Colorado Analytical LABORATORIES, INC.

# Analytical Results

***TASK NO: 201019045***

**Report To:** Jon Didleaux
**Company:** Jon Didleaux
7935 Forest Heights Cir
Colorado Springs CO 80908

**Bill To:** Jon Didleaux
**Company:** Jon Didleaux
7935 Forest Heights Cir
Colorado Springs CO 80908

**Task No.:** 201019045
**Client PO:** PAID CHECK 1756
**Client Project:**

**Date Received:** 10/19/20
**Date Reported:** 10/28/20
**Matrix:** Water - Drinking

**Customer Sample ID** 7935 Forest Hts
**Sample Date/Time:** 10/19/20 5:30 AM
**Lab Number:** 201019045-01

| Test | Result | Method | ML | Date Analyzed | Analyzed By | MCL |
|---|---|---|---|---|---|---|
| Nitrate/ Nitrite Nitrogen | **0.41 mg/L** | Calculation | 0.05 mg/L | 10/21/20 | MAT | |
| Chloride | **2.3 mg/L** | EPA 300.0 | 0.1 mg/L | 10/20/20 | MAT | |
| Fluoride | **0.37 mg/L** | EPA 300.0 | 0.09 mg/L | 10/20/20 | MAT | 4 |
| Nitrate Nitrogen | **0.41 mg/L** | EPA 300.0 | 0.05 mg/L | 10/20/20 | MAT | 10 |
| Nitrite Nitrogen | **< 0.03 mg/L** | EPA 300.0 | 0.03 mg/L | 10/20/20 | MAT | 1 |
| Sulfate | **5.7 mg/L** | EPA 300.0 | 0.1 mg/L | 10/20/20 | MAT | |
| Cyanide-Total | **< 0.005 mg/L** | EPA 335.4 | 0.005 mg/L | 10/20/20 | JTF | 0.02 |
| *Total* | | | | | | |
| Iron | **< 0.005 mg/L** | EPA 200.7 | 0.005 mg/L | 10/22/20 | MBN | 0.3 |
| Sodium | **8.4 mg/L** | EPA 200.7 | 0.1 mg/L | 10/22/20 | MBN | N/A |
| Aluminum | **0.004 mg/L** | EPA 200.8 | 0.001 mg/L | 10/20/20 | IPC | 0.05 |
| Antimony | **< 0.001 mg/L** | EPA 200.8 | 0.001 mg/L | 10/20/20 | IPC | 0.006 |
| Arsenic | **0.001 mg/L** | EPA 200.8 | 0.001 mg/L | 10/20/20 | IPC | 0.01 |
| Barium | **0.039 mg/L** | EPA 200.8 | 0.001 mg/L | 10/20/20 | IPC | 2 |
| Beryllium | **< 0.001 mg/L** | EPA 200.8 | 0.001 mg/L | 10/20/20 | IPC | 0.004 |
| Cadmium | **< 0.001 mg/L** | EPA 200.8 | 0.001 mg/L | 10/20/20 | IPC | 0.005 |
| Chromium | **< 0.001 mg/L** | EPA 200.8 | 0.001 mg/L | 10/20/20 | IPC | 0.1 |
| Manganese | **< 0.0008 mg/L** | EPA 200.8 | 0.0008 mg/L | 10/20/20 | IPC | 0.05 |
| Mercury | **< 0.0001 mg/L** | EPA 200.8 | 0.0001 mg/L | 10/20/20 | IPC | 0.002 |

***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*

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| Test | Result | Method | ML | Date Analyzed | Analyzed By | MCL |
|---|---|---|---|---|---|---|
| *Total* | | | | | | |
| Nickel | **< 0.001 mg/L** | EPA 200.8 | 0.001 mg/L | 10/20/20 | IPC | N/A |
| Selenium | **0.013 mg/L** | EPA 200.8 | 0.001 mg/L | 10/20/20 | IPC | 0.05 |
| Silver | **< 0.0005 mg/L** | EPA 200.8 | 0.0005 mg/L | 10/20/20 | IPC | |
| Thallium | **< 0.001 mg/L** | EPA 200.8 | 0.001 mg/L | 10/20/20 | IPC | 0.002 |
| Zinc | **0.010 mg/L** | EPA 200.8 | 0.001 mg/L | 10/20/20 | IPC | 5 |

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# 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: Jon Didleaux | Company Name: | PWSID: |
| Contact Name: | Contact Name: | System Name: |
| Address: 7935 Forest Heights Cir. | Address: | Compliance Samples: Yes ☐ No ☒ |
| City: COS State: CO Zip: 80908 | City: State: Zip: | Send Results to CDPHE: Yes ☐ No ☒ |
| Phone: 719-337-4415 | Phone: | Task Number (Lab Use Only) CAL Task 201019045 EMN |
| Email: Mountainhoss@gmail.com | Email: | |
| Sample Collector: | | |
| Sample Collector Phone: | PO Number: | |

| Date | Time | Client Sample ID / Sample Pt ID | No. of Containers | Residual Chlorine (mg/L) P/A Samples Only | PHASE I, II, V Drinking Water Analyses (check requested analysis) | | | | | | | | | | | | | | | | | | Subcontract Analyses | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 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 |
| 10-19 | 5:30 | 7935 Forest Hts | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | (4) | | | | | | | | | | | | | | | | | | | | | | | | | |

**Instructions:**
See attached - highlighted (no rads)
Paid check #1756 #431

C/S Info:

Delivered Via: Hand C/S Charge ☐

Seals Present Yes ☐ No ☐ Headspace Yes ☐ No ☐

Temp. 16 °C /Ice N Sample Pres. Yes ☒ No ☐

| Relinquished By: | Date/Time: | Received By: | Date/Time: | Relinquished By: | Date/Time: | Received By: | Date/Time: |
|---|---|---|---|---|---|---|---|
| Jon Didleaux | 10-19, 8:51 | | 10/19/20 8:51 | | | | |

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adjusted, if necessary, to account for a junior priority appropriation.

EMN

(iv) Quantity of Bedrock Groundwater

The quantity of nonrenewable bedrock groundwater is calculated by multiplying the annual appropriation, as specified in the Colorado Groundwater Commission determination or court decrees and well permits, in acre feet, by 100 years. The appropriation shall be adjusted, if necessary, to account for groundwater previously appropriated or extracted. Denver Basin groundwater underlying the project site for which Colorado Groundwater Commission determinations or court decrees or well permits have not been issued may be counted as part of the water supply. The estimates of Denver Basin groundwaters are only permissible for those deep aquifers which will not be needed during the first 20 years of the project.

**(d) Available Perfected Groundwater**

Available groundwater from groundwater rights perfected prior to enactment of Senate Bill 213 (July 6, 1973) is calculated as follows:

(i) Calculating Quantity of Groundwater

If renewable (i.e. alluvial) multiply the annual appropriation by 300 years; if nonrenewable (i.e. Denver Basin aquifers) multiply the annual appropriation by 100 years. If appropriate make adjustments for the 3/7 rule on the Arkansas River or other extraction limitations.

(ii) Calculating Quantity of Pre-1973 Court Decree and Groundwater

The quantity of groundwater from pre-1973 court decrees and well permits shall be calculated independently, and when appropriate the cylinder of appropriation of the well shall be subtracted from the area of other groundwater calculations.

**(10) Finding of Sufficient Quality**

In conjunction with applicable State and federal water quality standards and requirements, the proposed water supplies shall meet the following requirements:

**(a) Chemical Analysis Required**

~~In~~For subdivisions ~~where~~ in which water will be supplied ~~by~~utlizing individual wells rather than a central water supply system, ~~A~~a chemical analysis shall be performed on a representative water sample from every bedrock groundwater source which will be utilized by the subdivision during the first 5 years and from every non-bedrock source to be used by the subdivision. Large subdivisions may require multiple samples

from the same source (not the same well) to ensure representative water quality analyses.

EMN

~~The El Paso County Public Health intent was never to requir sampling of all the parameters in the drinking water regulations, but only those that pertain to raw, untreated water intended as a drinking water source obtained from private individual wells in these developments.~~

~~Therefore, the following water quality parameters are all that have been determined to be required for sampling, and for the proper determination of sufficiency in terms of water quality:~~ The required chemical analysis shall test for the following contaminants, and the results must meet the following parameters, which may be updated from time to time by EPCPH without corresponding amendments to this Code being approved. Any such updates to the testing parameters approved by the EPCPH shall be the controlling requirements for testing. For subdivisions served by groundwater wells drawing only from a confined aquifer, ~~however,~~ the chemical analysis does not need to include ~~Exception,~~ the Volatile Organic Chemical Contaminants and, Synthetic Organic Chemical Contaminants. ~~are not required to be tested for when the proposed subdivision is proposed to be served by wells from a confined aquifer. (~~The EPCPH may require additional testing in some cases~~.~~ where blending of the water is proposed ~~to be blended~~, ~~ie:~~e.g., ~~alluvial verseus confined~~).

Volatile Organic Chemical Contaminants and MCL (mg/L):

| | | |
|---|---|---|
| 1. | Vinyl chloride | 0.002 |
| 2. | Benzene | 0.005 |
| 3. | Carbon tetrachloride | 0.005 |
| 4. | 1,2 Dichloroethane | 0.005 |
| 5. | Trichloroethylene | 0.005 |
| 6. | 1,4 Dichlorobenzene | 0.075 |
| 7. | 1,1 Dichloroethylene | 0.007 |
| 8. | 1,1,1 Trichloroethane | 0.2 |
| 9. | cis-1,2 Dichloroethylene | 0.07 |
| 10. | 1,2 Dichloropropane | 0.005 |
| 11. | Ethylbenzene | 0.7 |
| 12. | Monochlorobenzene | 0.1 |
| 13. | o-Dichlorobenzene | 0.6 |
| 14. | Styrene | 0.1 |
| 15. | Tetrachloroethylene | 0.005 |

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Inorganic Chemicals and MCL (mg/L):

1. Antimony 0.006
2. Arsenic 0.01
3. Barium 2.0
4. Beryllium 0.004
5. Cadmium 0.005
6. Chromium 0.1
7. Cyanide (Total*) 0.2
8. Fluoride 4.0
9. Mercury... 0.002
10. Nitrate 10.0 (as Nitrogen)
11. Nitrite 1.0 (as Nitrogen)
12. Total Nitrate and Nitrite 10.0 (as Nitrogen)
13. Selenium 0.05
14. Thallium 0.002

*If total cyanide is 0.2 mg/L, or greater then further analysis for free cyanide is required.

Secondary Maximum Contaminants :

1. Aluminum 0.05 to 0.2 mg/L
2. Chloride 250 mg/l
3. Corrosivity Non-corrosive
4. Iron 0.3 mg/L
5. Manganese 0.05 mg/L
6. pH 6.5-8.5
7. Silver 0.1 mg/L
8. Sulfate 250 mg/L
9. Total dissolved solids (TDS) 500 mg/L
10. Zinc 5.0 mg/L

Radionuclides:

1. Gross Alpha/Beta-Water
2. Combined radium-226 and radium-2281 5pCi/L

Bacteriological:

1. Total Coliform Absence

EMN

**(b) Contaminant Levels to Meet Drinking Water Requirements**

Maximum permissible contaminant levels shall meet the requirements of the Colorado Primary Drinking Water Regulations, as clarified by the ~~EPCDHE~~EPCPH~~.~~

**(c) Analysis of Major Ions**

Analyses of the major ions calcium, magnesium, potassium, sodium, bicarbonate/carbonate, chloride and sulfate may be required by the ~~EPCDHE~~EPCPH.

**(d) Collection Techniques**

Samples shall be collected by qualified personnel using standard collection and preservation methods and shall be analyzed within the limits of standard holding times. A chain of custody shall be maintained and documented from sampling to a laboratory analysis. Samples shall be analyzed by a Colorado certified testing laboratory.

**(e) Sampling Location and Expiration**

Samples from bedrock aquifers shall be collected within one-half (½) mile of the project site or off-site source. If the bedrock source will not be used during the first 5 years of the project and if wells are not available for sampling, the requirement for bedrock aquifer water quality analysis may be deferred as a condition of approval by the BoCC. Samples from shallow alluvial aquifers shall be collected within ~~500 feet~~1/2 mile ~~of~~ the project site or off-site source and ~~shall~~ should be collected from the closest up-gradient well. All samples shall be representative of the source. Where there is no well within one-half (½) ~~of a~~ mile, the determination of the location of the well shall be made by EPCPH~~HE~~. Water quality testing and analysis shall only be valid for two (2) years ~~of~~from the date of the report unless an extension to the expiration date is otherwise approved by the EPCPH ~~grants an extension~~. Analyses for the quality of water obtained from ~~C~~contained aquifers typically do not expire unless otherwise conditioned as such by EPC~~HE~~PH.

**(f) Water Quality Not Meeting Standards**

If the quality of the source water does not meet the standards specified in the Colorado Primary Drinking Water Regulations, as ~~clarified~~ specified by the ~~EPCDHE~~EPCPH, the applicant shall demonstrate that treatment facilities will be constructed and maintained which will bring the water within the standards.

~~**(g) Presumption of Water Quality**~~

~~In the absence of evidence to the contrary, a presumption is made that residential subdivisions of 4 or fewer lots will meet the water quality standards. In the absence of evidence to the contrary, it is presumed that water supplied from an existing~~

~~Community Water Supply, which operates in conformance with the Colorado Primary Drinking Water Regulations and the CDPHE requirements, as clarified by the EPCDHE, is determined to meet the water quality standards as required by the section~~. EMN

~~(h)~~(g) **Future Water Quality to Meet Standards**

Under foreseeable and likely future conditions, the quality of the proposed water supply ~~shall~~ should meet or exceed the water quality standards established herein. Both on-site and off-site source conditions shall be considered.

~~(i)~~(h) **Compliance Not to Diminish Other State and Federal Standards**

Compliance with this Section is not intended to modify, displace, supersede or diminish compliance with other State and federal water quality requirements.

**(C) General Requirements (Clarifications)**

**(1) Renewable Groundwater Life 300 Years**

Water provided from renewable groundwater sources is considered to be annually renewable and, therefore, is considered to have a minimum life of 300 years.

**(2) Recharge Not Used to Modify Bedrock Calculations**

Groundwater recharge may not be used to modify the calculations of the quantity of extractable groundwater in bedrock aquifers unless it is included in court decrees, well permits, approved augmentation plans or determinations by the Colorado Groundwater Commission and the State Engineer.

**(3) Alternative Supplies May be Considered Renewable**

Alternative water supplies such as treated effluent may be considered renewable or nonrenewable and shall be evaluated on a case-by-case basis.

**(4) Private Arrangements and Agreements**

Any private or public arrangements, agreements or contracts that modify, limit, or condition the use of any water rights or water supplies may result in a reduction of the water calculated to be available for subdivision use.

**(5) Nonrenewable Water from Off-Site**

When nonrenewable water is provided to a development from an off-site location, the calculation of water for purposes of this Section is at the point of delivery to the development or customer, rather than at the point of pumping of the well.