
Lot No.	Well Permit No.	This Year October 31	Last Year October 31	Total	Total
1					
2					
3					
4					
1	Total No. Homes				
2	Total				

3	Total Withdrawal (2)	+		af
4	Stream Depletion Factor Total from Table I rounded up to nearest 10 years since pumping began	*100		
5	Depletion	=		af
6	Total No. of Homes (1)	+		af
		*27	0.27	
7	Total	=		af
8	Accretion (Depletion)	(7)-(5)		af

Table I

YRS	Arkansas River	So. Plastic	Total	YRS	Arkansas River	So. Plastic	Total
10	2.07	0.01	2.08	310	19.00	5.65	24.65
20	3.48	0.05	3.53	320	17.92	5.86	23.78
30	4.60	0.11	4.71	330	17.13	6.04	23.17
40	5.57	0.19	5.76	340	16.49	6.20	22.69
50	6.46	0.29	6.75	350	15.93	6.35	22.28
60	7.28	0.42	7.70	360	15.40	6.45	21.85
70	8.08	0.57	8.65	370	14.91	6.55	21.46
80	8.84	0.72	9.56	380	14.41	6.63	21.04
90	9.59	0.90	10.49	390	13.96	6.70	20.66
100	10.30	1.08	11.38	400	13.51	6.75	20.26
110	11.01	1.27	12.28	410	13.07	6.79	19.86
120	11.69	1.47	13.16	420	12.64	6.83	19.47
130	12.35	1.68	14.03	430	12.24	6.86	19.10
140	13.00	1.89	14.89	440	11.84	6.89	18.73
150	13.62	2.10	15.72	450	11.45	6.91	18.36
160	14.22	2.29	16.51	460	11.08	6.91	17.99
170	14.79	2.50	17.29	470	10.71	6.93	17.64
180	15.34	2.71	18.05	480	10.38	6.92	17.30
190	15.88	2.92	18.80	490	10.04	6.92	16.96
200	16.41	3.15	19.56	500	9.72	6.92	16.64
210	16.90	3.36	20.26	510	9.41	6.90	16.31
220	17.38	3.59	20.97	520	9.12	6.88	16.00
230	17.86	3.81	21.67	530	8.83	6.87	15.70
240	18.30	4.03	22.33	540	8.56	6.84	15.40
250	18.75	4.26	23.01	550	8.29	6.82	15.11
260	19.17	4.48	23.65	560	8.05	6.79	14.84
270	19.57	4.71	24.28	570	7.80	6.77	14.57
280	19.97	4.94	24.91	580	7.57	6.73	14.30
290	20.34	5.17	25.51	590	7.35	6.70	14.05
300	20.71	5.40	26.11	600	7.14	6.67	13.81

# CENTRAL FILES

<b>DISTRICT COURT, WATER DIVISION 2, COLORADO</b>	
Court Address: 320 West 10th Street, #203 Pueblo, CO 81003	
<b>CONCERNING THE APPLICATION FOR WATER RIGHTS OF:</b>	
<b>ROBERT W. SLAGLE</b>	
<b>IN EL PASO AND DOUGLAS COUNTIES.</b>	
Attorney or Party Without Attorney (Name and Address):	
Phone Number:	E-mail:
FAX Number:	Atty. Reg.#:
<b>JUDGMENT AND DECREE</b>	

FILED IN THE OFFICE OF THE CLERK, DISTRICT COURT WATER DIV NO 2 STATE OF COLORADO	
JUN 29 2001	
CLERK	
▲	▲
<b>COURT USE ONLY</b>	
Case Number:	
00CW99 (Division 2)	
000CW196 (Division 1)	

THE COURT FINDS that no protest has been filed to the Ruling of the Water Referee within the time provided by law, and that said Ruling should be confirmed, approved and adopted.

IT IS, THEREFORE, ORDERED, ADJUDGED AND DECREED that the Findings of Fact, Judgment and Decree Granting Underground Water Rights and Plan for Augmentation entered on May 21, 2001, be and is incorporated herein by reference and is confirmed, approved and adopted as the judgment of this Court.

Dated: June 29, 2001.

BY THE COURT:

  
JOHN E. ANDERSON, III  
WATER JUDGE

RECEIVED

JUL 13 2001

WATER DIVISION 2  
STATE OF COLORADO

## Larry Gilland

---

**From:** crs crshea.com <crs@crshea.com>  
**Sent:** Monday, November 21, 2022 4:50 PM  
**To:** Larry Gilland  
**Subject:** Fwd: [EXTERNAL]Water Court Document link for your property at 5740 Burgess Road

Larry,  
Here is the well info.  
Charlie

Sent from my iPad

Begin forwarded message:

**From:** "Renehan, Jeffrey" <jeffrey.renehan@linquest.com>  
**Date:** May 17, 2022 at 12:49:03 PM MDT  
**To:** Larry Gilland <larryg@lgastudios.com>, "crs crshea.com" <crs@crshea.com>, JEFF AND JULIE RENEHAN <jjmatrenehan@aol.com>, Brad Renehan <renehanranch@outlook.com>, jbplatform@hotmail.com  
**Subject:** [EXTERNAL]Water Court Document link for your property at 5740 Burgess Road

Here is the info on the wells. BLUF: Click the "at this link" below. Doug Hollister says we are in great shape, we have a lot of adjudicated water, can access all of Dawson aquifers and since the 4 wells have been adjudicated, it will make the process go a lot faster.

Let me know if you see something different.

Jeff Renehan



LinQuest Corporation  
Senior Vice President  
Mission Operations Services  
Office: 719-358-5827 Mobile: 719-660-4951  
[jeffrey.renehan@linquest.com](mailto:jeffrey.renehan@linquest.com)

---

This message and any attachments are intended only for the addressee and may contain information that is privileged and confidential. If you have received this message in error, please do not read, use, copy, distribute, or disclose the contents of the message and any attachments. Instead, please delete the message and any attachments and notify the sender immediately. Thank you.

---

**From:** Hollister - DNR, Doug <doug.hollister@state.co.us>  
**Sent:** Tuesday, May 17, 2022 12:06 PM  
**To:** Renehan, Jeffrey <jeffrey.renehan@linquest.com>  
**Cc:** Henrichs - DNR, Dan <dan.henrichs@state.co.us>; Rachel Zancanella <rachel.zancanella@state.co.us>  
**Subject:** [EXTERNAL]Water Court Document link for your property at 5740 Burgess Road

Mr. Renehan, [at this link](#), you can access all the documents related to the Division 2 Water court case 00CW0099 that adjudicated the Denver Basin Aquifers underneath the subject property. These documents can be found under the "Imaged Documents" tab of the webpage.

The screenshot shows a web browser window with the URL [dwr.state.co.us/Tools/Structures/1006341](http://dwr.state.co.us/Tools/Structures/1006341). The page title is "Structures" and it features a navigation menu with tabs for "Structure Overview", "Diversion Records", "Water Rights", "Measuring Points", and "Irrigated Lands". The "Structure Overview" tab is active, displaying the following information:

<b>Structure Name</b>	SLAGLE NNT DAWSON (1006341)	<b>Associated Permits</b>
<b>Structure Type</b>	WELL FIELD	<b>Water Source Type</b>
<b>CIU Code</b>	Active Structure with contemporary diversion records (A)	<b>Water Source</b>

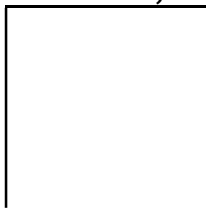
Below this is a "Location" section with a dropdown arrow, containing the following details:

<b>Division</b>	2
<b>Water District</b>	10
<b>County</b>	EL PASO
<b>Designated Basin</b>	
<b>Management District</b>	

This plan is for a four lot subdivision. The El Paso County subdivision process requires the property owner to prove a 300 year water supply for new subdivision applications and this water court case does that.

Please let me know if you have any questions.

**Doug Hollister**  
**District 10 Water Commissioner**  
**North Regional Team Leader**  
**Districts 10, 14, and 15**



C 719.338.2012  
4255 Sinton Rd., Colorado Springs, CO 80907  
[doug.hollister@state.co.us](mailto:doug.hollister@state.co.us) | [dwr.colorado.gov](http://dwr.colorado.gov)

*Appendix D*

***El Paso County Land Development Code  
Water Quality Requirements and Results  
Dawson Confined Aquifer  
For Rehahan  
Sampled July 5, 2023***

<b>Compound</b>	<b>Units</b>	<b>MCL/SMCL</b>	<b>Result</b>
Antimony	mg/l	0.006	0
Arsenic	mg/l	0.01	0
Barium	mg/l	2	0.0255
Beryllium	mg/l	0.004	0
Cadmium	mg/l	0.005	0
Chromium	mg/l	0.1	0
Cyanide (Total)	mg/l	0	0
Fluoride	mg/l	4	0.97
Mercury	mg/l	0.002	0
Nitrate as N	mg/l	10	0
Nitrite as N	mg/l	1	0
Selenium	mg/l	0.05	0
Thallium	mg/l	0.002	0
Aluminum	mg/l	0.05	0.002
Chloride	mg/l	250	15.5
Langelier Index			-0.22
Iron	mg/l	0.3	0.056
Manganese	mg/l	0.05	0.0497
pH		6.5 - 8.5	7.67
Silver	mg/l	0.1	0
Sulfate	mg/l	250	89.4
TDS	mg/l	500	433
Zinc	mg/l	5	0
Gross Alpha/Beta	pCi/l	15	5.5
Combined Radium 226+228	pCi/l	5	2.7
E.Coli	#/100 ml	Absent	Absent
Total Coliform	#/100 ml	Absent	Absent

Green = Result below MCL - Acceptable Water Quality



**Hazen Research, Inc.**  
4601 Indiana Street  
Golden, CO 80403 USA  
Tel: (303) 279-4501  
Fax: (303) 278-1528

Lab Control ID: 23H02189

Received: Jul 07, 2023

Reported: Aug 21, 2023

Purchase Order No.

None Received

Customer ID: 05377Z

Account ID: Z01034

Rebecca Manzanares  
Colorado Analytical Laboratories, Inc.  
10411 Heinz Way  
Commerce City, CO 80640

# ANALYTICAL REPORT

*Report may only be copied in its entirety.  
Results reported herein relate only to discrete samples  
submitted by the client. Hazen Research, Inc. does not warrant  
that the results are representative of anything other than the  
samples that were received in the laboratory*

By: *Roxanne Sullivan*  
Roxanne Sullivan  
Analytical Laboratories Director



Customer ID: 05377Z  
 Account ID: Z01034

**ANALYTICAL REPORT**

Rebecca Manzanaras  
 Colorado Analytical Laboratories, Inc.

<b>Lab Sample ID</b>		23H02189-001						
<b>Customer Sample ID</b>		230706213-01D - Renehan Property - Renehan Well #1 sampled on 07/05/23 @ 0929						
<b>Parameter</b>	<b>Units</b>	<b>Code</b>	<b>Precision*</b>		<b>Detection</b>	<b>Analysis</b>		
			<b>Result</b>	<b>+/-</b>	<b>Limit</b>	<b>Method</b>	<b>Date / Time</b>	<b>Analyst</b>
Gross Alpha	pCi/L	T	2.5	1.9	0.1	SM 7110 B	7/28/23 @ 1306	KT
Gross Beta	pCi/L	T	<3.0	2.5	3.0	SM 7110 B	7/28/23 @ 1306	KT

<b>Lab Sample ID</b>		23H02189-002						
<b>Customer Sample ID</b>		230706213-01E - Renehan Property - Renehan Well #1 sampled on 07/05/23 @ 0929						
<b>Parameter</b>	<b>Units</b>	<b>Code</b>	<b>Precision*</b>		<b>Detection</b>	<b>Analysis</b>		
			<b>Result</b>	<b>+/-</b>	<b>Limit</b>	<b>Method</b>	<b>Date / Time</b>	<b>Analyst</b>
Radium-226	pCi/L	T	0.6	0.3	0.2	SM 7500-Ra B	8/9/23 @ 0836	KT
Radium-228	pCi/L	T	2.1	0.8	0.2	EPA pg.19	8/14/23 @ 1115	JR

Certification ID's: CO/EPA CO00008

\*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Replicate Sample (AR) = As Received < = Less Than

**Batch QC Summary Form**

Analyte: Gross Alpha

Control Standard/LFB: ID: C11a-004 pCi/mL: 57.4 (use 1 diluted)

Spike Solution: ID: C11a-004 pCi/mL: 57.4 (use 1 mL)

Spike Recovery Calculation: Sample: Tap\*

$$\text{Calculation: } \frac{(63.0) - (1.000) - (0.5) - (0.200)}{57.4} \times 100 = 110\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	x		
Spike Recovery	70 - 130 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap	x		

\* Required for batch size greater than 10 samples.

Conclusions:

    x Batch QC Passes\*\*  
       Batch QC Fails  
       Batch QC Passes, with exceptions\*\*:

Reruns Required: \_\_\_\_\_

Narrative:

\*\*All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

23H02147 \_\_\_\_\_  
23H02159 \_\_\_\_\_  
23H02149 \_\_\_\_\_  
23H02168 \_\_\_\_\_  
23H02170 \_\_\_\_\_  
23H02178 \_\_\_\_\_  
23H02185 \_\_\_\_\_  
23H02189 \_\_\_\_\_  
23H02033 \_\_\_\_\_  
 \_\_\_\_\_

Evaluator:

*Roxanne Sullivan* \_\_\_\_\_

08/02/2023

Date

**Batch QC Summary Form**

Analyte: Gross Beta

Control Standard/LFB: ID: C11a-004 pCi/mL: 44 (use 1 diluted)

Spike Solution: ID: C11a-004 pCi/mL: 44 (use 1 mL)

Spike Recovery Calculation: Sample: Tap\*

$$\text{Calculation: } \frac{(41.1) - (1.000) - (0.0)}{44} \times 100 = 93\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	x		
Spike Recovery	80 - 120 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap	x		

\* Required for batch size greater than 10 samples.

Conclusions:

  x Batch QC Passes\*\*  
       Batch QC Fails  
       Batch QC Passes, with exceptions\*\*:

Reruns Required: \_\_\_\_\_

Narrative:

\*\*All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

23H02147 \_\_\_\_\_  
23H02159 \_\_\_\_\_  
23H02149 \_\_\_\_\_  
23H02168 \_\_\_\_\_  
23H02170 \_\_\_\_\_  
23H02178 \_\_\_\_\_  
23H02185 \_\_\_\_\_  
23H02189 \_\_\_\_\_  
23H02033 \_\_\_\_\_  
 \_\_\_\_\_

Evaluator:

*Roxanne Sullivan* \_\_\_\_\_

08/02/2023

Date

**Batch QC Summary Form**

Analyte: Radium-226

Control Standard/LFB: ID: C73-001 pCi/mL: 21.1 (use 2 diluted)

Spike Solution: ID: C73-001 pCi/mL: 21.1 (use 2 mL)

Spike Recovery Calculation: Sample: 23H02186-01c

$$\text{Calculation: } \frac{(40.5) (1.000) - (2.5) (1.000)}{42.2} \times 100 = 90\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	x		
Spike Recovery	80 - 120 %	x		
Blank	< or = 3 x Uncertainty	x		
Duplicate 1	95% confidence interval overlap	x		
Duplicate 2 *	95% confidence interval overlap			x

\* Required for batch size greater than 10 samples.

Conclusions:

    x Batch QC Passes\*\*  
       Batch QC Fails  
       Batch QC Passes, with exceptions\*\*:

Reruns Required: \_\_\_\_\_

Narrative:

\*\*All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

23H02178 \_\_\_\_\_  
23H02186 \_\_\_\_\_  
23H02189 \_\_\_\_\_  
23H02197 \_\_\_\_\_  
23H02214 \_\_\_\_\_  
23H02218 \_\_\_\_\_  
23H02219 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Evaluator:

*Rosanne Sullivan* \_\_\_\_\_

09/30/2123

Date

**Batch QC Summary Form**

Analyte: Radium-228

Control Standard/LFB: ID: C6-005 pCi/mL: 14.5 (use 5 diluted)

Spike Solution: ID: C6-005 pCi/mL: 14.5 (use 5 mL)

Spike Recovery Calculation: Sample: 23H02189-2b

$$\text{Calculation: } \frac{(75.3) (1.000) - (2.1) (1.000)}{72.5} \times 100 = 101\%$$

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	<b>x</b>		
Spike Recovery	80 - 120 %	<b>x</b>		
Blank	< or = 3 x Uncertainty	<b>x</b>		
Duplicate 1	95% confidence interval overlap	<b>x</b>		
Duplicate 2 *	95% confidence interval overlap			<b>x</b>

\* Required for batch size greater than 10 samples.

Conclusions:

    **x** Batch QC Passes\*\*  
     Batch QC Fails  
     Batch QC Passes, with exceptions\*\*:

Reruns Required: \_\_\_\_\_

Narrative:

\*\*All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluated in this report.

Batch Listing by Lab Control Number:

23H02177 \_\_\_\_\_  
23H02178 \_\_\_\_\_  
23H02186 \_\_\_\_\_  
23H02189 \_\_\_\_\_  
23H02197 \_\_\_\_\_  
23H02214 \_\_\_\_\_  
23H02218 \_\_\_\_\_  
23H02229 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Evaluator:

*Roxanne Sullivan* \_\_\_\_\_

08/17/2023

Date



LABORATORIES, INC.

23102189

Ship To: Hazen Research  
 Preserved: Y  N   
 HNO3 Lot #: N/A  
 Date Preserved: N/A

<b>Report To Information</b> Company Name: Colorado Analytical Laboratory Report To: Rebecca Manzanares E-Mail: rebeccamanzanares@coloradolab.com		<b>Bill To Information:</b> (if different from report to)		<b>Project Name</b> Renehan Property	
<b>Address:</b> 10411 Heinz Way Commerce City, CO 80640 Phone: 303-659-2313		<b>Address:</b>		CAL TASK 230706213 JML	
				<b>Compliance Samples:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <b>Submit Data to CDPHE:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

**Tests Requested**

Sample Date/Time	Sample ID	Matrix	Radium 226 (Sub)	Gross Alpha/Beta (Sub)	Radium 228 (Sub)											Container Type						
7/5/23	9:29 AM 230706213-01D - Renehan Well #1	Water - Drinking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	1L - Unpreserved
7/5/23	9:29 AM 230706213-01E - Renehan Well #1	Water - Drinking	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																	4 - 1L - Unpreserved

Comment:

ALL preserved 07/10/23 1530 Jk Ed PK=7  
 per V 07/10/23 910 Jk PK=2

Relinquished by: (Signature) <i>ASLANK</i>	Date: Time: 7/7/23	Received by: (Signature)	Date: Time:	Relinquished by: (Signature)	Date: Time:	Received by: (Signature) RECEIVED JUL 07 2023	Date: Time: Jk 1530
---	-----------------------	--------------------------	-------------	------------------------------	-------------	--	------------------------