

TRINITY RANCH

WATER RESOURCES REPORT

for
Trinity Ranch Subdivision

Preliminary Plan

Include PCD file no.

July 28, 2026

This report does not contemplate the commercial lots. The commercial area is included in the preliminary plan boundary, and therefore need to be contemplated. See comments on the prelim plan drawings for more information.

Prepared By:



13511 Northgate Estates Dr., Ste. 250, Colorado Springs, Colorado 80921

Executive Summary:

Water Resources Report – Trinity Ranch

Ryan W. Farr of Monson, Cummins, Shohet & Farr, LLC, on behalf of 20165 Howle Street, LLC, a California limited liability company (“Howle Street”), provide the following Water Resources/Wastewater Disposal Report in support of the Trinity Ranch Subdivision. The attorneys at Monson, Cummins, Shohet & Farr, LLC (“MCSF”) have extensive experience in water related matters, with Mr. Farr having practiced water law almost exclusively for over 12 years. MCSF has substantial experience with Denver Basin groundwater resources, augmentation plans, designated basin replacement plans, subdivision proceedings, and rural water usage. Given his experience, Mr. Farr should be considered a “qualified professional” as concerns water resources, as discussed at Section 8.4.7(B)(1)(c) of the El Paso County Land Development Code. This Report, prepared in conjunction with other professionals, is intended to demonstrate to the El Paso County Planning Commission and the Board of County Commissioners the sufficiency in terms of quantity and dependability, of the water rights and resources to be utilized in the proposed Trinity Ranch Subdivision (the “Subdivision”), in El Paso County, Colorado.

The property where the Subdivision will be located consists of approximately 137.92 acres located in the SE1/4 of Section 9, Township 14 South, Range 63 West of the 6th P.M., County of El Paso, State of Colorado, which is off Highway 94 but does not have a current street address (the “Property”). The proposed Subdivision includes thirty-five (35) residential lots. The thirty-five residential lots in the Subdivision are to be provided water and sewer/septic services through on-site individual wells and Individual Septic Disposal Systems (“ISDS”), respectively. There are no existing wells on the Property. As shown on **Exhibit A**, the thirty-five residential lots will be approximately 2.5+ acres in size, ranging from 2.52 – 2.95 acres in size.

Each lot will be provided 0.29 acre-feet per year for water supply. It is expected that each of the homes on each of the thirty-five residential lots in the Subdivision will require an average of 0.26 annual acre-feet of water supply for in-house uses, for a total of 9.1 annual acre-feet for in-house uses. This leaves an additional amount of 0.03 acre-feet for each of the thirty-five lots, for a total of 1.05 acre-feet for all thirty-five lots annually, for all other uses on the lots. Such water provision shall be provided through thirty-five individual wells to the not-nontributary Arapahoe aquifer underlying the Property in accordance with the Colorado Ground Water Commission Findings and Order in Determination No 4336-BD (“Determination”).

The water resources to be utilized on the residential lots in the Subdivision are typical of rural residential development in El Paso County, Colorado. The Determination demonstrates a sufficient quantity and reliability of water to support compliance with El Paso County’s 300-year water supply rules for subdivisions of this nature.

I. INTRODUCTION. The purpose of this report is to provide a preliminary outline of the water resources, and associated wastewater requirements, necessary for approval of

the Trinity Ranch Subdivision, as proposed.

1.1 New Development Description: The Subdivision consists of approximately 137.92 acres located in the SE1/4 of Section 9, Township 14 South, Range 63 West of the 6th P.M., County of El Paso, State of Colorado. The Property will be subdivided into thirty-five lots. **Exhibit A**, attached hereto, depicts a proposed lot layout for the Subdivision and includes an area/vicinity map.

II. PROJECTION OF WATER NEEDS

2.1 Analysis of Water Demands: It is expected that the thirty-five residential lots in the Subdivision will utilize thirty-five individual wells drilled to the Arapahoe aquifer, which will be used for domestic, irrigation of lawn, garden, and greenhouse, commercial, stock water, and also for storage and replacement purposes associated with such uses, and in accordance with the Determination. There are no existing wells on the Property. It is anticipated that each of the wells will utilize a maximum total of 0.29 acre-feet of water per year, with 0.26 acre-feet to be used in-house, consistent with Section 8.4.7(B)(7)(d) of El Paso County, Colorado Land Development Code, with each lot's remaining amount of groundwater being used for other permitted uses under the Determination. The provided Water Supply Information Summary accompanying this application estimates use 9.1 annual acre-feet for in-house uses and 1.05 acre-feet for stock watering and irrigation uses for the thirty-five lots for an overall total annual demand of 10.15 acre-feet and a total demand over the course of 300 years of 3,045 acre-feet.

All wells will produce from the not-nontributary Arapahoe aquifer at a flow rate of 10 to 15 gallons per minute, based upon past production of nearby wells. Based on past experience with the numerous Arapahoe aquifer wells serving rural residential properties throughout El Paso County, this rate of production should be more than sufficient to meet demand for in-house use.

III. PROPOSED WATER RIGHTS AND FACILITIES

3.1 Water Rights: A determination for the Arapahoe aquifer beneath the Property was issued by the Colorado Ground Water Commission Findings and Order in Determination No. 4336-BD on April 5, 2022 ("Determination"), attached hereto as **Exhibit B**. The Determination determined that underlying the Property there is 3,050 acre-feet of available supplies within in the not-nontributary Arapahoe aquifer. The Determination also set forth that the Arapahoe aquifer at this location is not-nontributary requiring statutory replacement of 4% of the water withdrawn annually. As such, any non-exempt uses of the Arapahoe aquifer at this location must establish at the time of well permitting that 4% of the water withdrawn annually is replaced to the stream system. Such replacement will be made by the use of non-evaporative ISDS on each lot. However, no replacement plan is required to be issued before such well permit applications can be made. The Determination is recorded at Reception No. 222048769 at the El Paso County Clerk and Recorder's Office.

The statutory required replacement amount of 4% of annual withdrawals from use of the not-nontributary Arapahoe aquifer will be accomplished through non-evaporative septic system return flows during pumping. As this development is within the Upper Black

Squirrel Creek Designated Groundwater Basin, there is no requirement to replace post-pumping depletions. Therefore, the available supplies from the not-nontributary Arapahoe aquifer will meet both legal and physical needs on a 300-year basis.

3.2 Source of Supply: Rural residential water supply demand will be met using thirty-five to-be-constructed not-nontributary Arapahoe aquifer formation wells pursuant to the Determination. Consistent with El Paso County Land Development Code Section 8.4.7(B)(3)(c)(v), a subdivision utilizing individual wells need not make a further showing as to source of supply.

3.3 Pumping Rates for Service: The Arapahoe aquifer in the location of the Subdivision is generally known to produce approximately 10-15 gallons per minute, more than sufficient for single family residential and accessory uses. Such flow rates are typical of individual wells on subdivisions east of Colorado Springs, including for firefighting purposes.

3.4 Water Quality: All wells to be drilled on these thirty-five lots will be to the not-nontributary Arapahoe aquifer. Applicant's engineer obtained water samples from a not-nontributary Arapahoe well located within ½ a mile from Property on March 31, 2022, and had those samples tested. The report showing the results of such testing is attached hereto as **Exhibit C**. The report explains that there are no concerns as to water quality from the Arapahoe aquifer at this location with mention that the Langlier Index shows that the water is slightly corrosive but non scale forming. As such, the only recommendation is for homeowners to install PEX piping to reduce corrosion potential.

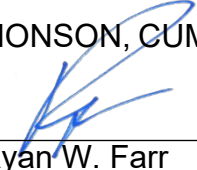
IV. WASTEWATER AND WASTEWATER TREATMENT. While soils, geology, and geotechnical analysis has been or will be provided by other of Applicant's consultants, Applicant provides a summary of ISDS to be utilized herein, as relates to water usage and resulting return flows.

4.1 Septic/Wastewater Loads: Septic projections are based on similar Denver Basin residential uses on rural residential lots. Average daily wastewater loads are expected to be approximately 180 gallons per day per single-family residence. Maximum daily wastewater loads are expected to be roughly 210 gallons per day per single-family residence, assuming residential in-house use at the 0.26 acre-feet per year rate described in the El Paso County Land Development Code.

4.2 On-Site Wastewater Treatment Systems: The thirty-five residential lots within the Subdivision will each be served by a non-evaporative ISDS. The ISDS will be constructed to the residential lots upon approval of the Subdivision. The site is suitable for ISDS, based on historical use in this location at a nearby subdivision utilizing individual wells to the Dawson aquifer and associated ISDS. All ISDS will be evaluated and installed according to El Paso County Guidelines and properly maintained to prevent contamination of surface and subsurface water resources.

Respectfully submitted this 28th day of July 2026.

MONSON, CUMMINS, SHOHET & FARR, LLC



Ryan W. Farr

Exhibits:

- A – Location Map/Plat of Property
- B – Determination No. 4336-BD
- C – RESPEC Water Quality Report
- D – Water Supply Information Summary

EXHIBIT A (page 1) - Proposed Plat Trinity Ranch

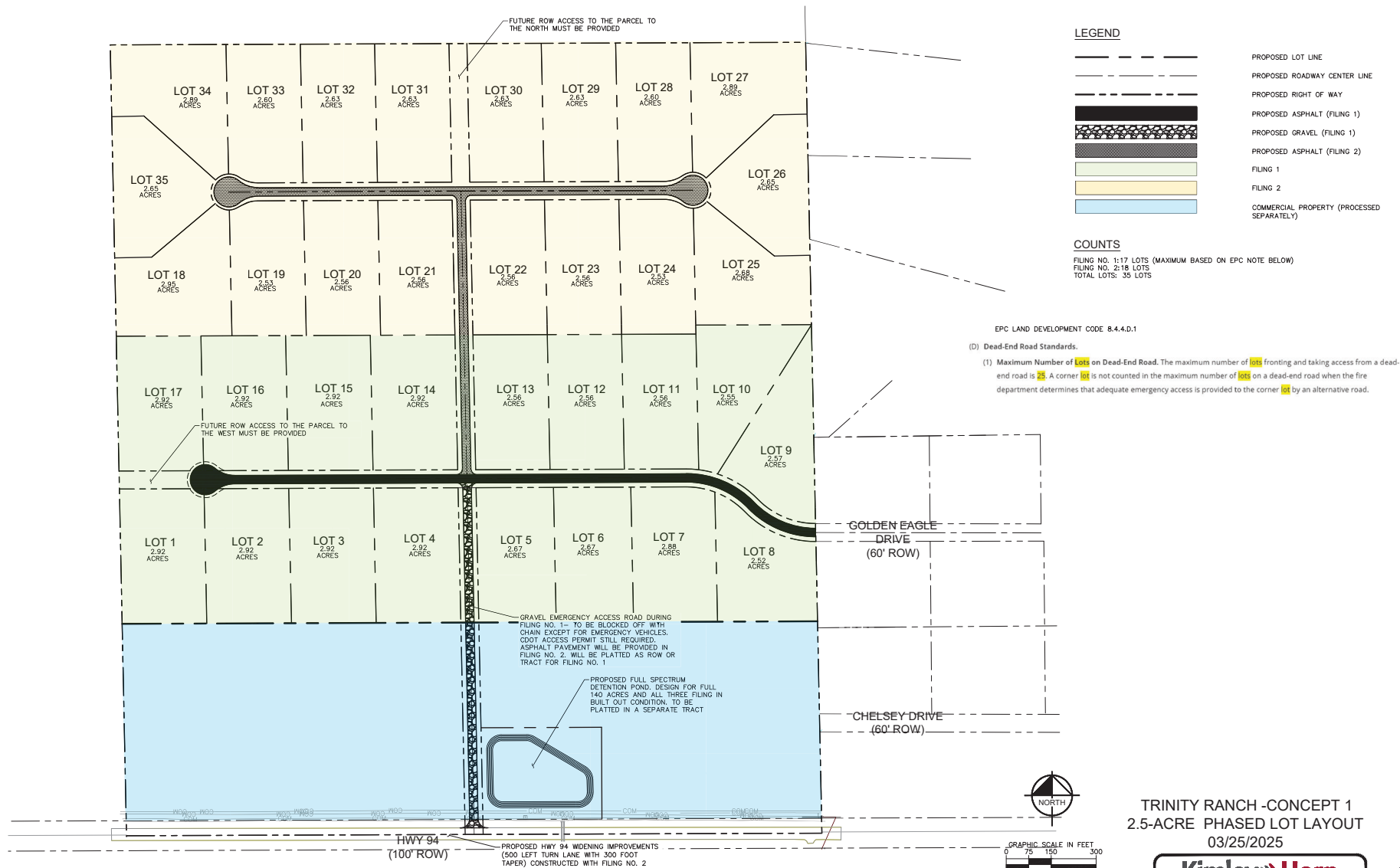
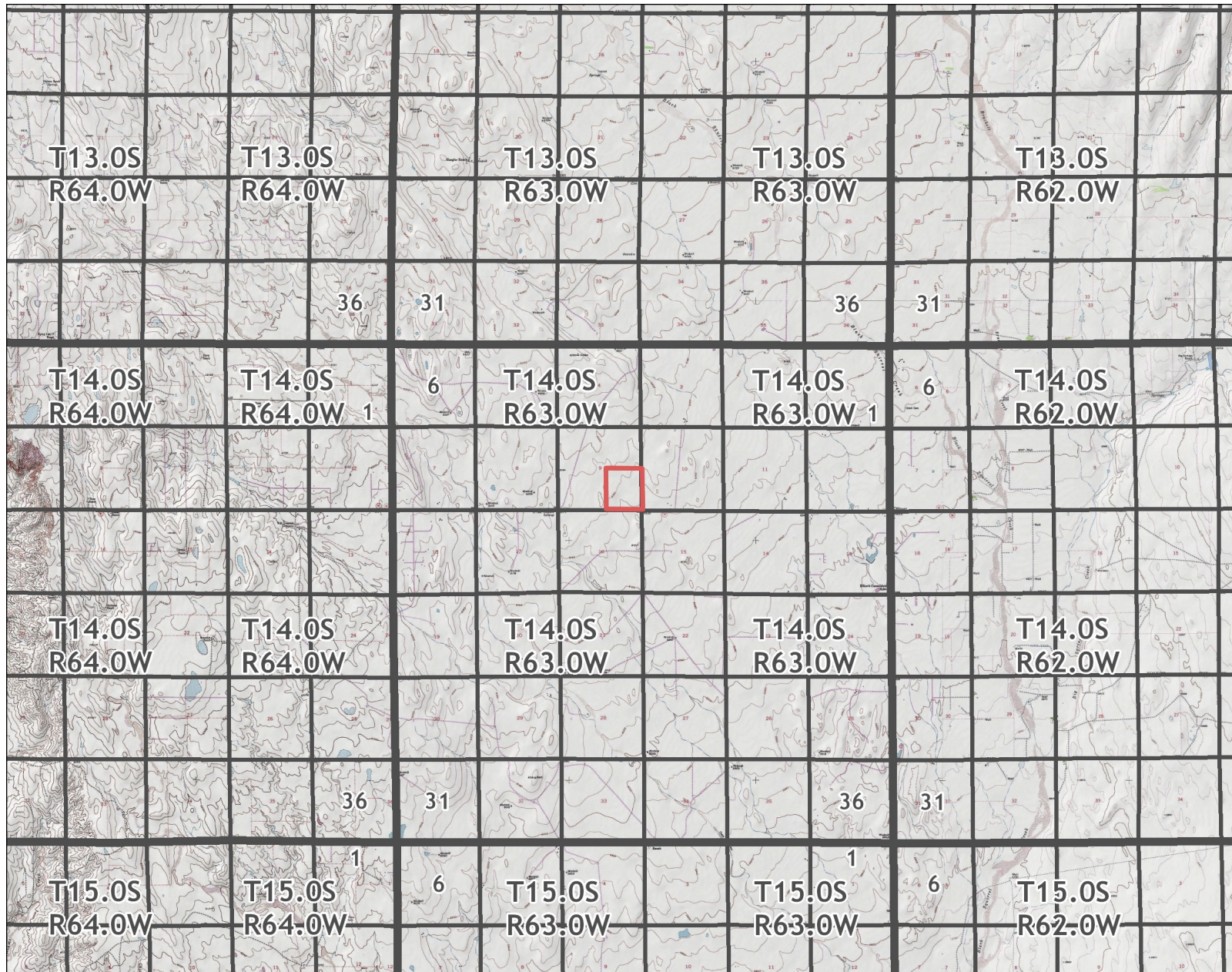




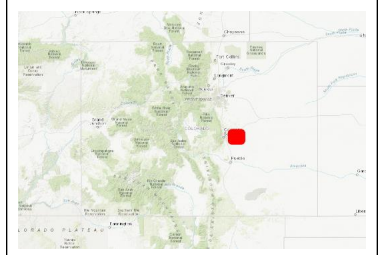
EXHIBIT A (page 2) - Location Map Trinity Ranch



Legend

- Township
- Section
- County

Location



Notes

3.54 0 1.77 3.54 Miles

1: 112,257



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

Date Prepared: 5/21/2026 2:01:29 PM

EXHIBIT B

COLORADO GROUND WATER COMMISSION FINDINGS AND ORDER

IN THE MATTER OF AN APPLICATION FOR A DETERMINATION OF A RIGHT TO AN ALLOCATION OF
GROUNDWATER IN THE UPPER BLACK SQUIRREL CREEK DESIGNATED GROUNDWATER BASIN

DETERMINATION NO.: 4336-BD

AQUIFER: Arapahoe

APPLICANT: Rockwood Homes, LLC

In compliance with section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, Rockwood Homes, LLC (Applicant) submitted an application to the Colorado Ground Water Commission (Commission) for a determination of a right to an allocation of designated groundwater from the Arapahoe Aquifer.

FINDINGS

1. The application was received by the Commission on January 25, 2022.
2. The Applicant requests a determination of right to an allocation of designated groundwater (Determination) in the Arapahoe aquifer (Aquifer) underlying 137.92 acres, generally described as part of the SE 1/4 of Section 9, Township 14 South, Range 63 West, Sixth P.M., in El Paso County (Overlying Land). According to a Nontributary Groundwater Landownership Statement dated February 7, 2022, attached hereto as Exhibit A, the Applicant owns the 137.92 acres of land, which are further described in said Ownership Statement, and claims control of the right to the groundwater in the Aquifer underlying the land.
3. The Overlying Land is located within the boundaries of the Upper Black Squirrel Creek Designated Groundwater Basin and within the Upper Black Squirrel Creek Ground Water Management District. The Commission has jurisdiction over the designated groundwater that is the subject of this Determination.
4. The Commission's Staff has evaluated the application relying on the claims to control of the groundwater in the Aquifer underlying the Overlying Land made by the Applicant.
5. The Applicant intends to apply the groundwater in the Aquifer underlying the Overlying Land to the following beneficial uses: domestic, irrigation (indoor and outdoor), agricultural, commercial, livestock, industrial and replacement. The Applicant's proposed place of use of the groundwater in the Aquifer underlying the Overlying Land is the above described 137.92 acres of Overlying Land.
6. Pursuant to section 37-90-107(7)(a), and in accordance with the Designated Basin Rules, the Commission shall allocate the groundwater in the Aquifer underlying the Overlying Land on the basis of the ownership of the Overlying Land.
7. The amount of water in storage in the Aquifer underlying the 137.92 acres of Overlying Land claimed by the Applicant is 3,050 acre-feet. This determination was based on the following as specified in the Designated Basin Rules.
 - a. The average specific yield of those saturated aquifer materials containing sufficient water that can be drained by gravity and placed to beneficial use is 17 percent.

- b. The average thickness of those saturated aquifer materials containing sufficient water that can be drained by gravity and placed to beneficial use is 130 feet.
8. A review of the records in the Office of the State Engineer has disclosed that none of the groundwater in the Aquifer underlying the Overlying Land has been either previously determined to be allocated by the Commission, has been permitted for withdrawal by large capacity wells that have rights that were initiated prior to November 19, 1973 that are subject to section 37-90-107(7)(b), or has been permitted for withdrawal by existing small capacity wells withdrawing water under permits issued pursuant to section 37-90-105, C.R.S. The amount of designated groundwater in the Aquifer underlying the Overlying Land that is available for allocation in this Determination is 3,050 acre-feet.
9. Pursuant to section 37-90-107(7)(c)(III), an approved determination of a right to an allocation shall be considered a final determination of the amount of groundwater 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.
10. Pursuant to section 37-90-107(7)(d), the Commission has authority to issue well permits pursuant to subsection 107(7) (i.e. permits for large capacity wells) for the withdrawal of designated groundwater from the Aquifer. Pursuant to section 37-90-107(7)(a) the Commission shall adopt the necessary rules to carry out the provisions of subsection (7). Pursuant to section 37-90-111(h), C.R.S., the Commission is empowered to adopt rules necessary to carry out the provisions of Article 90 of Title 37. In accordance with that authority, the Commission has adopted the Rules and Regulations for the Management and Control of Designated Ground Water (2 CCR 410-1) ("Designated Basin Rules", or "Rules").
11. Large capacity well permits issued pursuant to section 37-90-107(7) are subject to the following provisions of statute and the Designated Basin Rules.
 - a. Pursuant to section 37-90-107(7)(a) well permits issued pursuant to subsection 107(7) shall allow withdrawals on the basis of an aquifer life of one hundred years. The 3,050 acre-feet of water in the Aquifer underlying the Overlying Land available for allocation in this Determination, if permitted for withdrawal by large capacity wells on the basis of an aquifer life of one hundred years, would result in an allowed average annual amount of withdrawal of 30.5 acre-feet per year.
 - b. Any amounts of groundwater in the Aquifer allocated in this Determination that are permitted for withdrawal pursuant to section 37-90-105, by small capacity well permits issued after the issuance of this Determination reduce the amount of water, and the allowed average annual amount of withdrawal, that may be withdrawn by wells permitted pursuant to section 37-90-107(7).
 - c. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of groundwater from the Aquifer underlying the Overlying Land will, within one hundred years, deplete the flow of a natural stream or an alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the groundwater in the Aquifer underlying the Overlying Land is considered to be not-nontributary groundwater as defined in Rule 4.2.23 of the Designated Basin Rules. Also, the location of the land claimed by the Applicant is farther than one mile from the Aquifer contact with the alluvium. Pursuant to the Rules, at least four percent

- (4%) of the amount of the underlying water withdrawn annually must be returned to the alluvial aquifer in the vicinity of the permitted point or points of withdrawal, unless other locations are approved by the Commission. Pursuant to the Rules the Applicant may at any time be required to identify the proposed, or actual, location of the delivery of the replacement water and how the required four percent (4%) of water diverted will be, or is being, delivered into the alluvial aquifer.
12. Pursuant to section 37-90-105(1), the State Engineer has the authority to approve small capacity well permits. While water withdrawn from the Aquifer from beneath the Overlying Land by small capacity wells may consist of the groundwater allocated herein, the Commission recognizes that in approving small capacity permits the State Engineer is not bound by the terms and conditions of this Determination, and may approve small capacity permits based on standards and with such conditions as the State Engineer considers appropriate.
 13. The ability of wells permitted to withdraw the authorized amount of water from this nonrenewable 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.
 14. On February 15, 2022, in accordance with Rule 9.1 of the Designated Basin Rules, written recommendations concerning this application were requested from the Upper Black Squirrel Creek Ground Water Management District. No written recommendations from the District were received.
 15. In accordance with sections 37-90-107(7)(c)(II) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on February 17, 2022 and February 24, 2022. No objections to the application were received within the time limit set by statute.

ORDER

In accordance with section 37-90-107(7) and the Designated Basin Rules, the Commission hereby determines a right to an allocation of designated groundwater in the Arapahoe Aquifer underlying 137.92 acres of land, generally described as part of the SE 1/4 of Section 9, Township 14 South, Range 63 West, Sixth P.M., further described in Exhibit A, subject to the following conditions.

16. The amount (i.e. volume) of water in the Aquifer underlying the 137.92 acres of Overlying Land allocated herein is 3,050 acre-feet (Underlying Groundwater).
17. The amount (i.e. volume) of Underlying Groundwater allocated herein shall be considered final, 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, if such information indicates that the initial estimate of the amount of Underlying Groundwater in the Aquifer was incorrect.
18. Approval of this Determination meets the requirements of section 37-90-107(7)(d)(II), that requires a determination of groundwater to be withdrawn by a well be made prior to the granting of a well permit pursuant to section 37-90-107(7).
19. Well permits issued pursuant to section 37-90-107(7), (i.e. large capacity wells) and this Determination are subject to the following conditions.

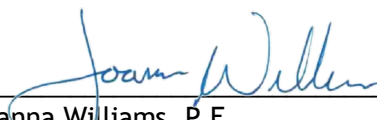
- a. The total amount of Underlying Groundwater that may be withdrawn from the Aquifer by all large capacity wells permitted pursuant to this Determination may not exceed a volume of 3,050 acre-feet, less any amount of the Underlying Groundwater allocated herein permitted to be withdrawn by small capacity wells issued permits pursuant to section 37-90-105 after the issuance of this Determination. The amounts of water permitted to be withdrawn by such small capacity wells shall be considered to be one-hundred times the annual withdrawals permitted to be withdrawn by those wells.
- b. The allowed average annual amount of withdrawal by any large capacity well (or well field) permitted to withdraw the allocated water shall be equal to the volume of water permitted to be withdrawn by that well (or well field) divided by one-hundred years.
- c. The allowed maximum annual amount of withdrawal by any large capacity well (or well field) permitted to withdraw the allocated water may exceed the allowed average annual amount of withdrawal allowed by the well permit(s) as long as the total volume of water withdrawn by such well(s) does not exceed the product of the number of years since the date(s) of issuance of the well permit(s) times the allowed average annual amount of withdrawal allowed by the well permit(s).
- d. 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.
- e. At least four percent (4%) of the amount of Underlying Groundwater withdrawn annually must be returned to the alluvial aquifer in the vicinity of the permitted point or points of withdrawal, unless other locations are approved by the Commission. The Applicant may at any time be required to identify the proposed, or actual, location of the delivery of the replacement water and how the required four percent (4%) of water diverted will be, or is being, delivered into the alluvial aquifer.
- f. The use of the Underlying Groundwater shall be limited to the following beneficial uses: domestic, irrigation (indoor and outdoor), agricultural, commercial, livestock, industrial and replacement. The place of use of the Underlying Groundwater shall be limited to the above described 137.92 acres of Overlying Land. The Underlying Groundwater that is the subject of this Determination may be reused and successively used to extinction to the extent dominion and control over the water is maintained and its volume can be distinguished from the volume of any stream system into which it is introduced to the satisfaction of the Commission. The Underlying Groundwater is located within the Upper Black Squirrel Creek Ground Water Management District where local District rules apply which may further limit the withdrawal and use of the subject designated groundwater.
- g. The wells must be located on the above described 137.92 acres of Overlying Land.
- h. No well shall be located within 600 feet of any existing large-capacity well in the same Aquifer unless a Waiver of Claim of Injury is obtained from the owner of the existing well or unless the Commission, after a hearing, finds that circumstances in a particular instance warrant that a well may be permitted without regard to this limitation.
- i. The wells must be constructed to withdraw water from only the Arapahoe Aquifer.

- j. The entire depth of each well must be geophysically logged prior to installing the casing in the same manner as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.
 - k. 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 permanently maintained by the well owner and submitted to the Commission and the Upper Black Squirrel Creek Ground Water Management District upon request.
 - l. The well shall be marked in a conspicuous place with this determination number, the well permit number, and the name of the Aquifer. The well owner shall take necessary means and precautions to preserve these markings.
20. A copy of this Determination shall 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 above described 137.92 acres of Overlying Land area, or any part thereof, shall reveal the existence of this Determination.
21. The right to an allocation of designated groundwater determined herein is a vested property right with specific ownership. Some or all of the water right may be transferred independent of the land under which the right originated. Any action taken that is intended to convey, transfer, and/or sell the subject water right shall explicitly identify this Determination number, the specific Aquifer, and the total amount (i.e. volume) of the right that is being conveyed.

Dated this 5th day of April, 2022.



Kevin G. Rein, P.E.
Executive Director
Colorado Ground Water Commission

By: 
Joanna Williams, P.E.
Water Resource Engineer

Prepared by: aat
F&O4336-BD.doc



EXHIBIT C

EXTERNAL MEMORANDUM

To: Joe Letke
Planner
El Paso County, Planning and Community Development Department
2880 International Circle, Suite 110
Colorado Springs, CO 80910

cc: Project Central File W0274.26001

From: Douglas E. Schwenke, P.E.
Principal Engineer
RESPEC
5540 Tech Center Drive, Suite 100
Colorado Springs, CO 80919

Date: July 27, 2026

Subject: Subdivision at Trinity Ranch
El Paso County Parcel # 3400000455
Finding of Sufficient Water Quality According to Section 8.4.7.B.10)(a) of the
Amended El Paso County Land Development Code (LDC-19-007)

Mr. Letke,

Terry Street with 20165 Howle Street, LLC owns approximately 138 acres near the intersection of Peyton Highway and Highway 94 (EPC Receipt No.: 3400000455) known as Trinity Ranch. The applicant wishes to subdivide the property into thirty-five (35) residential lots and one commercial lot through the El Paso County Land Development and Planning process. The applicant plans to serve the new development using wells drilled into the Arapahoe formation under Basin Determination 4336-BD through Water Division 2, approved by the Commission on January 25, 2022 file 214049357. Of note, RESPEC Company, LLC had original begun work on the water resources report for the development when it was previously owned by Rockwood Homes in 2022. Since that time, the property has changed hands and is now owned by the current property owner listed above. This water quality sufficiency report has been commissioned by 20165 Howle Street, though water quality sampling was conducted and acquired under Rockwood Homes.

5540 TECH CENTER DRIVE
SUITE 100
COLORADO SPRINGS, CO 80919
719.227.0072



SAMPLING REQUIREMENTS

Section 8.4.7.B.10(a) in the Amended El Paso County Land Development Code (EPC-LDC) requires that the applicant obtain analyses results for twenty-one (21) Volatile Organic Chemical (VOC) Contaminants, twenty-nine (29) Synthetic Organic Chemical Contaminants (SOC), fourteen (14) Inorganic Chemicals, ten (10) Secondary Maximum Contaminants, indicators of bacteriological pathogens (i.e. E. coli), inorganic anions, and two (2) radionuclides. According to Determination No.: 4336-BD, which are included in the Water Resources Report, the proposed residence will be supplied with water from the underlying not-non tributary Arapahoe formation, which is one of the four major bedrock aquifers within the Denver Basin aquifer system. Therefore, according to paragraph two (2) from Section 8.4.7.B.10(a) VOCs and SOCs are not required as part of the stipulated chemical analysis.

SAMPLING PROCEDURES

On March 31, 2022, representatives with RESPEC sampled an existing Arapahoe aquifer well existing on an adjacent property to Trinity Ranch located at 19960 Dusty Spur Trail which is permitted under Permit No. 51743-F, also known as the Mayteka Well (see attached). This well is within ½ mile of the proposed development and thus can be considered a representative well sample. As mentioned above, representative aquifer water samples for the well were taken on March 31, 2022 and overnighted to Colorado Analytical Laboratories to meet specified holding times for certain constituents. Results from all chemical analyses were received by RESPEC via email on April 21, 2022. Results were tabulated and compared vs. primary and secondary Maximum Contaminant Limits as established by the Colorado Department of Public Health and Environment's (CDPHE) latest drinking water standards. From the evaluation, the well was found to have slightly low Langelier Index (LI) of -0.59 (please see tabulated results and associated analytical results from Colorado Analytical Laboratories in the enclosure). All other constituents were found to be below respective primary and secondary drinking standards.

TESTING RESULTS

As mentioned above, the raw water sampled in the representative Arapahoe Well was found to have a slightly low LI in the range between -0.5 and -1.0, which can indicate slight corrosion, but non scale forming. The LI is calculated using pH, temperature, total dissolved solids, alkalinity, and total hardness. The LI is a measure of the balance between pH and calcium carbonate (CaCO_3). As the LI value becomes more negative, the water is increasingly under-saturated with CaCO_3 and therefore has increased corrosion potential.

Table 1. Constituents outside of CDPHE Range

Compound	Units	MCL/SMCL	Result
LI	-	N/A	0.59



RECOMMENDATIONS

Given the LI levels, RESPEC recommends that the homeowner(s) install PEX piping for the water plumbing to reduce corrosion potential.

After reviewing the analytical results, RESPEC does not find cause for concern in utilizing the underlying Arapahoe Aquifer for public consumption or irrigation uses within the proposed subdivision. However, RESPEC would also recommend that the developer and home builder use PEX piping for protection from corrosion. The above opinions are RESPEC's recommendations for additional treatment within the proposed residences to bring the source water into compliance with established Colorado Drinking Water Standards.

Should the El Paso County Planning and Development Department have any additional comments, questions, or concerns please do not hesitate to contact Brian "BJ" Elkins, P.E. with RESPEC at 719-402-4009 or at douglas.schwenke@respec.com.

Sincerely,

Douglas E. Schwenke

Digitally signed by Douglas E. Schwenke
DN: C=US, E=Douglas.schwenke@respec.com,
O="RESPEC Company, LLC", OU=Water
Practice, CN=Douglas E. Schwenke
Date: 2026.07.27 13:57:53-06'00'

Douglas E. Schwenke, P.E.
Principal Engineer

BLE

Enclosure:	A1	El Paso County Parcel #3400000455
	A2	DWR Permit No. 51743-F
	A3	Tabulated Water Quality Sufficiency Results from April 23, 2026 Sample Trip to 19960 Dusty Spur Road (Mayteka Well)
	A4	Analytical Results from Colorado Analytical, Task No.: 260424002 – Langoliers
	A5	Analytical Results from Colorado Analytical, Task No.: 260424002 – Chemical Constituents
	A6	Analytical Report from Haxen, Task No.: 260424002 – Radiological

cc: Project Central File: W0265.26058 — Category: External Letter

EL PASO COUNTY - COLORADO3400000455
HIGHWAY 94Total Market Value
\$6,020**OVERVIEW**

Owner:	ROCKWOOD HOMES LLC
Mailing Address:	5436 CARVEL GRV COLORADO SPRINGS CO, 80922
Location:	HIGHWAY 94
Tax Status:	Taxable
Zoning:	RR-5
Plat No:	-
Legal Description:	A TR OF LAND BEING IN THE SE4 OF SEC 09-14-63 DESC AS FOLS: BEG IN THE SE COR OF SD SEC 9, TH WLY ALG THE S LN A DIST OF 2320 FT, TH NLY ALG A LN THAT IS PAR TO THE E SEC LN A DIST OF 2640 FT, TH ELY ALG A LN THAT IS PAR TO THE S SEC LN A DIST OF 2320 FT TO THE E SEC LN, TH SLY ALG THE E SEC LN A DIST OF 2640 FT TO POB.

MARKET & ASSESSMENT DETAILS

	Market Value	Assessed Value
Land	\$6,020	\$1,750
Improvement	\$0	\$0
Total	\$6,020	\$1,750

No buildings to show.

LAND DETAILS

Sequence Number	Land Use	Assessment Rate	Area	Market Value
1	AG. GRAZING LAND	29.000	137.92 Acres	\$6,020

SALES HISTORY

	Sale Date	Sale Price	Sale Type	Reception
+	02/02/2021	\$280,000	Good sale	221020438

TAX ENTITY AND LEVY INFORMATION

County Treasurer Tax Information

Tax Area Code: **KB4** Levy Year: **2021** Mill Levy: **50.592**

Taxing Entity	Levy	Contact Name/Organization	Contact Phone
EL PASO COUNTY	7.120	FINANCIAL SERVICES	(719) 520-6400
EPC ROAD & BRIDGE (UNSHARED)	0.330	-	(719) 520-6498
ELLCOTT SCHOOL NO 22	30.534	MIKAELA COPELAND	(719) 683-2700
PIKES PEAK LIBRARY	3.490	MIKE VARNET	(719) 531-6333
ELLCOTT FIRE PROTECTION	8.113	CHRISTY MALONE	(719) 683-7211
UPPER BLK SQUIRREL CRK GROUND WATER	1.005	TRACY DORAN	(719) 510-0780
ELLCOTT METROPOLITAN	0.000	GEORGIA MCREA	(719) 683-4190
EL PASO COUNTY CONSERVATION	0.000	PAMELA DAVISON	(719) 632-9598



No Photo Available



Disclaimer

We have made a good-faith effort to provide you with the most recent and most accurate information available. However, if you need to use this information in any legal or official venue, you will need to obtain official copies from the Assessor's Office. Do be aware that this data is subject to change on a daily basis. If you believe that any of this information is incorrect, please call us at (719) 520-6600.

STATE OF COLORADO
DIVISION OF WATER RESOURCES
OFFICE OF THE STATE ENGINEER

Index No. 1929
IDWD 2-14
Completion Use 3
Yield _____
Checked By _____

MAP AND STATEMENT FOR WATER WELL FILING

PERMIT NUMBER 51743 *Late Reg*

STATE OF COLORADO) SS

CLAIMANT (s) Mateyka Bros

being duly sworn upon oath deposes and says that he (they) is (are) the owner (s) of the well described hereon; the total number of acres

of land irrigated from this well is None; work was commenced on this well by actual construction on the_____ day of Nov, 1976; the sustainedyield from said well is 38 gpm, for which claim is hereby madefor Domestic & Stock purpose (s);

the average annual amount to be diverted is _____ acre-feet; this map and statement is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) own knowledge.

Signature (s) Mateyka Bros - pm. B. Drilling
Steve MateykaAddress: R #Calhan, Colo.Subscribed and sworn to before me on this 16 day of Feb, 1972My Commission expires: My Commission Expires May 25, 1975
(Seal)

Vlaa Mateyka
Notary Public

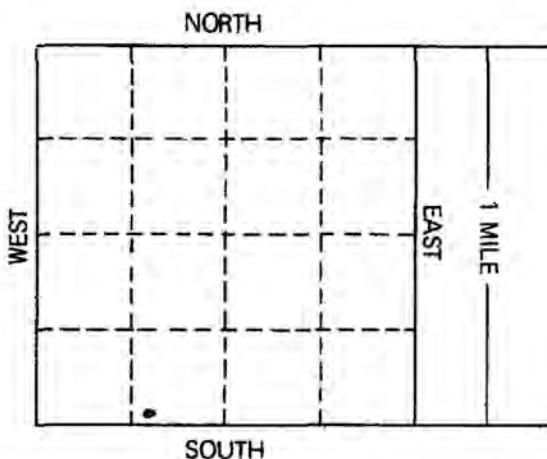
WELL DATA

Date Completed Nov, 1976Static Water Level 196 ft.Total Depth of Well 227

WELL LOCATION

El Paso County
SE 1/4 of SW 1/4, sec. 4
T. 14 S R. 63 W P.M.

INDICATE WELL LOCATION ON DIAGRAM



WELL SHALL BE LOCATED WITH REFERENCE TO
GOVERNMENT SURVEY CORNERS OR MONUMENTS,
OR SECTION LINES BY DISTANCE AND BEARING.

_____ ft. from _____ section line.
(North or South)

_____ ft. from _____ section line.
(East or West)

Ground Water Basin _____

Water Management
District _____

Domestic wells may be located by the following:

LOT _____, BLOCK _____

SUBDIVISION _____

FILING # _____

ACCEPTED FOR FILING IN THE OFFICE OF THE STATE ENGINEER OF COLORADO ON THIS 28 DAY
OF Feb, 1972

[Signature]
STATE ENGINEER

FORM TO BE MADE OUT IN QUADRUPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer within 30 days after the well is completed or within 7 days after expiration date of the permit, whichever is sooner; PINK COPY is for the Owner and YELLOW COPY is for the Driller.

WELL LOG

From	To	Type & Color of Material	Water Loc.
		no log was kept in these days. 84512	
Use additional paper if necessary to complete log.			

WELL DATA

Type Drilling Cable Tool

HOLE DIAMETER:

_____ in. from _____ ft. to _____ ft.

_____ in. from _____ ft. to _____ ft.

_____ in. from _____ ft. to _____ ft.

CASING RECORD

Plain Casing

Size 6, kind _____ from ? ft. to ? ft.

Size _____, kind _____ from _____ ft. to _____ ft.

Size _____, kind _____ from _____ ft. to _____ ft.

Perforated Casing

Size 6, kind _____ from ? ft. to ? ft.

Size _____, kind _____ from _____ ft. to _____ ft.

Size _____, kind _____ from _____ ft. to _____ ft.

GROUTING RECORD

Material _____

Intervals _____

Placement Method _____

GRAVEL PACK RECORD

Size _____ Interval _____

TEST DATA ^{with} we tested this well a 3 in turbine pumpDate Tested June 1949Type of Pump 3 in TurbineLength of Test 2 daysSustained Yield (Metered) 38 gals per minDrawdown 16 ft.

WELL DRILLERS STATEMENT

The undersigned, being duly sworn, deposes and says: ~~he is the owner~~ of the well hereon described; he has read the statement made hereon; knows the content thereof, and the same is true of his own knowledge.

M. B. Drilling
X Steve Matycka

License No. 69State of Colorado, County of El Paso) ssSubscribed and sworn to before me this 16 day of Feb., 1972My Commission expires My Commission Expires May 25, 1975, 1975

Vla Matycka
Notary Public

***El Paso County Land Development Code
Water Quality Requirements and Results
Arapahoe Confined Aquifer
Rockwood Homes, LLC - Hwy. 94
Sampled March 30, 2022
Mayteka Well - Arapahoe Formation
19960 Dusty Spur Trail***

Compound	Units	MCL/SMCL	Result
Antimony	mg/l	0.006	0
Arsenic	mg/l	0.01	0
Barium	mg/l	2	0.0121
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	0.48
Mercury	mg/l	0.002	0
Nitrate as N	mg/l	10	4.04
Nitrite as N	mg/l	1	0
Total Nitrate/Nitrite as N	mg/l	10	4.04
Selenium	mg/l	0.05	0.0044
Thallium	mg/l	0.002	0
Aluminum	mg/l	0.05	0
Chloride	mg/l	250	19.4
Langlier Index			-0.59
Iron	mg/l	0.3	0.023
Manganese	mg/l	0.05	0.0036
pH		6.5 - 8.5	7.25
Silver	mg/l	0.1	0
Sulfate	mg/l	250	85.7
TDS	mg/l	500	337
Zinc	mg/l	5	0.355
Gross Alpha/Beta	pCi/l	15	4.2
Combined Radium 226+228	pCi/l	5	1.3
Total Coliform	#/100 ml	Absent	Absent

Green = Result below MCL - Acceptable Water Quality

Analytical Results

TASK NO: 220331058

Report To: Doug Schwenke

Company: JDS Hydro Consultants
5540 Tech Center Dr.
Suite 100
Colorado Springs CO 80919

Bill To: Doug Schwenke

Company: JDS Hydro Consultants
5540 Tech Center Dr.
Suite 100
Colorado Springs CO 80919

Task No.: 220331058
Client PO:
Client Project: Rockwood Homes

Date Received: 3/31/22
Date Reported: 4/21/22
Matrix: Water - Drinking

Lab Number	Customer Sample ID	Sample Date/Time	Test	Result	Method	Date Analyzed
220331058-01B	#1 - Mayketa Well	3/30/22 2:15 PM	Total Coliform	Absent	SM 9223	4/1/22
			E-Coli	Absent	SM 9223	4/1/22

Abbreviations/ References:

Absent = Coliform Not Detected

Present = Coliform Detected - Chlorination Recommended

Date Analyzed = Date Test Completed

SM = "Standard Methods for the Examination of Water and Wastewater"; APHA; 19th Edition; 1995



DATA APPROVED FOR RELEASE BY

Colorado
Analytical

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
12860 W. Cedar Dr, Suite 100A
Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

[illegible]

Analytical Results

TASK NO: 220331058

Report To: Doug Schwenke
Company: JDS Hydro Consultants
5540 Tech Center Dr.
Suite 100
Colorado Springs CO 80919

Bill To: Doug Schwenke
Company: JDS Hydro Consultants
5540 Tech Center Dr.
Suite 100
Colorado Springs CO 80919

Task No.: 220331058
Client PO:
Client Project: Rockwood Homes

Date Received: 3/31/22
Date Reported: 4/21/22
Matrix: Water - Drinking

Customer Sample ID #1 - Mayketa Well
Sample Date/Time: 3/30/22 2:15 PM
Lab Number: 220331058-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	134.8 mg/L as CaCO ₃	SM 2320-B	0.2 mg/L as CaCO ₃	4/1/22	-	DEK
Calcium as CaCO ₃	97.7 mg/L	EPA 200.7	0.1 mg/L	4/1/22	-	MBN
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO ₃	4/1/22	-	DEK
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO ₃	4/1/22	-	DEK
Langelier Index	-0.59 units	SM 2330-B	units	4/6/22	-	SAN
pH	7.25 units	SM 4500-H-B	0.01 units	3/30/22	-	Sampler
Temperature	12 °C	SM 4500-H-B	1 °C	3/30/22	-	Sampler
Total Alkalinity	134.8 mg/L as CaCO ₃	SM 2320-B	4.0 mg/L as CaCO ₃	4/1/22	QC55985	DEK
Total Dissolved Solids	337 mg/L	SM 2540-C	5 mg/L	4/4/22	QC55969	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
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

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

Analytical QC Summary

TASK NO: 220331058

Report To: Doug Schwenke
Company: JDS Hydro Consultants

Receive Date: 3/31/22
Project Name: Rockwood Homes

Test	QC Batch ID	QC Type	Result	Method
Total Alkalinity	QC55985	Blank	ND	SM 2320-B
Total Dissolved Solids	QC55969	Blank	ND	SM 2540-C

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Total Alkalinity	QC55985	Duplicate	0 - 20	-	0.8	SM 2320-B
		LCS	90 - 110	98.8	-	
Total Dissolved Solids	QC55969	Duplicate	0 - 20	-	1.9	SM 2540-C
		LCS	85 - 115	98.8	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.



DATA APPROVED FOR RELEASE BY

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
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

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

Colorado
Analytical

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10411 Heinz Way
Commerce City CO 80640

Lakewood Service Center
12860 W. Cedar Dr, Suite 100A
Lakewood CO 80228

Phone: 303-659-2313

www.coloradolab.com

[illegible]

EPC Confined Aquifer Sampling Requirements

Field Measurements

pH

Temp

Radionuclides

Radium 226 and Radium 228

Gross alpha/Beta

Inorganics

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Cyanide (Total)

Fluoride

Mercury

Nitrate

Nitrite

Selenium

Thallium

Secondary MCLs

Aluminum

Chloride

Corrosivity

Iron

Manganese

Silver

Sulfate

Zinc

TDS

Bacteriological:

Total Coliform



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

Lab Control ID: 22M01579

Received: Apr 01, 2022

Reported: Apr 20, 2022

Purchase Order No.

None Received

Customer ID: 20040H
Account ID: Z01034

Stuart Nielson
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
Analytical Laboratories Director



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

Lab Control ID: 22M01579

Received: Apr 01, 2022

Reported: Apr 20, 2022

Purchase Order No.

None Received

Customer ID: 20040H

Account ID: Z01034

ANALYTICAL REPORT

Stuart Nielson

Colorado Analytical Laboratories, Inc.

Lab Sample ID			22M01579-001					
Customer Sample ID			220331058-01D - Rockwood Homes - #1 - Mayketa Well sampled on 03/30/22 @ 1415					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	0.7	1.9	0.1	SM 7110 B	4/8/22 @ 0943	RG
Gross Beta	pCi/L	T	3.5	2.4	2.5	SM 7110 B	4/8/22 @ 0943	RG
Radium-226	pCi/L	T	NR	-	-	SM 7500-Ra B	-	-
Radium-228	pCi/L	T	NR	-	-	EPA Ra-05	-	-

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) = Total Residual (AR) = As Received < = Less Than



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

Lab Control ID: 22M01579

Received: Apr 01, 2022

Reported: Apr 20, 2022

Purchase Order No.

None Received

Customer ID: 20040H

Account ID: Z01034

ANALYTICAL REPORT

Stuart Nielson

Colorado Analytical Laboratories, Inc.

Lab Sample ID			22M01579-002					
Customer Sample ID			220331058-01E - Rockwood Homes - #1 - Mayketa Well sampled on 03/30/22 @ 1415					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	NR	-	-	SM 7110 B	-	-
Gross Beta	pCi/L	T	NR	-	-	SM 7110 B	-	-
Radium-226	pCi/L	T	<0.2	0.1	0.2	SM 7500-Ra B	4/8/22 @ 1100	KT
Radium-228	pCi/L	T	1.3	0.7	0.2	EPA Ra-05	4/12/22 @ 1153	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) = Total Residual (AR) = As Received < = Less Than

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 04/08/2022

Batch QC Summary Form

Analyte: Gross Alpha

Control Standard/LFB: ID: C-11 pCi/mL: 57.4 (use 1 diluted)

Spike Solution: ID: C-11 pCi/mL: 57.4 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

$$\text{Calculation: } \frac{(49.4) - (1.000)}{57.4} - \frac{(0.6) - (0.200)}{57.4} \times 100 = 86\%$$

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:

<u>22M01505</u>	<u>22M01581</u>
<u>22M01575</u>	<u>22M01582</u>
<u>22M01576</u>	<u>22M01584</u>
<u>22M01577</u>	<u>22M01319</u>
<u>22M01601</u>	<u>22M01496</u>
<u>22M01552</u>	_____
<u>22M01573</u>	_____
<u>22M01572</u>	_____
<u>22M01571</u>	_____
<u>22M01579</u>	_____

Evaluator:



Date: 04/13/2022

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 04/08/2022

Batch QC Summary Form

Analyte: Gross Beta

Control Standard/LFB: ID: C-11 pCi/mL: 44 (use 1 diluted)

Spike Solution: ID: C-11 pCi/mL: 44 (use 1 mL)

Spike Recovery Calculation: Sample: Tap*

Calculation: $\frac{(38.4) - (1.000) - (0.7) - (0.200)}{44} \times 100 = 87\%$

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:

22M01505	22M01581
22M01575	22M01582
22M01576	22M01584
22M01577	22M01319
22M01601	22M01496
22M01552	_____
22M01573	_____
22M01572	_____
22M01571	_____
22M01579	_____

Evaluator:



04/13/2022

Date

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 04/07/2022

Batch QC Summary Form

Analyte: Radium-226

Control Standard/LFB: ID: C1-002 pCi/mL: 23 (use 2 diluted)

Spike Solution: ID: C1-002 pCi/mL: 23 (use 2 mL)

Spike Recovery Calculation: Sample: 22M01579-02b

Calculation: $\frac{(43.1) - (1.000)}{46} \times 100 = 94\%$

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:

☒ 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:

22M01551	_____
22M01569	_____
22M01572	_____
22M01573	_____
22M01578	_____
22M01579	_____
22M01580	_____
22M01582	_____
_____	_____
_____	_____

Evaluator:



04/19/2022

Date

HAZEN RESEARCH, INC.
RADIOCHEMISTRY LABORATORY

Date: 04/12/2022

Batch QC Summary Form

Analyte: Radium-228

Control Standard/LFB: ID: C6-002 pCi/mL: 12.9 (use 5 diluted)

Spike Solution: ID: C6-002 pCi/mL: 12.9 (use 5 mL)

Spike Recovery Calculation: Sample: 22M01583-1b

Calculation: $\frac{(68.9) - (1.000) - (2.6) - (1.000)}{64.5} \times 100 = 103\%$

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:

22M01551	_____
22M01578	_____
22M01579	_____
22M01583	_____
22M01602	_____
22M01610	_____
_____	_____
_____	_____
_____	_____
_____	_____

Evaluator:



Date 04/19/2022



LABORATORIES, INC.

22M01579

HN03 Lot #: N/A

Date Preserved: 5/19

Report To Information Company Name: <u>Colorado Analytical Laboratory</u> Report To: <u>Stuart Nielson</u> E-Mail: <u>stuartnielson@coloradolab.com</u>	Bill To Information (if different from report to)	Project Name <u>Rockwood Homes</u>
Address: <u>10411 Heinz Way</u> <u>Commerce City, CO 80640</u> Phone: <u>303-669-2313</u>	Address: <u>CAL TASK</u> <u>220331058</u> <u>JML</u>	Compliance Samples: Yes ☐ No ☒ Submit Data to CDPHE: Yes ☐ No ☒

Tests Requested

[illegible]

Comment:

FedEx: 5736 5360 3108

Pres: (A03) 4/1/22 1316 RG

Pres v: 4/4/22 0644 MS

Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:
KALCS	4-1 9:10	<i>[Signature]</i>	4/1/82 1310				

Analytical Results

TASK NO: 220331058

Report To: Doug Schwenke
Company: JDS Hydro Consultants
5540 Tech Center Dr.
Suite 100
Colorado Springs CO 80919

Bill To: Doug Schwenke
Company: JDS Hydro Consultants
5540 Tech Center Dr.
Suite 100
Colorado Springs CO 80919

Task No.: 220331058
Client PO:
Client Project: Rockwood Homes

Date Received: 3/31/22
Date Reported: 4/21/22
Matrix: Water - Drinking

Customer Sample ID #1 - Mayketa Well
Sample Date/Time: 3/30/22 2:15 PM
Lab Number: 220331058-01

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	19.4 mg/L	EPA 300.0	0.1 mg/L		3/31/22	QC55979	MLT
Fluoride	0.48 mg/L	EPA 300.0	0.10 mg/L	4	3/31/22	QC55981	MLT
Nitrate Nitrogen	4.04 mg/L	EPA 300.0	0.05 mg/L	10	3/31/22	QC55977	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	1	3/31/22	QC55978	MLT
Sulfate	85.7 mg/L	EPA 300.0	0.1 mg/L		3/31/22	QC55980	MLT
Cyanide-Total	ND	EPA 335.4	0.005 mg/L	0.02	4/6/22	QC56076	ECM
Total							
Iron	0.023 mg/L	EPA 200.7	0.005 mg/L	0.3	4/1/22	QC55966	MBN
Aluminum	ND	EPA 200.8	0.001 mg/L	0.05	4/5/22	QC55983	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	0.006	4/5/22	QC55983	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	0.01	4/5/22	QC55983	MBN
Barium	0.0121 mg/L	EPA 200.8	0.0007 mg/L	2	4/5/22	QC55983	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	0.004	4/5/22	QC55983	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	0.005	4/5/22	QC55983	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	0.1	4/5/22	QC55983	MBN
Manganese	0.0036 mg/L	EPA 200.8	0.0008 mg/L	0.05	4/5/22	QC55983	MBN
Mercury	ND	EPA 200.8	0.0001 mg/L	0.002	4/5/22	QC55983	MBN
Selenium	0.0044 mg/L	EPA 200.8	0.0008 mg/L	0.05	4/5/22	QC55983	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	0.1	4/5/22	QC55983	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	0.002	4/5/22	QC55983	MBN
Zinc	0.355 mg/L	EPA 200.8	0.001 mg/L	5	4/5/22	QC55983	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
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Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.
(s) Spike amount low relative to the sample amount.
ND = Not Detected at Reporting Limit.

Analytical QC Summary

TASK NO: 220331058

Report To: Doug Schwenke
Company: JDS Hydro Consultants

Receive Date: 3/31/22
Project Name: Rockwood Homes

Test	QC Batch ID	QC Type	Result	Method
Chloride	QC55979	Blank	ND	EPA 300.0
Cyanide-Total	QC56076	Blank	ND	EPA 335.4
Fluoride	QC55981	Blank	ND	EPA 300.0
Aluminum	QC55983	Method Blank	ND	EPA 200.8
Antimony	QC55983	Method Blank	ND	EPA 200.8
Arsenic	QC55983	Method Blank	ND	EPA 200.8
Barium	QC55983	Method Blank	ND	EPA 200.8
Beryllium	QC55983	Method Blank	ND	EPA 200.8
Cadmium	QC55983	Method Blank	ND	EPA 200.8
Chromium	QC55983	Method Blank	ND	EPA 200.8
Manganese	QC55983	Method Blank	ND	EPA 200.8
Mercury	QC55983	Method Blank	ND	EPA 200.8
Selenium	QC55983	Method Blank	ND	EPA 200.8
Silver	QC55983	Method Blank	ND	EPA 200.8
Thallium	QC55983	Method Blank	ND	EPA 200.8
Zinc	QC55983	Method Blank	ND	EPA 200.8
Iron	QC55966	Method Blank	ND	EPA 200.7
Nitrate Nitrogen	QC55977	Blank	ND	EPA 300.0
Nitrite Nitrogen	QC55978	Blank	ND	EPA 300.0
Sulfate	QC55980	Blank	ND	EPA 300.0

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC55979	Duplicate	0 - 20	-	3.0	EPA 300.0
		LCS	90 - 110	103.3	-	
		MS	75 - 125	88.6	-	
Cyanide-Total	QC56076	Duplicate	0 - 20	-	0.0	EPA 335.4
		LCS	90 - 110	95.4	-	
		MS	75 - 125	96.5	-	
Fluoride	QC55981	Duplicate	0 - 20	-	0.9	EPA 300.0
		LCS	90 - 110	95.8	-	
		MS	75 - 125	92.1	-	
Aluminum	QC55983	LCS	90 - 110	100.2	-	EPA 200.8
		MS	70 - 130	91.8	-	
		MSD	0 - 10	-	6.8	
Antimony	QC55983	LCS	90 - 110	97.6	-	EPA 200.8
		MS	70 - 130	92.5	-	
		MSD	0 - 10	-	2.6	
Arsenic	QC55983	LCS	90 - 110	95.6	-	EPA 200.8
		MS	70 - 130	110.8	-	
		MSD	0 - 10	-	5.4	
Barium	QC55983	LCS	90 - 110	90.1	-	EPA 200.8

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Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Beryllium	QC55983	MS	70 - 130	87.7	-	EPA 200.8
		MSD	0 - 10	-	2.9	
		LCS	90 - 110	94.4	-	
		MS	70 - 130	103.2	-	
Cadmium	QC55983	MSD	0 - 10	-	1.7	EPA 200.8
		LCS	90 - 110	92.1	-	
		MS	70 - 130	93.5	-	
		MSD	0 - 10	-	5.0	
Chromium	QC55983	LCS	90 - 110	96.9	-	EPA 200.8
		MS	70 - 130	91.9	-	
		MSD	0 - 10	-	0.3	
		LCS	90 - 110	95.2	-	EPA 200.8
Manganese	QC55983	MS	70 - 130	97.5	-	
		MSD	0 - 10	-	1.1	
		LCS	90 - 110	97.8	-	EPA 200.8
		MS	70 - 130	91.3	-	
Mercury	QC55983	MSD	0 - 10	-	1.5	
		LCS	90 - 110	96.2	-	EPA 200.8
		MS	70 - 130	106.3	-	
		MSD	0 - 10	-	3.1	
Silver	QC55983	LCS	90 - 110	90.0	-	EPA 200.8
		MS	70 - 130	88.5	-	
		MSD	0 - 10	-	1.8	
		LCS	90 - 110	99.4	-	EPA 200.8
Thallium	QC55983	MS	70 - 130	95.9	-	
		MSD	0 - 10	-	1.3	
		LCS	90 - 110	102.2	-	EPA 200.8
		MS	70 - 130	101.9	-	
Zinc	QC55983	MSD	0 - 10	-	2.5	
		LCS	90 - 110	96.5	-	EPA 200.7
		MS	75 - 125	97.8	-	
		Duplicate	0 - 20	-	0.0	
Iron	QC55966	LCS	90 - 110	99.5	-	EPA 300.0
		MS	75 - 125	86.5	-	
		Duplicate	0 - 20	-	6.7	
		LCS	90 - 110	99.1	-	EPA 300.0
Nitrate Nitrogen	QC55977	MS	75 - 125	91.7	-	
		Duplicate	0 - 20	-	0.0	
		LCS	90 - 110	99.1	-	EPA 300.0
		MS	75 - 125	91.7	-	
Nitrite Nitrogen	QC55978	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	99.1	-	
		MS	75 - 125	91.7	-	
		Duplicate	0 - 20	-	13.3	EPA 300.0
Sulfate	QC55980	LCS	90 - 110	101.6	-	
		MS	75 - 125	101.6	-	
		Duplicate	0 - 20	-	13.3	
		LCS	90 - 110	101.6	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.



DATA APPROVED FOR RELEASE BY

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Colorado
Analytical

Commerce City Lab
10411 Heinz Way
Commerce City CO 80640
Lakewood Service Center
12860 W. Cedar Dr, Suite 100A
Lakewood CO 80228
Phone: 303-659-2313
www.coloradolab.com

[illegible]

EXHIBIT D

FORM NO. GWS-76 05/2011	WATER SUPPLY INFORMATION SUMMARY STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Room 821, Denver, CO 80203 Main (303) 866-3581 dwr.colorado.gov		
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: Trinity Ranch Subdivision			
2. LAND USE ACTION: Preliminary Plan			
3. NAME OF EXISTING PARCEL AS RECORDED: SUBDIVISION: _____, FILING (UNIT) _____, BLOCK _____, LOT _____			
4. TOTAL ACREAGE: 137.92		5. NUMBER OF LOTS PROPOSED 35 PLAT MAP ENCLOSED? ☒ YES or ☐ NO	
6. PARCEL HISTORY – Please attach copies of deeds, plats, or other evidence or documentation. A. Was parcel recorded with county prior to June 1, 1972? ☐ YES or ☐ NO B. Has the parcel ever been part of a division of land action since June 1, 1972? ☐ YES or ☒ NO If yes, describe the previous action: _____			
7. LOCATION OF PARCEL – Include a map delineating the project area and tie to a section corner. ____ 1/4 of the <u>SE</u> 1/4, Section <u>9</u> , Township <u>14</u> ☐ N or ☒ S, Range <u>63</u> ☐ E or ☒ W Principal Meridian (choose only one): ☒ Sixth ☐ New Mexico ☐ Ute ☐ Costilla Optional GPS Location: GPS Unit must use the following settings: Format must be UTM , Units must be meters , Datum must be NAD83 , Unit must be set to true N , ☐ Zone 12 or ☐ Zone 13 Easting: _____ Northing: _____			
8. PLAT – Location of all wells on property must be plotted and permit numbers provided. Surveyor's Plat: ☐ YES or ☒ NO If not, scaled hand drawn sketch: ☒ YES or ☐ NO			
9. ESTIMATED WATER REQUIREMENTS		10. WATER SUPPLY SOURCE	
USE	WATER REQUIREMENTS	EXISTING WELL ☐ DEVELOPED SPRING ☐ WELL PERMIT NUMBERS _____ _____ _____ _____ ☐ MUNICIPAL ☐ ASSOCIATION ☐ COMPANY ☐ DISTRICT NAME _____ LETTER OF COMMITMENT FOR SERVICE ☐ YES or ☐ NO	☒ NEW WELLS - PROPOSED AQUIFERS – (CHECK ONE) ☐ ALLUVIAL ☒ UPPER ARAPAHOE ☐ UPPER DAWSON ☐ LOWER ARAPAHOE ☐ LOWER DAWSON ☐ LARAMIE FOX HILLS ☐ DENVER ☐ DAKOTA ☐ OTHER: _____ WATER COURT DECREE CASE NUMBERS: <u>4336-BD</u> _____ _____ _____
HOUSEHOLD USE # <u>35</u> of units	Gallons per Day _____ Acre-Feet per Year <u>9.1</u>		
COMMERCIAL USE # _____ of S. F	_____		
IRRIGATION # <u>0.27</u> of acres	_____ <u>0.665</u>		
STOCK WATERING # <u>35</u> of head	_____ <u>0.385</u>		
OTHER: _____	_____		
TOTAL	_____ <u>10.15</u>		
11. WAS AN ENGINEER'S WATER SUPPLY REPORT DEVELOPED? ☐ YES or ☒ NO IF YES, PLEASE FORWARD WITH THIS FORM. (This may be required before our review is completed.)			
12. TYPE OF SEWAGE DISPOSAL SYSTEM ☒ SEPTIC TANK/LEACH FIELD ☐ CENTRAL SYSTEM ☐ LAGOON ☐ VAULT ☐ ENGINEERED SYSTEM (Attach a copy of engineering design.) ☐ OTHER: _____ DISTRICT NAME: _____ LOCATION SEWAGE HAULED TO: _____			