COLVIN HERITAGE FARMS
Minor Subdivision

WATER
QUALITY REPORT

For
Colvin Heritage Farms
Minor Subdivision

December 8, 2020

Prepared By:

MONSON, CUMMINS & SHOHET, LLC
WWW.COWATERLAW.COM

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

Executive Summary:

Water Quality Report – Colvin Heritage Farms Minor Subdivision

Chris D. Cummins of Monson, Cummins & Shohet, LLC, on behalf of the Applicant, Michelle Colvin and Kevin Colvin, ("Owner"), provides the following Water Quality Report in support of the Colvin Heritage Farms Minor Subdivision. The undersigned has been practicing water law almost exclusively, for over 16 years, and has substantial experience with Denver Basin groundwater resources, augmentation plans, designated basin replacement plans, subdivision proceedings, and rural water usage, and therefore 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 BoCC, the sufficiency in terms of quality of the water rights and resources to be utilized in the proposed Colvin Heritage Farms Minor Subdivision (the "Subdivision"), near Black Forest in El Paso County, Colorado.

The Property consists of approximately 19.8 acres located at the current street address of 11545 and 11660 Green Acres Lane, Colorado Springs, CO 80908, in the E½ SE¼ SE¼ all in Section 15, Township 12 South, Range 65 West of the 6th P.M. Each of the 2 lots in the Subdivision is to be provided water and sewer/septic services through an on-site individual well and Individual Septic Disposal Systems ("ISDS"). The proposed minor subdivision includes two residential lots. Lot 1 has an existing residence and will be approximately 10.1 acres, while Lot 2, which is currently unimproved land, will be approximately 9.7 acres in size. The sufficiency and adequacy of water resources are described in a separate Water Resources Report.

The water resources to be utilized on the residential lots in the Subdivision is typical of rural residential development in areas east of the Black Forest in El Paso County, Colorado. The Determination of Water Right and associated Replacement Plan approved by the Colorado Ground Water Commission 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, and the well-established water quality in the Dawson Aquifer in this part of the County, demonstrates a sufficient water quality consistent with Section 8.4.7(3)(d) as well as quality testing completed for one of the Dawson aquifer wells existing on the property, demonstrates a sufficient water quality.

I. INTRODUCTION

The purpose of this report is to provide a preliminary outline of the water quality necessary for approval of the CHF minor subdivision, as proposed.

1.1 New Development Description: The Subdivision consists of approximately 19.8 acres located at 11545 and 11660 Green Acres Lane, Colorado Springs, CO 80908 in the E½ SE¼ SE¼ all in Section 15, Township 12 South, Range 65 West of the 6th P.M. The Property will be subdivided into two lots. **Exhibit A**, attached hereto, is a plat for the

Subdivision as proposed, prepared by Compass Surveying & Mapping, LLC, including an area/vicinity map.

II. PROJECTION OF WATER NEEDS

2.1 Analysis of Water Demands: It is expected that the two residential lots in the Subdivision, utilizing two individual wells drilled to the Dawson, to be utilized for domestic-type uses, including in-house, landscape/irrigation of lawn and gardens, and watering of domestic animals and stock, and limited pasture irrigation from one individual well existing on the Property and one individual well to be constructed on the Property. An existing non-exempt well with Permit No. 84459-F will provide water supply to one of the lots, while the to-be constructed non-exempt well with Permit No. 84460-F will serve the other lot. Both well locations are depicted on attached **Exhibit B**. It is anticipated that the residences on both lots will utilize a maximum total of 1.0 annual acre feet of water, for in-house residential purposes, consistent with Section 8.4.7(B)(7)(d). The existing well, permitted under Permit No. 84459-F, is constructed to and will produce from the not-nontributary Dawson aquifer at a flow rate of 10 to 15 gallons per minute, based upon past production. There are no other wells currently constructed on the property; however, the Applicant has obtained Permit No. 84460-F to drill a non-exempt well upon approval of the Subdivision. Based on past experience with the numerous Dawson 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 QUALITY

3.1 Water Rights: A Replacement Plan for utilizing the underlying Dawson aquifer was approved by the Colorado Ground Water Commission on May 14, 2020, and the sufficiency and dependability of such water supplies are described in a separate Water Resources Report.

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

3.3 Water Quality and Treatment: The water quality in the Dawson aquifer in this area is well established as being suitable for potable use with only in-house filtration for mineral deposits, with an estimated 27,000 households in El Paso County currently utilizing Denver Basin wells. *See* June 15, 2015 Gazette article – "*Where there is a well, there is a way*…", attached hereto as **Exhibit C**. The existing well has been historically utilized for water service to a single-family home, with all legal requirements regarding bacterial/inorganics testing presumably satisfactory. Applicant has obtained new water quality testing for the to-be-constructed well with Permit No. 84460-F, including bacterial and inorganic testing, so as to ensure compliance with Land Development Code Section 8.4.7(B)(3)(d), and copies of those testing results are collectively attached hereto as **Exhibit D** (per the revised LDC, Section 8.4.7(B)(10)(a): "*for*

subdivisions served by groundwater wells drawing only from a confined aquifer, the chemical analysis does not need to include the Volatile Organic Chemical Contaminants and Synthetic Organic Chemical Contaminants"). The to-be-constructed well will meet all applicable regulatory requirements regarding quality testing before being utilized as a residential water source.

Respectfully submitted this 8th day of December 2020.

MONSON, CUMMINS & SHOHET, LLC

/s/ Chris D. Cummins

Chris D. Cummins

cc: Client, Jane Fredman

Exhibits:
A – Location Map/Plat of the Property
B – Map Location of Wells
C – Gazette article
D – Well Testing Results

EXHIBIT

A

COLVIN HERITAGE FARMS MINOR SUBDIVISION

A SUBDIVISION OF A PORTION OF THE SOUTHEAST QUARTER OF SECTION 15,
TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M.,
EL PASO COUNTY, COLORADO

KNOW ALL MEN BY THESE PRESENTS:

That Kevin Colvin and Michelle Colvin, being the owners of the following described tract of land to wit:

The Northeast Quarter of the Southeast Quarter of the Southeast Quarter od Section 15, Township 12 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado.

AND

The Southeast Quarter of the Southeast Quarter of the Southeast Quarter od Section 15, Township 12 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, except the South 30 feet for road purposes.

Containing a calculated area of 862,493 square feet (19.8001 acres), more or less.

OWNERS CERTIFICATION:

The undersigned, being all the owners, mortgages, beneficiaries of deeds of trust and holders of other interests in the land described herein, have laid out, subdivided, and platted said lands into lots and easements as shown hereon under the name and subdivision of **COLVIN HERITAGE FARMS MINOR 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.

_____
Kevin Colvin Date

_____
Michelle Colvin Date

STATE OF COLORADO }
COUNTY OF EL PASO } SS

Acknowledged before me this _____ day of _____, 2020 by Kevin Colvin and Michelle Colvin.

My commission expires _____

Witness my hand and official seal _____
Notary Public

BOARD OF COUNTY COMMISSIONERS CERTIFICATE:

This plat for **COLVIN HERITAGE FARMS MINOR SUBDIVISION** was approved for filing by the El Paso County, Colorado Board of County Commissioners on the _____ day of _____, 2020, subject to any notes specified hereon and any conditions included in the resolution of approval. The dedications of land to the public (Public Utility Easements) are accepted, but public improvements thereon will not become the maintenance responsibility of El Paso County until preliminary acceptance of the public improvements in accordance with the requirements of the Land Development Code and Engineering Criteria Manual, and the Subdivision Improvements Agreement.

_____
Chair, Board of County Commissioners Date

COUNTY APPROVAL:

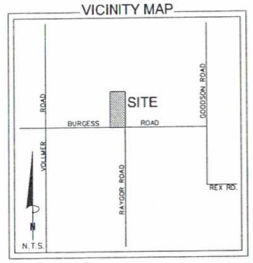
Approval is granted for this plat of **COLVIN HERITAGE FARMS MINOR SUBDIVISION** this _____ day of

_____, 2020, A.D.

_____
El Paso County Director of Planning and Community Development

_____
El Paso County Assessor

VICINITY MAP



NOTES:

1) This survey does not constitute a title search by Compass Surveying & Mapping, LLC to determine ownership or easements of record. For all information regarding easements, rights of way and title of record, Compass Surveying & Mapping, LLC relied upon a Commitment for Title Insurance issued by Old Republic National Title Insurance Company, OrderNo. SR55081052 with an effective date of 11/20/2019 at 5:00 P.M.

2) Basis of bearings is the east line of the property, monumented as shown and assumed to bear South 0 degrees 18 minutes 00 seconds West.

3) This property is located within Zone X (areas determined to be outside the 500-year floodplain) as established by FEMA per FIRM panels 08041C0320 G and 08041C0535 G, effective date, December 7, 2018.

4) Notice: According to Colorado law you must commence any legal action based upon any defect in this survey within three years after you first discover such defect. In no event may any action based upon any defect in this survey be commenced more than ten years from the date of the certification shown hereon.

5) The linear units used in this drawing are U.S. Survey feet.

6) El Paso County Planning and Community Development Department Engineering must be contacted prior to the establishment of any driveway.

7) The following reports have been submitted in association with the Final Plat for this subdivision and are on file at the County Planning and Community Development Department: _____

8) 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

9) The addresses (11545) exhibited on this plat is for informational purposes only. They are not the legal description and are subject to change..

10) Easements are as shown, with the sole responsibility for maintainance of these easements is hereby vested with the adjacent property owners.

11) 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, US Army Corps of Engineers and the US Fish and Wildlife Service regarding the Endangered Species Act, particularly as it relates to the listed species (e.g. Preibles Meadow Jumping Mouse).

12) Mailboxes shall be installed in accordance with all El Paso County and United States Postal Service regulations.

13) Individual lot purchasers are responsible for constructing driveways including necessary drainage culverts from Vollmer Road per Land Development Code Section 6.3.3.c.2 and 6.3.3.c.3.

14) Water Supply: Water service for this subdivision is provided by 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.

NOTES (continued):

17) Wastewater: Wastewater service for this subdivision is provided by individual septic systems. Sewage treatment is the responsibility of each individual property owner. The El Paso County Department of Health and Environment must approve each system and, in some cases the Department may require an engineer designed system prior to permit approval. These systems may cost more to design, install, and maintain.

18) Utility providers are: Black Hills Energy, Colorado Springs Utilities, Century Link Communications, Falcon Broadband.

19) This property has been incorporated into the Black Forest Fire/Rescue Protection District.

20) Sediment control is to be provided on each lot and the minimal developed conditions runoff shall be maintained per the El Paso County Drainage Criteria Manual.

SURVEYOR'S CERTIFICATION:

I, Mark S. Johannes, a duly registered Professional Land Surveyor in the State of Colorado, do hereby certify that this plat truly and corectly represents the results of a survey made on the date of survey shown hereon, 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.

This certification is neither a warranty nor guarantee, either expressed or implied.

Mark S. Johannes
Colorado Professional Land Surveyor No. 12439
For and on behalf of Compass Surveying and Mapping, LLC

FEES:

Drainage Fee: _____ School Fee: _____

Bridge Fee: _____ Park Fee: _____

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 _____, 2020, A.D., and is duly recorded

under Reception No. _____ of the records of El Paso County, Colorado.

CHUCK BROERMAN, RECORDER

BY: _____
Deputy

SURCHARGE: _____

FEE: _____

DSD FILE NO: MS _____

REVISIONS:		

PROJECT NO. 19227
APRIL 30, 2020
SHEET 1 OF 2

COMPASS SURVEYING & MAPPING, LLC
3249 WEST CAREFREE CIRCLE
COLORADO SPRINGS, CO 80917
719-354-4120
WWW.CSAMLLC.COM

COLVIN HERITAGE FARMS MINOR SUBDIVISION

A SUBDIVISION OF A PORTION OF THE SOUTHEAST QUARTER OF SECTION 15,
TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M.,
EL PASO COUNTY, COLORADO

GRAPHIC SCALE

50 0 25 50

(IN FEET)

1 inch = 50 ft.

DSD FILE NO: MS _____

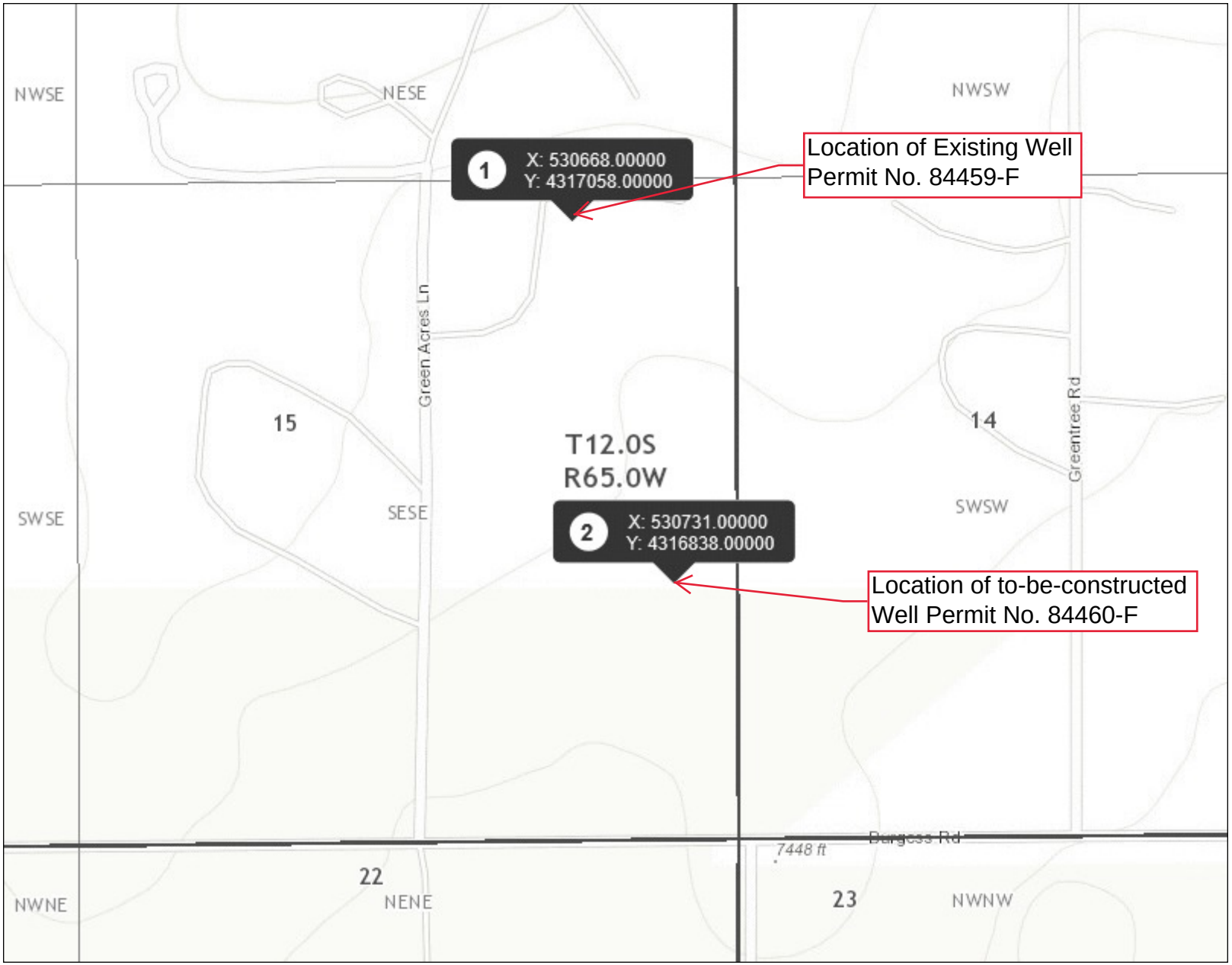
REVISIONS:

PROJECT NO. 19227
APRIL 30, 2020
SHEET 2 OF 2

COMPASS SURVEYING & MAPPING, LLC
3249 WEST CAREFREE CIRCLE
COLORADO SPRINGS, CO 80917
719-354-4120
WWW.CSAMLLC.COM

COLORADO'S
Decision Support Systems
CWCB / DWR

Exhibit B - Well Locations



Legend

- Township
- Section
- Q40
- County

Location

Notes

585 0 292 585 Feet

1: 3,508

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: 6/24/2020 7:30:14 PM

The Country Life: Where there's a well, there's a way to get water - hopefully

By: **Bill Radford (/author/Bill+Radford)** • June 15, 2015 • *Updated: June 15, 2015 at 4:10 am*

EXHIBIT C

About 27,000 households are served by individual water wells in El Paso County. BILL RADFORD, THE GAZETTE

View Gallery (/gallery/articleid/1553752/pictures?display=flexFullscreen&galleryTheme=lightTheme)

Log in to comment (/comments/1/1553752)

When a well was drilled for a neighbor's new home recently, it was another "straw" dipping into the water beneath our feet.

There's a lot of such straws in the area. An estimated 27,000 homes - about 67,500 residents - are served by private water wells in El Paso County. That's about 11 percent of residents; the rest are served by public drinking water systems, from the biggie - Colorado Springs Utilities - to smaller ones such as Donala Water and Sanitation District, Cherokee Metro and the city of Fountain. The public systems draw their water from surface water, groundwater or both.

In eastern El Paso County, where I live, most utilize groundwater - the water that lies beneath the Earth's surface. Our well reaches 870 feet into the Arapahoe Aquifer; it's one of four aquifers that make up the Denver Basin, which stretches from El Paso County to Weld County.

If you're looking for property in the country with plans to dig a well, do your homework first, cautions Mark Birkelo, general manager of Barnhart Pump Co. in Falcon.

"The first phone call you want to make is to a water well contractor," Birkelo said. A company such as Barnhart quickly can check on water quality and quantity in a given area.

"That phone call can save a lot of grief," Birkelo said.

Once a site is chosen, the homeowner must acquire a permit from the state Division of Water Resources. Residential permits include domestic and household use only; the latter means no outside water, so no water for lawns, livestock, etc.

Ready to drill a well? "The cost for drilling and pumping can be considerable," cautions El Paso County's "Code of the West." Expect to pay about $22 to $24 a foot for a well 600 feet or deeper, Birkelo said; the cost per foot will be less if under about 600 feet. Barnhart is not a drilling company, but does the oversight for 40 to 50 new wells a year, Birkelo said.

If moving to property with a well, test the water pump's production and the quality of the water, Birkelo advised; for information on water potability testing, visit El Paso County Public Health's website at elpasocountyhealth.org/service/water-quality.

Quality is one issue; quantity is another. One afternoon I turned on the tap and nothing came out. The immediate paranoid thought: Our well had run dry. But we had simply overtaxed the water pump; after a 10-minute break, water started to flow again. But long-term worry remains. As a water resources report on the county's website notes, "the aquifers found in the Denver Basin are not considered to be a long-range, renewable source of water. The bedrock aquifers are subject to depletion if withdrawals exceed the natural recharge rate, which is very slow, given that the water within these aquifers has accumulated over thousands of years. The negligible rate of natural recharge, the considerable increase in water withdrawal, and the semiarid climate of the region have led to a situation where the amount of withdrawal from the aquifers may be exceeding the amount of recharge."

Birkelo, who has been in the water business in El Paso County for 30 years, believes that rate of replenishment

depends on the area. There are some wells that have a higher water level than they did decades before, he said, even though "there have been more straws put into that glass of water over time." In other areas, he has seen water levels drop.

Bottom line: It's tough to know what's happening deep underground, he says. That's why oil companies "spend millions of dollars trying to see what's down there" and often end up with a hole in the ground and nothing to show for it. "We know more about outer space," Birkelo said, "than we do what's under our own two feet."

El Paso County, CO Public Health

1675 W. Garden of the Gods Road Suite 2044
Colorado Springs, CO 80907 (719) 578-3120

EXHIBIT D

REPORTING FORM FOR INORGANIC ANIONS IN WATER
EPA ID # CO00025

PWSID# CO0	CONTACT: Michelle Colvin
SITE ADDRESS: 11660 Green Acres Lane Black Forest, CO 80908	PHONE: (248) 219-4534 FAX/EMAIL: kpsogoian@sbcglobal.net COLLECTED BY: Kevin Colvin SAMPLE COLLECTION DATE: 6/24/20
SITE DESCRIPTION: ☐ Public System ☑ Private ☐ Surface ☐ Stream ☐ GWUDI ☐ Other	SAMPLE COLLECTION TIME: 0815 MATRIX: Groundwater RESIDUAL CHLORINE: mg/L
CUSTOMER: Michelle Colvin 11660 Green Acres Lane BLACK FOREST, CO 80908	SAMPLE RECEIVED DATE: 6/24/20 RECEIVED TIME: 0915 TECH: EE0000728 RECEIVED TEMP: 18.8°C DILUTIONS: 1:10
COMMENTS:	

TESTED	COMPLETED	TECH
DATE: 06/25/2020	DATE: 06/25/2020	
TIME: 1145	TIME: 1345	ID: EE0000742
LAB SAMPLE #:IC19284	SAMPLE POINT NAME: Bathtub	
SAMPLE POINT ID:	FACILITY TYPE:	
FACILITY ID:	FACILITY NAME:	

PARAMETER	RESULTS	UNITS	MCL	MSL	STANDARD METHOD	LAB MRL
Fluoride		mg/L	4.0		EPA 300	0.04
Chloride		mg/L		250	EPA 300	0.1
Nitrite-N		mg/L	1.0		EPA 300	0.2
Bromide		mg/L				0.2
Nitrate-N	0.4	mg/L	10.0		EPA 300	0.2
Orthophosphate-P		mg/L	no limit established		EPA 300	0.3
Sulfate		mg/L		250	EPA 300	0.3

BDL - Below Detection Limit
MRL - Minimum Reporting Limit
MCL - Maximum Contamination Unit per EPA
MSL - Maximum Secondary Unit per EPA
Q - Quality Control Limit Exceeded
H - Holding Time Exceeded
NT - No Test

Revision: 1/27/2020

STANDARD BACTERIOLOGICAL WATER TEST METHOD:SM-9223B

El Paso County Public Health Laboratory EPA ID# CO00025

1675 West Garden of the Gods Road, Suite 2044, Colorado Springs, CO 80907 - (719) 578-3120

PWSID

☐ Raw
☐ Finished
☐ LT2
☐ Quantitative

Sample Point ID:

Sample Taken Date: 06/24/2020 Time: 0815 Name of Supply:

Address where sample was taken: 11660 Green Acres Lane

Sample site location: Bathtub Sampler: Kevin Colvin Chlorine: mg/L

☐ Community Supply ☑ Private ☑ Well ☐ City

☐ Non-Community ☐ EHS ☐ Surface/Spring ☐ Cistern

Results to: Michelle Colvin Phone: (248) 219-4534

Mailing address: 11660 Green Acres Lane

City/State/Zip: COLORADO SPRINGS, CO. 80908

Fax/Email: kpsogoian@sbcglobal.net

Comments:

Date 06/24/2020	Time 0915	Rc'd EE0000728
Date 06/24/2020	Time 1410	Tested EE0000742
Date 06/25/2020	Time 0816	Comp EE0000742

Lab Sample #19283

Colliert Results Per 100ml

☑ Absence: Absence of coliform bacteria

☐ Presence: Presence of coliform bacteria & non-compliance with drinking water standards.

MPN/100 ml:

☑ Absence: E. Coli: Escherichia coli bacteria

☐ Presence:

MPN/100 ml:

Colorado Analytical LABORATORIES, INC.

Analytical Results

TASK NO: 201106028

Report To: Kevin and Michelle Colvin
Company: Colvin Subdivision
11660 Green Acres Lane
Black Forest CO 80908

Bill To: Kevin and Michelle Colvin
Company: Colvin Subdivision
11660 Green Acres Lane
Black Forest CO 80908

Task No.: 201106028
Client PO: PAID CC
Client Project: Colvin Subdivision

Date Received: 11/6/20
Date Reported: 11/16/20
Matrix: Water - Drinking

Customer Sample ID 11545 Green Acres
Sample Date/Time: 11/6/20 10:00 AM
Lab Number: 201106028-01

Test	Result	Method	ML	Date Analyzed	Analyzed By
Bicarbonate	**65.4 mg/L as CaCO3**	SM 2320-B	4	11/9/20	ECM
Calcium as CaCO3	**38.8 mg/L**	EPA 200.7	0.1	11/11/20	MBN
Carbonate	**< 4 mg/L as CaCO3**	SM 2320-B	4	11/9/20	ECM
Hydroxide	**< 4 mg/L as CaCO3**	SM 2320-B	4	11/9/20	ECM
Langelier Index	**-1.86 units**	SM 2330-B		11/12/20	SAN
pH	**6.52 units**	SM 4500-H-B	0.01	11/6/20	AMJ
Temperature	**20 °C**	SM 4500-H-B	1	11/6/20	AMJ
Total Alkalinity	**65.4 mg/L as CaCO3**	SM 2320-B	4	11/9/20	ECM
Total Dissolved Solids	**139 mg/L**	SM 2540-C	5	11/11/20	ISG

Abbreviations/ References:

ML = Minimum Level = LRL = RL
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

Drinking Water Chain of Custody

Colorado Analytical LABORATORIES, INC.

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

Report To Information	**Bill To Information** (If different from report to)	**Project Information**
Company Name: Kevin + Michelle Colvin	**Company Name:** SAME	**PWSID:**
Contact Name: same	**Contact Name:**	**System Name:**
Address: 11660 Green Acres Lane	**Address:**	**Compliance Samples:** Yes ☐ No ☒
City: Colorado Spring **State:** CO **Zip:** 80908	**City:** **State:** **Zip:**	**Send Results to CDPHE:** Yes ☐ No ☒
Phone: 248-219-4534	**Phone:**	**Task Number** (Lab Use Only) CAL Task 201106028 EMN
Email: kpsagorian@sbcglobal.net	**Email:**	
Sample Collector: Kevin Colvin		
Sample Collector Phone: same	**PO Number:**	

Date	Time	Client Sample ID / Sample Pt ID	No. of Containers	Residual Chlorine (mg/L) P/A Samples Only	Total Coliform P/A	504.1 EDB/DBCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothall	549.2 Diquat	524.2 TTHMs	552.2 HAA5s	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk./Lang. Index (Circle)	TOC, DOC (Circle)	SUVA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226/228	Radon	Uranium	Chlorite
11/6/20	10:00	11545 Green Acres	7																										
			7																										

PHASE I, II, V Drinking Water Analyses (check requested analysis) | **Subcontract Analyses**

Instructions:
See quote #QBO20090081
Paid $626.56 CC

C/S Info:

Delivered Via: Hand C/S Charge ☐

Seals Present Yes ☐ No ☐ Headspace Yes ☐ No ☐

Temp. 11.4 °C /Ice N Sample Pres. Yes ☒ No ☐

Relinquished By:	Date/Time:	Received By:	Date/Time:	Relinquished By:	Date/Time:	Received By:	Date/Time:
	11/6/20 11:35am		11/6/20 11:37				

Colorado Analytical LABORATORIES, INC.

Quotation for Analytical Services
Quote ID: QBO20090081

Prepared For: **Colvin Subdivision**
11660 Green Acres Lane

Black Forest, CO 80908

Attn: **Kevin and Michelle Colvin**

Project:
Colvin Subdivision

Quote Date: **Friday, September 25, 2020**
Turn Around Time: **10 Working Days**

CAL Task
201106028

EMN

Matrix	Description	Method	Qty.	Price - each	Total
Water - Drinking	Langelier Index	N/A	1	$57.00	$57.00
Water - Drinking	Alkalinity	SM 2320-B	1	Incl.	Incl.
Water - Drinking	Ca as CaCO3	EPA 200.7	1	Incl.	Incl.
Water - Drinking	Carb/ Bicarb	SM 2320-B	1	Incl.	Incl.
Water - Drinking	Lang Index	SM 2330-B	1	Incl.	Incl.
Water - Drinking	pH/ Temp	SM 4500-H-B	1	Incl.	Incl.
Water - Drinking	TDS	SM 2540-C	1	Incl.	Incl.
Water - Drinking	Nitrate/ Nitrite Nitrogen	Calculation	1	$0.00	$0.00
Water - Drinking	Fe - Total	EPA 200.7	1	$12.00	$12.00
Water - Drinking	Ag - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Al - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	As - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Ba - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Be - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Cd - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Cr - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Hg	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Mn - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Sb - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Se - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Tl - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Zn - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Nitrate Nitrogen	EPA 300.0	1	$17.00	$17.00
Water - Drinking	Nitrite Nitrogen	EPA 300.0	1	$17.00	$17.00
Water - Drinking	Cyanide-Total	EPA 335.4	1	$38.00	$38.00
Water - Drinking	Gross Alpha/Beta (Sub)	SM 7110-B	1	$56.16	$56.16
Water - Drinking	Radium 226 (Sub)	SM 7500-Ra B	1	$75.60	$75.60
Water - Drinking	Radium 228 (Sub)	EPA Ra-05	1	$118.80	$118.80
Shipping	Cooler Shipment - UPS	UPS	1	$10.00	$10.00
Shipping	Sample Shipment to Outside Lab	UPS	1	$30.00	$30.00

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507

JML

Colorado Analytical LABORATORIES, INC.

Analytical Results

TASK NO: 201106028

Report To: Kevin and Michelle Colvin
Company: Colvin Subdivision
11660 Green Acres Lane
Black Forest CO 80908

Bill To: Kevin and Michelle Colvin
Company: Colvin Subdivision
11660 Green Acres Lane
Black Forest CO 80908

Task No.: 201106028
Client PO: PAID CC
Client Project: Colvin Subdivision

Date Received: 11/6/20
Date Reported: 11/16/20
Matrix: Water - Drinking

Customer Sample ID 11545 Green Acres
Sample Date/Time: 11/6/20 10:00 AM
Lab Number: 201106028-01

Test	Result	Method	ML	Date Analyzed	Analyzed By	MCL
Nitrate/ Nitrite Nitrogen	**0.43 mg/L**	Calculation	0.05 mg/L	11/10/20	MAT	
Nitrate Nitrogen	**0.43 mg/L**	EPA 300.0	0.05 mg/L	11/6/20	MAT	10
Nitrite Nitrogen	**< 0.03 mg/L**	EPA 300.0	0.03 mg/L	11/6/20	MAT	1
Cyanide-Total	**< 0.005 mg/L**	EPA 335.4	0.005 mg/L	11/11/20	JTF	0.02
Total						
Iron	**< 0.005 mg/L**	EPA 200.7	0.005 mg/L	11/11/20	MBN	0.3
Aluminum	**0.002 mg/L**	EPA 200.8	0.001 mg/L	11/9/20	IPC	0.05
Antimony	**< 0.0012 mg/L**	EPA 200.8	0.0012 mg/L	11/9/20	IPC	0.006
Arsenic	**< 0.0006 mg/L**	EPA 200.8	0.0006 mg/L	11/9/20	IPC	0.01
Barium	**0.0807 mg/L**	EPA 200.8	0.0007 mg/L	11/9/20	IPC	2
Beryllium	**0.0001 mg/L**	EPA 200.8	0.0001 mg/L	11/9/20	IPC	0.004
Cadmium	**< 0.0001 mg/L**	EPA 200.8	0.0001 mg/L	11/9/20	IPC	0.005
Chromium	**< 0.0015 mg/L**	EPA 200.8	0.0015 mg/L	11/9/20	IPC	0.1
Manganese	**0.0014 mg/L**	EPA 200.8	0.0008 mg/L	11/9/20	IPC	0.05
Mercury	**< 0.0000 mg/L**	EPA 200.8	0.0000 mg/L	11/10/20	MLT	0.002
Selenium	**0.0208 mg/L**	EPA 200.8	0.0008 mg/L	11/9/20	IPC	0.05
Silver	**< 0.0005 mg/L**	EPA 200.8	0.0005 mg/L	11/9/20	IPC	
Thallium	**< 0.0002 mg/L**	EPA 200.8	0.0002 mg/L	11/9/20	IPC	0.002
Zinc	**0.014 mg/L**	EPA 200.8	0.001 mg/L	11/9/20	IPC	5

Abbreviations/ References:

ML = Minimum Level = LRL = RL
MCL = Maximum Contaminant Level per The EPA
mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
mpn/100 mls = Most Probable Number Index/ 100 mls
Date Analyzed = Date Test Completed

DATA APPROVED FOR RELEASE BY

Drinking Water Chain of Custody

Colorado Analytical LABORATORIES, INC.

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

Report To Information	**Bill To Information** (If different from report to)	**Project Information**
Company Name: Kevin + Michelle Colvin	**Company Name:** SAME	**PWSID:**
Contact Name: same	**Contact Name:**	**System Name:**
Address: 11660 Green Acres Lane	**Address:**	**Compliance Samples:** Yes ☐ No ☒
City: Colorado **State:** CO **Zip:** 80908	**City:** **State:** **Zip:**	**Send Results to CDPHE:** Yes ☐ No ☒
Phone: Spring 248-219-4534	**Phone:**	**Task Number** (Lab Use Only) CAL Task 201106028 EMN
Email: kpsogoian@sbcglobal.net	**Email:**	
Sample Collector: Kevin Colvin		
Sample Collector Phone: same	**PO Number:**	

				PHASE I, II, V Drinking Water Analyses (check requested analysis)																			**Subcontract Analyses**				
Date	**Time**	**Client Sample ID / Sample Pt ID**	**No. of Containers**	**Residual Chlorine (mg/L) P/A Samples Only**	**Total Coliform P/A**	**504.1 EDB/DBCP**	**505 Pests/PCBs**	**515.4 Herbicides**	**524.2 VOCs**	**525.2 SOCs-Pest**	**531.1 Carbamates**	**547 Glyphosate**	**548.1 Endothall**	**549.2 Diquat**	**524.2 TTHMs**	**552.2 HAA5s**	**Lead/Copper**	**Nitrate**	**Nitrite**	**Fluoride**	**Inorganics**	**Alk./Lang. Index (Circle)**	**TOC, DOC (Circle)**	**SUVA, UV 254 (Circle)**		**Gross Alpha/Beta**	**Radium 226/228**	**Radon**	**Uranium**	**Chlorite**
11/6/20	10:00	11545 Green Acres	1																										
			1																										

Instructions:
See quote #QBO20090081
Paid $626.56 CC

C/S Info:

Delivered Via: Hand C/S Charge ☐

Seals Present Yes ☐ No ☐ Headspace Yes ☐ No ☐

Temp. 11.4 °C /Ice N Sample Pres. Yes ☒ No ☐

Relinquished By:	**Date/Time:**	**Received By:**	**Date/Time:**	**Relinquished By:**	**Date/Time:**	**Received By:**	**Date/Time:**
	11/6/20 11:35am		11/6/20 11:37				

Colorado Analytical LABORATORIES, INC.

Quotation for Analytical Services

Quote ID: QBO20090081

Prepared For: **Colvin Subdivision**
11660 Green Acres Lane

Black Forest, CO 80908

Attn: **Kevin and Michelle Colvin**

Quote Date: **Friday, September 25, 2020**
Turn Around Time: **10 Working Days**

Project:
Colvin Subdivision

CAL Task
201106028

EMN

Matrix	Description	Method	Qty.	Price - each	Total
Water - Drinking	Langelier Index	N/A	1	$57.00	$57.00
Water - Drinking	Alkalinity	SM 2320-B	1	Incl.	Incl.
Water - Drinking	Ca as CaCO3	EPA 200.7	1	Incl.	Incl.
Water - Drinking	Carb/ Bicarb	SM 2320-B	1	Incl.	Incl.
Water - Drinking	Lang Index	SM 2330-B	1	Incl.	Incl.
Water - Drinking	pH/ Temp	SM 4500-H-B	1	Incl.	Incl.
Water - Drinking	TDS	SM 2540-C	1	Incl.	Incl.
Water - Drinking	Nitrate/ Nitrite Nitrogen	Calculation	1	$0.00	$0.00
Water - Drinking	Fe - Total	EPA 200.7	1	$12.00	$12.00
Water - Drinking	Ag - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Al - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	As - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Ba - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Be - Total	EPA 200.8	1	$15.00	$15.00
Water - Drinking	Cd - Total	EPA 200.8	1	$15.00	$15.00
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