



August 16, 2023

PCD File No.: MS-21-000

Water Resources Report

Pair-A-Dise Subdivision Filing No. 1

The following describes the water supply to serve two (2) residential lots on 5.04± acres located within the southwest one-quarter of the Northeast one-quarter of Section 36, Township 11 South, Range 67 west of the 6th principal meridian in El Paso County, Colorado (Subject Property). This letter is based on an amended decree entered under Case No. 22CW0030, Water Division 2 (Decree/copy attached), which decreed the Denver groundwater underlying the Subject Property, and approves a plan for augmentation for use of up to two wells in the Denver aquifer to serve each lot for a 300 year water supply period. Two (2) wells are proposed following platting of the property into two lots.

AMOUNTS DECREED AND AVAILABLE

There are four aquifers identified in the decree entered in Case No. 22CW0030 that exist beneath the subject property. The decreed amounts of three of the aquifers are not nontributary (Dawson, Denver, Arapahoe), and the decreed amount of the other aquifer is nontributary (Laramie-Fox Hills). The referenced decree sets forth withdrawal amounts based on 300-year aquifer life which meets El Paso County requirements for demonstration of adequate water supply for a 300 year term. The following annual amounts are decreed and are based on annual withdrawals over a 300 year period (one acre-foot is 325,851 gallons).

Annual withdrawals of the yet to be constructed wells from the Denver aquifer (not-nontributary) shall not exceed 0.2285 acre-feet per well (74,456 gallons), nor more than a combined cumulative total of 137.1 acre-feet for 300th year. The State or Division Engineer shall curtail the pumping of more than those amounts from the Dawson aquifer.

WATER SUPPLY

The residential lots will be served by individual not nontributary Denver aquifer wells to be permitted and to operate pursuant to an augmentation plan as approved in the Decree. The Decree allows the two proposed Denver aquifer wells to withdraw a collective 0.457 acre-foot per year for 300 years (0.2285 acre-feet per year per lot). This plan allows for only single-family residential use and fire protection uses. Irrigation and animal watering is not covered under this plan. The 0.457 acre-foot per year will be for the following uses:

To be constructed Wells (Lots 1 & 2)

In-house use: 0.457 acre-feet per year (0.2285 acre-feet per year for each lot)

Total amount over 300 years = $300 \times 0.457 = 137.1$ acre-feet

Total decreed Denver aquifer water = 137.1 acre-feet

Engineers • Surveyors
1903 Lelaray Street, Suite 200 • Colorado Springs, CO 80909 • Phone 719-635-5736
Fax 719-635-5450 • e-mail mve@mvecivil.com

El Paso County specifies a minimum amount of 0.26 acre-feet per year per lot (232 gallons per day per lot) for household use which is adequate for a family of 4.6 persons per household (based on 50 gallons per day per person). The augmentation plan grants a 0.2285 acre-feet per year per lot (204 gallons per day per lot) for household use and is adequate for a family of 4.1 persons per household (based on 50 gallons per day per person). This difference of 28 gallons per day per lot is inconsequential and the granting of 0.2285 per year per lot for household use is adequate to serve both lots. The court issued water decree states 0.2 acre-feet ow water annually for in-house uses is a conservative estimate of water needs.

AUGMENTATION

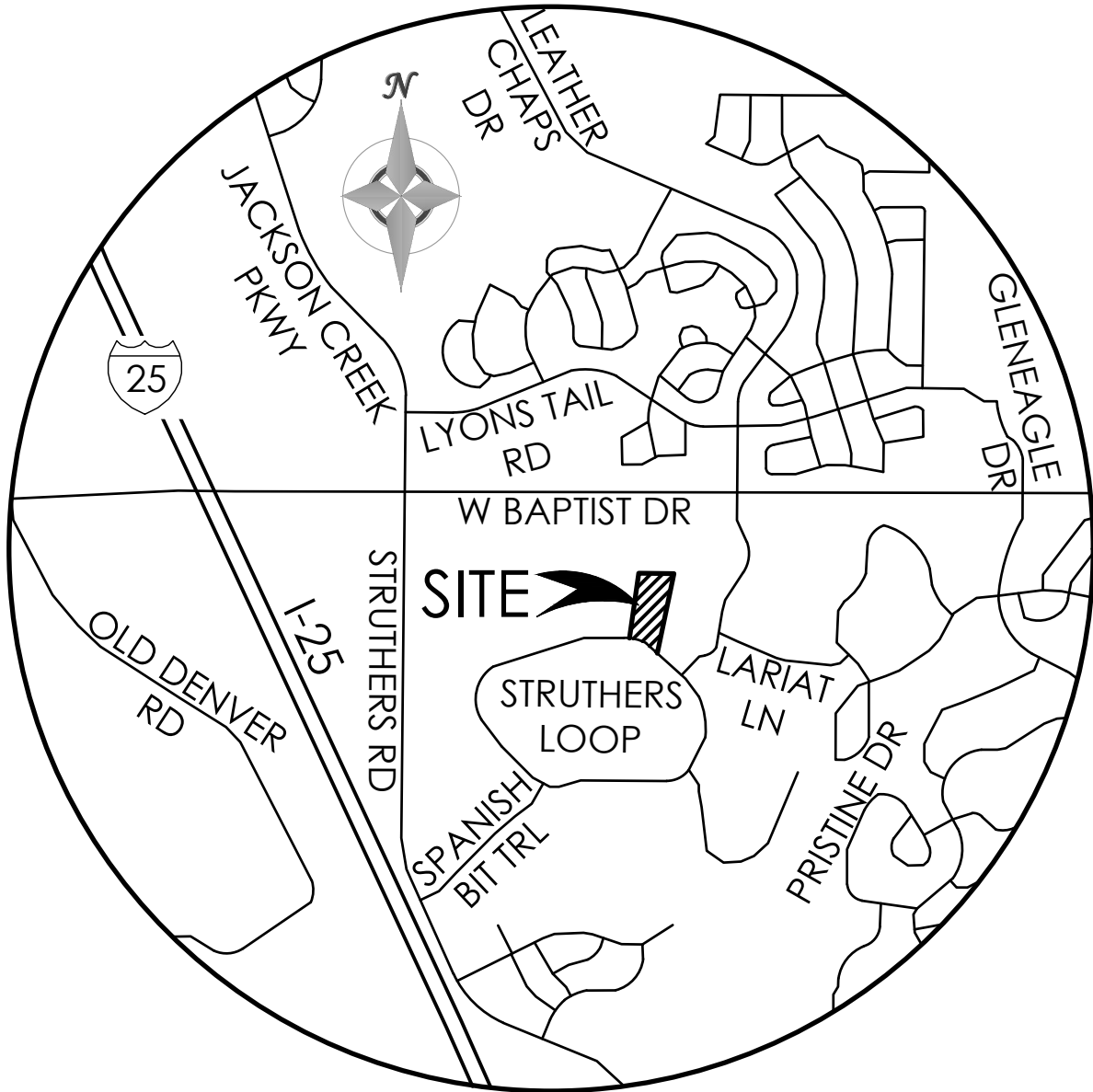
The Plan for Augmentation is established in the decree entered in Case No. 22CW0030, Water Division 2 (Decree/copy attached). Use of the proposed wells, and any additional or replacement wells drilled to the Denver Aquifer, requires replacement of actual stream depletion.

Depletion caused by pumping water from the Denver aquifer shall be replaced as provided and decreed. The augmentation obligation for the two proposed wells are septic return flows from indoor uses. Applicants shall also reserve 0.457 acre-feet per year of their nontributary Laramie-Fox Hills aquifer water (137.1 acre-feet total) for the replacement of post-pumping depletion. The Augmentation Plan provided by the referenced decree prescribes a pumping period of a minimum of 300 years, as required to meet El Paso County's 300 year water requirement for approval of subdivisions utilizing non-renewable water resources for their source of water supply. Covenants for this subdivision will reinforce the findings and responsibilities and requirements of referenced water court decree.

WATER QUALITY

M.V.E., inc. has examined water quality testing results for the existing Well (permit No. 163994) located on the property adjacent to the west side of the subject property. The water samples were drawn from the water well fixtures connected to the State of Colorado permitted well of the Denver Aquifer at 545 Struthers Loop. The samples were taken on 10/20/21. Testing for the required contaminants was performed by Colorado Analytical Laboratory and Hazen Research, Inc. The examined reports contain tests for each of the required contaminants in accordance with the El Paso County Land Development Code. The Denver Aquifer is a confined aquifer. M.V.E. Inc. compared the test results to the Maximum Contaminant Level (MCL) for each substance and found the results of all tests other than manganese to be within acceptable levels in accordance with El Paso County standards contained in the Land Development Code. The amount of manganese found exceeds the Secondary Maximum Contaminant Level (SMCL) set forth by the El Paso County standards contained in the Land Development Code. According to the Colorado Primary Drinking Water Regulations SMCLs primarily affect the aesthetic qualities relating to the public acceptance of drinking water. At considerably higher concentrations health implications may also exist, however the levels found are only slightly above the standard. The manganese can be removed with the use of a water softener or filtration system, though this is not required. Based on these findings we recommend that the El Paso County Health Department and El Paso County Attorney's office make a finding of sufficiency for water quality for the Pair-A-Dise Subdivision Filing No. 1 final plat.

| Attachments



VICINITY MAP

NOT TO SCALE

DISTRICT COURT, WATER DIVISION 2, COLORADO Pueblo County Judicial Building 501 North Elizabeth Street, Suite 116 Pueblo, CO 81003	DATE FILED: June 16, 2023 12:26 PM CASE NUMBER: 2022CW30 ▲ COURT USE ONLY ▲
APPLICATION FOR AMENDED PLAN FOR AUGMENTATION OF AARON and SARAH ATWOOD, Applicants, IN EL PASO COUNTY	Case Number: 2022CW0030 Change of Venue: Water Division 1 2022CW3115
FINDINGS OF FACT, CONCLUSIONS OF LAW, RULING OF THE REFEREE, AND JUDGMENT AND DECREE: APPROVING PLAN FOR AUGMENTATION	

A claim for a plan for augmentation was filed in this case on August 31, 2022. All matters contained in the application having been reviewed, such testimony having been taken and evidence presented as was necessary, and being otherwise fully advised in the premises, it is hereby the Findings of Fact, Conclusions of Law, Ruling of the Referee, and Judgment and Decree, as follows:

FINDINGS OF FACT

1. Name and Address of Applicants:

Aaron and Sarah Atwood
701 Airman Lane
Colorado Springs, CO 80921
2. Statements of Opposition: No statements of opposition were filed and the time for filing of such statements has expired.
3. Subject Matter Jurisdiction: Timely and adequate notice of the application was published as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over the parties affected hereby, whether they have appeared or not.
4. Consultation: The Water Referee consulted with the Division Engineer, as required by C.R.S. § 37-92-302(4), on the application, on December 21, 2022, and the Division Engineer filed its summary of consultation on December 21, 2022. Supplemental summaries of consultation were filed on March 7, 2023 and May 1, 2023.

GROUNDWATER RIGHTS

5. Subject Property: Applicants are the sole owners of the Subject Property and there are no liens on the property. Therefore notice to any mortgage and lien holders was not required under C.R.S. 37-92-302(2)(b).

6. Well Permits: There are no wells on the Subject Property. Well permits will be applied for prior to construction of wells.
7. Source of Water Rights: The Upper Dawson, Denver, and Arapahoe aquifers are not-nontributary as defined in C.R.S. § 37-90-103(10.7), and the Laramie-Fox Hills Aquifer is nontributary as defined in C.R.S. § 37-90-103(10.5).
8. Prior Decree Amounts: The groundwater underlying the 5.04 acres generally located in the NW1/4 NE1/4, Section 36, Township 11 South, Range 67 West of the 6th P.M., Lot 38, Chaparral Hills, also known as 515 Struthers Loop, Colorado Springs, CO, 80921, El Paso County, State of Colorado, as shown on **Exhibit A** (“Subject Property”), was decreed in Case No. 21CW3010, District Court Water Division 1, on September 22, 2021 (the “21CW3010 Decree”). The volumes below are based on a 300-year withdrawal period:

Aquifer	Annual Amount (acre-feet)	Total Amount (acre-feet)
Dawson (NNT)	0.337	101
Denver (NNT)	0.927	278.2
Arapahoe (NNT)	0	0
Laramie-Fox Hills (NT)	0.47	140

9. 21CW3010 Plan for Augmentation: The 21CW3010 Decree approved a plan for augmentation for the use of up to 1.4 acre-feet per year of not-nontributary Denver Aquifer groundwater for use in two single family residences, stock watering of large domestic animals, and irrigation of lawn, garden, pasture, hay, and trees on the Subject Property.
10. 21CW3010 Decreed Uses: Domestic, commercial, irrigation, stockwatering, fire protection, and augmentation purposes, including storage, both on and off the Subject Property.

AMENDED PLAN FOR AUGMENTATION

The amended plan for augmentation outlined below is intended to completely replace the plan for augmentation in the 21CW3010 Decree.

11. Amended Plan for Augmentation:
 - 11.1 Groundwater to be Augmented: 0.457 acre-feet per year for 300 years of Denver Aquifer groundwater.
 - 11.2 Water Rights to be Used for Augmentation: Return flows from the use of not-nontributary and nontributary groundwater and direct discharge of nontributary groundwater.
 - 11.3 The Denver Aquifer groundwater will be used in up to two (2) wells on the Subject Property, each well using 0.2285 acre-feet per year. Each well will be used in one (1) single-family residence (0.2285 acre-feet per residence, 0.457 acre-feet total) and for fire protection, on the Subject Property. This plan includes no outdoor irrigation or animal watering. Conservatively, water use in single-family dwellings will equal at least 0.2 acre-feet of water annually for in-house uses, and the use of non-evaporative septic

systems typically results in consumption of approximately 10% of such use, resulting in return flows of at least 0.18 acre-feet per year from each single-family residence, 0.36 acre-feet per year total from all residences at full build-out. Various components of this plan for augmentation are predicated on these estimations, and Applicants shall be required to use a non-evaporative septic system to treat and dispose of water used for in-house use.

- 11.4 Replacement During Pumping: During pumping of the Denver Aquifer groundwater, Applicants will replace actual depletions to the affected stream system pursuant to C.R.S. § 37-90-137(9)(c.5). In the 300th year, the total depletion is 27.418% of the amount withdrawn or 0.125 acre-feet total. Return flow from in-house use of the Denver Aquifer water in the two single-family residences is at least 0.36 acre-feet per year as described above and such return flow from use in each residence is sufficient to replace actual depletions for pumping of the entire 0.457 acre-feet per year for 300 years. Return flows accrue to the Arkansas River system via Monument Creek. Because return flows from all uses are estimated rather than measured, Applicants agree that such return flows shall be used only to replace depletions under this plan for augmentation and will not be sold, leased, traded, or assigned in whole or in part for any other purpose.
- 11.5 Post-pumping Depletion Augmentation: Assuming maximum pumping of 0.457 acre-feet per year for 300 years from the Denver Aquifer, the maximum total depletion to the affected stream systems is approximately 27.418% of the annual amount withdrawn or 0.125 acre-feet in the 300th year. Applicants will reserve 0.457 acre-feet per year, 137.10 acre-feet total, of the nontributary Laramie-Fox Hills Aquifer groundwater decreed herein for use in this plan, but reserve the right to substitute the use of other nontributary groundwater, including return flows, either underlying the Subject Property, or from another location which is legally available for such purpose, for replacement of post-pumping depletions at such time that post-pumping depletions may begin. The Court retains continuing jurisdiction in this matter to determine if the supply is adequate.
- 11.6 Applicants will begin making post pumping replacements when, (1) the absolute amount of water (137.10 acre-feet of Denver Aquifer groundwater) allowed to be withdrawn has been withdrawn from the well(s); or (2) the Applicants or successors in interest have acknowledged in writing that all withdrawals for beneficial use of the Denver Aquifer groundwater has permanently ceased; or (3) for a period of 10 consecutive years that no Denver Aquifer groundwater has been withdrawn. Until such time as the post pumping depletions begin the Applicants must continue to replace during pumping depletions to the stream using return flows, by pumping water directly to the stream to replace such depletions or using another replacement source approved by the Division Engineer. At the time that post pumping depletions begin as described in this paragraph, Applicants or successors in interest will be required to construct a well and pump groundwater to replace post-pumping depletions, subject to the terms and conditions of Paragraph 11.5. This condition constitutes a covenant running with the land.

12. Administration of Amended Plan for Augmentation:

- 12.1 Applicants shall report to the Division Engineer for Water Division 2 upon request, a summary of the amount of water pumped by each Denver Basin well, the annual depletion, the amount of replacement water provided by each replacement source, the net impact on the stream and any other information required by the Division Engineer to

properly administer the decree on an accounting form acceptable to the Division Engineer.

- 12.2 All withdrawals which are the subject of this decree will be metered.
- 12.3 Pursuant to C.R.S. § 37-92-305(8), the State Engineer shall curtail all out-of-priority diversions, the depletions from which are not so replaced as to prevent injury to vested water rights.
- 12.4 The Applicants, or successors in interest, at the direction of the Division Engineer shall make post-pumping replacements to the Arkansas stream system via Monument Creek, or its tributaries, pursuant to the amounts referenced on the depletion curve attached on **Exhibit B**.
- 12.5 No other provisions of the 21CW3010 Decree are changed by this decree.

CONCLUSIONS OF LAW

13. Full and adequate notice of the application was given, and the Court has jurisdiction over the subject matter and over the parties whether they have appeared or not.
14. Applicants have complied with all requirements and met all standards and burdens of proof, including but not limited to C.R.S. §§ 37-90-137(9)(c.5), 37-92-103(9), 37-92-302, 37-92-304(6), 37-92-305(3), (4), (6), (8), to adjudicate the plan for augmentation and are entitled to a decree confirming and approving the plan for augmentation as described in the Findings of Fact.
15. The Water Court has jurisdiction over this proceeding pursuant to C.R.S. § 37-90-137(6). This Court concludes as a matter of law that the application herein is one contemplated by law. C.R.S. § 37-90-137(4). The application for a decree confirming Applicants' right to withdraw and use all unappropriated groundwater from the nontributary aquifer beneath the Subject Property as described herein pursuant to C.R.S. § 37-90-137(4), should be granted, subject to the provisions of this decree. The application for a decree confirming Applicants' right to withdraw and use groundwater decreed herein from the Denver Aquifer should be granted pursuant to C.R.S. §§ 37-90-137(4) and (9)(c.5), subject to the provisions of this decree. The withdrawal of up to 0.457 acre-feet per year and 137.10 acre-feet total of the Denver Aquifer groundwater, and in accordance with the terms of this decree, and the 21CW3101 Decree, will not injuriously affect the owner of or persons entitled to use water under a vested water right or a decreed conditional water right. The remaining amount of Denver Aquifer groundwater decreed herein will not be withdrawn and used until it is included in a separate plan for augmentation.

JUDGMENT AND DECREE

16. The Findings of Fact and Conclusions of Law set forth above are hereby incorporated into the terms of this Ruling and Decree as if the same were fully set forth herein.
17. Applicants and/or successors may withdraw the subject groundwater herein through wells to be permitted by the State Engineer's Office located anywhere on the Subject Property in the average annual amounts and the estimated rates of flow specified herein, subject to the limitations herein and the retained jurisdiction by this Court.

18. The groundwater rights described in the Findings of Fact are hereby approved, confirmed and adjudicated, including and subject to the terms and conditions specified herein. No owners of or persons entitled to use water under a vested water right or decreed conditional water right will be injured or injuriously affected by the pumping of Applicants' groundwater resources as decreed herein.
19. Pursuant to C.R.S. § 37-92-305(5), the replacement water herein shall be of a quality so as to meet the requirements for which the water of the senior appropriator has normally used.
20. The amended plan for augmentation as described in the Findings of Fact is hereby approved, confirmed, and adjudicated, including and subject to the terms and conditions specified herein.
21. No owners of or person entitled to use water under a vested water right or decreed conditional water right will be injured or injuriously affected by the operation of the plan for augmentation as decreed herein.
22. Retained Jurisdiction:
 - 22.1 The Court retains jurisdiction as necessary to adjust the average annual amounts of groundwater available under the Subject Property to conform to actual local aquifer characteristics as determined from adequate information obtained from wells, pursuant to C.R.S. § 37-92-305(11). Within 60 days after completion of any well decreed herein or any test hole(s), Applicants or any successor in interest to these water rights shall serve copies of such log(s) upon the State Engineer.
 - 22.2 At such time as adequate data is available, any person, including the State Engineer, may invoke the Court's retained jurisdiction to make a Final Determination of Water Right. Within four months of notice that the retained jurisdiction for such purpose has been invoked, the State Engineer shall use the information available to him to make a final determination of water rights findings. The State Engineer shall submit such finding to the Water Court and the Applicants.
 - 22.3 If no protest to such finding is made within 60 days, the Final Determination of Water Rights shall be incorporated into the decree by the Water Court. In the event of a protest, or in the event the State Engineer makes no determination within four months, such final determination shall be made by the Water Court after notice and hearing.
 - 22.4 Except as otherwise provided in Paragraphs 22.1-22.3, above, pursuant to C.R.S. § 37-92-304(6), the plan for augmentation decreed herein shall be subject to the reconsideration of this Court on the question of material injury to vested water rights of others, for a period of ten (10) years, which will begin after both wells identified in Paragraph 11 have been constructed. Any person, within such period, may petition the Court to invoke its retained jurisdiction. Any person seeking to invoke the Court's retained jurisdiction shall file a verified petition with the Court setting forth with particularity the factual basis for requesting that the Court reconsider injury to petitioner's vested water rights associated with the operation of this decree, together with proposed decretal language to effect the petition. The party filing the petition shall have the burden of proof of going forward to establish a prima facie case based on the facts alleged in the petition. If the Court finds those facts are established, Applicants shall thereupon have the burden of proof to show: (i) that the petitioner is not injured, or (ii) that any modification

sought by the petitioner is not required to avoid injury to the petitioner, or (iii) that any term or condition proposed by Applicants in response to the petition does avoid injury to the petitioner. The Division of Water Resources as a petitioner shall be entitled to assert injury to the vested water rights of others. If no such petition is filed within such period and the retained jurisdiction period is not extended by the Court in accordance with the provisions of the statute, this matter shall become final under its own terms.

23. Continuing Jurisdiction: Pursuant to C.R.S. § 37-92-304(6), the Court retains continuing jurisdiction over the plan for augmentation decreed herein for reconsideration by the water judge on the question of injury to the vested rights of others for such period after the entry of such decision as is necessary or desirable to preclude or remedy any such injury.
24. The groundwater rights decreed herein are vested property rights appurtenant to the Subject Property and shall remain appurtenant unless expressly severed by conveyance to someone other than the property owner. If any deed for the Subject Property is silent to the conveyance of the water rights decreed herein, it is assumed that the water rights have been conveyed as an appurtenance to the Subject Property, unless all or part of the water rights have been previously severed.

Dated: May 24, 2023.



Kate Brewer
Water Referee
Water Division Two

DECREE

The Court finds that no protest was filed in this matter. The foregoing ruling is confirmed and is made the judgment and decree of this Court.

Dated: June 16, 2023

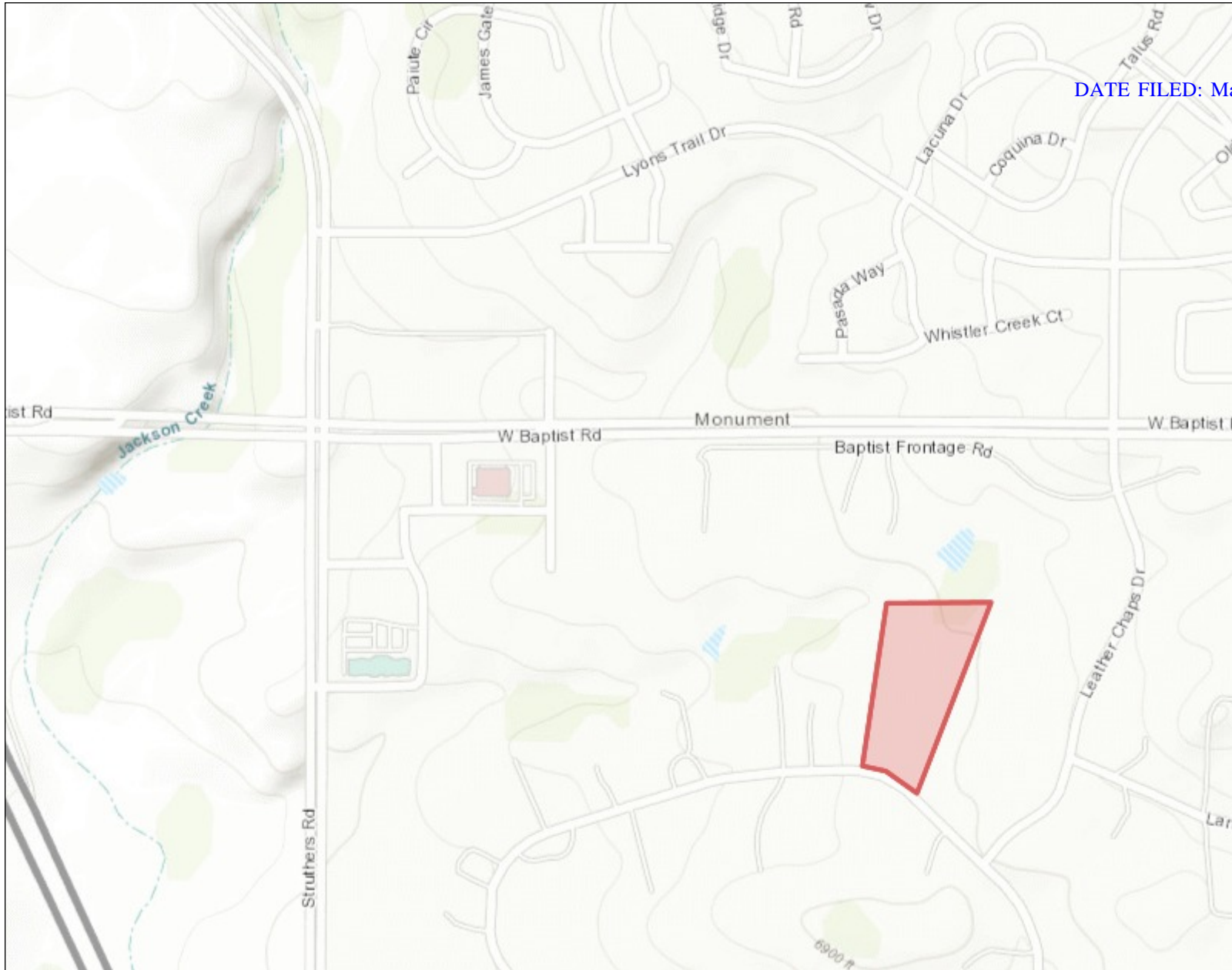
BY THE COURT:



Gregory J. Styduhar, Water Judge
Water Division 2, State of Colorado



Exhibit A - Subject Property



DATE FILED: May 16, 2023 11:50 AM

Legend

Location



Notes

Atwood, Aaron
NW1/4 NE1/4, Section 36, Township 11
South, Range 67 West of the 6th P.M.

1,169 0 585 1,169 Feet

1: 7,016

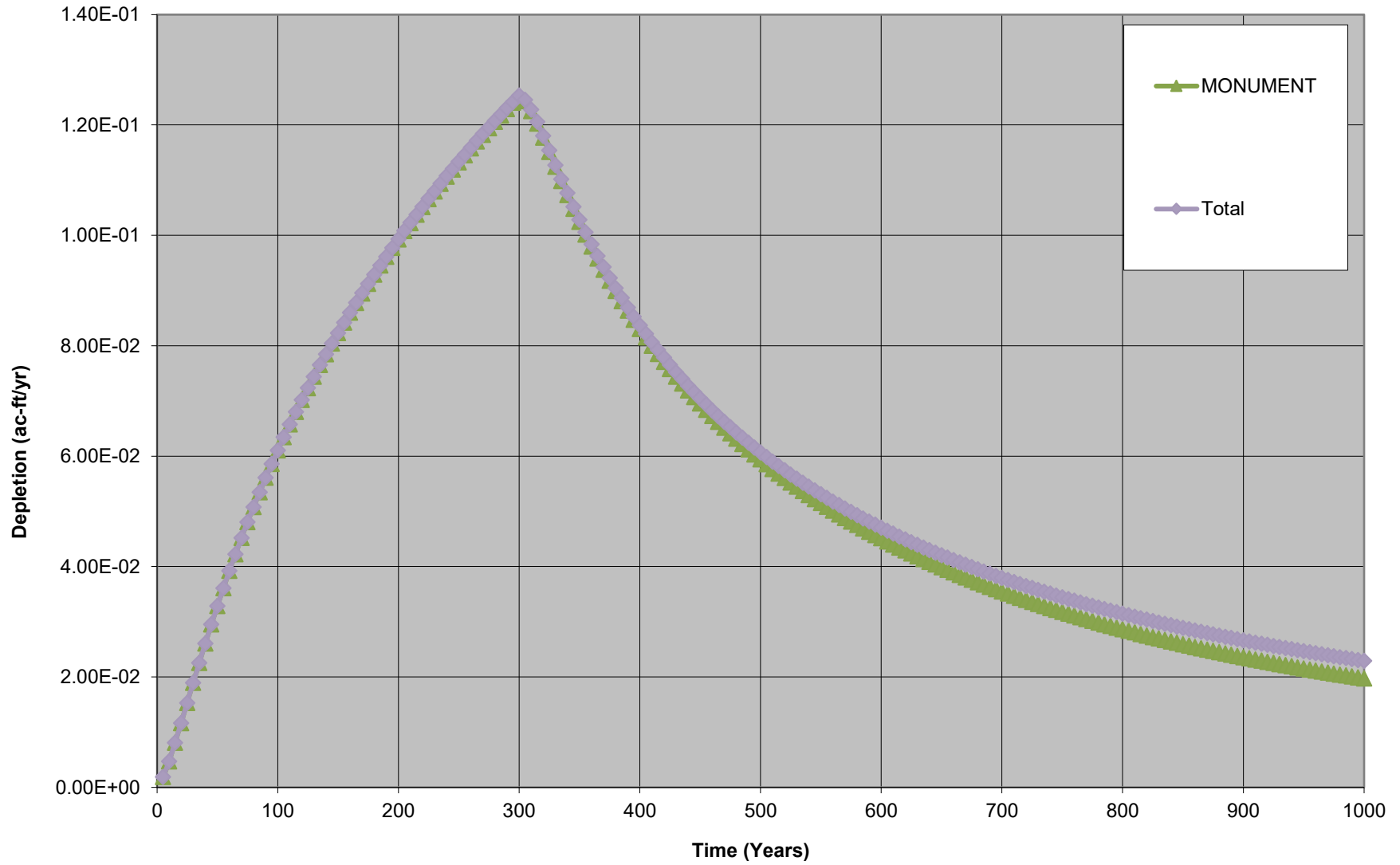


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Date Prepared: 2/17/2021 2:39:09 PM

Exhibit B - 22CW0030 - Stream Depletion from Pumping in SEC 36 T14S R67W

DATE FILED: 11/16, 2023 11:50 AM





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

Lab Control ID: 21M03293

Received: Oct 29, 2021

Reported: Nov 08, 2021

Purchase Order No.

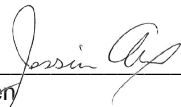
None Received

Customer ID: 04796Z
Account ID: Z00000

Aaron Atwood
701 Airman Lane
Colorado Springs, CO 80921

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: 
Jessica Axen
Analytical Laboratories Director



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

Lab Control ID: 21M03293
 Received: Oct 29, 2021
 Reported: Nov 08, 2021
 Purchase Order No.
 None Received

Customer ID: 04796Z
 Account ID: Z00000

ANALYTICAL REPORT

Aaron Atwood

Lab Sample ID			21M03293-001					
Customer Sample ID			515 Struthers Loop sampled on 10/29/21 @ 0830 by Aaron Atwood					
Parameter	Units	Code	Result	Precision* +/-	Detection Limit	Method	Analysis Date / Time	Analyst
Gross Alpha	pCi/L	T	5.4	3.3	0.1	SM 7110 B	11/4/21 @ 0940	RG
Gross Beta	pCi/L	T	<4.4	3.1	4.4	SM 7110 B	11/4/21 @ 0940	RG
Radium-226	pCi/L	T	0.3	0.2	0.2	SM 7500-Ra B	11/3/21 @ 0951	KT
Radium-228	pCi/L	T	1.7	1.0	0.3	EPA Ra-05	11/2/21 @ 0747	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

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*

$$\text{Calculation: } \frac{(50.4) (1.000) - (0.0) (0.200)}{57.4} \times 100 = 88\%$$

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:

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

Reruns Required: _____

Narrative: The duplicate in the batch was over calibration range and could not be counted. Data quality is not adversely affected and therefore the data is being reported.

**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:

21M03321 _____
21M03327 _____
21M03328 _____
21M03293 _____

Evaluator:
 _____

Date: 11/08/2021

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*

$$\text{Calculation: } \frac{(39.0) (1.000) - (0.0) (0.200)}{44} \times 100 = 89\%$$

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: The duplicate in the batch was over calibration range and could not be counted. Data quality is not adversely affected and therefore the data is being reported.

**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:

21M03321 _____
 21M03327 _____
 21M03328 _____
 21M03293 _____

Evaluator:
 _____

Date: 11/08/2021

Batch QC Summary Form

Analyte: Radium-226

Control Standard/LFB: ID: NBL-6A pCi/mL: 23 (use 2 diluted)

Spike Solution: ID: NBL-6A pCi/mL: 23 (use 2 mL)

Spike Recovery Calculation: Sample: 21M03222-01d

$$\text{Calculation: } \frac{(50.9) (1.000) - (5.2) (1.000)}{46} \times 100 = 99\%$$

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:

<u>21M03222</u>	_____
<u>21M03223</u>	_____
<u>21M03293</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Evaluator:

Rosanne Sullivan _____

11/05/2021

Date

Batch QC Summary Form

Analyte: Radium-228

Control Standard/LFB: ID: NBL 7A pCi/mL: 13.5 (use 10 diluted)

Spike Solution: ID: NBL 7A pCi/mL: 13.5 (use 10 mL)

Spike Recovery Calculation: Sample: 21M02393-1e

$$\text{Calculation: } \frac{(153.5) (1.000) - (8.0) (1.000)}{135} \times 100 = 108\%$$

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:

<u>21M02393</u>	_____
<u>21M03155</u>	_____
<u>21M03164</u>	_____
<u>21M03293</u>	_____
<u>21M03204</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Evaluator:
 _____

_____ 11/08/2021
 Date



HAZEN RESEARCH, INC.
 4601 INDIANA STREET
 GOLDEN, CO 80403
 Phone - (303) 279 4501 Fax - (303) 278 1528

CHAIN OF CUSTODY RECORD, P. 1

21M03293

Customer Information		Billing Information (If different)	
Client Name:	Aaron Atwood	Billing Name:	
Contact:		Billing Contact:	
Address:	701 Airman Ln. Co. Spg. Co 80921	Billing Address:	
Phone:	719-238-8800	PO #:	
e-mail:	aaronatwood@gmail.com	e-mail:	

Report Delivery: Email Only EMAIL and USPS (Additional \$2.00 per report)

Sample Return (If not selected below, sample will be shipped back at client expense and added to the invoice. Not applicable to RadChem Waters)
 Non-hazardous sample disposal (\$3.00/sample) X Sample returned to client (UPS cost + overhead fee)

Sampler's Name(s) (Print) Aaron Atwood (Signature)

PWSID:	System Name	Entry Point:						Send Results to CDPHE:	Y	N
		Facility ID:								
Sample Identification	Sample Date and Time	Grab	Composite	Samp Type(1)	No. of Containers	Cont. Type(2)	Preservative(3)	Analyses Required		
515 Struthers Loop	08:30 10/29/21							Gross Alpha Beta, Radium-226/228		

(1) DW=Drinking Water WW=Wastewater SW=Surface Water SO=Soil GW=Ground Water SL=Sludge HZ=Hazardous O=Other
 (2) P=Plastic G=Glass O=Other
 (3) N=Nitric Acid U=Unpreserved C=Cooled S=Sulfuric Acid B=Sodium Hydroxide T=Sodium Thiosulfate Z=Zinc Acetate O=Other

By submitting samples for analysis, client agrees that services shall be governed by Hazen's analytical terms and conditions; Hazen's terms and conditions supersede other terms and conditions (see page 2).

Relinquished by	Date/ Time 10-29-21 9:40 AM	Received by	Date/ Time 10/29/21 9:40
Relinquished by	Date/ Time / /	Received by	Date/ Time / /
Shipped by	Date/ Time / /	Received for Lab by	Date/ Time / /

Method of Shipment Requested Turnaround Time
 Standard Rush (Must be approved, additional charges apply)

Lab use only
 Rec'd Preserved: Y N Date/Time: ~~10/29/21 09:53~~ ^{10/29/21} 09:53
 Pres: 10/29/21 09:55 RG

Analytical Results

TASK NO: 211021012

Report To: DeEtte Seiler
Company: Seiler Construction
14618 Air Garden Ln
Colorado Springs CO 80921

Bill To: DeEtte Seiler
Company: Seiler Construction
14618 Air Garden Ln
Colorado Springs CO 80921

Task No.: 211021012	Date Received: 10/21/21
Client PO:	Date Reported: 11/3/21
Client Project:	Matrix: Water - Drinking

Lab Number	Customer Sample ID	Sample Date/Time	Test	Result	Method	Date Analyzed
211021012-01C	545 Struthers Loop	10/20/21 6:00 PM	Total Coliform	Absent	SM 9223	10/22/21
			E-Coli	Absent	SM 9223	10/22/21

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

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14618 Air Garden Ln
Colorado Springs CO 80921

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Company: Seiler Construction
14618 Air Garden Ln
Colorado Springs CO 80921

Task No.: 211021012
Client PO:
Client Project:

Date Received: 10/21/21
Date Reported: 11/3/21
Matrix: Water - Drinking

Customer Sample ID 545 Struthers Loop
Sample Date/Time: 10/20/21 6:00 PM
Lab Number: 211021012-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	70.5 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	10/25/21	QC52939	TAB
Calcium as CaCO3	130.8 mg/L	EPA 200.7	0.1 mg/L	10/26/21	-	MBN
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	10/25/21	QC52939	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	10/25/21	QC52939	TAB
Langelier Index	-1.47 units	SM 2330-B	units	11/2/21	-	SAN
pH	6.41 units	SM 4500-H-B	0.01 units	10/22/21	-	HNB
Temperature	20 °C	SM 4500-H-B	1 °C	10/22/21	-	HNB
Total Alkalinity	70.5 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	10/25/21	QC52939	TAB
Total Dissolved Solids	279 mg/L	SM 2540-C	5 mg/L	10/27/21	QC52969	ISG

Abbreviations/ References:

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mg/L = Milligrams Per Liter or PPM
ug/L = Micrograms Per Liter or PPB
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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: 211021012

Report To: DeEtte Seiler
Company: Seiler Construction

Receive Date: 10/21/21
Project Name:

Test	QC Batch ID	QC Type	Result	Method		
Total Alkalinity	QC52939	Blank	ND	SM 2320-B		
Total Dissolved Solids	QC52969	Blank	ND	SM 2540-C		

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Total Alkalinity	QC52939	Duplicate	0 - 20	-	0.7	SM 2320-B
		LCS	90 - 110	101.0	-	
Total Dissolved Solids	QC52969	Duplicate	0 - 20	-	5.4	SM 2540-C
		LCS	85 - 115	97.2	-	

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.



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Colorado Springs CO 80921

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Company: Seiler Construction
14618 Air Garden Ln
Colorado Springs CO 80921

Task No.: 211021012
Client PO:
Client Project:

Date Received: 10/21/21

Date Reported: 11/3/21

Matrix: Water - Drinking

Customer Sample ID 545 Struthers Loop
Sample Date/Time: 10/20/21 6:00 PM
Lab Number: 211021012-01

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
Nitrate/ Nitrite Nitrogen	ND	Calculation	0.05 mg/L		10/26/21	-	AMJ
Chloride	14.9 mg/L	EPA 300.0	0.1 mg/L		10/22/21	QC52946	AMJ
Fluoride	0.24 mg/L	EPA 300.0	0.10 mg/L	4	10/22/21	QC52947	AMJ
Nitrate Nitrogen	ND	EPA 300.0	0.05 mg/L	10	10/22/21	QC52948	AMJ
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	1	10/22/21	QC52949	AMJ
Sulfate	112.8 mg/L	EPA 300.0	0.1 mg/L		10/22/21	QC52950	AMJ
Cyanide-Total	ND	EPA 335.4	0.005 mg/L	0.02	11/1/21	QC53070	ECM
Dibromochloropropane	ND	EPA 504.1	0.02 ug/L	0.2	10/27/21	QC52930	SPF
Ethylene dibromide	ND	EPA 504.1	0.01 ug/L	0.05	10/27/21	QC52930	SPF
Aldrin	ND	EPA 505	0.05 ug/L		10/26/21	QC52931	SPF
Chlordane	ND	EPA 505	0.2 ug/L	2	10/26/21	QC52931	SPF
Dieldrin	ND	EPA 505	0.05 ug/L		10/26/21	QC52931	SPF
Endrin	ND	EPA 505	0.01 ug/L	2	10/26/21	QC52931	SPF
Heptachlor epoxide	ND	EPA 505	0.02 ug/L	0.2	10/26/21	QC52931	SPF
Hexachlorobenzene	ND	EPA 505	0.1 ug/L	1	10/26/21	QC52931	SPF
Hexachlorocyclopentadiene	ND	EPA 505	0.1 ug/L	50	10/26/21	QC52931	SPF
Lindane	ND	EPA 505	0.02 ug/L	0.2	10/26/21	QC52931	SPF
Methoxychlor	ND	EPA 505	0.1 ug/L	40	10/26/21	QC52931	SPF
Polychlorinated biphenyl's	ND	EPA 505	0.1 ug/L	0.5	10/26/21	QC52931	SPF
Toxaphene	ND	EPA 505	1 ug/L	3	10/26/21	QC52931	SPF

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Colorado Springs CO 80921

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14618 Air Garden Ln
Colorado Springs CO 80921

Task No.: 211021012
Client PO:
Client Project:

Date Received: 10/21/21
Date Reported: 11/3/21
Matrix: Water - Drinking

Customer Sample ID 545 Struthers Loop
Sample Date/Time: 10/20/21 6:00 PM
Lab Number: 211021012-01

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
2,4,5-TP	ND	EPA 515.4	0.2 ug/L	50	11/2/21	QC52914	JKM
2,4,-D	ND	EPA 515.4	0.1 ug/L	70	11/2/21	QC52914	JKM
Dalapon	ND	EPA 515.4	1.0 ug/L	200	11/2/21	QC52914	JKM
Dicamba	ND	EPA 515.4	0.5 ug/L		11/2/21	QC52914	JKM
Dinoseb	ND	EPA 515.4	0.2 ug/L	7	11/2/21	QC52914	JKM
Pentachlorophenol	ND	EPA 515.4	0.04 ug/L	1	11/2/21	QC52914	JKM
Picloram	ND	EPA 515.4	0.1 ug/L	500	11/2/21	QC52914	JKM
Alachlor	ND	EPA 525.2	0.2 ug/L	2	10/29/21	QC52974	MBS
Atrazine	ND	EPA 525.2	0.1 ug/L	3	10/29/21	QC52974	MBS
Benzo(a)pyrene	ND	EPA 525.2	0.02 ug/L	0.2	10/29/21	QC52974	MBS
Butachlor	ND	EPA 525.2	0.25 ug/L		10/29/21	QC52974	MBS
Di(2-ethylhexyl)adipate	ND	EPA 525.2	0.6 ug/L	400	10/29/21	QC52974	MBS
Di(2-ethylhexyl)phthalate	ND	EPA 525.2	0.6 ug/L	6	10/29/21	QC52974	MBS
Heptachlor	ND	EPA 525.2	0.04 ug/L	0.4	10/29/21	QC52974	MBS
Metolachlor	ND	EPA 525.2	0.25 ug/L		10/29/21	QC52974	MBS
Metribuzin	ND	EPA 525.2	0.25 ug/L		10/29/21	QC52974	MBS
Propachlor	ND	EPA 525.2	0.25 ug/L		10/29/21	QC52974	MBS
Simazine	ND	EPA 525.2	0.07 ug/L	4	10/29/21	QC52974	MBS
3-Hydroxycarbofuran	ND	EPA 531.1	0.5 ug/L		10/26/21	QC52915	SPF
Aldicarb	ND	EPA 531.1	0.6 ug/L		10/26/21	QC52915	SPF
Aldicarb sulfone	ND	EPA 531.1	1.0 ug/L		10/26/21	QC52915	SPF
Aldicarb sulfoxide	ND	EPA 531.1	0.7 ug/L		10/26/21	QC52915	SPF

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Colorado Springs CO 80921

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Company: Seiler Construction
14618 Air Garden Ln
Colorado Springs CO 80921

Task No.: 211021012
Client PO:
Client Project:

Date Received: 10/21/21
Date Reported: 11/3/21
Matrix: Water - Drinking

Customer Sample ID 545 Struthers Loop
Sample Date/Time: 10/20/21 6:00 PM
Lab Number: 211021012-01

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
Carbaryl	ND	EPA 531.1	0.5 ug/L		10/26/21	QC52915	SPF
Carbofuran	ND	EPA 531.1	0.9 ug/L	40	10/26/21	QC52915	SPF
Methomyl	ND	EPA 531.1	0.5 ug/L		10/26/21	QC52915	SPF
Oxamyl	ND	EPA 531.1	1.0 ug/L	200	10/26/21	QC52915	SPF
Endothall	ND	EPA 548.1	9 ug/L	100	10/28/21	QC52917	MBS
Diquat	ND	EPA 549.2	0.4 ug/L	20	10/25/21	QC52894	SPF
1,1,1,2-Tetrachloroethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
1,1,1-Trichloroethane	ND	EPA-524.2	0.5 ug/L	200	10/22/21	QC52900	SPF
1,1,2,2-Tetrachloroethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
1,1,2-Trichloroethane	ND	EPA-524.2	0.5 ug/L	5	10/22/21	QC52900	SPF
1,1-Dichloroethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
1,1-Dichloroethylene	ND	EPA-524.2	0.5 ug/L	7	10/22/21	QC52900	SPF
1,1-Dichloropropene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
1,2,3-Trichlorobenzene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
1,2,3-Trichloropropane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
1,2,4-Trichlorobenzene	ND	EPA-524.2	0.5 ug/L	70	10/22/21	QC52900	SPF
1,2,4-Trimethylbenzene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
1,2-Dichloroethane	ND	EPA-524.2	0.5 ug/L	5	10/22/21	QC52900	SPF
1,2-Dichloropropane	ND	EPA-524.2	0.5 ug/L	5	10/22/21	QC52900	SPF
1,3,5-Trimethylbenzene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
1,3-Dichloropropane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
1,3-Dichloropropene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF

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Task No.: 211021012
Client PO:
Client Project:

Date Received: 10/21/21
Date Reported: 11/3/21
Matrix: Water - Drinking

Customer Sample ID 545 Struthers Loop
Sample Date/Time: 10/20/21 6:00 PM
Lab Number: 211021012-01

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
Benzene	ND	EPA-524.2	0.5 ug/L	5	10/22/21	QC52900	SPF
Bromobenzene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Bromochloromethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Bromodichloromethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Bromoform	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Bromomethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Carbon Tetrachloride	ND	EPA-524.2	0.5 ug/L	5	10/22/21	QC52900	SPF
Chlorodibromomethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Chloroethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Chloroform	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Chloromethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
cis-1,2-Dichloroethylene	ND	EPA-524.2	0.5 ug/L	70	10/22/21	QC52900	SPF
Dibromomethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Dichlorodifluoromethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Dichloromethane	ND	EPA-524.2	0.5 ug/L	5	10/22/21	QC52900	SPF
Ethylbenzene	ND	EPA-524.2	0.5 ug/L	700	10/22/21	QC52900	SPF
Fluorotrichloromethane	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Hexachlorobutadiene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Isopropylbenzene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
m-Dichlorobenzene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Monochlorobenzene	ND	EPA-524.2	0.5 ug/L	100	10/22/21	QC52900	SPF
Naphthalene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
n-Butylbenzene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF

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Task No.: 211021012
Client PO:
Client Project:

Date Received: 10/21/21
Date Reported: 11/3/21
Matrix: Water - Drinking

Customer Sample ID 545 Struthers Loop
Sample Date/Time: 10/20/21 6:00 PM
Lab Number: 211021012-01

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
n-Propylbenzene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
o-Chlorotoluene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
o-Dichlorobenzene	ND	EPA-524.2	0.5 ug/L	600	10/22/21	QC52900	SPF
Para-Dichlorobenzene	ND	EPA-524.2	0.5 ug/L	75	10/22/21	QC52900	SPF
p-Chlorotoluene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
p-Isopropyltoluene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
sec-Butylbenzene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Styrene	ND	EPA-524.2	0.5 ug/L	100	10/22/21	QC52900	SPF
tert-Butylbenzene	ND	EPA-524.2	0.5 ug/L		10/22/21	QC52900	SPF
Tetrachloroethylene	ND	EPA-524.2	0.5 ug/L	5	10/22/21	QC52900	SPF
Toluene	ND	EPA-524.2	0.5 ug/L	1000	10/22/21	QC52900	SPF
Total Trihalomethanes	ND	EPA-524.2	0.5 ug/L	80	10/22/21	QC52900	SPF
trans-1,2-Dichloroethylene	ND	EPA-524.2	0.5 ug/L	100	10/22/21	QC52900	SPF
Trichloroethylene	ND	EPA-524.2	0.5 ug/L	5	10/22/21	QC52900	SPF
Vinyl chloride	ND	EPA-524.2	0.5 ug/L	2	10/22/21	QC52900	SPF
Xylenes (total)	ND	EPA-524.2	0.5 ug/L	10000	10/22/21	QC52900	SPF
Total							
Aluminum	ND	EPA 200.8	0.001 mg/L	0.05	10/26/21	QC52954	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	0.006	10/26/21	QC52954	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	0.01	10/26/21	QC52954	MBN
Barium	0.0265 mg/L	EPA 200.8	0.0007 mg/L	2	10/26/21	QC52954	MBN
Beryllium	0.0002 mg/L	EPA 200.8	0.0001 mg/L	0.004	10/26/21	QC52954	MBN

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Task No.: 211021012	Date Received: 10/21/21
Client PO:	Date Reported: 11/3/21
Client Project:	Matrix: Water - Drinking

Customer Sample ID 545 Struthers Loop
Sample Date/Time: 10/20/21 6:00 PM
Lab Number: 211021012-01

Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
<i>Total</i>							
Cadmium	ND	EPA 200.8	0.0001 mg/L	0.005	10/26/21	QC52954	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	0.1	10/26/21	QC52954	MBN
Manganese	0.5256 mg/L	EPA 200.8	0.0008 mg/L	0.05	10/26/21	QC52954	MBN
Mercury	ND	EPA 200.8	0.0001 mg/L	0.002	10/26/21	QC52954	MBN
Selenium	ND	EPA 200.8	0.0008 mg/L	0.05	10/26/21	QC52954	MBN
Silver	ND	EPA 200.8	0.0005 mg/L		10/26/21	QC52954	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	0.002	10/26/21	QC52954	MBN
Zinc	0.019 mg/L	EPA 200.8	0.001 mg/L	5	10/26/21	QC52954	MBN

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Report To: DeEtte Seiler
Company: Seiler Construction

Receive Date: 10/21/21
Project Name:

Test	QC Batch ID	QC Type	Result	Method
Dibromochloropropane	QC52930	Method Blank	ND	EPA 504.1
Ethylene dibromide	QC52930	Method Blank	ND	EPA 504.1
Aldrin	QC52931	Method Blank	ND	EPA 505
Chlordane	QC52931	Method Blank	ND	EPA 505
Dieldrin	QC52931	Method Blank	ND	EPA 505
Endrin	QC52931	Method Blank	ND	EPA 505
Heptachlor epoxide	QC52931	Method Blank	ND	EPA 505
Hexachlorobenzene	QC52931	Method Blank	ND	EPA 505
Hexachlorocyclopentadiene	QC52931	Method Blank	ND	EPA 505
Lindane	QC52931	Method Blank	ND	EPA 505
Methoxychlor	QC52931	Method Blank	ND	EPA 505
Polychlorinated biphenyl's	QC52931	Method Blank	ND	EPA 505
Toxaphene	QC52931	Method Blank	ND	EPA 505
2,4,5-TP	QC52914	Method Blank	ND	EPA 515.4
2,4,-D	QC52914	Method Blank	ND	EPA 515.4
Dalapon	QC52914	Method Blank	ND	EPA 515.4
Dicamba	QC52914	Method Blank	ND	EPA 515.4
Dinoseb	QC52914	Method Blank	ND	EPA 515.4
Pentachlorophenol	QC52914	Method Blank	ND	EPA 515.4
Picloram	QC52914	Method Blank	ND	EPA 515.4
1,1,1,2-Tetrachloroethane	QC52900	Method Blank	ND	EPA-524.2
1,1,1-Trichloroethane	QC52900	Method Blank	ND	EPA-524.2
1,1,2,2-Tetrachloroethane	QC52900	Method Blank	ND	EPA-524.2
1,1,2-Trichloroethane	QC52900	Method Blank	ND	EPA-524.2
1,1-Dichloroethane	QC52900	Method Blank	ND	EPA-524.2
1,1-Dichloroethylene	QC52900	Method Blank	ND	EPA-524.2
1,1-Dichloropropene	QC52900	Method Blank	ND	EPA-524.2
1,2,3-Trichlorobenzene	QC52900	Method Blank	ND	EPA-524.2
1,2,3-Trichloropropane	QC52900	Method Blank	ND	EPA-524.2
1,2,4-Trichlorobenzene	QC52900	Method Blank	ND	EPA-524.2
1,2,4-Trimethylbenzene	QC52900	Method Blank	ND	EPA-524.2
1,2-Dichloroethane	QC52900	Method Blank	ND	EPA-524.2
1,2-Dichloropropane	QC52900	Method Blank	ND	EPA-524.2
1,3,5-Trimethylbenzene	QC52900	Method Blank	ND	EPA-524.2
1,3-Dichloropropane	QC52900	Method Blank	ND	EPA-524.2
1,3-Dichloropropene	QC52900	Method Blank	ND	EPA-524.2
Benzene	QC52900	Method Blank	ND	EPA-524.2
Bromobenzene	QC52900	Method Blank	ND	EPA-524.2
Bromochloromethane	QC52900	Method Blank	ND	EPA-524.2
Bromodichloromethane	QC52900	Method Blank	ND	EPA-524.2
Bromoform	QC52900	Method Blank	ND	EPA-524.2

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(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.

Bromomethane	QC52900	Method Blank	ND	EPA-524.2
Carbon Tetrachloride	QC52900	Method Blank	ND	EPA-524.2
Chlorodibromomethane	QC52900	Method Blank	ND	EPA-524.2
Chloroethane	QC52900	Method Blank	ND	EPA-524.2
Chloroform	QC52900	Method Blank	ND	EPA-524.2
Chloromethane	QC52900	Method Blank	ND	EPA-524.2
cis-1,2-Dichloroethylene	QC52900	Method Blank	ND	EPA-524.2
Dibromomethane	QC52900	Method Blank	ND	EPA-524.2
Dichlorodifluoromethane	QC52900	Method Blank	ND	EPA-524.2
Dichloromethane	QC52900	Method Blank	ND	EPA-524.2
Ethylbenzene	QC52900	Method Blank	ND	EPA-524.2
Fluorotrichloromethane	QC52900	Method Blank	ND	EPA-524.2
Hexachlorobutadiene	QC52900	Method Blank	ND	EPA-524.2
Isopropylbenzene	QC52900	Method Blank	ND	EPA-524.2
m-Dichlorobenzene	QC52900	Method Blank	ND	EPA-524.2
Monochlorobenzene	QC52900	Method Blank	ND	EPA-524.2
Naphthalene	QC52900	Method Blank	ND	EPA-524.2
n-Butylbenzene	QC52900	Method Blank	ND	EPA-524.2
n-Propylbenzene	QC52900	Method Blank	ND	EPA-524.2
o-Chlorotoluene	QC52900	Method Blank	ND	EPA-524.2
o-Dichlorobenzene	QC52900	Method Blank	ND	EPA-524.2
Para-Dichlorobenzene	QC52900	Method Blank	ND	EPA-524.2
p-Chlorotoluene	QC52900	Method Blank	ND	EPA-524.2
p-Isopropyltoluene	QC52900	Method Blank	ND	EPA-524.2
sec-Butylbenzene	QC52900	Method Blank	ND	EPA-524.2
Styrene	QC52900	Method Blank	ND	EPA-524.2
tert-Butylbenzene	QC52900	Method Blank	ND	EPA-524.2
Tetrachloroethylene	QC52900	Method Blank	ND	EPA-524.2
Toluene	QC52900	Method Blank	ND	EPA-524.2
Total Trihalomethanes	QC52900	Method Blank	ND	EPA-524.2
trans-1,2-Dichloroethylene	QC52900	Method Blank	ND	EPA-524.2
Trichloroethylene	QC52900	Method Blank	ND	EPA-524.2
Vinyl chloride	QC52900	Method Blank	ND	EPA-524.2
Xylenes (total)	QC52900	Method Blank	ND	EPA-524.2
Alachlor	QC52974	Method Blank	ND	EPA 525.2
Atrazine	QC52974	Method Blank	ND	EPA 525.2
Benzo(a)pyrene	QC52974	Method Blank	ND	EPA 525.2
Butachlor	QC52974	Method Blank	ND	EPA 525.2
Di(2-ethylhexyl)adipate	QC52974	Method Blank	ND	EPA 525.2
Di(2-ethylhexyl)phthalate	QC52974	Method Blank	ND	EPA 525.2
Heptachlor	QC52974	Method Blank	ND	EPA 525.2
Metolachlor	QC52974	Method Blank	ND	EPA 525.2
Metribuzin	QC52974	Method Blank	ND	EPA 525.2
Propachlor	QC52974	Method Blank	ND	EPA 525.2
Simazine	QC52974	Method Blank	ND	EPA 525.2
3-Hydroxycarbofuran	QC52915	Method Blank	ND	EPA 531.1
Aldicarb	QC52915	Method Blank	ND	EPA 531.1
Aldicarb sulfone	QC52915	Method Blank	ND	EPA 531.1
Aldicarb sulfoxide	QC52915	Method Blank	ND	EPA 531.1
Carbaryl	QC52915	Method Blank	ND	EPA 531.1
Carbofuran	QC52915	Method Blank	ND	EPA 531.1
Methomyl	QC52915	Method Blank	ND	EPA 531.1

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Oxamyl	QC52915	Method Blank	ND	EPA 531.1
Endothall	QC52917	Method Blank	ND	EPA 548.1
Diquat	QC52894	Method Blank	ND	EPA 549.2
Chloride	QC52946	Blank	ND	EPA 300.0
Cyanide-Total	QC53070	Blank	ND	EPA 335.4
Fluoride	QC52947	Blank	ND	EPA 300.0
Aluminum	QC52954	Method Blank	ND	EPA 200.8
Antimony	QC52954	Method Blank	ND	EPA 200.8
Arsenic	QC52954	Method Blank	ND	EPA 200.8
Barium	QC52954	Method Blank	ND	EPA 200.8
Beryllium	QC52954	Method Blank	ND	EPA 200.8
Cadmium	QC52954	Method Blank	ND	EPA 200.8
Chromium	QC52954	Method Blank	ND	EPA 200.8
Manganese	QC52954	Method Blank	ND	EPA 200.8
Mercury	QC52954	Method Blank	ND	EPA 200.8
Selenium	QC52954	Method Blank	ND	EPA 200.8
Silver	QC52954	Method Blank	ND	EPA 200.8
Thallium	QC52954	Method Blank	ND	EPA 200.8
Zinc	QC52954	Method Blank	ND	EPA 200.8
Nitrate Nitrogen	QC52948	Blank	ND	EPA 300.0
Nitrite Nitrogen	QC52949	Blank	ND	EPA 300.0
Sulfate	QC52950	Blank	ND	EPA 300.0

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Dibromochloropropane	QC52930	LCS	70 - 130	106.4	-	EPA 504.1
		MS	65 - 135	107.2	-	
Ethylene dibromide	QC52930	LCS	70 - 130	103.6	-	EPA 504.1
		MS	65 - 135	106.8	-	
Aldrin	QC52931	LCS	73 - 130	95.6	-	EPA 505
		MS	65 - 135	90.2	-	
Chlordane	QC52931	LCS	70 - 130	0.0	-	EPA 505
		MS	65 - 135	-	-	
EPA 505 multicomponent analytes include: Chlordane, Toxaphene, and PCB aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260. Batch QC includes one multicomponent; continually rotating analytes. Samples with apparent patterns are confirmed prior to reporting.						
Dieldrin	QC52931	LCS	70 - 130	105.2	-	EPA 505
		MS	65 - 135	101.4	-	
Endrin	QC52931	LCS	70 - 130	93.6	-	EPA 505
		MS	65 - 135	90.6	-	
Heptachlor epoxide	QC52931	LCS	70 - 130	96.6	-	EPA 505
		MS	65 - 135	96.6	-	
Hexachlorobenzene	QC52931	LCS	70 - 130	95.6	-	EPA 505
		MS	65 - 135	95.0	-	
Hexachlorocyclopentadiene	QC52931	LCS	70 - 130	104.4	-	EPA 505
		MS	65 - 135	103.0	-	
Lindane	QC52931	LCS	70 - 130	100.4	-	EPA 505
		MS	65 - 135	100.8	-	
Methoxychlor	QC52931	LCS	70 - 130	102.2	-	EPA 505
		MS	65 - 135	97.4	-	
Toxaphene	QC52931	LCS	70 - 130	0.0	-	EPA 505
		MS	65 - 135	-	-	
EPA 505 multicomponent analytes include: Chlordane, Toxaphene, and PCB aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260. Batch QC includes one multicomponent; continually rotating analytes. Samples with apparent patterns are confirmed prior to reporting.						

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Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
2,4,5-TP	QC52914	LCS	70 - 130	97.4	-	EPA 515.4
		MS	70 - 130	91.3	-	
		MSD	0 - 30	-	3.0	
2,4,-D	QC52914	LCS	70 - 130	94.9	-	EPA 515.4
		MS	70 - 130	86.5	-	
		MSD	0 - 30	-	5.5	
Dalapon	QC52914	LCS	70 - 130	113.6	-	EPA 515.4
		MS	70 - 130	105.3	-	
		MSD	0 - 30	-	7.6	
Dicamba	QC52914	LCS	70 - 130	97.3	-	EPA 515.4
		MS	70 - 130	92.2	-	
		MSD	0 - 30	-	2.1	
Dinoseb	QC52914	LCS	70 - 130	98.0	-	EPA 515.4
		MS	70 - 130	95.2	-	
		MSD	0 - 30	-	7.3	
Pentachlorophenol	QC52914	LCS	70 - 130	79.8	-	EPA 515.4
		MS	70 - 130	75.7	-	
		MSD	0 - 30	-	2.8	
Picloram	QC52914	LCS	70 - 130	98.0	-	EPA 515.4
		MS	70 - 130	95.0	-	
		MSD	0 - 30	-	0.3	
1,1,1,2-Tetrachloroethane	QC52900	LCS	70 - 130	112.4	-	EPA-524.2
		LCS Dup	-	112.8	-	
1,1,1-Trichloroethane	QC52900	LCS	70 - 130	109.8	-	EPA-524.2
		LCS Dup	-	111.0	-	
1,1,2,2-Tetrachloroethane	QC52900	LCS	70 - 130	101.8	-	EPA-524.2
		LCS Dup	-	103.8	-	
1,1,2-Trichloroethane	QC52900	LCS	70 - 130	106.4	-	EPA-524.2
		LCS Dup	-	108.0	-	
1,1-Dichloroethane	QC52900	LCS	70 - 130	104.0	-	EPA-524.2
		LCS Dup	-	106.0	-	
1,1-Dichloroethylene	QC52900	LCS	70 - 130	97.4	-	EPA-524.2
		LCS Dup	-	97.2	-	
1,1-Dichloropropene	QC52900	LCS	70 - 130	101.0	-	EPA-524.2
		LCS Dup	-	106.4	-	
1,2,3-Trichlorobenzene	QC52900	LCS	70 - 130	97.4	-	EPA-524.2
		LCS Dup	-	103.6	-	
1,2,3-Trichloropropane	QC52900	LCS	70 - 130	104.0	-	EPA-524.2
		LCS Dup	-	107.6	-	
1,2,4-Trichlorobenzene	QC52900	LCS	70 - 130	96.2	-	EPA-524.2
		LCS Dup	-	100.4	-	
1,2,4-Trimethylbenzene	QC52900	LCS	70 - 130	104.2	-	EPA-524.2
		LCS Dup	-	107.8	-	
1,2-Dichloroethane	QC52900	LCS	70 - 130	101.2	-	EPA-524.2
		LCS Dup	-	104.0	-	
1,2-Dichloropropane	QC52900	LCS	70 - 130	100.6	-	EPA-524.2
		LCS Dup	-	104.2	-	
1,3,5-Trimethylbenzene	QC52900	LCS	70 - 130	102.0	-	EPA-524.2
		LCS Dup	-	106.8	-	
1,3-Dichloropropane	QC52900	LCS	70 - 130	98.2	-	EPA-524.2

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Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
		LCS Dup	-	102.2	-	
Benzene	QC52900	LCS	70 - 130	99.0	-	EPA-524.2
		LCS Dup	-	103.0	-	
Bromobenzene	QC52900	LCS	70 - 130	102.2	-	EPA-524.2
		LCS Dup	-	107.2	-	
Bromochloromethane	QC52900	LCS	70 - 130	107.8	-	EPA-524.2
		LCS Dup	-	108.8	-	
Bromodichloromethane	QC52900	LCS	70 - 130	105.0	-	EPA-524.2
		LCS Dup	-	103.8	-	
Bromoform	QC52900	LCS	70 - 130	119.4	-	EPA-524.2
		LCS Dup	-	118.6	-	
Bromomethane	QC52900	LCS	70 - 130	110.0	-	EPA-524.2
		LCS Dup	-	117.2	-	
Carbon Tetrachloride	QC52900	LCS	70 - 130	106.6	-	EPA-524.2
		LCS Dup	-	112.8	-	
Chlorodibromomethane	QC52900	LCS	70 - 130	103.0	-	EPA-524.2
		LCS Dup	-	106.2	-	
Chloroethane	QC52900	LCS	70 - 130	92.6	-	EPA-524.2
		LCS Dup	-	103.6	-	
Chloroform	QC52900	LCS	70 - 130	102.0	-	EPA-524.2
		LCS Dup	-	104.6	-	
Chloromethane	QC52900	LCS	70 - 130	96.2	-	EPA-524.2
		LCS Dup	-	98.0	-	
cis-1,2-Dichloroethylene	QC52900	LCS	70 - 130	104.4	-	EPA-524.2
		LCS Dup	-	108.6	-	
Dibromomethane	QC52900	LCS	70 - 130	110.6	-	EPA-524.2
		LCS Dup	-	105.4	-	
Dichlorodifluoromethane	QC52900	LCS	70 - 130	95.6	-	EPA-524.2
		LCS Dup	-	94.6	-	
Dichloromethane	QC52900	LCS	70 - 130	107.2	-	EPA-524.2
		LCS Dup	-	109.6	-	
Ethylbenzene	QC52900	LCS	70 - 130	93.6	-	EPA-524.2
		LCS Dup	-	97.4	-	
Fluorotrichloromethane	QC52900	LCS	70 - 130	104.4	-	EPA-524.2
		LCS Dup	-	107.2	-	
Hexachlorobutadiene	QC52900	LCS	70 - 130	109.2	-	EPA-524.2
		LCS Dup	-	115.0	-	
Isopropylbenzene	QC52900	LCS	70 - 130	101.2	-	EPA-524.2
		LCS Dup	-	106.4	-	
m-Dichlorobenzene	QC52900	LCS	70 - 130	109.4	-	EPA-524.2
		LCS Dup	-	110.8	-	
Monochlorobenzene	QC52900	LCS	70 - 130	98.0	-	EPA-524.2
		LCS Dup	-	103.4	-	
Naphthalene	QC52900	LCS	70 - 130	89.2	-	EPA-524.2
		LCS Dup	-	93.0	-	
n-Butylbenzene	QC52900	LCS	70 - 130	104.4	-	EPA-524.2
		LCS Dup	-	111.2	-	
n-Propylbenzene	QC52900	LCS	70 - 130	99.8	-	EPA-524.2
		LCS Dup	-	105.6	-	
o-Chlorotoluene	QC52900	LCS	70 - 130	101.6	-	EPA-524.2

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		LCS Dup	-	108.4	-	
o-Dichlorobenzene	QC52900	LCS	70 - 130	109.8	-	EPA-524.2
		LCS Dup	-	110.6	-	
Para-Dichlorobenzene	QC52900	LCS	70 - 130	107.4	-	EPA-524.2
		LCS Dup	-	111.6	-	
p-Chlorotoluene	QC52900	LCS	70 - 130	107.2	-	EPA-524.2
		LCS Dup	-	110.8	-	
p-Isopropyltoluene	QC52900	LCS	70 - 130	105.4	-	EPA-524.2
		LCS Dup	-	112.2	-	
sec-Butylbenzene	QC52900	LCS	70 - 130	110.2	-	EPA-524.2
		LCS Dup	-	116.2	-	
Styrene	QC52900	LCS	70 - 130	99.8	-	EPA-524.2
		LCS Dup	-	103.6	-	
tert-Butylbenzene	QC52900	LCS	70 - 130	98.8	-	EPA-524.2
		LCS Dup	-	103.0	-	
Tetrachloroethylene	QC52900	LCS	70 - 130	102.0	-	EPA-524.2
		LCS Dup	-	106.0	-	
Toluene	QC52900	LCS	70 - 130	94.2	-	EPA-524.2
		LCS Dup	-	97.6	-	
trans-1,2-Dichloroethylene	QC52900	LCS	70 - 130	102.0	-	EPA-524.2
		LCS Dup	-	108.2	-	
Trichloroethylene	QC52900	LCS	70 - 130	99.6	-	EPA-524.2
		LCS Dup	-	103.4	-	
Vinyl chloride	QC52900	LCS	70 - 130	101.6	-	EPA-524.2
		LCS Dup	-	106.4	-	
Alachlor	QC52974	LCS	70 - 130	132.0	-	EPA 525.2
	Alachlor is above the QC criteria in the LCS. All samples below MRL or non-detect ofr Alachlor. No corrective action necessary. MBS 11/1/21 SPF 11/2/2021					
		MS	70 - 130	144.0	-	
	Alachlor is above the QC criteria in the MS_1; Alachlor is below MRL or non-detect in the sample. Possible sample matrix related. No corrective action necessary. MBS 11/1/21 SPF 11/2/2021					
Atrazine	QC52974	LCS	70 - 130	115.0	-	EPA 525.2
		MS	70 - 130	106.0	-	
Benzo(a)pyrene	QC52974	LCS	70 - 130	95.0	-	EPA 525.2
		MS	70 - 130	68.0	-	
	Benzo(a)pyrene is below the QC criteria in the MS_1; meets QC criteria in the LCS, MRL and CCV. Possibly sample matrix related. No corrective action necessary. MBS 11/1/21 SPF 11/2/2021					
Butachlor	QC52974	LCS	70 - 130	126.0	-	EPA 525.2
		MS	70 - 130	149.0	-	
	Butachlor is above the QC criteria in the MS_1; Butachlor is below MRL or non-detect in the sample. Possible sample matrix related. No corrective action necessary. MBS 11/1/21 SPF 11/2/2021					
Di(2-ethylhexyl)adipate	QC52974	LCS	70 - 130	104.0	-	EPA 525.2
		MS	70 - 130	105.0	-	
Di(2-ethylhexyl)phthalate	QC52974	LCS	70 - 130	107.0	-	EPA 525.2
		MS	70 - 130	108.0	-	
Heptachlor	QC52974	LCS	70 - 130	104.0	-	EPA 525.2
		MS	70 - 130	115.0	-	
Metolachlor	QC52974	LCS	70 - 130	122.0	-	EPA 525.2
		MS	70 - 130	119.0	-	
Metribuzin	QC52974	LCS	70 - 130	123.0	-	EPA 525.2
		MS	70 - 130	140.0	-	
	Metribuzin is above the QC criteria in the MS_1; Metribuzin is below MRL or non-detect in the sample. Possible sample matrix related. No corrective action necessary. MBS 11/1/21 SPF 11/2/2021					

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Propachlor	QC52974	LCS	70 - 130	112.0	-	EPA 525.2
		MS	70 - 130	125.0	-	
Simazine	QC52974	LCS	70 - 130	71.0	-	EPA 525.2
		MS	70 - 130	76.0	-	
3-Hydroxycarbofuran	QC52915	LCS	80 - 120	99.4	-	EPA 531.1
		MS	65 - 135	108.0	-	
Aldicarb	QC52915	LCS	80 - 120	99.6	-	EPA 531.1
		MS	65 - 135	105.8	-	
Aldicarb sulfone	QC52915	LCS	80 - 120	102.4	-	EPA 531.1
		MS	65 - 135	110.5	-	
Aldicarb sulfoxide	QC52915	LCS	80 - 120	100.9	-	EPA 531.1
		MS	65 - 135	108.8	-	
Carbaryl	QC52915	LCS	80 - 120	101.7	-	EPA 531.1
		MS	65 - 135	109.2	-	
Carbofuran	QC52915	LCS	80 - 120	103.8	-	EPA 531.1
		MS	65 - 135	106.2	-	
Methomyl	QC52915	LCS	80 - 120	100.7	-	EPA 531.1
		MS	65 - 135	108.0	-	
Oxamyl	QC52915	LCS	80 - 120	104.0	-	EPA 531.1
		MS	65 - 135	107.8	-	
Endothall	QC52917	LCS	52 - 137	99.2	-	EPA 548.1
		MS	39 - 133	101.0	-	
Diquat	QC52894	LCS	70 - 130	81.2	-	EPA 549.2
		MS	70 - 130	92.7	-	
Chloride	QC52946	Duplicate	0 - 20	-	0.3	EPA 300.0
		LCS	90 - 110	101.8	-	
		MS	75 - 125	103.0	-	
Cyanide-Total	QC53070	Duplicate	0 - 20	-	0.0	EPA 335.4
		LCS	90 - 110	101.1	-	
		MS	75 - 125	103.5	-	
Fluoride	QC52947	Duplicate	0 - 20	-	4.5	EPA 300.0
		LCS	90 - 110	96.5	-	
		MS	75 - 125	98.2	-	
Aluminum	QC52954	LCS	90 - 110	91.9	-	EPA 200.8
		MS	70 - 130	100.4	-	
		MSD	0 - 10	-	0.5	
Antimony	QC52954	LCS	90 - 110	98.3	-	EPA 200.8
		MS	70 - 130	85.0	-	
		MSD	0 - 10	-	4.5	
Arsenic	QC52954	LCS	90 - 110	95.7	-	EPA 200.8
		MS	70 - 130	93.8	-	
		MSD	0 - 10	-	5.2	
Barium	QC52954	LCS	90 - 110	94.1	-	EPA 200.8
		MS	70 - 130	74.2	-	
		MSD	0 - 10	-	2.9	
Beryllium	QC52954	LCS	90 - 110	99.8	-	EPA 200.8
		MS	70 - 130	94.7	-	
		MSD	0 - 10	-	1.0	
Cadmium	QC52954	LCS	90 - 110	93.8	-	EPA 200.8
		MS	70 - 130	81.1	-	

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.

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
		MSD	0 - 10	-	5.9	
Chromium	QC52954	LCS	90 - 110	101.8	-	EPA 200.8
		MS	70 - 130	93.3	-	
		MSD	0 - 10	-	0.0	
Manganese	QC52954	LCS	90 - 110	97.6	-	EPA 200.8
		MS	70 - 130	80.6	-	
		MSD	0 - 10	-	3.1	
Mercury	QC52954	LCS	90 - 110	92.7	-	EPA 200.8
		MS	70 - 130	77.1	-	
		MSD	0 - 10	-	1.6	
Selenium	QC52954	LCS	90 - 110	92.6	-	EPA 200.8
		MS	70 - 130	93.9	-	
		MSD	0 - 10	-	2.5	
Silver	QC52954	LCS	90 - 110	92.8	-	EPA 200.8
		MS	70 - 130	72.6	-	
		MSD	0 - 10	-	4.6	
Thallium	QC52954	LCS	90 - 110	96.3	-	EPA 200.8
		MS	70 - 130	82.2	-	
		MSD	0 - 10	-	0.7	
Zinc	QC52954	LCS	90 - 110	99.7	-	EPA 200.8
		MS	70 - 130	82.9	-	
		MSD	0 - 10	-	1.2	
Nitrate Nitrogen	QC52948	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	99.5	-	
		MS	75 - 125	94.1	-	
Nitrite Nitrogen	QC52949	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	109.5	-	
		MS	75 - 125	86.9	-	
Sulfate	QC52950	Duplicate	0 - 20	-	0.2	EPA 300.0
		LCS	90 - 110	100.8	-	
		MS	75 - 125	107.6	-	

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

Abbreviations/ References:

RL = Reporting Limit = Minimum Level
mg/L = Milligrams Per Liter or PPM
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(d) RPD acceptable due to low duplicate and sample concentrations.
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ND = Not Detected at Reporting Limit.

Drinking Water Chain of Custody



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: <u>Seiler Construction</u>	Company Name: <u>Aaron Atwood</u>	PWSID:		Compliance Samples: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Contact Name: <u>Matthew</u>	Contact Name: <u>Aaron Atwood</u>	System Name:		Send Results to CDPHE: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Address: <u>14618 Air Garden Ln</u>	Address: <u>701 Airman Lane</u>	Task Number (Lab Use Only):		CAL Task	
City: <u>Colorado Springs</u> State: <u>CO</u> zip: <u>80921</u>	City: <u>Colorado Springs</u> State: <u>CO</u> zip: <u>80921</u>	Phone: <u>303-945-1519</u>		211021012	
Phone: <u>303-945-1519</u>	Phone: <u>719-238-8800</u>	Email: <u>mdseiler@msn.com</u>		NAB	
Email: <u>mdseiler@msn.com</u>	Email: <u>aaronjatwood@gmail.com</u>	PO Number:			
Sample Collector: <u>Matthew</u>					
Sample Collector Phone: <u>303-945-1519</u>					

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/BCP	505 Pests/PCBs	515.4 Herbicides	524.2 VOCs	525.2 SOCs-Pest	531.1 Carbamates	547 Glyphosate	548.1 Endothal	549.2 Diquat	524.2 TTHMs	552.2 HAASs	Lead/Copper	Nitrate	Nitrite	Fluoride	Inorganics	Alk/Lang. Index (Circle)	TOC, DOC (Circle)	SUA, UV 254 (Circle)	Gross Alpha/Beta	Radium 226/228	Radon	Uranium	Chlorite	
10/20	6 PM	545 Struthers Loop	18																												
		VOC TB	1																												
		FB	1																												

Instructions: See attached quote for testing.

C/S Info:

Seals Present Yes No Headspace Yes No

Temp. °C / Ice 0.4 Y Sample Pres. Yes No

Delivered Via: Hand C/S Charge Relinquished By: A. Ford Date/Time: 10/21/2021

Received By: Matthew Seiler Date/Time: 10-21-2021 9:59 AM



CAL Task
211021012

NAB

Bottle Order Test Detail

Order ID: QBO21100038

Date Created: 10/15/21

Ship To: Seiler Construction
14618 Air Garden Ln
Colorado Springs CO 80921

Shipping Options:

Ship Via: UPS Cooler: Yes

Chain of Custody Drinking Water: 1
Standard:

Attention: DeEtte Seiler

Customer Needs By: 10/22/21
Ships From: Lakewood

****Verify All Shipping Addresses****

Project:

Qty.	Bottle / Preservative / Test
1	100 ml sterile - Na2S2O3 Total Coliform P/A - Water - Drinking
1	3 - 40ml voa - Ascorbic Acid + HCl 524.2 VOCS - Water - Drinking
1	500 ml Cylinder - HNO3 Ag - Total - Water - Drinking Al - Total - Water - Drinking As - Total - Water - Drinking Ba - Total - Water - Drinking Be - Total - Water - Drinking Cd - Total - Water - Drinking Cr - Total - Water - Drinking Hg - Water - Drinking Mn - Total - Water - Drinking Sb - Total - Water - Drinking Se - Total - Water - Drinking TI - Total - Water - Drinking Zn - Total - Water - Drinking
1	500 ml Cylinder - NaOH Cyanide-Total - Water - Drinking
1	500 ml Cylinder - Unpreserved

****Samples should be shipped or hand delivered the same day as they are collected.****

Internal Shipping Instructions:

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

211021012

Ship To: Seiler Construction
14618 Air Garden Ln
Colorado Springs CO 80921

NAB

Shipping Options:

Ship Via: UPS Cooler: Yes

Chain of Custody Drinking Water: 1
Standard:

Attention: DeEtte Seiler

Customer Needs By: 10/22/21

Ships From: Lakewood

****Verify All Shipping Addresses****

Project:

Qty.	Bottle / Preservative / Test
	Chloride - Water - Drinking
	Fluoride - Water - Drinking
	Langelier Index - Water - Drinking
	Nitrate Nitrogen - Water - Drinking
	Nitrate/ Nitrite Nitrogen - Water - Drinking
	Nitrite Nitrogen - Water - Drinking
	Sulfate - Water - Drinking

1	Full SOC Suite SOC Set - Water - Drinking
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****Samples should be shipped or hand delivered the same day as they are collected.****

Internal Shipping Instructions:

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