

April 27, 2023

PCD File No.:

Water Resources Report

Hill Subdivision Filing No. 1

The following describes the water supply to serve three proposed (3) residential lots on 14.693 acres collectively, and is located within the north half of the southwest one-quarter of the northwest one-quarter of Section 29, Township 11 South, Range 65 west of the 6th principal meridian in El Paso County, Colorado (Subject Property). This letter is based on a decree entered in Case No. 21CW3203, Water Division 2 (consolidated with Division 1 Case No. 21CW3074) (Decree/copy attached), which decreed the Dawson groundwater underlying the Subject Property, and approves a plan for augmentation for use of up to four (4) wells in the Dawson aquifer to serve each lot for a 300 year water supply period. This decree was to divide the existing water rights for four lots which included Tract A of "C and H Estates" but Tract A is unable to be platted into a lot. The owner may choose to sell the water rights that were initially decreed for Tract A (Lot 4 in the water decree).

The existing Hill Well No. 1, as referenced in the decree is permitted under Permit No. 63600-F and decreed in a previous case: 05CW37. Three (3) wells (Hill Wells No. 2 & 3) are proposed following platting of the property into three lots.

AMOUNTS DECREED AND AVAILABILTY

There are four aquifers identified in the decree entered in Case No. 21CW3203 that exist beneath the subject property. The Dawson Aquifer is the aquifer mainly used for withdrawal in this water decree and this aquifer is defined as **Not Non-Tributary (NNT)**. A NNT aquifer is an aquifer that can have withdrawal of groundwater for 100 years without depleting the natural stream or aquifer. The Denver, Arapahoe, and Laramie-Fox Aquifers which are defined as **Non-Tributary (NT)**. An NT aquifer is defined as a source of groundwater that would be depleted in a span of 100 years if used for a main source of water. These NT aquifers are used for replacement for over-pumping of NNTs or for other purposes defined by a water decree. The referenced decree sets forth withdrawal amounts based on 300-year aquifer life and El Paso County's required 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).

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

| Aquifer | Annual Amount-300 years (Acre-Feet) | Total (Acre-Feet) |
|------------------------|--|----------------------|
| Dawson (NNT) | 5.87 | 1760.46 |
| Denver (NT) | 4.77 | 1431.46 |
| Arapahoe (NT) | 2.43 | 730.16 |
| Laramie-Fox Hills (NT) | 1.71 | 512.26 |

Table 1: Groundwater Basin Water Rights Defined in Case 21CW3203

The 21CW3203 case defines the consumptive factors of these water rights to be:

| Consumptive Factor | Use |
|----------------------------------|---|
| 0.26 acre-feet per year per lot | In-house use |
| 0.325 acre-feet per year per lot | Irrigation of 1,600 square feet of lawn or garden |
| 0.24 acre-feet per year per lot | Livestock water limited to 4 horses or equivalent livestock |

Annual withdrawals of currently constructed Hill Well No. 1 (proposed Lot 1) from the Dawson aquifer (NNT) shall not exceed 0.825 acre feet (268,827 gallons). The annual withdrawals from yet to be constructed Hill Wells No. 2 & 3 (proposed Lots 2 & 3) from the Dawson aquifer (NNT) shall not exceed 0.825 acre feet each (268,827 gallons). Collectively, these wells shall not exceed 3.30 acre-feet per year. The State or Division Engineer shall curtail the pumping of more than those amounts from the Dawson aquifer. Replacement of pumped groundwater shall be through the one existing septic system and the three proposed septic systems.

WATER SUPPLY

The residential lots (up to two potential) will be served by individual not non-tributary Dawson aquifer wells to be permitted and to operate pursuant to an augmentation plan as approved in the Decree. The Decree allows the existing Dawson aquifer well to withdraw 0.825 acre-foot per year, and the two proposed Dawson aquifer wells to withdraw 0.825 acre-foot per year each for 300 years for the following uses:

| Currently constructed Hill Well No. 1 (Lot 1) and To be constructed Hill Wells No. 2 & 3 (Lots 2 & 3) | | | | |
|---|--|--|--|--|
| In-house use: | 0.26 acre-feet per year per lot (Total = 0.78 acre-feet/yr) | | | |
| Irrigation use: | 0.325 acre-feet per year per lot limited to irrigation of 1,600 sf of lawn or garden (Total = 0.98 acre-feet/yr) | | | |
| Stock-watering use: | 0.24 acre-feet per year limited to watering 4 horses or equivalent livestock (Total = 0.72 acre-feet/yr) | | | |

Total amount for subdivision over 300 years = 300 x 2.48 = 744 acre-feet Total decreed Dawson aquifer water = 990 acre-feet

M.V.E., Inc. • Engineers • Surveyors 1903 Lelaray Street, Suite 200 • Colorado Springs, CO 80909 • Phone 719-635-5736 Fax 719-635-5450 • e-mail mve@mvecivil.com 61174-Hill Subdivision Filing No. 1- Water Resources Report April 27, 2023 Page 3

The water supply for the residential lots using three (3) Dawson aquifer wells pursuant to the augmentation plan approved in the referenced Decree is sufficient and satisfies the 300 year supply requirement of El Paso County.

AUGMENTATION

The Plan for Augmentation is established in the decree entered in Case No. 21CW3203, Water Division 2 (Decree/copy attached). Use of Hill Wells Nos. 1 through 4, and any additional or replacement wells drilled to the Dawson Aquifer, requires replacement of actual stream depletion. Depletion caused by pumping water from the Dawson aquifer shall be replaced as provided and decreed. Each lot will utilize a maximum of 0.825 annual acre-feet per year for a maximum total of 3.30 annual acre-feet per year collectively for all three proposed lots. The augmentation obligation for Hill Wells No. 1 through 4 are septic return flows from indoor uses. Applicants shall also reserve their non-tributary Laramie-Fox Hills aquifer water (512.26 acre-feet) and Arapahoe aquifer (730.16 acre-feet) with an additional 529.74 acre-feet from the Arapahoe aquifer for post-injurous pumping which includes prior pumping of Hill Well 1 prior to the new water decree. 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.

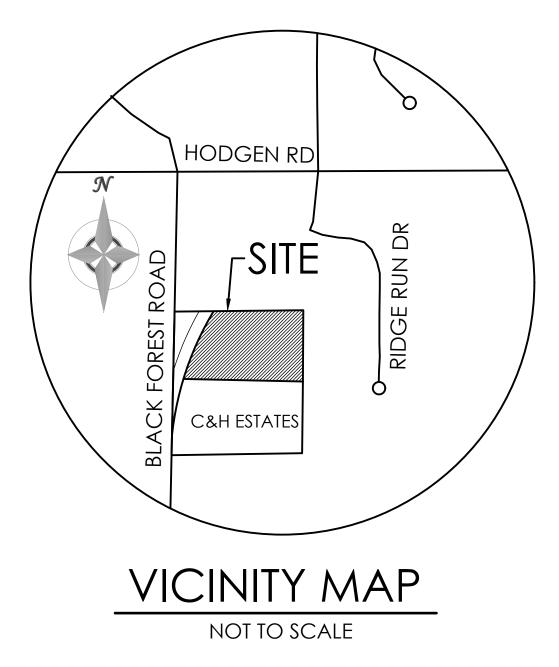
WATER QUALITY

M.V.E., inc. has examined water quality testing results for the existing well (Permit No. 63600-F) located at the property adjacent to the southwest side of the existing Lot 1. The water samples were drawn from the water well fixtures connected to the State of Colorado permitted well of the Dawson Aquifer at 6905 Alpaca Heights. The samples were taken on 7/28/22. 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 Dawson Aquifer is a confined aquifer. M.V.E. Inc. compared the test results to the Maximum Contaminant Level (MCL), radiological, and pH level requirements for each substance. The water sample passed all requirements according to El Paso County standards contained in the Land Development Code. The pH level was tested at 6.5 while the range of acceptable pH levels is between 6.5 to 8.5. It is recommended that water user continue to monitor the pH level of the water supply to insure the water source remains within El Paso County Standards and non-corrosive in nature. Mitigation for high or low pH levels is commonly available. The water quality results are attached to this report in the appendix.

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Attachments

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EL PASO COUNTY LAND DEVELOPMENT CODE

Chapter V - Section 55 Subdivision Summary Form

Date: April 27, 2023

SUBDIVISION NAME:

Hill Subdivision Filing No. 1

County El Paso

Type of Submittal:

Request for Exemption _____ Preliminary Plan _____ Final Plat Yes- Hill Subdivision Filing No. 1

SUBDIVISION LOCATION: Township <u>11 S</u> Range <u>65 W</u> Section <u>29</u> 1/4 <u>NW</u>

OWNER(S) NAME
Douglas E. Hill, Katherine L. Hill
ADDRESS
6910 Alpaca Heights
Colorado Springs, CO

SUBDIVIDER(S) NAME Douglas E. Hill, Katherine L. Hill

ADDRESS 13985 Silverton Road

Colorado Springs, CO 80921

| Type of Subdivision | Number of Dwelling Units | Area (Acres) | % of Total Area* |
|---------------------|--------------------------------|--------------|---------------------|
| Single Family | 3 | 14.693 Ac | 100% |
| Apartments | | | |
| Condominiums | | | |
| Mobile Homes | | | |
| Commercial | N/A | | |
| Industrial | N/A | | |
| Other (specify) | | | |
| Street | | | |
| Walkways | | | 1 |

| Dedicated School Sites | | | |
|------------------------|---|--------|------|
| Reserved Park Sites | | | |
| Private Open Areas | | | |
| Easements | | | |
| Other (specify) | | | |
| TOTAL | 3 | 14.693 | 100% |

* (By map measure)

Estimated Water Requirements 2,210 gal/day (gallons/day).

Proposed Water Source(s)

1 existing private well, 2 proposed wells

Estimated Sewage Disposal Requirement <u>627 gal/day</u> (gallons/day).

Proposed Means of Sewage Disposal OWTS

ACTION:

| Planning Comm | ission Recommendation | |
|---------------|-----------------------|--|
| Approval | Date | |
| Disapproval | | |
| Remarks: | | |
| | | |

| Board of County Cor | mmissioners | |
|-----------------------|-------------------------|--|
| Approval | Date | |
| Disapproval | | |
| Exemption under C.I | R.S. 30-28-101 (10) (d) | |
| Remarks (if exemption | on, state reason): | |
| · - | | |

Note: This form is required by C.R.S. 30-28-136 (4), but is not a part of the regulations of El Paso County, Colorado.

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DF \$0.00Electronically Recorded Official Records El Paso County CO
Chuck Broerman, Clerk and RecorderTD1000N

| DISTRICT COURT, WATER DIVISION 1, CO | |
|---|--|
| Court Address: 901 9 th Avenue P.O. Box 2038 Greeley, CO | DATE FILED: July 15, 2022 4:46 PM CASE NUMBER: 2021CW3203 |
| Phone Number: (970) 475-2540 | ▲ COURT USE ONLY ▲ |
| CONCERNING THE APPLICATION FOR WATER RIGHTS OF: | |
| DOUGLAS E. HILL and KATHERINE L. HILL | Case No.: 21CW3203 (c/r Div. 1 05CW37, |
| IN EL PASO COUNTY | consolidated with Division 2 Case No. 21CW3074 pursuant to Order of Panel on Multi-District Litigation 22MD6) |
| FINDINGS OF FACT, CONCLUSIONS OF LAW DECREE | , RULING OF REFEREE AND |

THIS MATTER comes before the Water Referee on the Application filed by Douglas E. Hill and Katherine L. Hill. Having reviewed said Application and other pleadings on file, and being fully advised on this matter, the Water Referee makes the following findings and orders:

GENERAL FINDINGS OF FACT

The applicants in this case are Douglas E. Hill and Katherine L. Hill, whose address is 13985 Silverton Road, Colorado Springs, CO 80921 ("Applicants"). Applicants are the owners of the land totaling approximately 16.47 acres ("Applicants' Property"). Applicants' Property is a portion of the land within the C&H Estates Subdivision, for which the underlying groundwater was previously quantified and a plan for augmentation was previously decreed by this Court in Case No. 05CW37. Applicants seek to amend the 05CW37 decree only as concerns the Applicants' Property. All structures sought to be augmented by the plan decreed herein are located on the Applicants' Property, and Applicants are the owners of the place of use where the water will be put to beneficial use.

1. The Applicants filed this Application with the Water Courts for both Water Divisions 1 and 2 on November 30, 2021. The Application was referred to the Water Referees in both Divisions 1 and 2 on or about November 30, 2021.

2. The time for filing statements of opposition to the Application expired on the last day of January, 2022. No statements of opposition were timely filed.

3. A Motion for Consolidation of the cases into Water Division 1 was filed with the

Colorado Supreme Court on February 3, 2022. The Panel on Consolidated Multidistrict Litigation certified the Motion for Consolidation to the Chief Justice on April February 14, 2022. Chief Justice, Brian D. Boatright, granted the Motion for Consolidation by Order dated March 22, 2022.

4. On November 30, 2021, the Water Court, Division 2 on Motion from Applicant, ordered that consolidated publication be made by only Division 1.

5. The Clerk of this Court has caused publication of the Application filed in this matter as provided by statute and the publication costs have been paid. On December 21, 2021, proof of publication in the *Daily Transcript* in El Paso County was filed with Water Court Division 1. All notices of the Application have been given in the manner required by law.

6. No new Determination of Facts were filed by the Office of the State Engineer pursuant to C.R.S. §37-92-302(2), as all such determinations relevant to the adjudication of underlying groundwater were completed in the prior 05CW37 matter.

7. Pursuant to C.R.S. §37-92-302(4), the office of the Division Engineer for Water Division 1 filed its Consultation Report dated February 14, 2022, and a Response to the Consultation Report was filed by the Applicants on March 15, 2022. Both the Consultation Report and Response have been considered by the Water Referee in the entry of this Ruling.

8. The Water Court has jurisdiction over the subject matter of these proceedings and over all who have standing to appear as parties whether they have appeared or not. The land and water rights involved in this case are not within a designated groundwater basin.

PLAN FOR AUGMENTATION

9. <u>Summary & Case History</u>. Applicants have requested a revision or amendment to an existing augmentation plan concerning the use and augmentation of Denver Basin groundwater supplies underlying the Applicants' Property, as located in northern El Paso County, Colorado. Applicants own Lot 1 and Tract A of the C&H Estates subdivision, as depicted on attached **Exhibit** A map, also known as 6910 Alpaca Heights, Colorado Springs, CO 80908 located in the SW¹/₄ NW¹/₄ of Section 29, Township 11 South, Range 65 West of the 6th P.M. ("Applicants' Property").

A. Underground water rights within the Dawson, Denver, Arapahoe, and Laramie-Fox Hills aquifers, along with a plan for augmentation, were previously decreed by this Court in Case No. 05CW37, as consolidated with Water Court Division 2, Case No. 05CW13 (the "05CW37 Decree"). The 05CW37 Decree established an augmentation plan for approximately 36.47 acres of land located in part of the NW¹/₄ of Section 29, Township 11 South, Range 65 West of the 6th P.M., known as the C&H Estates, consisting of Lot 1 and Tract A (16.47 acres, the Applicants' Property), Lot 2 (8.95 acres), and Lot 3 (8.84 acres). Following entry of the 05CW37 Decree, a right-of-way over approximately 2.21 acres of land previously owned by the developer of C&H Estates was dedicated to El Paso County; however, no groundwater underlying the right-of-way was conveyed to the County, and said groundwater remains in the ownership of the owners of Lot 1 (and Tract A), Lot 2, and Lot 3, *pro rata* to their overlying land ownership, consistent

Hill 21CW3203 Page 3 of 32

with the water covenants executed at the time of platting of the C&H Estates subdivision. The augmentation plan decreed in the 05CW37 Decree provides for withdrawals of a combined 3.9 acre-feet of water per year from the not-nontributary Dawson aquifer from individual wells on each of the lots at a rate not to exceed 15 gpm. Of the total 3.9 annual acre-feet of water, 2.0 annual acre-feet was allocated by recorded covenants, and by Applicants' well permit, to the Applicants' Property, and the remaining 1.9 annual acre-feet were allocated to Lots 2 and 3 (0.95 acre-feet per lot). The 05CW37 Decree sets forth the consumptive factor for the subject water uses as in-house use (0.314 acre-feet)¹. Applicant's estimated consumption for other than in-house uses are as follows: irrigation (0.65 acre-feet/limited to irrigation of 11,000 square feet), and stockwatering of four large domestic animals (0.05 acre-feet). These uses are to be augmented by return flows from the individual non-evaporative septic systems on each lot during the pumping life of the wells. Post-pumping augmentation obligations under the 05CW37 plan were met by the reservation of 1,019 acre-feet of water in the Laramie-Fox Hills aquifer (a 300-year aquifer life). Applicants did not seek, and this Court does not decree, any change to the previously decreed facts, calculations, or assumptions, except as otherwise expressly decreed herein.

B. Applicants are the current owners of Lot 1 and Tract A, the Applicants' Property, with existing Well Permit No. 63600-F ("Hill Well No. 1"). Based upon the allocation of Denver Basin supplies adjudicated in Case No. 05CW37 and the water covenants allocation *pro rata* to the overlying landowner, Applicants are the owners of the following water in the Denver Basin aquifers underlying Applicants' Property, being 48.1% of the quantities previously adjudicated:

| Aquifer | Annual Amount – 300 years (Acre-Feet) | Total (Acre-Feet) |
|------------------------|--|----------------------|
| Dawson (NNT) | 5.87 | 1,760.46 |
| Denver (NT) | 4.77 | 1,431.46 |
| Arapahoe (NT) | 2.43 | 730.16 |
| Laramie-Fox Hills (NT) | 1.71 | 512.26 ² |

10. <u>Revisions/Amendments to 05CW37 Plan for Augmentation</u>. No amendments or revisions to the 05CW37 Decree as would affect the rights and entitlements of the owners of Lots 2 and 3 of the C&H Estates subdivision are contemplated nor decreed herein. Applicants intend to further subdivide the Applicants' Property into a maximum of four (4) total lots, requiring up to four (4) individual wells. The following amendments and revisions to the plan for augmentation set forth in the 05CW37 Decree, only as pertains to the Applicants' Property, are hereby decreed

¹ Applicants, by this decree, reduce their in-house uses of water from the 0.314 acre foot figure previously decreed in the 05CW37 Decree to a 0.26 acre foot figure, consistent with the applicable El Paso County Land Development Code. The previously decreed 0.314 figure remains applicable to Lots 2 and 3, and is unchanged by this Decree. For purposes of conservatism, however, Applicants calculate available replacement supplies generated from septic return flows upon a lesser 0.20 acre foot per residence figure.

 $^{^2}$ The entirety of this entitlement has been reserved for post pumping depletions pursuant to the 05CW37 Decree, and by this application is intended to remain so dedicated.

Hill 21CW3203 Page 4 of 32

as below.

11. <u>Structures to be Augmented</u>: The structures to be augmented are the Hill Well Nos. 1 through 4, as proposed to be constructed, or as currently constructed, to the not-nontributary Dawson aquifer, including any future replacement or substitute wells as may be constructed to the not-nontributary Dawson aquifer formation underlying the Applicants' Property.

A. <u>Existing Well.</u> The Hill Well No. 1, with existing Division of Water Resources Well Permit No. 63600-F, is located approximately 2,000 feet from the north section line and 500 feet from the west section line in the SW¹/₄ NW¹/₄ of Section 29, Township 11 South, Range 65 West of the 6th P.M. and is completed to the Dawson aquifer. Upon approval of this amended augmentation plan, Applicants will file an application with the State Engineer's Office to re-permit this well.

B. <u>Proposed Additional Wells</u>: Applicants will construct up to three additional wells on Applicants' Property, one on each lot, based on the anticipated subdivision into up to four lots. All such wells shall be constructed to the Dawson aquifer.

C. <u>Statement of Plan for Augmentation</u>. By the amendments and revisions decreed herein, Applicants may provide for the augmentation of stream depletions caused by pumping the not-nontributary Dawson aquifer wells proposed for up to four residential lots on Applicants' Property, consistent with the El Paso County Land Development Code requirements. Return flows resulting from the use of non-evaporative septic disposal systems will provide sufficient return flows to replace all depletions from the pumping of up to four individual wells during the 300-year pumping life, while reserved nontributary supplies in the Arapahoe and Laramie-Fox Hills aquifers will replace any injurious post-pumping depletions in proper time, place, and amount.

12. <u>Water Rights to be Used for Augmentation</u>. The water rights to be used for augmentation during pumping are the septic return flows resulting from pumping of the not-nontributary Dawson aquifer by the Hill Well Nos. 1 through 4, as well as return flows from any replacement/substitute wells, as set forth in this plan for augmentation, together with water rights from the nontributary Arapahoe and Laramie-Fox Hills aquifers for the replacement of any injurious post pumping depletions.

13. Pursuant to C.R.S. §37-90-137(9)(c.5), the augmentation obligation for the Hill Well Nos. 1 through 4, and any additional or replacement wells constructed to the Dawson aquifer, requires the replacement of actual stream depletions to the extent necessary to prevent any injurious effect. The water rights to be used for augmentation during pumping are the septic return flows of the not-nontributary Hill Well Nos. 1 through 4, to be pumped as set forth in this plan for augmentation. The water rights to be used for augmentation following cessation of pumping are the previously reserved portion of nontributary water rights in the Laramie-Fox Hills aquifer, as decreed in Case No. 05CW37, and an additional 495.74 acre feet of Applicants' nontributary Arapahoe aquifer water rights, as necessary to replace the incremental increase in depletions resulting from the amendment and revisions to the 05CW37 augmentation plan described herein.

Hill 21CW3203 Page 5 of 32

Applicants shall thereby provide for the augmentation of all injurious stream depletions caused by pumping the Hill Well Nos. 1 through 4, as approved herein. Water use criteria as follows:

A. <u>Use</u>: The Hill Well Nos. 1 through 4 may each pump up to 0.825 acre-foot of water per year, for a maximum total of 3.30 acre feet being withdrawn from the Dawson aquifer annually. Consistent with El Paso County Land Development Code, households will utilize up to 0.26 acre feet of water per year per residence, with the additional 0.565 acre feet per year per residence available for other uses, including but not limited to, irrigation of lawns and gardens and watering of domestic animals and livestock.

Β. Depletions: Consistent with the Depletion Report provided by the State Engineer's Office, maximum stream depletions over the 300-year pumping period of the Hill Well Nos. 1 through 4 amount to approximately twenty-one percent (21%) of pumping. Because Hill Well No. 1 (DWR Permit No. 63600-F) has previously operated under the plan for augmentation decreed in Case No. 05CW37 and will continue to pump under the plan decreed herein, lagged depletions attributable to prior 05CW37 pumping must be accounted for. Applicants' consultant has calculated the maximum lagged depletions associated with the prior 17 years of pumping from Hill Well No. 1, assuming maximum pumping of 2.0 acre feet annually, and such lagged depletions are described and depicted in Table 1 in the attached Exhibit B. Maximum annual depletions for total residential pumping from all wells, including lagged depletions from the prior pumping of Hill Well No. 1 are therefore 0.719 acre feet in year 300 of this plan. Should Applicants' pumping be less than the 0.825 acre feet per lot described herein, or should fewer than four lots be developed, resulting depletions and required replacements will be correspondingly reduced, so long as adequate return flows are produced from in-house uses to replace depletions. However, for purposes of this plan, maximum depletions will be presumed, and replacements of such maximum depletions, 21% of pumping, will be replaced. While landscape irrigation is presumed to be only 85% consumptive resulting in return flows which could be claimed as an augmentation source, Applicants make no claims for the use of such irrigation return flows herein, but expressly reserve the right to make such claims in the future.

C. <u>Augmentation of Depletions During Pumping Life of Wells</u>: Pursuant to C.R.S. §37-90-137(9)(c.5), Applicants are required to replace actual stream depletions attributable to pumping of up to four residential wells. Consistent with the prior 05CW37 Decree, depletions during pumping will be effectively replaced by residential return flows from non-evaporative septic systems. The annual consumptive use for non-evaporative septic systems is 10% per year per residence. At the conservative household use rate of 0.20 acre feet per residence per year utilized for this purpose a total of 0.72 acre feet is replaced to the stream system per year, utilizing non-evaporative septic systems (assuming four lots). Thus, with maximum depletions of 0.719 acre feet in year 300, stream depletions will be adequately augmented during pumping.

D. <u>Augmentation of Post Pumping Depletions</u>: This plan for augmentation shall have a pumping period of a minimum of 300 years. For the replacement of any injurious post-pumping depletions which may be associated with the use of the Hill Well Nos. 1 through 4, Applicants will maintain their pro-rata reservation of the nontributary Laramie Fox Hills aquifer as described in the 05CW37 Decree or 512.26 acre-feet as shown in the table in paragraph 9.B,

Hill 21CW3203 Page 6 of 32

and further reserve an additional 529.74 acre feet of the nontributary Arapahoe aquifer to replace any injurious post pumping depletions, including prior pumping of Hill Well No. 1. Applicants also reserve the right to substitute other legally available augmentation sources for such post pumping depletions upon further approval of the Court under its retained jurisdiction. Even though this reservation is made, under the Court's retained jurisdiction, Applicants reserve the right in the future to prove that post pumping depletions will be noninjurious. The reserved nontributary Arapahoe and Laramie-Fox Hills aquifer groundwater will be used to replace any injurious postpumping depletions. Upon entry of a decree in this case, the State Engineer shall be bound by this decree and C.R.S. §37-90-137(4) in issuing new well permits for the Hill Well No. 1, and new permits for Hill Well Nos. 2 through 4, for the uses in accordance with this Application and otherwise in compliance with C.R.S. §37-90-137, consistent with and in reference to the plan for augmentation decreed herein.

14. Because depletions occur to both the South Platte and Arkansas River systems under the State's groundwater flow model, the Application in this case was filed in both Water Divisions 1 and 2. The return flows set forth above as augmentation will accrue to only South Platte River system where most of the depletions will occur and where the Applicants' Property is located. Under this augmentation plan, the total amount of depletions will be replaced to the South Platte River system as set forth herein, and the Court finds that those replacements are sufficient under this augmentation plan, subject to Paragraphs 32-36 herein.

15. This decree, upon recording, shall constitute a covenant running with Applicants' Property, benefitting and burdening said land, and requiring construction of wells to the nontributary Arapahoe and Laramie-Fox Hills aquifers and pumping of water to replace any injurious post-pumping depletions under this decree. Subject to the requirements of this decree, in order to determine the amount and timing of post-pumping replacement obligations, if any, under this augmentation plan, Applicants or their successors shall use information commonly used by the Colorado Division of Water Resources for augmentation plans of this type at the time. Pursuant to this covenant, the water from the nontributary Arapahoe and Laramie-Fox Hills aquifers reserved herein may not be severed in ownership from the overlying Applicants' Property. This covenant shall be for the benefit of, and enforceable by, third parties owning vested water rights who would be materially injured by the failure to provide for the replacement of post-pumping depletions under the decree, and shall be specifically enforceable by such third parties against the owner of the Applicants' Property.

16. Applicants or their successors shall be required to initiate pumping from the Arapahoe and/or Laramie-Fox Hills aquifer for the replacement of post-pumping depletions when either: (i) the absolute total amount of water available from the Dawson aquifer allowed to be withdrawn under the plan for augmentation decreed herein has been pumped; (ii) the Applicants or their successors in interest have acknowledged in writing that all withdrawals for beneficial use through the Hill Well Nos. 1 through 4 have permanently ceased, or (iii) a period of 10 consecutive years where either no withdrawals of groundwater has occurred.

17. Accounting and responsibility for post-pumping depletions in the amount set forth herein shall continue for the shortest of the following periods: (i) the period provided by statute;

Hill 21CW3203 Page 7 of 32

(ii) the period specified by any subsequent change in statute; (iii) the period required by the Court under its retained jurisdiction; (iv) the period determined by the State Engineer; or (v) the period as established by Colorado Supreme Court final decisions. Should Applicants' obligation hereunder to account for and replace such post-pumping stream depletions be abrogated for any reason, then the Arapahoe and Laramie-Fox Hills aquifer groundwater reserved for such a purpose shall be free from the reservation herein and such groundwater may be used or conveyed by its owner without restriction for any post-pumping depletions.

18. The term of this augmentation plan is for a minimum of 300 years, however, the length of the plan for a particular well or wells may be extended beyond such time provided the total pumping allocated to such well or wells is not exceeded and an amended plan for augmentation is approved by the Court. Should the actual operation of this augmentation plan depart from the planned diversions described in Paragraph 13 such that annual diversions are increased or the duration of the plan is extended, the Applicants must prepare and submit a revised model of stream depletions caused by the actual pumping schedule. This analysis must utilize depletion modeling acceptable to the State Engineer, and to this Court, and must represent the water use under the plan for the entire term of the plan to date. The analysis must show that return flows have equaled or exceeded actual stream depletions throughout the pumping period and that reserved nontributary water remains sufficient to replace post-pumping depletions.

19. Consideration has been given to the depletions from Applicants' use and proposed uses of water, in quantity, time and location, together with the amount and timing of augmentation water which will be provided by the Applicants, and the existence, if any, injury to any owner of or person entitled to use water under a vested water right.

20. It is determined that the timing, quantity and location of replacement water under the protective terms in this decree are sufficient to protect the vested rights of other water users and eliminate material injury thereto. The replacement water shall be of a quantity and quality so as to meet the requirements for which the water of senior appropriators has normally been used, and provided of such quality, such replacement water shall be accepted by the senior appropriators for substitution for water derived by the exercise of the Hill Well Nos. 1 through 4. As a result of the operation of this plan for augmentation, the depletions from the Hill Well Nos. 1 through 4 and any additional or replacement wells associated therewith will not result in material injury to the vested water rights of others.

CONCLUSIONS OF LAW

21. The application for revision and amendment of plan for augmentation was filed with the Water Clerks for Water Divisions 1 and 2, pursuant to C.R.S. \$37-92-302(1)(a) and 37-90-137(9)(c.5). These cases were properly consolidated before Water Division 1.

22. The Applicants' request for adjudication of this amendment to plan for augmentation is contemplated and authorized by law, and this Court and the Water Referee have exclusive jurisdiction over these proceedings. C.R.S. §§37-92-302(1)(a), 37-92-203, and 37-92-305.

23. Subject to the terms of this decree, and the prior 05CW37 Decree, the Applicants are entitled to the sole right to withdraw all the legally available water in the Denver Basin aquifers underlying the Applicants' Property, and the right to use that water to the exclusion of all others subject to the terms of this decree.

24. The Applicants have complied with C.R.S. \$37-90-137(4), and the groundwater is legally available for withdrawal by nontributary well(s), and legally available for withdrawal by not-nontributary well(s) upon the entry of this decree approving an amendment to the augmentation plan previously decreed in Case No. 05CW37, pursuant to C.R.S. \$37-90-137(9)(c.5).

25. The Denver Basin water rights decreed in this case are not conditional water rights, but are vested water rights determined pursuant to C.R.S. §37-90-137(4). No applications for diligence are required. Applicants' claims for nontributary and not-nontributary groundwater meet the requirements of Colorado Law.

26. The Applicants' request for approval of an amendment to the plan for augmentation subject of the prior 05CW37 Decree is contemplated and authorized by law. If administered in accordance with this decree, this plan for augmentation will permit the uninterrupted diversions from the Hill Well Nos. 1 through 4 without adversely affecting any other vested water rights in the Arkansas River and South Platte River or their tributaries and when curtailment would otherwise be required to meet a valid senior call for water. C.R.S. §§37-92-305(3), (5), and (8).

IT IS THEREFORE ORDERED, ADJUDGED AND DECREED AS FOLLOWS:

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

28. The Application for amendment and revision of the Plan for Augmentation subject of the prior 05CW37 Decree, as proposed by the Applicants, is approved subject to the terms of this decree.

29. The Applicants' have furnished acceptable proof as to all claims and, therefore, the claims described in the Application are granted and approved in accordance with the terms and conditions of this decree, and provided such terms and conditions are complied with, operation of the plan for augmentation decreed herein will not result in any material injury to senior vested water rights.

30. The Applicants shall comply with C.R.S. §37-90-137(9)(b), requiring the relinquishment of the right to consume two percent (2%) of the amount of the nontributary groundwater withdrawn. Ninety-eight percent (98%) of the nontributary groundwater withdrawn

Hill 21CW3203 Page 9 of 32

may therefore be consumed. No plan for augmentation shall be required to provide for such relinquishment.

31. The State Engineer, the Division Engineer, and/or the Water Commissioner shall not curtail the diversion and use of water covered by the Hill Well Nos. 1 through 4 so long as the return flows from the annual diversions associated with the Hill Well Nos. 1 through 4 accrue to the stream system pursuant to the conditions contained herein and the conditions of this decree are satisfied. To the extent that Applicants or one of their successors or assigns is ever unable to provide the replacement water required, then the Hill Well Nos. 1 through 4 shall not be entitled to operate under the protection of this plan, and shall be subject to administration and curtailment in accordance with the laws, rules, and regulation of the State of Colorado. Pursuant to C.R.S. §37-92-305(8), the State Engineer shall curtail all out-of-priority diversions which are not so replaced so as to prevent injury to vested water rights. In order for this plan for augmentation to operate, return flows from the septic systems discussed herein, as appropriate, shall at all times during pumping be in an amount sufficient to replace the amount of stream depletions. Return flows may be used only to replace depletions under this plan for augmentation, and may not be used, sold, traded, or assigned in whole or in part for any other purpose. If for any reason, sufficient return flows are not available to replace the actual depletions calculated using the AUG3 model, the Applicants must be required to pump water directly into the stream in the amount that has not been replaced by return flows. If such water is withdrawn from the Dawson aquifer well(s) operated under the augmentation plan the amount of water being pumped from the well(s) for other purposes must be reduced so that the allowed annual withdrawal from the well(s) is not exceeded. Such replacement must be made prior to the irrigation season for the following year.

32. The Court retains jurisdiction over this matter to make adjustments in the allowed average annual amount of withdrawal from the Denver Basin aquifers, either upwards or downwards, to conform to actual local aquifer characteristics, and that the Applicants need not refile, republish, or otherwise amend this application to request such adjustments. The Court further retains jurisdiction should the Applicants later seek to amend this decree by seeking to prove that post-pumping depletions are noninjurious, that the extent of replacement for post-pumping depletions is less than the amount of water reserved herein, and other post-pumping matters addressed in Paragraph 13.D.

A. At such time as adequate data may be available, Applicants or the State Engineer may invoke the Court's retained jurisdiction as provided in this Paragraph 32 for purposes of making a final determination of water rights as to the quantities of water available and allowed average annual withdrawals from any of the Denver Basin aquifers quantified and adjudicated herein. Any person seeking to invoke the Court's retained jurisdiction for such purpose shall file a verified petition with the Court setting forth with particularity the factual basis for such final determination of Denver Basin water rights under this decree, together with the proposed decretal language to effect the petition. Within four months of the filing of such verified petition, the State Engineer's Office shall utilize such information as available to make a final determination of water rights finding, and shall provide such information to the Court, Applicants, and the petitioning party.

Hill 21CW3203 Page 10 of 32

B. If no protest is filed with the Court to such findings by the State Engineer's Office within sixty (60) days, this Court shall incorporate by entry of an Amended Decree such "final determination of water rights", and the provisions of this Paragraph 32 concerning adjustments to the Denver Basin ground water rights based upon local aquifer conditions shall no longer be applicable. In the event of a protest being timely filed, or should the State Engineer's Office make no timely determination as provided in Paragraph 32.A., above, the "final determination of water rights" sought in the petition may be made by the Water Court after notice to all parties and following a full and fair hearing, including entry of an Amended Decree, if applicable in the Court's reasonable discretion.

33. Pursuant to C.R.S. §37-92-304(6), the Court shall retain continuing jurisdiction over the plan for augmentation decreed herein for reconsideration of the question of whether the provisions of this decree are necessary and/or sufficient to prevent injury to vested water rights of others, as pertains to the use of Denver Basin groundwater supplies adjudicated herein for augmentation purposes. The court also retains continuing jurisdiction for the purpose of determining compliance with the terms of the augmentation plan.

34. As pertains to the Denver Basin groundwater supplies, the court shall retain continuing jurisdiction for so long as Applicants are required to replace depletions to the Arkansas stream system, to determine whether the replacement of depletions to Arkansas stream system instead of the South Platte stream system is causing material injury to water rights tributary to the South Platte stream system.

Any person may invoke the Court's retained jurisdiction at any time that Applicants 35. are causing depletions, including ongoing post-pumping depletions, to the South Platte River system and is replacing such depletions to only the Arkansas River system. Any person seeking to invoke the Court's retained jurisdiction shall file a verified petition with the Court setting forth with particularity the factual basis for the alleged material injury and to request that the Court reconsider material injury to petitioners' vested water rights associated with the above replacement of depletions under this decree, together with the proposed decretal language to effect the petition. The party filing the petition shall have the burden of proof going forward to establish a prima facie case based on the facts alleged in the petition and that Applicants' failure to replace depletions to the South Platte River system is causing material injury to water rights owned by that party invoking the Court's retained jurisdiction, except that the State and Division Engineer may invoke the Court's retained jurisdiction by establishing a prima facie case that material injury is occurring to any vested or conditionally decreed water rights in the South Platte River system due to the location of Applicants' replacement water. If the Court finds that those facts are established, the Applicants shall thereupon have the burden of proof to show (i) that petitioner is not materially injured, or (ii) that any modification sought by the petitioner is not required to avoid material injury to the petitioner, or (iii) that any term or condition proposed by Applicants in response to the petition does avoid material injury to the petitioner. The Division of Water Resources as a petitioner shall be entitled to assert material injury to the vested water rights of others.

36. Except as otherwise specifically provided in Paragraphs 32-35, above, pursuant to the provisions of C.R.S. §37-92-304(6), this plan for augmentation decreed herein shall be subject

Hill 21CW3203 Page 11 of 32

to the reconsideration of this Court on the question of material injury to vested water rights of others, for a period of five years, except as otherwise provided herein. 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 material 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 materially injured, or (ii) that any modification sought by the petitioner is not required to avoid material injury to the petitioner, or (iii) that any term or condition proposed by Applicants in response to the petition does avoid material injury to the petitioner. The Division of Water Resources as a petitioner shall be entitled to assert material 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 revisions of the statute, this matter shall become final under its own terms.

37. Pursuant to C.R.S. §37-92-502(5)(a), the Applicants shall install and maintain such water measurement devices and recording devices as are deemed essential by the State Engineer or Division Engineers, and the same shall be installed and operated in accordance with instructions from said entities. Applicants are to install and maintain a totalizing flow meter on all Hill Well, and any additional or replacement wells associated therewith. Applicants are also to maintain records and provide reports to the State Engineer or Division Engineers as instructed by said entities, on at least an annual basis. Such accounting must include 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.

38. The vested water rights, water right structures, and plan for augmentation decreed herein shall be subject to all applicable administrative rules and regulations, as currently in place or as may in the future be promulgated, of the offices of Colorado State and Division Engineers for administration of such water rights, to the extent such rules and regulations are uniformly applicable to other similarly situated water rights and water users.

39. This Ruling of Referee, when entered as a decree of the Water Court, shall be recorded in the real property records of El Paso County, Colorado. Copies of this ruling shall be mailed as provided by statute.

Date: June 16, 2022

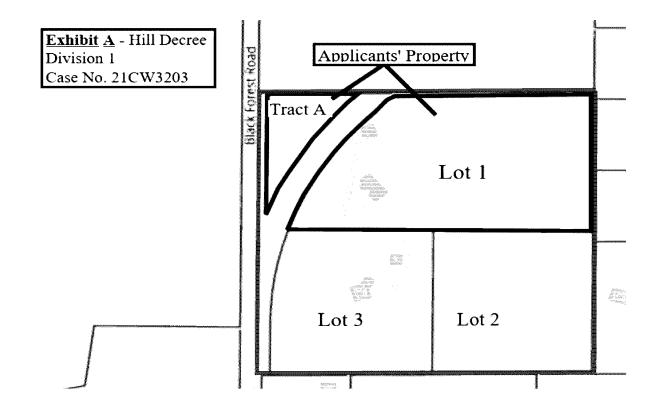
John S. Cowan Water Referee Water Division One

Hill 21CW3203 Page 12 of 32

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

Date: July 15, 2022

Shannon Lyons Alternate Water Judge Water Division One



| | Case 5CW37 | | Case 21CW3203 | | Total Annual | |
|--------------|------------|------------|---------------|--------------------|--------------|--|
| | Pumping | Depletions | Pumping | Depletions | Depletions | |
| Year | (AF/year) | (AF/year) | (AF/year) | (AF <i>l</i> year) | (AF/year) | |
| 2005 | 2.0 | 0.001 | _ | - | 0.001 | |
| 2006 | 2.0 | 0.003 | - | - | 0.003 | |
| 2007 | 2.0 | 0.005 | - | - | 0.005 | |
| 2008 | 2.0 | 0.007 | - | - | 0.007 | |
| 2009 | 2.0 | 0.009 | - | - | 0.009 | |
| 2010 | 2.0 | 0.010 | _ | _ | 0.010 | |
| 2011 | 2.0 | 0.012 | _ | _ | 0.012 | |
| 2012 | 2.0 | 0.012 | - | - | 0.012 | |
| 2012 | 2.0 | 0.015 | | | 0.015 | |
| 2013 | 2.0 | 0.015 | - | - | 0.016 | |
| 2014 | 2.0 | 0.018 | - | - | 0.018 | |
| 2013 | 2.0 | 0.019 | - | - | 0.019 | |
| 2018 | 2.0 | 0.019 | - | - | 0.019 | |
| 2017 2018 | | 0.020 | - | - | | |
| | 2.0 | | - | - | 0.022 | |
| 2019 | 2.0 | 0.023 | - | - | 0.023 | |
| 2020 | 2.0 | 0.024 | - | - | 0.024 | |
| 2021 | 2.0 | 0.026 | - | | 0.026 | |
| 2022 | - | 0.025 | 3.30 | 0.002 | 0.028 | |
| 2023 | - | 0.025 | 3.30 | 0.005 | 0.030 | |
| 2024 | - | 0.024 | 3.30 | 0.008 | 0.033 | |
| 2025 | - | 0.024 | 3.30 | 0.011 | 0.035 | |
| 2026 | - | 0.023 | 3.30 | 0.014 | 0.037 | |
| 2027 | - | 0.022 | 3.30 | 0.017 | 0.040 | |
| 2028 | - | 0.022 | 3.30 | 0.020 | 0.042 | |
| 2029 | - | 0.022 | 3.30 | 0.022 | 0.044 | |
| 2030 | - | 0.021 | 3.30 | 0.025 | 0.046 | |
| 2031 | - | 0.021 | 3.30 | 0.027 | 0.048 | |
| 2032 | - | 0.021 | 3.30 | 0.029 | 0.051 | |
| 2033 | _ | 0.021 | 3.30 | 0.032 | 0.053 | |
| 2034 | _ | 0.021 | 3.30 | 0.034 | 0.055 | |
| 2035 | | 0.021 | 3.30 | 0.036 | 0.057 | |
| 2036 | _ | 0.021 | 3.30 | 0.038 | 0.059 | |
| 2037 | - | 0.021 | 3.30 | 0.040 | 0.061 | |
| 2038 | | 0.021 | 3.30 | 0.042 | 0.063 | |
| 2039 | _ | 0.021 | 3.30 | 0.044 | 0.065 | |
| 2040 | - | 0.021 | 3.30 | 0.046 | 0.067 | |
| 2041 | _ | 0.021 | 3.30 | 0.048 | 0.069 | |
| 2042 | _ | 0.021 | 3.30 | 0.050 | 0.071 | |
| 2043 | _ | 0.021 | 3.30 | 0.052 | 0.073 | |
| 2044 | _ | 0.021 | 3.30 | 0.054 | 0.075 | |
| 2045 | _ | 0.021 | 3.30 | 0.056 | 0.077 | |
| 2046 | _ | 0.021 | 3.30 | 0.058 | 0.079 | |
| 2040 | - | 0.021 | 3.30 | 0.060 | 0.081 | |
| 2047 2048 | - | 0.021 | 3.30 | 0.062 | 0.083 | |
| 2040 2049 | - | 0.021 | 3.30 | 0.062 | 0.085 | |
| | - | | 3.30 | | | |
| 2050 | - | 0.021 | | 0.066 | 0.088 | |
| 2051 | - | 0.021 | 3.30 | 0.068 | 0.090 | |
| 2052 | - | 0.021 | 3.30 | 0.070 | 0.092 | |
| 2053 | - | 0.022 | 3.30 | 0.072 | 0.094 | |
| 2054 | - | 0.022 | 3.30 | 0.074 | 0.096 | |

Depletion + Lagged Depletion Summary - Hill Property

| _ | _ | | _ | | |
|------|---|-------|--------------|-------|-------|
| 2055 | - | 0.022 | 3.30 | 0.076 | 0.098 |
| 2056 | - | 0.022 | 3.30 | 0.079 | 0.100 |
| 2057 | | 0.022 | 3.30 | 0.081 | 0.102 |
| 2058 | _ | 0.022 | 3.30 | 0.083 | 0.105 |
| 2059 | - | 0.022 | 3.30 | 0.085 | 0.107 |
| 2060 | | 0.022 | 3.30 | 0.087 | 0.109 |
| 2061 | _ | 0.022 | 3.30 | 0.089 | 0.111 |
| 2062 | _ | 0.022 | 3.30 | 0.091 | 0.113 |
| 2063 | | 0.022 | 3.30 | 0.093 | 0.115 |
| 2063 | - | 0.022 | 3.30 | 0.095 | 0.113 |
| 2064 | - | 0.022 | | | |
| | - | | 3.30 | 0.097 | 0.120 |
| 2066 | - | 0.022 | 3.30 | 0.099 | 0.122 |
| 2067 | - | 0.023 | 3.30 | 0.101 | 0.124 |
| 2068 | - | 0.023 | 3.30 | 0.104 | 0.126 |
| 2069 | - | 0.023 | 3.30 | 0.106 | 0.128 |
| 2070 | - | 0.023 | 3.30 | 0.108 | 0.131 |
| 2071 | - | 0.023 | 3.30 | 0.110 | 0.133 |
| 2072 | - | 0.023 | 3.30 | 0.112 | 0.135 |
| 2073 | - | 0.023 | 3.30 | 0.114 | 0.137 |
| 2074 | - | 0.023 | 3.30 | 0.117 | 0.140 |
| 2075 | _ | 0.023 | 3.30 | 0.119 | 0.142 |
| 2076 | - | 0.023 | 3.30 | 0.121 | 0.144 |
| 2077 | | 0.023 | 3.30 | 0.123 | 0.146 |
| 2078 | _ | 0.023 | 3.30 | 0.125 | 0.149 |
| 2079 | | 0.023 | 3.30 | 0.128 | 0.151 |
| 2080 | | 0.023 | 3.30 | 0.130 | 0.153 |
| 2080 | - | 0.023 | 3.30 | 0.132 | 0.155 |
| | - | | | | |
| 2082 | - | 0.024 | 3.30 | 0.134 | 0.158 |
| 2083 | - | 0.024 | 3.30 | 0.136 | 0.160 |
| 2084 | - | 0.024 | 3.30 | 0.139 | 0.162 |
| 2085 | - | 0.024 | 3.30 | 0.141 | 0.165 |
| 2086 | - | 0.024 | 3.30 | 0.143 | 0.167 |
| 2087 | - | 0.024 | 3.30 | 0.145 | 0.169 |
| 2088 | - | 0.024 | 3.30 | 0.148 | 0.172 |
| 2089 | - | 0.024 | 3.30 | 0.150 | 0.174 |
| 2090 | - | 0.024 | 3.30 | 0.152 | 0.176 |
| 2091 | - | 0.024 | 3.30 | 0.155 | 0.179 |
| 2092 | _ | 0.024 | 3.30 | 0.157 | 0.181 |
| 2093 | - | 0.024 | 3.30 | 0.159 | 0.183 |
| 2094 | _ | 0.024 | 3.30 | 0.161 | 0.186 |
| 2095 | _ | 0.024 | 3.30 | 0.164 | 0.188 |
| 2096 | _ | 0.024 | 3.30 | 0.166 | 0.190 |
| 2097 | _ | 0.024 | 3.30 | 0.168 | 0.193 |
| 2098 | | 0.024 | 3.30 | 0.171 | 0.195 |
| 2099 | - | 0.024 | 3.30 | 0.173 | 0.197 |
| 2100 | - | 0.024 | 3.30 | 0.175 | 0.200 |
| 2100 | - | 0.024 | 3.30 3.30 | 0.175 | |
| | - | | | | 0.202 |
| 2102 | - | 0.024 | 3.30 | 0.180 | 0.204 |
| 2103 | - | 0.024 | 3.30 | 0.182 | 0.207 |
| 2104 | - | 0.025 | 3.30 | 0.185 | 0.209 |
| 2105 | - | 0.025 | 3.30 | 0.187 | 0.212 |
| 2106 | - | 0.025 | 3.30 | 0.189 | 0.214 |
| 2107 | - | 0.025 | 3.30 | 0.192 | 0.216 |
| 2108 | - | 0.025 | 3.30 | 0.194 | 0.219 |
| 2109 | - | 0.025 | 3.30 | 0.196 | 0.221 |
| | | - | | | |

| 2110 | - | 0.025 | 3.30 | 0.199 | 0.224 |
|------|---|----------------|--------------|----------------|----------------|
| 2111 | - | 0.025 | 3.30 | 0.201 | 0.226 |
| 2112 | _ | 0.025 | 3.30 | 0.204 | 0.228 |
| 2113 | - | 0.025 | 3.30 | 0.206 | 0.231 |
| 2114 | | 0.025 | 3.30 | 0.208 | 0.233 |
| 2115 | _ | 0.025 | 3.30 | 0.211 | 0.236 |
| 2116 | _ | 0.025 | 3.30 | 0.213 | 0.238 |
| 2117 | _ | 0.025 | 3.30 | 0.216 | 0.240 |
| 2118 | | 0.025 | 3.30 | 0.218 | 0.243 |
| 2110 | - | 0.025 | 3.30 | 0.210 | 0.245 |
| 2113 | - | 0.025 | 3.30 | 0.220 | 0.248 |
| 2120 | - | 0.025 | 3.30 | 0.225 | 0.246 |
| 2121 | - | 0.025 | 3.30 | 0.223 | 0.253 |
| 2122 | - | 0.025 | 3.30 | 0.230 | 0.255 |
| | - | | | | |
| 2124 | - | 0.025 | 3.30 | 0.232 | 0.257 |
| 2125 | - | 0.025 | 3.30 | 0.235 | 0.260 |
| 2126 | - | 0.025 | 3.30 | 0.237 | 0.262 |
| 2127 | - | 0.025 | 3.30 | 0.240 | 0.265 |
| 2128 | - | 0.025 | 3.30 | 0.242 | 0.267 |
| 2129 | - | 0.025 | 3.30 | 0.245 | 0.270 |
| 2130 | - | 0.025 | 3.30 | 0.247 | 0.272 |
| 2131 | - | 0.025 | 3.30 | 0.249 | 0.275 |
| 2132 | - | 0.025 | 3.30 | 0.252 | 0.277 |
| 2133 | - | 0.025 | 3.30 | 0.254 | 0.279 |
| 2134 | - | 0.025 | 3.30 | 0.257 | 0.282 |
| 2135 | - | 0.025 | 3.30 | 0.259 | 0.284 |
| 2136 | - | 0.025 | 3.30 | 0.261 | 0.287 |
| 2137 | - | 0.025 | 3.30 | 0.264 | 0.289 |
| 2138 | - | 0.025 | 3.30 | 0.266 | 0.292 |
| 2139 | - | 0.025 | 3.30 | 0.269 | 0.294 |
| 2140 | - | 0.025 | 3.30 | 0.271 | 0.296 |
| 2141 | - | 0.025 | 3.30 | 0.274 | 0.299 |
| 2142 | | 0.025 | 3.30 | 0.276 | 0.301 |
| 2143 | - | 0.025 | 3.30 | 0.279 | 0.304 |
| 2144 | - | 0.025 | 3.30 | 0.281 | 0.306 |
| 2145 | | 0.025 | 3.30 | 0.283 | 0.309 |
| 2146 | _ | 0.025 | 3.30 | 0.286 | 0.311 |
| 2147 | - | 0.025 | 3.30 | 0.288 | 0.314 |
| 2148 | _ | 0.025 | 3.30 | 0.291 | 0.316 |
| 2149 | _ | 0.025 | 3.30 | 0.293 | 0.319 |
| 2150 | _ | 0.025 | 3.30 | 0.296 | 0.321 |
| 2151 | _ | 0.025 | 3.30 | 0.298 | 0.323 |
| 2152 | _ | 0.025 | 3.30 | 0.301 | 0.326 |
| 2152 | | 0.025 | 3.30 | 0.303 | 0.328 |
| 2153 | _ | 0.025 | 3.30 | 0.306 | 0.331 |
| 2154 | | 0.025 | 3.30 | 0.308 | 0.333 |
| 2155 | | 0.025 | 3.30 | 0.310 | 0.336 |
| 2150 | | 0.025 | 3.30 | 0.313 | 0.338 |
| 2157 | | 0.025 | 3.30 | 0.315 | 0.341 |
| 2159 | - | 0.025 | 3.30 | 0.318 | 0.343 |
| | - | | | | |
| 2160 | - | 0.025 | 3.30 | 0.320 | 0.345 |
| 2161 | - | 0.025 | 3.30 | 0.323 | 0.348 |
| 2162 | - | 0.025 | 3.30 | 0.325 | 0.350 |
| 2163 | - | 0.025 0.025 | 3.30 3.30 | 0.328 0.330 | 0.353 0.355 |
| 2164 | | | | | |

| 2165 | - | 0.025 | 3.30 | 0.333 | 0.358 |
|--------------|---|----------------|--------------|----------------|----------------|
| 2166 | - | 0.025 | 3.30 | 0.335 | 0.360 |
| 2167 | - | 0.025 | 3.30 | 0.337 | 0.363 |
| 2168 | _ | 0.025 | 3.30 | 0.340 | 0.365 |
| 2169 | _ | 0.025 | 3.30 | 0.342 | 0.368 |
| 2170 | _ | 0.025 | 3.30 | 0.345 | 0.370 |
| 2171 | - | 0.025 | 3.30 | 0.347 | 0.372 |
| 2172 | _ | 0.025 | 3.30 | 0.350 | 0.375 |
| 2173 | | 0.025 | 3.30 | 0.352 | 0.377 |
| 2173 | - | 0.025 | 3.30 | 0.355 | 0.380 |
| 2174 | - | 0.025 | 3.30 | 0.357 | 0.382 |
| | - | 0.025 | 3.30 | 0.359 | 0.385 |
| 2176 | - | | | | |
| 2177 | - | 0.025 | 3.30 | 0.362 | 0.387 |
| 2178 | - | 0.025 | 3.30 | 0.364 | 0.389 |
| 2179 | - | 0.025 | 3.30 | 0.367 | 0.392 |
| 2180 | - | 0.025 | 3.30 | 0.369 | 0.394 |
| 2181 | - | 0.025 | 3.30 | 0.372 | 0.397 |
| 2182 | - | 0.025 | 3.30 | 0.374 | 0.399 |
| 2183 | - | 0.025 | 3.30 | 0.377 | 0.402 |
| 2184 | - | 0.025 | 3.30 | 0.379 | 0.404 |
| 2185 | - | 0.025 | 3.30 | 0.381 | 0.406 |
| 2186 | | 0.025 | 3.30 | 0.384 | 0.409 |
| 2187 | - | 0.025 | 3.30 | 0.386 | 0.411 |
| 2188 | - | 0.025 | 3.30 | 0.389 | 0.414 |
| 2189 | _ | 0.025 | 3.30 | 0.391 | 0.416 |
| 2190 | _ | 0.025 | 3.30 | 0.394 | 0.419 |
| 2191 | _ | 0.025 | 3.30 | 0.396 | 0.421 |
| 2192 | - | 0.025 | 3.30 | 0.399 | 0.423 |
| 2192 | - | 0.025 | 3.30 | 0.401 | 0.426 |
| 2193 | - | 0.025 | 3.30 | 0.401 | 0.428 |
| 2194 | - | 0.025 | 3.30 | 0.405 | 0.420 |
| 2195 | - | 0.025 | 3.30 | 0.408 | 0.433 |
| | - | | | | |
| 2197 | - | 0.025 | 3.30 | 0.411 | 0.436 |
| 2198 | - | 0.025 | 3.30 | 0.413 | 0.438 |
| 2199 | - | 0.025 | 3.30 | 0.416 | 0.440 |
| 2200 | - | 0.025 | 3.30 | 0.418 | 0.443 |
| 2201 | - | 0.025 | 3.30 | 0.420 | 0.445 |
| 2202 | - | 0.025 | 3.30 | 0.423 | 0.448 |
| 2203 | - | 0.025 | 3.30 | 0.425 | 0.450 |
| 2204 | - | 0.025 | 3.30 | 0.428 | 0.452 |
| 2205 | - | 0.025 | 3.30 | 0.430 | 0.455 |
| 2206 | - | 0.025 | 3.30 | 0.432 | 0.457 |
| 2207 | - | 0.025 | 3.30 | 0.435 | 0.460 |
| 2208 | - | 0.025 | 3.30 | 0.437 | 0.462 |
| 2209 | _ | 0.025 | 3.30 | 0.440 | 0.464 |
| 2210 | _ | 0.025 | 3.30 | 0.442 | 0.467 |
| 2211 | | 0.025 | 3.30 | 0.445 | 0.469 |
| 2212 | _ | 0.025 | 3.30 | 0.447 | 0.472 |
| 2212 | _ | 0.025 | 3.30 | 0.449 | 0.474 |
| 2213 | | 0.025 | 3.30 | 0.452 | 0.476 |
| 2214 | - | 0.025 | 3.30 | 0.452 | 0.479 |
| | - | | | | |
| 2216 2247 | - | 0.025 | 3.30 | 0.456 | 0.481 |
| 2217 | - | 0.025 | 3.30 | 0.459 | 0.483 |
| 2218 | - | 0.025 0.025 | 3.30 3.30 | 0.461 0.464 | 0.486 0.488 |
| 2219 | | | | | |

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| $\begin{array}{ c c c c c c c c c c c c c c c c c c c$ | 2220 | - | 0.025 | 3.30 | 0.466 | 0.491 |
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| 2248 - 0.024 3.30 0.532 0.556 2249 - 0.024 3.30 0.535 0.558 2250 - 0.024 3.30 0.537 0.561 2251 - 0.024 3.30 0.539 0.563 2252 - 0.024 3.30 0.542 0.565 2253 - 0.024 3.30 0.542 0.568 2254 - 0.024 3.30 0.544 0.568 2255 - 0.024 3.30 0.546 0.570 2255 - 0.024 3.30 0.546 0.570 2256 - 0.024 3.30 0.551 0.575 2257 - 0.024 3.30 0.553 0.579 2258 - 0.024 3.30 0.558 0.581 2260 - 0.024 3.30 0.562 0.586 2261 - 0.024 | | - | | | | |
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| 2272 _ 0.023 3.30 0.588 0.614 | | - | | | | |
| | 2272 | - | 0.023 | 3.30 | 0.588 | 0.611 |
| 2273 - 0.023 3.30 0.590 0.613 | | - | | | | |
| 2274 - 0.023 3.30 0.592 0.616 | 2274 | - | 0.023 | 3.30 | 0.592 | 0.616 |

| 2275 | _ | 0.023 | 3.30 | 0.594 | 0.618 |
|------|---|-------|------|-------|-------|
| 2276 | _ | 0.023 | 3.30 | 0.597 | 0.620 |
| 2277 | _ | 0.023 | 3.30 | 0.599 | 0.622 |
| 2278 | _ | 0.023 | 3.30 | 0.601 | 0.625 |
| 2279 | | 0.023 | 3.30 | 0.604 | 0.627 |
| 2275 | - | 0.023 | 3.30 | 0.606 | 0.629 |
| | - | | | | |
| 2281 | - | 0.023 | 3.30 | 0.608 | 0.631 |
| 2282 | - | 0.023 | 3.30 | 0.610 | 0.633 |
| 2283 | - | 0.023 | 3.30 | 0.613 | 0.636 |
| 2284 | - | 0.023 | 3.30 | 0.615 | 0.638 |
| 2285 | - | 0.023 | 3.30 | 0.617 | 0.640 |
| 2286 | - | 0.023 | 3.30 | 0.619 | 0.642 |
| 2287 | _ | 0.023 | 3.30 | 0.622 | 0.645 |
| 2288 | | 0.023 | 3.30 | 0.624 | 0.647 |
| 2289 | _ | 0.023 | 3.30 | 0.626 | 0.649 |
| 2290 | | 0.023 | 3.30 | 0.628 | 0.651 |
| 2291 | - | 0.023 | 3.30 | 0.631 | 0.653 |
| 2291 | - | 0.023 | 3.30 | 0.633 | 0.656 |
| | - | | | | |
| 2293 | - | 0.023 | 3.30 | 0.635 | 0.658 |
| 2294 | - | 0.023 | 3.30 | 0.637 | 0.660 |
| 2295 | - | 0.023 | 3.30 | 0.639 | 0.662 |
| 2296 | - | 0.023 | 3.30 | 0.642 | 0.664 |
| 2297 | - | 0.023 | 3.30 | 0.644 | 0.667 |
| 2298 | - | 0.023 | 3.30 | 0.646 | 0.669 |
| 2299 | - | 0.023 | 3.30 | 0.648 | 0.671 |
| 2300 | _ | 0.023 | 3.30 | 0.651 | 0.673 |
| 2301 | - | 0.023 | 3.30 | 0.653 | 0.675 |
| 2302 | _ | 0.023 | 3.30 | 0.655 | 0.678 |
| 2303 | _ | 0.023 | 3.30 | 0.657 | 0.680 |
| 2304 | | 0.023 | 3.30 | 0.659 | 0.682 |
| 2305 | - | 0.023 | 3.30 | 0.662 | 0.684 |
| 2305 | - | 0.023 | 3.30 | 0.664 | 0.686 |
| | - | | | | |
| 2307 | - | 0.023 | 3.30 | 0.666 | 0.689 |
| 2308 | - | 0.023 | 3.30 | 0.668 | 0.691 |
| 2309 | - | 0.022 | 3.30 | 0.670 | 0.693 |
| 2310 | - | 0.022 | 3.30 | 0.673 | 0.695 |
| 2311 | - | 0.022 | 3.30 | 0.675 | 0.697 |
| 2312 | - | 0.022 | 3.30 | 0.677 | 0.699 |
| 2313 | - | 0.022 | 3.30 | 0.679 | 0.702 |
| 2314 | - | 0.022 | 3.30 | 0.681 | 0.704 |
| 2315 | - | 0.022 | 3.30 | 0.684 | 0.706 |
| 2316 | | 0.022 | 3.30 | 0.686 | 0.708 |
| 2317 | _ | 0.022 | 3.30 | 0.688 | 0.710 |
| 2318 | _ | 0.022 | 3.30 | 0.690 | 0.712 |
| 2319 | | 0.022 | 3.30 | 0.692 | 0.712 |
| 2313 | - | 0.022 | 3.30 | 0.694 | 0.714 |
| 2320 | _ | 0.022 | 3.30 | 0.696 | 0.719 |
| 2321 | - | 0.022 | | | 0.719 |
| | - | | 3.30 | 0.696 | |
| 2323 | - | 0.022 | - | 0.696 | 0.718 |
| 2324 | - | 0.022 | - | 0.695 | 0.717 |
| 2325 | - | 0.022 | - | 0.694 | 0.716 |
| 2326 | - | 0.022 | - | 0.693 | 0.715 |
| 2327 | - | 0.022 | - | 0.692 | 0.714 |
| 2328 | - | 0.022 | - | 0.692 | 0.714 |
| 2329 | - | 0.022 | - | 0.691 | 0.713 |
| - | - | | - | • | • |

| | _ | _ | | _ | _ |
|--------------|---|-------|---|-------|-------|
| 2330 | - | 0.022 | - | 0.691 | 0.713 |
| 2331 | - | 0.022 | - | 0.691 | 0.713 |
| 2332 | - | 0.022 | - | 0.691 | 0.713 |
| 2333 | _ | 0.022 | - | 0.691 | 0.713 |
| 2334 | _ | 0.022 | - | 0.691 | 0.713 |
| 2335 | - | 0.022 | - | 0.691 | 0.712 |
| 2336 | | 0.022 | - | 0.691 | 0.713 |
| 2337 | _ | 0.022 | - | 0.691 | 0.713 |
| 2338 | _ | 0.022 | _ | 0.691 | 0.713 |
| 2339 | | 0.022 | _ | 0.691 | 0.713 |
| 2340 | _ | 0.022 | - | 0.691 | 0.713 |
| 2340 | - | 0.022 | - | 0.691 | 0.713 |
| 2341 | - | 0.022 | - | 0.691 | 0.713 |
| 2342 2343 | - | | - | | |
| | - | 0.022 | - | 0.691 | 0.713 |
| 2344 | - | 0.022 | - | 0.691 | 0.713 |
| 2345 | - | 0.022 | - | 0.691 | 0.713 |
| 2346 | - | 0.022 | - | 0.692 | 0.713 |
| 2347 | - | 0.022 | - | 0.692 | 0.713 |
| 2348 | - | 0.022 | - | 0.692 | 0.713 |
| 2349 | - | 0.022 | - | 0.692 | 0.713 |
| 2350 | _ | 0.021 | - | 0.692 | 0.713 |
| 2351 | _ | 0.021 | - | 0.692 | 0.713 |
| 2352 | - | 0.021 | - | 0.692 | 0.714 |
| 2353 | _ | 0.021 | _ | 0.692 | 0.714 |
| 2354 | _ | 0.021 | _ | 0.692 | 0.714 |
| 2355 | | 0.021 | | 0.692 | 0.714 |
| 2356 | | 0.021 | | 0.692 | 0.714 |
| 2357 | _ | 0.021 | - | 0.692 | 0.714 |
| 2358 | - | 0.021 | - | 0.692 | 0.714 |
| 2359 | - | 0.021 | - | 0.692 | 0.714 |
| 2359 | - | 0.021 | - | 0.692 | 0.714 |
| | - | | - | | |
| 2361 | - | 0.021 | - | 0.692 | 0.714 |
| 2362 | - | 0.021 | - | 0.692 | 0.713 |
| 2363 | - | 0.021 | - | 0.692 | 0.713 |
| 2364 | - | 0.021 | - | 0.692 | 0.713 |
| 2365 | - | 0.021 | - | 0.692 | 0.713 |
| 2366 | - | 0.021 | - | 0.692 | 0.713 |
| 2367 | _ | 0.021 | - | 0.692 | 0.713 |
| 2368 | _ | 0.021 | - | 0.692 | 0.713 |
| 2369 | - | 0.021 | - | 0.692 | 0.713 |
| 2370 | _ | 0.021 | - | 0.692 | 0.713 |
| 2371 | - | 0.021 | - | 0.692 | 0.713 |
| 2372 | - | 0.021 | - | 0.691 | 0.712 |
| 2373 | _ | 0.021 | _ | 0.691 | 0.712 |
| 2374 | _ | 0.021 | _ | 0.691 | 0.712 |
| 2375 | _ | 0.021 | _ | 0.691 | 0.712 |
| 2375 | | 0.021 | | 0.691 | 0.712 |
| 2376 | _ | 0.021 | | 0.691 | 0.712 |
| 2377 | - | 0.021 | - | 0.691 | 0.712 |
| | - | | - | | |
| 2379 | - | 0.021 | - | 0.690 | 0.711 |
| 2380 | - | 0.021 | - | 0.690 | 0.711 |
| 2381 | - | 0.021 | - | 0.690 | 0.711 |
| 2382 | - | 0.021 | - | 0.690 | 0.710 |
| 2383 | - | 0.021 | - | 0.689 | 0.710 |
| 2384 | - | 0.021 | - | 0.689 | 0.710 |
| | | | | | |

| 2385 | - | 0.021 | - | 0.689 | 0.710 |
|------|-----|-------|----------|-------|-------|
| 2386 | _ | 0.021 | - | 0.689 | 0.709 |
| 2387 | _ | 0.021 | _ | 0.689 | 0.709 |
| 2388 | _ | 0.021 | - | 0.688 | 0.709 |
| 2389 | - | 0.021 | - | 0.688 | 0.709 |
| | - | | - | | |
| 2390 | - | 0.021 | - | 0.688 | 0.708 |
| 2391 | - | 0.020 | - | 0.687 | 0.708 |
| 2392 | - | 0.020 | - | 0.687 | 0.708 |
| 2393 | - | 0.020 | - | 0.687 | 0.707 |
| 2394 | - | 0.020 | - | 0.687 | 0.707 |
| 2395 | _ | 0.020 | - | 0.686 | 0.707 |
| 2396 | _ | 0.020 | - | 0.686 | 0.706 |
| 2397 | _ | 0.020 | _ | 0.686 | 0.706 |
| 2398 | _ | 0.020 | _ | 0.685 | 0.706 |
| 2399 | _ | 0.020 | - | 0.685 | 0.705 |
| | - | | - | | |
| 2400 | - | 0.020 | - | 0.684 | 0.705 |
| 2401 | - | 0.020 | - | 0.684 | 0.704 |
| 2402 | - | 0.020 | - | 0.684 | 0.704 |
| 2403 | - | 0.020 | - | 0.683 | 0.704 |
| 2404 | - | 0.020 | - | 0.683 | 0.703 |
| 2405 | _ | 0.020 | - | 0.683 | 0.703 |
| 2406 | _ | 0.020 | - | 0.682 | 0.702 |
| 2407 | _ | 0.020 | _ | 0.682 | 0.702 |
| 2408 | _ | 0.020 | _ | 0.681 | 0.702 |
| 2409 | | 0.020 | _ | 0.681 | 0.701 |
| 2403 | - | 0.020 | - | 0.681 | 0.701 |
| | - | | - | | |
| 2411 | - | 0.020 | - | 0.680 | 0.700 |
| 2412 | - | 0.020 | - | 0.680 | 0.700 |
| 2413 | - | 0.020 | - | 0.679 | 0.699 |
| 2414 | - | 0.020 | - | 0.679 | 0.699 |
| 2415 | - | 0.020 | - | 0.678 | 0.698 |
| 2416 | - | 0.020 | - | 0.678 | 0.698 |
| 2417 | _ | 0.020 | - | 0.678 | 0.697 |
| 2418 | _ | 0.020 | - | 0.677 | 0.697 |
| 2419 | _ | 0.020 | _ | 0.677 | 0.696 |
| 2420 | _ | 0.020 | _ | 0.676 | 0.696 |
| 2420 | | 0.020 | | 0.676 | 0.695 |
| | - | | - | | 0.695 |
| 2422 | - | 0.020 | - | 0.675 | |
| 2423 | - | 0.020 | - | 0.675 | 0.694 |
| 2424 | - | 0.020 | - | 0.674 | 0.694 |
| 2425 | - | 0.020 | - | 0.674 | 0.693 |
| 2426 | - | 0.020 | - | 0.673 | 0.693 |
| 2427 | - | 0.020 | - | 0.673 | 0.692 |
| 2428 | - | 0.020 | - | 0.672 | 0.692 |
| 2429 | _ | 0.020 | - | 0.672 | 0.691 |
| 2430 | _ | 0.020 | - | 0.671 | 0.691 |
| 2431 | _ | 0.020 | <u> </u> | 0.671 | 0.690 |
| 2432 | _ | 0.020 | _ | 0.670 | 0.689 |
| 2432 | | 0.020 | _ | 0.669 | 0.689 |
| | - | | | 0.669 | |
| 2434 | - | 0.019 | - | | 0.688 |
| 2435 | - | 0.019 | - | 0.668 | 0.688 |
| 2436 | - | 0.019 | - | 0.668 | 0.687 |
| 2437 | - | 0.019 | - | 0.667 | 0.687 |
| 2438 | - | 0.019 | - | 0.667 | 0.686 |
| 2439 | - | 0.019 | - | 0.666 | 0.685 |
| - | - ' | - | - | - | - |

| 2440 | - | 0.019 | - | 0.666 | 0.685 |
|------|---|-------|---|-------|-------|
| 2441 | - | 0.019 | - | 0.665 | 0.684 |
| 2442 | - | 0.019 | - | 0.664 | 0.684 |
| 2443 | _ | 0.019 | - | 0.664 | 0.683 |
| 2444 | - | 0.019 | - | 0.663 | 0.683 |
| 2445 | - | 0.019 | - | 0.663 | 0.682 |
| 2446 | - | 0.019 | - | 0.662 | 0.681 |
| 2447 | - | 0.019 | - | 0.662 | 0.681 |
| 2448 | - | 0.019 | - | 0.661 | 0.680 |
| 2449 | _ | 0.019 | - | 0.660 | 0.680 |
| 2450 | - | 0.019 | - | 0.660 | 0.679 |
| 2451 | - | 0.019 | - | 0.659 | 0.678 |
| 2452 | - | 0.019 | - | 0.659 | 0.678 |
| 2453 | - | 0.019 | - | 0.658 | 0.677 |
| 2454 | - | 0.019 | - | 0.657 | 0.676 |
| 2455 | - | 0.019 | - | 0.657 | 0.676 |
| 2456 | - | 0.019 | - | 0.656 | 0.675 |
| 2457 | - | 0.019 | - | 0.656 | 0.675 |
| 2458 | - | 0.019 | - | 0.655 | 0.674 |
| 2459 | - | 0.019 | - | 0.654 | 0.673 |
| 2460 | - | 0.019 | - | 0.654 | 0.673 |
| 2461 | - | 0.019 | - | 0.653 | 0.672 |
| 2462 | - | 0.019 | - | 0.653 | 0.671 |
| 2463 | - | 0.019 | - | 0.652 | 0.671 |
| 2464 | _ | 0.019 | - | 0.651 | 0.670 |
| 2465 | - | 0.019 | - | 0.651 | 0.669 |
| 2466 | | 0.019 | - | 0.650 | 0.669 |
| 2467 | - | 0.019 | - | 0.649 | 0.668 |
| 2468 | - | 0.019 | - | 0.649 | 0.667 |
| 2469 | - | 0.019 | - | 0.648 | 0.667 |
| 2470 | - | 0.019 | - | 0.647 | 0.666 |
| 2471 | - | 0.019 | - | 0.647 | 0.665 |
| 2472 | - | 0.019 | - | 0.646 | 0.665 |
| 2473 | - | 0.019 | - | 0.645 | 0.664 |
| 2474 | - | 0.019 | - | 0.645 | 0.663 |
| 2475 | - | 0.019 | - | 0.644 | 0.663 |
| 2476 | - | 0.019 | - | 0.644 | 0.662 |
| 2477 | _ | 0.018 | - | 0.643 | 0.661 |
| 2478 | _ | 0.018 | - | 0.642 | 0.661 |
| 2479 | - | 0.018 | - | 0.642 | 0.660 |
| 2480 | | 0.018 | - | 0.641 | 0.659 |
| 2481 | - | 0.018 | - | 0.640 | 0.659 |
| 2482 | - | 0.018 | - | 0.640 | 0.658 |
| 2483 | _ | 0.018 | - | 0.639 | 0.657 |
| 2484 | - | 0.018 | - | 0.638 | 0.657 |
| 2485 | - | 0.018 | - | 0.638 | 0.656 |
| 2486 | - | 0.018 | - | 0.637 | 0.655 |
| 2487 | - | 0.018 | - | 0.636 | 0.655 |
| 2488 | _ | 0.018 | - | 0.636 | 0.654 |
| 2489 | _ | 0.018 | - | 0.635 | 0.653 |
| 2490 | - | 0.018 | - | 0.634 | 0.653 |
| 2491 | _ | 0.018 | - | 0.634 | 0.652 |
| 2492 | _ | 0.018 | - | 0.633 | 0.651 |
| 2493 | - | 0.018 | - | 0.632 | 0.650 |
| 2494 | _ | 0.018 | - | 0.632 | 0.650 |

| _ | _ | | | | _ |
|--------------|----|-------|---|-------|----------------|
| 2495 | - | 0.018 | - | 0.631 | 0.649 |
| 2496 | - | 0.018 | - | 0.630 | 0.648 |
| 2497 | _, | 0.018 | - | 0.630 | 0.648 |
| 2498 | - | 0.018 | - | 0.629 | 0.647 |
| 2499 | - | 0.018 | - | 0.628 | 0.646 |
| 2500 | - | 0.018 | - | 0.628 | 0.646 |
| 2501 | _ | 0.018 | _ | 0.627 | 0.645 |
| 2502 | _ | 0.018 | _ | 0.626 | 0.644 |
| 2503 | | 0.018 | | 0.626 | 0.643 |
| 2503 | - | 0.018 | - | 0.625 | 0.643 |
| 2504 2505 | - | 0.018 | - | 0.623 | 0.642 |
| 2505 2506 | - | | - | | 0.642 |
| | - | 0.018 | - | 0.624 | |
| 2507 | - | 0.018 | - | 0.623 | 0.641 |
| 2508 | - | 0.018 | - | 0.622 | 0.640 |
| 2509 | - | 0.018 | - | 0.622 | 0.639 |
| 2510 | - | 0.018 | - | 0.621 | 0.639 |
| 2511 | - | 0.018 | - | 0.620 | 0.638 |
| 2512 | - | 0.018 | - | 0.619 | 0.637 |
| 2513 | - | 0.018 | - | 0.619 | 0.636 |
| 2514 | - | 0.018 | - | 0.618 | 0.636 |
| 2515 | _ | 0.018 | - | 0.617 | 0.635 |
| 2516 | - | 0.018 | - | 0.617 | 0.634 |
| 2517 | - | 0.018 | - | 0.616 | 0.634 |
| 2518 | | 0.018 | _ | 0.615 | 0.633 |
| 2519 | _ | 0.018 | _ | 0.615 | 0.632 |
| 2520 | | 0.018 | | 0.614 | 0.632 |
| 2521 | | 0.018 | | 0.613 | 0.631 |
| 2521 | - | 0.018 | - | 0.613 | 0.630 |
| 2522 | - | 0.018 | - | 0.612 | 0.629 |
| 2525 2524 | - | 0.017 | - | | |
| 2524 2525 | - | | - | 0.611 | 0.629 0.628 |
| | - | 0.017 | - | 0.611 | |
| 2526 | - | 0.017 | - | 0.610 | 0.627 |
| 2527 | - | 0.017 | - | 0.609 | 0.627 |
| 2528 | - | 0.017 | - | 0.608 | 0.626 |
| 2529 | - | 0.017 | - | 0.608 | 0.625 |
| 2530 | - | 0.017 | - | 0.607 | 0.624 |
| 2531 | - | 0.017 | - | 0.606 | 0.624 |
| 2532 | - | 0.017 | - | 0.606 | 0.623 |
| 2533 | - | 0.017 | - | 0.605 | 0.622 |
| 2534 | - | 0.017 | - | 0.604 | 0.622 |
| 2535 | - | 0.017 | - | 0.604 | 0.621 |
| 2536 | - | 0.017 | - | 0.603 | 0.620 |
| 2537 | - | 0.017 | - | 0.602 | 0.619 |
| 2538 | _ | 0.017 | _ | 0.602 | 0.619 |
| 2539 | _ | 0.017 | _ | 0.601 | 0.618 |
| 2533 | _ | 0.017 | _ | 0.600 | 0.617 |
| 2540 | | 0.017 | | 0.599 | 0.617 |
| 2541 | | 0.017 | | 0.599 | 0.616 |
| 2542 | | 0.017 | | 0.598 | 0.615 |
| 2545 | - | | - | | |
| | - | 0.017 | - | 0.597 | 0.615 |
| 2545 2546 | - | 0.017 | - | 0.597 | 0.614 |
| 2546 2547 | - | 0.017 | - | 0.596 | 0.613 |
| 2547 | - | 0.017 | - | 0.595 | 0.612 |
| 2548 | - | 0.017 | - | 0.595 | 0.612 |
| 2549 | - | 0.017 | - | 0.594 | 0.611 |
| | | | | | |

| 2550 | - | 0.017 | - | 0.593 | 0.610 |
|--------------|---|-------|---|-------|-------|
| 2551 | _ | 0.017 | _ | 0.593 | 0.610 |
| 2552 | | 0.017 | | 0.592 | 0.609 |
| 2553 | - | | - | 0.591 | |
| | - | 0.017 | - | | 0.608 |
| 2554 | - | 0.017 | - | 0.591 | 0.607 |
| 2555 | - | 0.017 | - | 0.590 | 0.607 |
| 2556 | - | 0.017 | - | 0.589 | 0.606 |
| 2557 | - | 0.017 | - | 0.588 | 0.605 |
| 2558 | | 0.017 | - | 0.588 | 0.605 |
| 2559 | _ | 0.017 | _ | 0.587 | 0.604 |
| 2560 | | 0.017 | | 0.586 | 0.603 |
| 2561 | _ | 0.017 | - | 0.586 | 0.602 |
| 2562 | - | | - | | 0.602 |
| | - | 0.017 | - | 0.585 | |
| 2563 | - | 0.017 | - | 0.584 | 0.601 |
| 2564 | - | 0.017 | - | 0.584 | 0.600 |
| 2565 | - | 0.017 | - | 0.583 | 0.600 |
| 2566 | - | 0.017 | - | 0.582 | 0.599 |
| 2567 | _ | 0.017 | - | 0.582 | 0.598 |
| 2568 | _ | 0.017 | - | 0.581 | 0.598 |
| 2569 | | 0.017 | _ | 0.580 | 0.597 |
| 2570 | | 0.017 | | 0.580 | 0.596 |
| | - | | - | | 0.595 |
| 2571 | - | 0.017 | - | 0.579 | |
| 2572 | - | 0.016 | - | 0.578 | 0.595 |
| 2573 | - | 0.016 | - | 0.578 | 0.594 |
| 2574 | - | 0.016 | - | 0.577 | 0.593 |
| 2575 | | 0.016 | - | 0.576 | 0.593 |
| 2576 | - | 0.016 | - | 0.576 | 0.592 |
| 2577 | _ | 0.016 | - | 0.575 | 0.591 |
| 2578 | | 0.016 | - | 0.574 | 0.591 |
| 2579 | _ | 0.016 | _ | 0.573 | 0.590 |
| 2580 | _ | 0.016 | _ | 0.573 | 0.589 |
| 2581 | _ | 0.016 | - | 0.572 | 0.588 |
| | - | | - | | |
| 2582 | - | 0.016 | - | 0.571 | 0.588 |
| 2583 | - | 0.016 | - | 0.571 | 0.587 |
| 2584 | - | 0.016 | - | 0.570 | 0.586 |
| 2585 | - | 0.016 | - | 0.569 | 0.586 |
| 2586 | | 0.016 | - | 0.569 | 0.585 |
| 2587 | | 0.016 | - | 0.568 | 0.584 |
| 2588 | _ | 0.016 | _ | 0.567 | 0.584 |
| 2589 | | 0.016 | _ | 0.567 | 0.583 |
| 2590 | _ | 0.016 | _ | 0.566 | 0.582 |
| 2591 | | 0.016 | _ | 0.565 | 0.581 |
| 2592 | _ | 0.016 | - | 0.565 | 0.581 |
| | - | | - | | |
| 2593 | - | 0.016 | - | 0.564 | 0.580 |
| 2594 | - | 0.016 | - | 0.563 | 0.579 |
| 2595 | - | 0.016 | - | 0.563 | 0.579 |
| 2596 | - | 0.016 | - | 0.562 | 0.578 |
| 2597 | - | 0.016 | - | 0.561 | 0.577 |
| 2598 | _ | 0.016 | - | 0.561 | 0.577 |
| 2599 | _ | 0.016 | _ | 0.560 | 0.576 |
| 2600 | _ | 0.016 | _ | 0.559 | 0.575 |
| 2601 | | 0.016 | | 0.559 | 0.574 |
| 2602 | _ | 0.016 | - | 0.558 | |
| | - | | - | | 0.574 |
| 2603 2004 | | 0.016 | - | 0.557 | 0.573 |
| 2604 | - | 0.016 | - | 0.557 | 0.572 |

| 2605 | - | 0.016 | - | 0.556 | 0.572 |
|------|---|-------|---|-------|-------|
| 2606 | - | 0.016 | - | 0.555 | 0.571 |
| 2607 | - | 0.016 | - | 0.555 | 0.570 |
| 2608 | | 0.016 | - | 0.554 | 0.570 |
| 2609 | _ | 0.016 | - | 0.553 | 0.569 |
| 2610 | _ | 0.016 | - | 0.553 | 0.568 |
| 2611 | _ | 0.016 | _ | 0.552 | 0.568 |
| 2612 | | 0.016 | _ | 0.551 | 0.567 |
| | - | | - | | 0.566 |
| 2613 | - | 0.016 | - | 0.551 | |
| 2614 | - | 0.016 | - | 0.550 | 0.566 |
| 2615 | - | 0.016 | - | 0.549 | 0.565 |
| 2616 | - | 0.016 | - | 0.549 | 0.564 |
| 2617 | - | 0.016 | - | 0.548 | 0.564 |
| 2618 | - | 0.016 | - | 0.547 | 0.563 |
| 2619 | - | 0.016 | - | 0.547 | 0.562 |
| 2620 | - | 0.016 | - | 0.546 | 0.562 |
| 2621 | - | 0.016 | - | 0.545 | 0.561 |
| 2622 | | 0.016 | - | 0.545 | 0.560 |
| 2623 | _ | 0.016 | - | 0.544 | 0.560 |
| 2624 | _ | 0.015 | - | 0.543 | 0.559 |
| 2625 | _ | 0.015 | _ | 0.543 | 0.558 |
| 2626 | _ | 0.015 | _ | 0.542 | 0.558 |
| 2627 | | 0.015 | | 0.541 | 0.557 |
| 2628 | - | 0.015 | - | 0.541 | 0.556 |
| 2629 | - | 0.015 | - | 0.540 | 0.555 |
| 2630 | - | 0.015 | - | 0.539 | 0.555 |
| | - | | - | | |
| 2631 | - | 0.015 | - | 0.539 | 0.554 |
| 2632 | - | 0.015 | - | 0.538 | 0.553 |
| 2633 | - | 0.015 | - | 0.537 | 0.553 |
| 2634 | - | 0.015 | - | 0.537 | 0.552 |
| 2635 | - | 0.015 | - | 0.536 | 0.551 |
| 2636 | - | 0.015 | - | 0.535 | 0.551 |
| 2637 | - | 0.015 | - | 0.535 | 0.550 |
| 2638 | - | 0.015 | - | 0.534 | 0.549 |
| 2639 | _ | 0.015 | - | 0.534 | 0.549 |
| 2640 | _ | 0.015 | - | 0.533 | 0.548 |
| 2641 | _ | 0.015 | - | 0.532 | 0.547 |
| 2642 | _ | 0.015 | _ | 0.532 | 0.547 |
| 2643 | _ | 0.015 | _ | 0.531 | 0.546 |
| 2644 | | 0.015 | _ | 0.530 | 0.545 |
| 2645 | _ | 0.015 | _ | 0.530 | 0.545 |
| 2646 | - | 0.015 | - | 0.529 | 0.544 |
| 2640 | - | 0.015 | - | 0.528 | 0.543 |
| | - | | - | | |
| 2648 | - | 0.015 | - | 0.528 | 0.543 |
| 2649 | - | 0.015 | - | 0.527 | 0.542 |
| 2650 | - | 0.015 | - | 0.526 | 0.541 |
| 2651 | - | 0.015 | - | 0.526 | 0.541 |
| 2652 | - | 0.015 | - | 0.525 | 0.540 |
| 2653 | - | 0.015 | - | 0.525 | 0.539 |
| 2654 | - | 0.015 | - | 0.524 | 0.539 |
| 2655 | - | 0.015 | - | 0.523 | 0.538 |
| 2656 | - | 0.015 | - | 0.523 | 0.538 |
| 2657 | - | 0.015 | - | 0.522 | 0.537 |
| 2658 | _ | 0.015 | - | 0.521 | 0.536 |
| 2659 | _ | 0.015 | - | 0.521 | 0.536 |
| • | | • | • | | • |

| | _ | | _ | _ | _ |
|------|---|-------|---|-------|-------|
| 2660 | - | 0.015 | - | 0.520 | 0.535 |
| 2661 | _ | 0.015 | - | 0.519 | 0.534 |
| 2662 | _ | 0.015 | _ | 0.519 | 0.534 |
| 2663 | | 0.015 | | 0.518 | 0.533 |
| | - | 0.015 | - | 0.518 | 0.532 |
| 2664 | - | | - | | |
| 2665 | - | 0.015 | - | 0.517 | 0.532 |
| 2666 | - | 0.015 | - | 0.516 | 0.531 |
| 2667 | - | 0.015 | - | 0.516 | 0.530 |
| 2668 | - | 0.015 | - | 0.515 | 0.530 |
| 2669 | - | 0.015 | - | 0.514 | 0.529 |
| 2670 | _ | 0.015 | _ | 0.514 | 0.528 |
| 2671 | _ | 0.015 | _ | 0.513 | 0.528 |
| 2672 | | 0.015 | | 0.513 | 0.527 |
| 2673 | - | 0.015 | - | 0.513 | 0.527 |
| | - | | - | | |
| 2674 | - | 0.015 | - | 0.511 | 0.526 |
| 2675 | - | 0.015 | - | 0.511 | 0.525 |
| 2676 | - | 0.015 | - | 0.510 | 0.525 |
| 2677 | - | 0.015 | - | 0.509 | 0.524 |
| 2678 | - | 0.015 | - | 0.509 | 0.523 |
| 2679 | - | 0.015 | - | 0.508 | 0.523 |
| 2680 | _ | 0.014 | _ | 0.508 | 0.522 |
| 2681 | | 0.014 | _ | 0.507 | 0.521 |
| 2682 | - | | - | 0.506 | 0.521 |
| | - | 0.014 | - | | |
| 2683 | - | 0.014 | - | 0.506 | 0.520 |
| 2684 | - | 0.014 | - | 0.505 | 0.520 |
| 2685 | - | 0.014 | - | 0.504 | 0.519 |
| 2686 | - | 0.014 | - | 0.504 | 0.518 |
| 2687 | - | 0.014 | - | 0.503 | 0.518 |
| 2688 | - | 0.014 | - | 0.503 | 0.517 |
| 2689 | _ | 0.014 | _ | 0.502 | 0.516 |
| 2690 | _ | 0.014 | _ | 0.501 | 0.516 |
| 2691 | | 0.014 | | 0.501 | 0.515 |
| | - | | - | | |
| 2692 | - | 0.014 | - | 0.500 | 0.514 |
| 2693 | - | 0.014 | - | 0.500 | 0.514 |
| 2694 | - | 0.014 | - | 0.499 | 0.513 |
| 2695 | - | 0.014 | - | 0.498 | 0.513 |
| 2696 | - | 0.014 | - | 0.498 | 0.512 |
| 2697 | _ | 0.014 | - | 0.497 | 0.511 |
| 2698 | _ | 0.014 | - | 0.497 | 0.511 |
| 2699 | _ | 0.014 | _ | 0.496 | 0.510 |
| 2700 | _ | 0.014 | _ | 0.495 | 0.509 |
| 2700 | - | 0.014 | | 0.495 | 0.509 |
| | - | | - | | |
| 2702 | - | 0.014 | - | 0.494 | 0.508 |
| 2703 | - | 0.014 | - | 0.494 | 0.508 |
| 2704 | - | 0.014 | - | 0.493 | 0.507 |
| 2705 | - | 0.014 | - | 0.492 | 0.506 |
| 2706 | - | 0.014 | - | 0.492 | 0.506 |
| 2707 | - | 0.014 | - | 0.491 | 0.505 |
| 2708 | _ | 0.014 | - | 0.491 | 0.505 |
| 2709 | _ | 0.014 | _ | 0.490 | 0.504 |
| 2710 | | 0.014 | | 0.489 | 0.503 |
| 2710 | - | | - | 0.489 | 0.503 |
| | - | 0.014 | - | | |
| 2712 | - | 0.014 | - | 0.488 | 0.502 |
| 2713 | - | 0.014 | - | 0.487 | 0.501 |
| 2714 | - | 0.014 | - | 0.487 | 0.501 |

| 2715 | _ | 0.014 | - | 0.486 | 0.500 |
|------|---|----------------|---|----------------|-------|
| 2716 | - | 0.014 | - | 0.486 | 0.500 |
| 2717 | _ | 0.014 | - | 0.485 | 0.499 |
| 2718 | _ | 0.014 | - | 0.485 | 0.498 |
| 2719 | - | 0.014 | - | 0.484 | 0.498 |
| 2720 | | 0.014 | - | 0.483 | 0.497 |
| 2721 | _ | 0.014 | - | 0.483 | 0.497 |
| 2722 | | 0.014 | - | 0.482 | 0.496 |
| 2723 | _ | 0.014 | _ | 0.482 | 0.495 |
| 2724 | | 0.014 | _ | 0.481 | 0.495 |
| 2725 | _ | 0.014 | | 0.480 | 0.494 |
| 2726 | | 0.014 | _ | 0.480 | 0.494 |
| 2727 | _ | 0.014 | | 0.479 | 0.493 |
| 2728 | | 0.014 | - | 0.479 | 0.492 |
| 2729 | _ | 0.014 | - | 0.478 | 0.492 |
| 2729 | - | 0.014 | - | 0.478 | 0.492 |
| 2730 | - | 0.014 | - | 0.477 | 0.491 |
| 2731 | - | 0.014 | - | 0.477 | 0.491 |
| 2732 | - | | - | | 0.490 |
| 2733 | - | 0.014 0.014 | - | 0.476 0.475 | 0.489 |
| | - | | - | | |
| 2735 | - | 0.014 | - | 0.475 | 0.488 |
| 2736 | - | 0.014 | - | 0.474 | 0.488 |
| 2737 | - | 0.014 | - | 0.473 | 0.487 |
| 2738 | - | 0.014 | - | 0.473 | 0.486 |
| 2739 | - | 0.014 | - | 0.472 | 0.486 |
| 2740 | - | 0.013 | - | 0.472 | 0.485 |
| 2741 | - | 0.013 | - | 0.471 | 0.485 |
| 2742 | - | 0.013 | - | 0.471 | 0.484 |
| 2743 | - | 0.013 | - | 0.470 | 0.483 |
| 2744 | - | 0.013 | - | 0.469 | 0.483 |
| 2745 | - | 0.013 | - | 0.469 | 0.482 |
| 2746 | _ | 0.013 | - | 0.468 | 0.482 |
| 2747 | - | 0.013 | - | 0.468 | 0.481 |
| 2748 | _ | 0.013 | - | 0.467 | 0.481 |
| 2749 | - | 0.013 | - | 0.467 | 0.480 |
| 2750 | - | 0.013 | - | 0.466 | 0.479 |
| 2751 | - | 0.013 | - | 0.465 | 0.479 |
| 2752 | _ | 0.013 | - | 0.465 | 0.478 |
| 2753 | _ | 0.013 | - | 0.464 | 0.478 |
| 2754 | _ | 0.013 | - | 0.464 | 0.477 |
| 2755 | - | 0.013 | - | 0.463 | 0.476 |
| 2756 | _ | 0.013 | - | 0.463 | 0.476 |
| 2757 | _ | 0.013 | - | 0.462 | 0.475 |
| 2758 | - | 0.013 | - | 0.461 | 0.475 |
| 2759 | - | 0.013 | - | 0.461 | 0.474 |
| 2760 | - | 0.013 | - | 0.460 | 0.474 |
| 2761 | _ | 0.013 | - | 0.460 | 0.473 |
| 2762 | - | 0.013 | - | 0.459 | 0.472 |
| 2763 | | 0.013 | - | 0.459 | 0.472 |
| 2764 | _ | 0.013 | - | 0.458 | 0.471 |
| 2765 | _ | 0.013 | - | 0.457 | 0.471 |
| 2766 | _ | 0.013 | - | 0.457 | 0.470 |
| 2767 | | 0.013 | - | 0.456 | 0.469 |
| 2768 | _ | 0.013 | _ | 0.456 | 0.469 |
| 2769 | _ | 0.013 | _ | 0.455 | 0.468 |
| | | 0.010 | | Sana Dhansar | |

| | _ | _ | _ | | _ |
|------|---|-------|---|-------|-------|
| 2770 | - | 0.013 | - | 0.455 | 0.468 |
| 2771 | - | 0.013 | - | 0.454 | 0.467 |
| 2772 | - | 0.013 | - | 0.454 | 0.467 |
| 2773 | - | 0.013 | - | 0.453 | 0.466 |
| 2774 | - | 0.013 | - | 0.452 | 0.465 |
| 2775 | - | 0.013 | - | 0.452 | 0.465 |
| 2776 | - | 0.013 | - | 0.451 | 0.464 |
| 2777 | - | 0.013 | - | 0.451 | 0.464 |
| 2778 | - | 0.013 | - | 0.450 | 0.463 |
| 2779 | - | 0.013 | - | 0.450 | 0.463 |
| 2780 | - | 0.013 | - | 0.449 | 0.462 |
| 2781 | - | 0.013 | - | 0.449 | 0.462 |
| 2782 | - | 0.013 | - | 0.448 | 0.461 |
| 2783 | - | 0.013 | - | 0.448 | 0.460 |
| 2784 | - | 0.013 | - | 0.447 | 0.460 |
| 2785 | - | 0.013 | - | 0.446 | 0.459 |
| 2786 | - | 0.013 | - | 0.446 | 0.459 |
| 2787 | - | 0.013 | - | 0.445 | 0.458 |
| 2788 | - | 0.013 | - | 0.445 | 0.458 |
| 2789 | - | 0.013 | - | 0.444 | 0.457 |
| 2790 | - | 0.013 | - | 0.444 | 0.456 |
| 2791 | - | 0.013 | - | 0.443 | 0.456 |
| 2792 | - | 0.013 | - | 0.443 | 0.455 |
| 2793 | - | 0.013 | - | 0.442 | 0.455 |
| 2794 | - | 0.013 | - | 0.442 | 0.454 |
| 2795 | - | 0.013 | - | 0.441 | 0.454 |
| 2796 | - | 0.013 | - | 0.441 | 0.453 |
| 2797 | - | 0.013 | - | 0.440 | 0.453 |
| 2798 | - | 0.013 | - | 0.439 | 0.452 |
| 2799 | - | 0.013 | - | 0.439 | 0.452 |
| 2800 | - | 0.013 | - | 0.438 | 0.451 |
| 2801 | - | 0.013 | - | 0.438 | 0.450 |
| 2802 | - | 0.013 | - | 0.437 | 0.450 |
| 2803 | - | 0.013 | - | 0.437 | 0.449 |
| 2804 | - | 0.013 | - | 0.436 | 0.449 |
| 2805 | - | 0.013 | - | 0.436 | 0.448 |
| 2806 | - | 0.012 | - | 0.435 | 0.448 |
| 2807 | - | 0.012 | - | 0.435 | 0.447 |
| 2808 | - | 0.012 | - | 0.434 | 0.447 |
| 2809 | - | 0.012 | - | 0.434 | 0.446 |
| 2810 | - | 0.012 | - | 0.433 | 0.446 |
| 2811 | - | 0.012 | - | 0.433 | 0.445 |
| 2812 | - | 0.012 | - | 0.432 | 0.444 |
| 2813 | - | 0.012 | - | 0.431 | 0.444 |
| 2814 | - | 0.012 | - | 0.431 | 0.443 |
| 2815 | - | 0.012 | - | 0.430 | 0.443 |
| 2816 | - | 0.012 | - | 0.430 | 0.442 |
| 2817 | - | 0.012 | - | 0.429 | 0.442 |
| 2818 | - | 0.012 | - | 0.429 | 0.441 |
| 2819 | - | 0.012 | - | 0.428 | 0.441 |
| 2820 | - | 0.012 | - | 0.428 | 0.440 |
| 2821 | - | 0.012 | - | 0.427 | 0.440 |
| 2822 | - | 0.012 | - | 0.427 | 0.439 |
| 2823 | - | 0.012 | - | 0.426 | 0.439 |
| 2824 | - | 0.012 | - | 0.426 | 0.438 |
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| 2825 | - | 0.012 | - | 0.425 | 0.437 |
|--------------|---|-------|---|-------|-------|
| 2826 | | 0.012 | - | 0.425 | 0.437 |
| 2827 | | 0.012 | | 0.424 | 0.436 |
| 2828 | - | 0.012 | - | 0.424 | 0.436 |
| 2829 | - | | - | 0.424 | 0.435 |
| | - | 0.012 | - | | |
| 2830 | - | 0.012 | - | 0.423 | 0.435 |
| 2831 | - | 0.012 | - | 0.422 | 0.434 |
| 2832 | - | 0.012 | - | 0.422 | 0.434 |
| 2833 | - | 0.012 | - | 0.421 | 0.433 |
| 2834 | - | 0.012 | - | 0.421 | 0.433 |
| 2835 | - | 0.012 | - | 0.420 | 0.432 |
| 2836 | _ | 0.012 | - | 0.420 | 0.432 |
| 2837 | | 0.012 | - | 0.419 | 0.431 |
| 2838 | _ | 0.012 | - | 0.419 | 0.431 |
| 2839 | | 0.012 | _ | 0.418 | 0.430 |
| 2840 | | 0.012 | | 0.418 | 0.430 |
| 2841 | | 0.012 | | 0.417 | 0.429 |
| 2842 | - | 0.012 | - | 0.417 | 0.429 |
| 2843 | - | 0.012 | - | 0.417 | 0.428 |
| 2045 2844 | - | 0.012 | - | | 0.426 |
| | - | | - | 0.416 | |
| 2845 | - | 0.012 | - | 0.415 | 0.427 |
| 2846 | - | 0.012 | - | 0.415 | 0.426 |
| 2847 | - | 0.012 | - | 0.414 | 0.426 |
| 2848 | - | 0.012 | - | 0.414 | 0.425 |
| 2849 | - | 0.012 | - | 0.413 | 0.425 |
| 2850 | - | 0.012 | - | 0.413 | 0.424 |
| 2851 | | 0.012 | - | 0.412 | 0.424 |
| 2852 | _ | 0.012 | - | 0.412 | 0.423 |
| 2853 | _ | 0.012 | - | 0.411 | 0.423 |
| 2854 | - | 0.012 | - | 0.411 | 0.422 |
| 2855 | _ | 0.012 | - | 0.410 | 0.422 |
| 2856 | | 0.012 | - | 0.410 | 0.421 |
| 2857 | - | 0.012 | - | 0.409 | 0.421 |
| 2858 | _ | 0.012 | - | 0.409 | 0.420 |
| 2859 | - | 0.012 | - | 0.408 | 0.420 |
| 2860 | | 0.012 | - | 0.408 | 0.419 |
| 2861 | _ | 0.012 | - | 0.407 | 0.419 |
| 2862 | | 0.012 | | 0.407 | 0.418 |
| 2863 | _ | 0.012 | | 0.406 | 0.418 |
| 2864 | - | 0.012 | | 0.406 | 0.417 |
| 2004 2865 | _ | 0.012 | - | 0.405 | 0.417 |
| 2005 2866 | - | 0.012 | - | 0.405 | 0.417 |
| 2866 2867 | - | 0.012 | - | | |
| | - | | - | 0.404 | 0.416 |
| 2868 | - | 0.012 | - | 0.404 | 0.415 |
| 2869 | - | 0.012 | - | 0.403 | 0.415 |
| 2870 | - | 0.012 | - | 0.403 | 0.414 |
| 2871 | - | 0.012 | - | 0.402 | 0.414 |
| 2872 | - | 0.012 | - | 0.402 | 0.413 |
| 2873 | - | 0.012 | - | 0.401 | 0.413 |
| 2874 | - | 0.012 | - | 0.401 | 0.412 |
| 2875 | - | 0.012 | - | 0.400 | 0.412 |
| 2876 | - | 0.012 | - | 0.400 | 0.411 |
| 2877 | - | 0.011 | - | 0.399 | 0.411 |
| 2878 | - | 0.011 | - | 0.399 | 0.410 |
| 2879 | - | 0.011 | - | 0.398 | 0.410 |
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| 2880 | _ | 0.011 | - | 0.398 | 0.409 |
|------|---|-------|---|----------------------------|----------|
| 2881 | _ | 0.011 | _ | 0.397 | 0.409 |
| 2882 | _ | 0.011 | _ | 0.397 | 0.408 |
| 2883 | | 0.011 | - | 0.396 | 0.408 |
| 2884 | - | 0.011 | - | 0.396 | 0.407 |
| | - | | - | | |
| 2885 | - | 0.011 | - | 0.395 | 0.407 |
| 2886 | - | 0.011 | - | 0.395 | 0.406 |
| 2887 | - | 0.011 | - | 0.395 | 0.406 |
| 2888 | - | 0.011 | - | 0.394 | 0.405 |
| 2889 | - | 0.011 | - | 0.394 | 0.405 |
| 2890 | - | 0.011 | - | 0.393 | 0.404 |
| 2891 | _ | 0.011 | - | 0.393 | 0.404 |
| 2892 | _ | 0.011 | _ | 0.392 | 0.403 |
| 2893 | - | 0.011 | _ | 0.392 | 0.403 |
| 2894 | _ | 0.011 | _ | 0.391 | 0.402 |
| 2895 | | 0.011 | _ | 0.391 | 0.402 |
| 2896 | - | 0.011 | - | 0.390 | 0.402 |
| 2897 | - | 0.011 | - | 0.390 | 0.401 |
| | - | | - | 0.389 | 0.401 |
| 2898 | - | 0.011 | - | | |
| 2899 | - | 0.011 | - | 0.389 | 0.400 |
| 2900 | - | 0.011 | - | 0.388 | 0.400 |
| 2901 | - | 0.011 | - | 0.388 | 0.399 |
| 2902 | - | 0.011 | - | 0.387 | 0.399 |
| 2903 | - | 0.011 | - | 0.387 | 0.398 |
| 2904 | - | 0.011 | - | 0.387 | 0.398 |
| 2905 | _ | 0.011 | - | 0.386 | 0.397 |
| 2906 | _ | 0.011 | - | 0.386 | 0.397 |
| 2907 | | 0.011 | _ | 0.385 | 0.396 |
| 2908 | | 0.011 | _ | 0.385 | 0.396 |
| 2909 | _ | 0.011 | _ | 0.384 | 0.395 |
| 2910 | - | 0.011 | _ | 0.384 | 0.395 |
| 2911 | _ | 0.011 | _ | 0.383 | 0.394 |
| 2912 | _ | 0.011 | _ | 0.383 | 0.394 |
| 2913 | - | 0.011 | _ | 0.382 | 0.393 |
| 2914 | | 0.011 | | 0.382 | 0.393 |
| 2915 | | 0.011 | _ | 0.381 | 0.392 |
| 2916 | - | 0.011 | - | 0.381 | 0.392 |
| | - | | - | | |
| 2917 | - | 0.011 | - | 0.380 | 0.391 |
| 2918 | - | 0.011 | - | 0.380 | 0.391 |
| 2919 | - | 0.011 | - | 0.380 | 0.391 |
| 2920 | - | 0.011 | - | 0.379 | 0.390 |
| 2921 | - | 0.011 | - | 0.379 | 0.390 |
| 2922 | - | 0.011 | - | 0.378 | 0.389 |
| 2923 | - | 0.011 | - | 0.378 | 0.389 |
| 2924 | - | 0.011 | - | 0.377 | 0.388 |
| 2925 | - | 0.011 | - | 0.377 | 0.388 |
| 2926 | - | 0.011 | - | 0.376 | 0.387 |
| 2927 | - | 0.011 | - | 0.376 | 0.387 |
| 2928 | - | 0.011 | - | 0.375 | 0.386 |
| 2929 | - | 0.011 | - | 0.375 | 0.386 |
| 2930 | - | 0.011 | - | 0.375 | 0.385 |
| 2931 | _ | 0.011 | _ | 0.374 | 0.385 |
| 2932 | _ | 0.011 | _ | 0.374 | 0.385 |
| 2933 | _ | 0.011 | _ | 0.373 | 0.384 |
| 2934 | _ | 0.011 | _ | 0.373 | 0.384 |
| | - | | | 501.527 P. 10 ⁴ | or other |

Douglas E. Hill, et al. 21CW3203

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|---|------|---|-------|---|-------|-------|
| 2336 - 0.011 - 0.372 0.382 2937 - 0.011 - 0.371 0.382 2939 - 0.011 - 0.371 0.381 2940 - 0.011 - 0.371 0.381 2941 - 0.011 - 0.370 0.380 2943 - 0.011 - 0.369 0.379 2944 - 0.011 - 0.368 0.379 2945 - 0.011 - 0.366 0.377 2946 - 0.011 - 0.366 0.377 2944 - 0.011 - 0.366 0.377 2944 - 0.011 - 0.366 0.377 2947 - 0.011 - 0.366 0.377 2950 - 0.011 - 0.365 0.377 2951 - 0.011 - 0.364 | 2935 | - | 0.011 | - | 0.372 | 0.383 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | _ | | _ | | |
| 2938 - 0.011 - 0.371 0.381 2940 - 0.011 - 0.370 0.381 2941 - 0.011 - 0.370 0.380 2942 - 0.011 - 0.370 0.380 2943 - 0.011 - 0.369 0.379 2944 - 0.011 - 0.368 0.379 2944 - 0.011 - 0.368 0.379 2944 - 0.011 - 0.366 0.377 2946 - 0.011 - 0.366 0.377 2948 - 0.011 - 0.366 0.377 2950 - 0.011 - 0.365 0.376 2951 - 0.011 - 0.364 0.374 2955 - 0.010 - 0.363 0.373 2958 - 0.010 - 0.361 | | | | | | |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 2941 | - | 0.011 | - | 0.370 | 0.380 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 2942 | - | 0.011 | - | 0.369 | 0.380 |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 2943 | - | 0.011 | - | 0.369 | 0.379 |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | - | 0.011 | - | 0.366 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 2950 | - | 0.011 | - | 0.366 | 0.376 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2951 | - | 0.011 | - | 0.365 | 0.376 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2952 | - | 0.011 | - | 0.365 | 0.375 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2953 | _ | 0.011 | - | 0.364 | 0.375 |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | - | 0.010 | - | 0.362 | |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 2960 | - | 0.010 | - | 0.361 | 0.372 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2961 | - | 0.010 | - | 0.361 | 0.371 |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 2962 | _ | 0.010 | - | 0.361 | 0.371 |
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| 2965 - 0.010 - 0.359 0.370 2966 - 0.010 - 0.359 0.369 2967 - 0.010 - 0.358 0.369 2968 - 0.010 - 0.358 0.368 2969 - 0.010 - 0.358 0.368 2970 - 0.010 - 0.357 0.367 2971 - 0.010 - 0.356 0.367 2972 - 0.010 - 0.356 0.367 2973 - 0.010 - 0.355 0.366 2974 - 0.010 - 0.355 0.365 2975 - 0.010 - 0.355 0.364 2978 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.363 2980 - 0.010 - 0.352 | | | | | | |
| 2966 - 0.010 - 0.359 0.369 2967 - 0.010 - 0.358 0.369 2968 - 0.010 - 0.358 0.368 2969 - 0.010 - 0.353 0.368 2970 - 0.010 - 0.357 0.367 2971 - 0.010 - 0.357 0.367 2972 - 0.010 - 0.356 0.366 2973 - 0.010 - 0.355 0.366 2974 - 0.010 - 0.355 0.366 2975 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.354 0.364 2973 - 0.010 - 0.353 0.364 2973 - 0.010 - 0.353 0.363 2980 - 0.010 - 0.352 | | - | | - | | |
| 2967 - 0.010 - 0.358 0.369 2968 - 0.010 - 0.358 0.368 2969 - 0.010 - 0.358 0.368 2970 - 0.010 - 0.357 0.367 2971 - 0.010 - 0.357 0.367 2972 - 0.010 - 0.356 0.367 2973 - 0.010 - 0.356 0.366 2974 - 0.010 - 0.355 0.366 2975 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.363 2980 - 0.010 - 0.352 0.363 2981 - 0.010 - 0.352 | | - | | - | | |
| 2968 - 0.010 - 0.358 0.368 2969 - 0.010 - 0.358 0.368 2970 - 0.010 - 0.357 0.367 2971 - 0.010 - 0.357 0.367 2972 - 0.010 - 0.356 0.367 2973 - 0.010 - 0.356 0.366 2974 - 0.010 - 0.355 0.366 2975 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.355 0.365 2977 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.363 2980 - 0.010 - 0.352 0.363 2981 - 0.010 - 0.352 | | - | | - | | |
| 2969 - 0.010 - 0.358 0.368 2970 - 0.010 - 0.357 0.367 2971 - 0.010 - 0.357 0.367 2972 - 0.010 - 0.356 0.367 2973 - 0.010 - 0.356 0.366 2974 - 0.010 - 0.355 0.366 2975 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.355 0.365 2977 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.363 2980 - 0.010 - 0.352 0.363 2981 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.351 | | - | | - | | |
| 2970 - 0.010 - 0.357 0.367 2971 - 0.010 - 0.357 0.367 2972 - 0.010 - 0.356 0.367 2973 - 0.010 - 0.356 0.366 2974 - 0.010 - 0.355 0.366 2975 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.355 0.365 2977 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.363 2980 - 0.010 - 0.352 0.363 2981 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.351 0.361 2984 - 0.010 - 0.350 | | - | | - | | |
| 2971 - 0.010 - 0.357 0.367 2972 - 0.010 - 0.356 0.367 2973 - 0.010 - 0.356 0.366 2974 - 0.010 - 0.355 0.366 2975 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.355 0.365 2977 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.363 2980 - 0.010 - 0.353 0.363 2981 - 0.010 - 0.352 0.363 2982 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.351 0.361 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.350 0.360 | | - | 0.010 | - | 0.358 | |
| 2972 - 0.010 - 0.356 0.367 2973 - 0.010 - 0.356 0.366 2974 - 0.010 - 0.355 0.366 2975 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.363 2980 - 0.010 - 0.352 0.363 2981 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.351 0.361 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.350 | 2970 | - | 0.010 | - | 0.357 | 0.367 |
| 2973 - 0.010 - 0.356 0.366 2974 - 0.010 - 0.355 0.366 2975 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.355 0.365 2977 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.363 2980 - 0.010 - 0.352 0.363 2981 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.350 0.360 2986 - 0.010 - 0.350 | 2971 | - | 0.010 | - | 0.357 | 0.367 |
| 2973 - 0.010 - 0.356 0.366 2974 - 0.010 - 0.355 0.366 2975 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.355 0.365 2977 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.363 2980 - 0.010 - 0.352 0.363 2981 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.350 0.360 2986 - 0.010 - 0.350 | 2972 | _ | 0.010 | - | 0.356 | 0.367 |
| 2974 - 0.010 - 0.355 0.366 2975 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.355 0.365 2977 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.354 0.364 2979 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.363 2980 - 0.010 - 0.352 0.363 2981 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.350 0.360 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 | | _ | | _ | | |
| 2975 - 0.010 - 0.355 0.365 2976 - 0.010 - 0.355 0.365 2977 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.354 0.364 2979 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.364 2980 - 0.010 - 0.353 0.363 2981 - 0.010 - 0.352 0.363 2982 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.350 0.360 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 | | _ | | | | |
| 2976 - 0.010 - 0.355 0.365 2977 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.354 0.364 2979 - 0.010 - 0.353 0.364 2980 - 0.010 - 0.353 0.363 2981 - 0.010 - 0.352 0.363 2982 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.351 0.361 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 | | - | | - | | |
| 2977 - 0.010 - 0.354 0.364 2978 - 0.010 - 0.354 0.364 2979 - 0.010 - 0.353 0.364 2979 - 0.010 - 0.353 0.364 2980 - 0.010 - 0.353 0.363 2981 - 0.010 - 0.352 0.363 2982 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.351 0.361 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | | - | | - | | |
| 2978 - 0.010 - 0.354 0.364 2979 - 0.010 - 0.353 0.364 2980 - 0.010 - 0.353 0.363 2981 - 0.010 - 0.352 0.363 2982 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.351 0.361 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | | - | | - | | |
| 2979 - 0.010 - 0.353 0.364 2980 - 0.010 - 0.353 0.363 2981 - 0.010 - 0.352 0.363 2981 - 0.010 - 0.352 0.363 2982 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.351 0.361 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | | - | | - | | |
| 2980 - 0.010 - 0.353 0.363 2981 - 0.010 - 0.352 0.363 2982 - 0.010 - 0.352 0.363 2983 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.351 0.361 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | | - | | - | | |
| 2981 - 0.010 - 0.352 0.363 2982 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.351 0.361 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | 2979 | - | 0.010 | - | 0.353 | 0.364 |
| 2982 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.351 0.361 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | 2980 | - | 0.010 | - | 0.353 | |
| 2982 - 0.010 - 0.352 0.362 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.351 0.361 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | 2981 | - | 0.010 | - | 0.352 | 0.363 |
| 2983 - 0.010 - 0.352 0.362 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.351 0.361 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | | _ | | - | | |
| 2984 - 0.010 - 0.351 0.361 2985 - 0.010 - 0.351 0.361 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | | _ | | - | | |
| 2985 - 0.010 - 0.351 0.361 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | | | | | | |
| 2986 - 0.010 - 0.350 0.360 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | | - | | - | | |
| 2987 - 0.010 - 0.350 0.360 2988 - 0.010 - 0.350 0.360 | | - | | - | | |
| 2988 - 0.010 - 0.350 0.360 | | - | | - | | |
| | | - | | - | | |
| 2989 - 0.010 - 0.349 0.359 | | - | | - | | |
| | 2989 | - | 0.010 | - | 0.349 | 0.359 |

Douglas E. Hill, et al. 21CW3203

| TOTALS | _ | 17.962 | - | 468.953 | 486.915 |
|--------------|---|----------------|---|----------------|----------------|
| 3021 3022 | - | 0.010 | - | 0.336 | 0.346 |
| 3020 3021 | - | 0.010 | - | 0.336 | 0.346 |
| 3019 3020 | - | 0.010 | - | 0.337 | 0.347 |
| 3018 3019 | - | 0.010 0.010 | - | 0.337 0.337 | 0.347 0.347 |
| 3017 | - | 0.010 | - | 0.338 | 0.348 |
| 3016 | - | 0.010 | - | 0.338 | 0.348 |
| 3015 | - | 0.010 | - | 0.338 | 0.34B |
| 3014 | - | 0.010 | - | 0.339 | 0.349 |
| 3013 | - | 0.010 | - | 0.339 | 0.349 |
| 3012 | - | 0.010 | - | 0.340 | 0.350 |
| 3011 | - | 0.010 | - | 0.340 | 0.350 |
| 3010 | - | 0.010 | - | 0.340 | 0.350 |
| 3009 | - | 0.010 | - | 0.341 | 0.351 |
| 3008 | - | 0.010 | - | 0.341 | 0.351 |
| 3007 | - | 0.010 | - | 0.342 | |
| 3006 | - | 0.010 | - | 0.342 | 0.352 0.352 |
| 3005 | - | 0.010 | - | 0.343 | 0.352 |
| 3004 | - | 0.010 | - | 0.343 | 0.353 |
| 3003 | - | 0.010 | - | 0.343 | 0.353 |
| 3002 | - | 0.010 | - | 0.344 | 0.354 |
| 3001 | - | 0.010 | - | 0.344 | 0.354 |
| 3000 | - | 0.010 | - | 0.345 | 0.355 |
| 2999 | - | 0.010 | - | 0.345 | 0.355 |
| 2998 | - | 0.010 | - | 0.345 | 0.355 |
| 2997 | - | 0.010 | - | 0.346 | 0.356 |
| 2996 | - | 0.010 | - | 0.346 | 0.356 |
| 2995 | - | 0.010 | - | 0.347 | 0.357 |
| 2994 | - | 0.010 | - | 0.347 | 0.357 |
| 2993 | - | 0.010 | - | 0.347 | 0.358 |
| 2992 | - | 0.010 | - | 0.348 | 0.358 |
| 2991 | - | 0.010 | - | 0.348 | 0.358 |
| 2990 | _ | 0.010 | - | 0.349 | 0.359 |

| Report To Information | Bill To I | nforn | ation (If | differ | ent fi | om r | eport | to) | P | rojec | et Inf | orm | tion | | ini gi e Vel Vel S | | | | | | | L | ABOR | ATORI | IES, IN | IC. | | | |
|---|-----------|---------------|---|--------------------|----------------|----------------|------------------|------------|--------------------|------------------|----------------|-----------------|--------------|-------------|-----------------------|-------------|----------------|---------|----------|------------|--------------------------|-------------------|-----------------------|----------------------------|--------------|----------------|----------------------------|---------|----------|
| Company Name: M.V.E. Inc | Company | / Name | e: | | | | | | | VSID | | | | | | | | | | 0 | | | | τĬα | h | | | | |
| Contact Name: James Oakden / Pavid Gorman | Contact N | Name: | | | | | | | | | namo | : | | | | | | | | 10 |)411 | Hei | nz W | <u>y La</u> ⁄ay y C(| | 640 | | | |
| Address: 1903 Lelaray St. | Address | : | | | | | | | 1 | - | | | • | : ` | _ | _ | _ | | | L | akew | vood | Ser | vice | Çen | <u>ter</u> | | | |
| City: Coloredo Spring State: CO Zip: 80909 | City: | | Sta | te: | Zi | p: | | | | | | | CDP | HE: | Yes [|] No | | | | | | | | ar Di 802: | | ite 1 | 00A | | |
| Phone: 719-635-5736 | Phone: | | | | | | | | | | umbe e Onl | v) | CAL | _ Ta | ask | c | | | | | | | | 9-23 | | | | | |
| Email: Jameso@mveciv.1.com | Email: | _ | | | | | | | | | | | | 28 | | | | | | | | | | | | | | | |
| Sample Collector: James Oakden | - | | | | | | | | | | | | | | | | | | | w | ww.e | coloı | ado | lab.c | <u>om</u> | | | | |
| Sample Collector Phone: 661-430-3641 | PO Num | ber: | | | | | | | | | | | NA | 7 B | | | | | | | | | | | | | | | |
| | ~ | | | PH | ASE | I, II, | V Dr | inkir | ng W | ater | Ana | lyses | (che | ck r | eque | sted | anal | ysis) | | | | | | | Sub | contr | act A | nalyse | es |
| | | 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 | ite | Fluoride | Inorganics | Alk/Lang. Index (Circle) | TOC, DOC (Circle) | SUVA, UV 254 (Circle) | yanide | Alpha | Radium 226/228 | lon | Uranium | Chlorite |
| Date Time Client Sample ID / Samp | le Pt ID | No. | Resi (mg P/A | Tot | 504 | 505 | 515 | 524 | 525 | 531 | 547 | 548 | 549 | 524 | 552 | Lea | Nitr | Nitrite | Fluc | Inor | Alk/ | TO | NUS | Ĵ | Gross) | Rad | Radon | Ura | Chl |
| 7/28/22 11:38 1 | | 4 | | | | | | | | | | | | | | | | | | | | | | | | \checkmark | | | |
| 7/28/22 11:39 2 | | 1 | | | | | | | | | | | | | | | , | | | | | | | | \checkmark | \vdash | \vdash | | |
| 7/126/22 11:43 3 Gen. | | 11 | | | | | | _ | | | | | | | | | \checkmark | 1 | 1 | | 1 | | | | | | \vdash | | |
| 7/18/22 11-48 4 metus | | 1 | | | | | | _ | | | | | | | | | | | | | | | | | | | | | |
| 7/28/22 11:50 5 670. | | 1 | | | | | | | | | | | | | | | | | | | | | | \times | | | | | |
| 7/28/22 11:53 6 | Colif. | 1 | | \checkmark | | | | | | | | | | | _ | | | | | | | | | | | | | | |
| | | | | | | | | -+ | | | | | | | | | | | | | | | | - | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Instructions: All tests 1997 Relinquished By: Date/Time: | ed p | es véd By | DB1 | | | | ЪС Time: | Ø, | C/S کرم Deli | vered | Via: | H hed E | D iy: | | (| | harge e/Tim | | 3 | р. | (℃ /1c | es d By: | £ | | | res. Y | Yes Yes /es e/Tim | No | |
| Relinquished By: Date/Time: | | U | Alle | 2 | 1 | | 120 | | - 4 | | | | | | | | | | | | | ۹ | J | | | | | | |

Drinking Water Chain of Custody



Page 5 of 5



Analytical Results

TASK NO: 220728085

Report To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civil 1903 Lelaray St Suite 200 Colorado Springs CO 80909

Bill To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civ 1903 Lelaray St Suite 200 Colorado Springs CO 80909

Task No.: 220728085 **Client PO: Client Project:**

Customer Sample ID M.V.E. Inc. 1-6

Date Received: 7/28/22 Date Reported: 8/24/22 Matrix: Water - Drinking

| Sample Date/Time: 7 | /28/22 11:53 AM | Л | | | | | |
|---------------------------|-----------------|-------------|-------------|-------|---------------|-------------|-------------|
| Lab Number: 2 | 20728085-01 | | | | | | |
| Test | Result | Method | RL | MCL | Date Analyzed | QC Batch ID | Analyzed By |
| | | | | | | | |
| Nitrate/ Nitrite Nitrogen | 0.93 mg/L | Calculation | 0.05 mg/L | | 8/2/22 | - | AMJ |
| Chloride | 1.3 mg/L | EPA 300.0 | 0.1 mg/L | | 7/29/22 | QC58573 | AMJ |
| Fluoride | 0.12 mg/L | EPA 300.0 | 0.10 mg/L | 4 | 7/29/22 | QC58575 | AMJ |
| Nitrate Nitrogen | 0.93 mg/L | EPA 300.0 | 0.05 mg/L | 10 | 7/29/22 | QC58576 | AMJ |
| Nitrite Nitrogen | ND | EPA 300.0 | 0.03 mg/L | 1 | 7/29/22 | QC58577 | AMJ |
| Sulfate | 2.7 mg/L | EPA 300.0 | 0.1 mg/L | | 7/29/22 | QC58578 | AMJ |
| Cyanide-Total | ND | EPA 335.4 | 0.005 mg/L | 0.02 | 7/29/22 | QC58552 | DPL |
| <u>Total</u> | | | | | | | |
| Iron | ND | EPA 200.7 | 0.005 mg/L | 0.3 | 8/2/22 | QC58569 | MBN |
| Aluminum | 0.002 mg/L | EPA 200.8 | 0.001 mg/L | 0.05 | 8/2/22 | QC58564 | MBN |
| Antimony | ND | EPA 200.8 | 0.0012 mg/L | 0.006 | 8/2/22 | QC58564 | MBN |
| Arsenic | ND | EPA 200.8 | 0.0006 mg/L | 0.01 | 8/2/22 | QC58564 | MBN |
| Barium | ND | EPA 200.8 | 0.0007 mg/L | 2 | 8/2/22 | QC58564 | MBN |
| Beryllium | ND | EPA 200.8 | 0.0001 mg/L | 0.004 | 8/2/22 | QC58564 | MBN |
| Cadmium | ND | EPA 200.8 | 0.0001 mg/L | 0.005 | 8/2/22 | QC58564 | MBN |
| Chromium | ND | EPA 200.8 | 0.0015 mg/L | 0.1 | 8/2/22 | QC58564 | MBN |
| Manganese | ND | EPA 200.8 | 0.0008 mg/L | 0.05 | 8/2/22 | QC58564 | MBN |
| Mercury | ND | EPA 200.8 | 0.0001 mg/L | 0.002 | 8/2/22 | QC58564 | MBN |
| Selenium | ND | EPA 200.8 | 0.0008 mg/L | 0.05 | 8/2/22 | QC58564 | MBN |
| Silver | ND | EPA 200.8 | 0.0005 mg/L | 0.1 | 8/2/22 | QC58564 | MBN |

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.



Sample Date/Time: 7/28/22

Analytical Results

TASK NO: 220728085

Report To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civil 1903 Lelaray St Suite 200 Colorado Springs CO 80909

11:53 AM

Bill To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civ 1903 Lelaray St Suite 200 Colorado Springs CO 80909

| Task No.: 220728085 | Date Received: 7/28/22 |
|------------------------------------|--------------------------|
| Client PO: | Date Reported: 8/24/22 |
| Client Project: | Matrix: Water - Drinking |
| Customer Sample ID M.V.E. Inc. 1-6 | |

| Lab Number: 2 | 220728085-01 | | | | | | |
|---------------|--------------|-----------|-------------|-------|---------------|-------------|-------------|
| Test | Result | Method | RL | MCL | Date Analyzed | QC Batch ID | Analyzed By |
| <u>Total</u> | | | | | | | |
| Thallium | ND | EPA 200.8 | 0.0002 mg/L | 0.002 | 8/2/22 | QC58564 | MBN |
| Zinc | 0.013 mg/L | EPA 200.8 | 0.001 mg/L | 5 | 8/2/22 | QC58564 | MBN |

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



Analytical QC Summary

TASK NO: 220728085

Report To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civil Receive Date: 7/28/22

Project Name:

| Test | QC Batch ID | QC Type | Result | | Method | |
|----------------------------------|-------------------------------|--|--|---|--|---|
| Chloride | QC58573 | Blank | ND | | EPA 300.0 | |
| Cyanide-Total | QC58552 | Blank | ND | | EPA 335.4 | |
| Fluoride | QC58575 | Blank | ND | | EPA 300.0 | |
| Aluminum | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Antimony | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Arsenic | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Barium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Beryllium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Cadmium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Chromium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Manganese | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Mercury | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Selenium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Silver | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Thallium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Zinc | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Iron | QC58569 | Method Blank | ND | | EPA 200.7 | |
| Nitrate Nitrogen | QC58576 | Blank | ND | | EPA 300.0 | |
| Nitrite Nitrogen | QC58577 | Blank | ND | | EPA 300.0 | |
| Sulfate | QC58578 | Blank | ND | | EPA 300.0 | |
| Test | QC Batch ID | QC Type | Limits | % Rec | RPD | Method |
| Chloride | QC58573 | Duplicate | 0 - 20 | - | 2.3 | EPA 300. |
| | | LCS | 90 - 110 | 99.8 | - | |
| | | MS | 75 - 125 | 101.2 | - | |
| | | | | | | |
| Cyanide-Total | QC58552 | Duplicate | 0 - 20 | - | 0.0 | EPA 335.4 |
| Cyanide-Total | QC58552 | Duplicate LCS | 0 - 20 90 - 110 | - 91.5 | 0.0 | EPA 335.4 |
| Cyanide-Total | QC58552 | • | | | | EPA 335.4 |
| Cyanide-Total | QC58552 QC58575 | LCS | 90 - 110 | 91.5 | - | |
| | | LCS MS | 90 - 110 75 - 125 | 91.5 87.0 | - | |
| · | | LCS MS Duplicate | 90 - 110 75 - 125 0 - 20 | 91.5 87.0 - | - - 5.7 | |
| · | QC58575 | LCS MS Duplicate LCS MS | 90 - 110 75 - 125 0 - 20 90 - 110 | 91.5 87.0 - 93.9 | - - 5.7 - | EPA 300.0 |
| Fluoride | | LCS MS Duplicate LCS | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 | 91.5 87.0 - 93.9 95.2 | - - 5.7 - - | EPA 300.0 |
| Fluoride | QC58575 | LCS MS Duplicate LCS MS LCS | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 | 91.5 87.0 - 93.9 95.2 105.7 | - - 5.7 - - | EPA 300.0 |
| Fluoride | QC58575 QC58564 | LCS MS Duplicate LCS MS LCS MS MSD | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - | - 5.7 - - - - | EPA 300.0 EPA 200.8 |
| Fluoride | QC58575 | LCS MS Duplicate LCS MS LCS MS MSD LCS | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 90 - 110 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - 102.5 | - 5.7 - - - 1.9 | EPA 300.0 EPA 200.8 |
| Fluoride | QC58575 QC58564 | LCS MS Duplicate LCS MS LCS MS MSD LCS MS | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 90 - 110 70 - 130 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - 102.5 103.4 | - 5.7 - - - 1.9 - 1.9 | EPA 300.0 EPA 200.8 |
| Fluoride Aluminum Antimony | QC58575 QC58564 QC58564 | LCS MS Duplicate LCS MS LCS MS MSD LCS MS MSD | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 90 - 110 70 - 130 0 - 10 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - 102.5 103.4 - | - 5.7 - - - 1.9 - | EPA 300.0 EPA 200.8 EPA 200.8 |
| Fluoride | QC58575 QC58564 | LCS MS Duplicate LCS MS LCS MS MSD LCS MS MSD LCS | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 90 - 110 70 - 130 0 - 10 90 - 110 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - 102.5 103.4 - 102.6 | - 5.7 - - - 1.9 - 1.3 - 1.3 | EPA 300.0 EPA 200.8 EPA 200.8 |
| Fluoride Aluminum Antimony | QC58575 QC58564 QC58564 | LCS MS Duplicate LCS MS LCS MS MSD LCS MS MSD | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 90 - 110 70 - 130 0 - 10 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - 102.5 103.4 - | - 5.7 - - - 1.9 - 1.3 | EPA 335.4 EPA 300.0 EPA 200.8 EPA 200.8 EPA 200.8 |

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 |
|------------------|-------------|-----------|----------|-------|-----|-----------|
| | L | MS | 70 - 130 | 91.8 | - | |
| | | MSD | 0 - 10 | - | 0.9 | |
| Beryllium | QC58564 | LCS | 90 - 110 | 99.2 | - | EPA 200.8 |
| | | MS | 70 - 130 | 105.1 | - | |
| | | MSD | 0 - 10 | - | 0.3 | |
| Cadmium | QC58564 | LCS | 90 - 110 | 96.5 | - | EPA 200.8 |
| | | MS | 70 - 130 | 95.9 | - | |
| | | MSD | 0 - 10 | - | 0.8 | |
| Chromium | QC58564 | LCS | 90 - 110 | 99.7 | - | EPA 200.8 |
| | | MS | 70 - 130 | 85.3 | - | |
| | | MSD | 0 - 10 | - | 3.6 | |
| Manganese | QC58564 | LCS | 90 - 110 | 102.0 | - | EPA 200.8 |
| 0 | | MS | 70 - 130 | 107.8 | - | |
| | | MSD | 0 - 10 | - | 3.2 | |
| Mercury | QC58564 | LCS | 90 - 110 | 102.8 | - | EPA 200.8 |
| , | | MS | 70 - 130 | 94.0 | - | |
| | | MSD | 0 - 10 | - | 5.7 | |
| Selenium | QC58564 | LCS | 90 - 110 | 99.4 | - | EPA 200.8 |
| | | MS | 70 - 130 | 93.3 | - | |
| | | MSD | 0 - 10 | - | 8.1 | |
| Silver | QC58564 | LCS | 90 - 110 | 100.0 | - | EPA 200.8 |
| | | MS | 70 - 130 | 79.5 | - | |
| | | MSD | 0 - 10 | - | 5.7 | |
| Thallium | QC58564 | LCS | 90 - 110 | 97.8 | - | EPA 200.8 |
| | | MS | 70 - 130 | 89.3 | - | |
| | | MSD | 0 - 10 | - | 0.5 | |
| Zinc | QC58564 | LCS | 90 - 110 | 100.3 | - | EPA 200.8 |
| | | MS | 70 - 130 | 74.2 | - | |
| | | MSD | 0 - 10 | - | 2.2 | |
| Iron | QC58569 | Duplicate | 0 - 20 | - | 8.7 | EPA 200.7 |
| | | LCS | 90 - 110 | 107.4 | _ | |
| | | MS | 75 - 125 | 108.4 | - | |
| Nitrate Nitrogen | QC58576 | Duplicate | 0 - 20 | _ | 7.2 | EPA 300.0 |
| | 20000.0 | LCS | 90 - 110 | 93.2 | - | |
| | | MS | 75 - 125 | 90.0 | - | |
| Nitrite Nitrogen | QC58577 | Duplicate | 0 - 20 | - | 0.0 | EPA 300.0 |
| | | LCS | 90 - 110 | 95.0 | - | |
| | | MS | 75 - 125 | 88.3 | - | |
| Sulfate | QC58578 | Duplicate | 0 - 20 | - | 2.5 | EPA 300.0 |
| | | LCS | 90 - 110 | 97.9 | - | |
| | | MS | 75 - 125 | 94.3 | | |

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

(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.

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



Analytical Results

TASK NO: 220728085

Report To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civil 1903 Lelaray St Suite 200 Colorado Springs CO 80909 Bill To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Ci 1903 Lelaray St Suite 200 Colorado Springs CO 80909

| | k No.: 220728085 nt PO: roject: | | | ate Received: 7 ate Reported: 8 Matrix: \ | | |
|------------|---------------------------------------|------------------|------|---|--------|---------------|
| Lab Number | Customer Sample ID | Sample Date/Time | Test | Result | Method | Date Analyzed |

| Lab Number | Customer Sample ID | Sample | Date/Time | Test | Result | Method | Date Analyzed | |
|---------------|--------------------|---------|-----------|--------------------------|------------------|--------------------|--------------------|--|
| 220728085-01F | M.V.E. Inc. 1-6 | 7/28/22 | 11:53 AM | Total Coliform E-Coli | Absent Absent | SM 9223 SM 9223 | 7/29/22 7/29/22 | |

Abbreviations/ References: Absent = Coliform Not Detected

Present = Coliform Detected - Chlorination Recommended Date Analyzed = Date Test Completed SM = "Standard Methods for the Examination of Water and Wastewater"; APHA; 19th Edition; 1995

DATA APPROVED FOR RELEASE BY

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 2



Report To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civil 1903 Lelaray St Suite 200 Colorado Springs CO 80909 **Analytical Results**

TASK NO: 220728085

Bill To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Ci 1903 Lelaray St Suite 200 Colorado Springs CO 80909

Task No.: 220728085 Client PO: Client Project:

Date Received: 7/28/22 Date Reported: 8/24/22 Matrix: Water - Drinkin

Customer Sample ID M.V.E. Inc. 1-6 Sample Date/Time: 7/28/22

le Date/Time: 7/28/22 11:53 AM Lab Number: 220728085-01

| Test | Result | Method | RL | Date Analyzed | QC Batch ID | Analyzed By |
|------------------------|--------------------|-------------|-------------------|---------------|-------------|-------------|
| Bicarbonate | 43.1 mg/L as CaCO3 | SM 2320-B | 0.2 mg/L as CaCO3 | 8/2/22 | - | TAB |
| Calcium as CaCO3 | 0.5 mg/L | EPA 200.7 | 0.1 mg/L | 8/2/22 | - | MBN |
| Carbonate | ND | SM 2320-B | 0.2 mg/L as CaCO3 | 8/2/22 | - | TAB |
| Hydroxide | ND | SM 2320-B | 0.2 mg/L as CaCO3 | 8/2/22 | - | TAB |
| Langelier Index | -3.88 units | SM 2330-B | units | 8/9/22 | - | SAN |
| pН | 6.50 units | SM 4500-H-B | 0.01 units | 7/28/22 | - | AKF |
| Temperature | 20 °C | SM 4500-H-B | 1 °C | 7/28/22 | - | AKF |
| Total Alkalinity | 43.1 mg/L as CaCO3 | SM 2320-B | 4.0 mg/L as CaCO3 | 8/2/22 | QC58642 | TAB |
| Total Dissolved Solids | 86 mg/L | SM 2540-C | 5 mg/L | 8/4/22 | QC58603 | DEK |

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 3



Analytical QC Summary

TASK NO: 220728085

Report To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civil Receive Date: 7/28/22 Project Name:

| Test | QC Batch ID | QC Type | Result | | Method | |
|------------------------|-------------|-----------|----------|-------|-----------|-----------|
| Total Alkalinity | QC58642 | Blank | ND | | SM 2320-B | |
| Total Dissolved Solids | QC58603 | Blank | ND | | SM 2540-C | |
| Test | QC Batch ID | QC Type | Limits | % Rec | RPD | Method |
| Total Alkalinity | QC58642 | Duplicate | 0 - 20 | - | 0.3 | SM 2320-B |
| | | LCS | 90 - 110 | 103.9 | - | |
| | | LCS-2 | 90 - 110 | 105.4 | - | |
| Total Dissolved Solids | QC58603 | Duplicate | 0 - 20 | - | 1.0 | SM 2540-C |
| | | LCS | 85 - 115 | 101.2 | - | |

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.

DATA APPROVED FOR RELEASE BY

Abbreviations/ References: RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM ug/L = Milligrams 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.
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 ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 2 of 3



Analytical Results

TASK NO: 220728085

Report To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civil 1903 Lelaray St Suite 200 Colorado Springs CO 80909

Bill To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civ 1903 Lelaray St Suite 200 Colorado Springs CO 80909

Task No.: 220728085 **Client PO: Client Project:**

Customer Sample ID M.V.E. Inc. 1-6

Date Received: 7/28/22 Date Reported: 8/24/22 Matrix: Water - Drinking

| Sample Date/Time: 7 | /28/22 11:53 AM | Л | | | | | |
|---------------------------|-----------------|-------------|-------------|-------|---------------|-------------|-------------|
| Lab Number: 2 | 20728085-01 | | | | | | |
| Test | Result | Method | RL | MCL | Date Analyzed | QC Batch ID | Analyzed By |
| | | | | | | | |
| Nitrate/ Nitrite Nitrogen | 0.93 mg/L | Calculation | 0.05 mg/L | | 8/2/22 | - | AMJ |
| Chloride | 1.3 mg/L | EPA 300.0 | 0.1 mg/L | | 7/29/22 | QC58573 | AMJ |
| Fluoride | 0.12 mg/L | EPA 300.0 | 0.10 mg/L | 4 | 7/29/22 | QC58575 | AMJ |
| Nitrate Nitrogen | 0.93 mg/L | EPA 300.0 | 0.05 mg/L | 10 | 7/29/22 | QC58576 | AMJ |
| Nitrite Nitrogen | ND | EPA 300.0 | 0.03 mg/L | 1 | 7/29/22 | QC58577 | AMJ |
| Sulfate | 2.7 mg/L | EPA 300.0 | 0.1 mg/L | | 7/29/22 | QC58578 | AMJ |
| Cyanide-Total | ND | EPA 335.4 | 0.005 mg/L | 0.02 | 7/29/22 | QC58552 | DPL |
| <u>Total</u> | | | | | | | |
| Iron | ND | EPA 200.7 | 0.005 mg/L | 0.3 | 8/2/22 | QC58569 | MBN |
| Aluminum | 0.002 mg/L | EPA 200.8 | 0.001 mg/L | 0.05 | 8/2/22 | QC58564 | MBN |
| Antimony | ND | EPA 200.8 | 0.0012 mg/L | 0.006 | 8/2/22 | QC58564 | MBN |
| Arsenic | ND | EPA 200.8 | 0.0006 mg/L | 0.01 | 8/2/22 | QC58564 | MBN |
| Barium | ND | EPA 200.8 | 0.0007 mg/L | 2 | 8/2/22 | QC58564 | MBN |
| Beryllium | ND | EPA 200.8 | 0.0001 mg/L | 0.004 | 8/2/22 | QC58564 | MBN |
| Cadmium | ND | EPA 200.8 | 0.0001 mg/L | 0.005 | 8/2/22 | QC58564 | MBN |
| Chromium | ND | EPA 200.8 | 0.0015 mg/L | 0.1 | 8/2/22 | QC58564 | MBN |
| Manganese | ND | EPA 200.8 | 0.0008 mg/L | 0.05 | 8/2/22 | QC58564 | MBN |
| Mercury | ND | EPA 200.8 | 0.0001 mg/L | 0.002 | 8/2/22 | QC58564 | MBN |
| Selenium | ND | EPA 200.8 | 0.0008 mg/L | 0.05 | 8/2/22 | QC58564 | MBN |
| Silver | ND | EPA 200.8 | 0.0005 mg/L | 0.1 | 8/2/22 | QC58564 | MBN |

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.



Sample Date/Time: 7/28/22

Analytical Results

TASK NO: 220728085

Report To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civil 1903 Lelaray St Suite 200 Colorado Springs CO 80909

11:53 AM

Bill To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civ 1903 Lelaray St Suite 200 Colorado Springs CO 80909

| Task No.: 220728085 | Date Received: 7/28/22 |
|------------------------------------|--------------------------|
| Client PO: | Date Reported: 8/24/22 |
| Client Project: | Matrix: Water - Drinking |
| Customer Sample ID M.V.E. Inc. 1-6 | |

| Lab Number: 2 | 220728085-01 | | | | | | |
|---------------|--------------|-----------|-------------|-------|---------------|-------------|-------------|
| Test | Result | Method | RL | MCL | Date Analyzed | QC Batch ID | Analyzed By |
| <u>Total</u> | | | | | | | |
| Thallium | ND | EPA 200.8 | 0.0002 mg/L | 0.002 | 8/2/22 | QC58564 | MBN |
| Zinc | 0.013 mg/L | EPA 200.8 | 0.001 mg/L | 5 | 8/2/22 | QC58564 | MBN |

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



Analytical QC Summary

TASK NO: 220728085

Report To: David R Gorman, P.E. Company: Monument Valley Engineers - MVE Civil Receive Date: 7/28/22

Project Name:

| Test | QC Batch ID | QC Type | Result | | Method | |
|----------------------------------|-------------------------------|--|--|---|--|---|
| Chloride | QC58573 | Blank | ND | | EPA 300.0 | |
| Cyanide-Total | QC58552 | Blank | ND | | EPA 335.4 | |
| Fluoride | QC58575 | Blank | ND | | EPA 300.0 | |
| Aluminum | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Antimony | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Arsenic | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Barium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Beryllium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Cadmium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Chromium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Manganese | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Mercury | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Selenium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Silver | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Thallium | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Zinc | QC58564 | Method Blank | ND | | EPA 200.8 | |
| Iron | QC58569 | Method Blank | ND | | EPA 200.7 | |
| Nitrate Nitrogen | QC58576 | Blank | ND | | EPA 300.0 | |
| Nitrite Nitrogen | QC58577 | Blank | ND | | EPA 300.0 | |
| Sulfate | QC58578 | Blank | ND | | EPA 300.0 | |
| Test | QC Batch ID | QC Type | Limits | % Rec | RPD | Method |
| Chloride | QC58573 | Duplicate | 0 - 20 | - | 2.3 | EPA 300. |
| | | LCS | 90 - 110 | 99.8 | - | |
| | | MS | 75 - 125 | 101.2 | - | |
| | | | | | | |
| Cyanide-Total | QC58552 | Duplicate | 0 - 20 | - | 0.0 | EPA 335.4 |
| Cyanide-Total | QC58552 | Duplicate LCS | 0 - 20 90 - 110 | - 91.5 | 0.0 | EPA 335.4 |
| Cyanide-Total | QC58552 | • | | | | EPA 335.4 |
| Cyanide-Total | QC58552 QC58575 | LCS | 90 - 110 | 91.5 | - | |
| | | LCS MS | 90 - 110 75 - 125 | 91.5 87.0 | - | |
| · | | LCS MS Duplicate | 90 - 110 75 - 125 0 - 20 | 91.5 87.0 - | - - 5.7 | |
| · | QC58575 | LCS MS Duplicate LCS MS | 90 - 110 75 - 125 0 - 20 90 - 110 | 91.5 87.0 - 93.9 | - - 5.7 - | EPA 300.0 |
| Fluoride | | LCS MS Duplicate LCS | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 | 91.5 87.0 - 93.9 95.2 | - - 5.7 - - | EPA 300.0 |
| Fluoride | QC58575 | LCS MS Duplicate LCS MS LCS | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 | 91.5 87.0 - 93.9 95.2 105.7 | - - 5.7 - - | EPA 300.0 |
| Fluoride | QC58575 QC58564 | LCS MS Duplicate LCS MS LCS MS MSD | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - | - 5.7 - - - - | EPA 300.0 EPA 200.8 |
| Fluoride | QC58575 | LCS MS Duplicate LCS MS LCS MS MSD LCS | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 90 - 110 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - 102.5 | - 5.7 - - - 1.9 | EPA 300.0 EPA 200.8 |
| Fluoride | QC58575 QC58564 | LCS MS Duplicate LCS MS LCS MS MSD LCS MS | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 90 - 110 70 - 130 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - 102.5 103.4 | - 5.7 - - - 1.9 - 1.9 | EPA 300.0 EPA 200.8 |
| Fluoride Aluminum Antimony | QC58575 QC58564 QC58564 | LCS MS Duplicate LCS MS LCS MS MSD LCS MS MSD | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 90 - 110 70 - 130 0 - 10 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - 102.5 103.4 - | - 5.7 - - - 1.9 - | EPA 300.0 EPA 200.8 EPA 200.8 |
| Fluoride | QC58575 QC58564 | LCS MS Duplicate LCS MS LCS MS MSD LCS MS MSD LCS | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 90 - 110 70 - 130 0 - 10 90 - 110 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - 102.5 103.4 - 102.6 | - 5.7 - - - 1.9 - 1.3 - 1.3 | EPA 300.0 EPA 200.8 EPA 200.8 |
| Fluoride Aluminum Antimony | QC58575 QC58564 QC58564 | LCS MS Duplicate LCS MS LCS MS MSD LCS MS MSD | 90 - 110 75 - 125 0 - 20 90 - 110 75 - 125 90 - 110 70 - 130 0 - 10 90 - 110 70 - 130 0 - 10 | 91.5 87.0 - 93.9 95.2 105.7 77.7 - 102.5 103.4 - | - 5.7 - - - 1.9 - 1.3 | EPA 335.4 EPA 300.0 EPA 200.8 EPA 200.8 EPA 200.8 |

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

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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 |
|------------------|-------------|-----------|----------|-------|-----|-----------|
| | L | MS | 70 - 130 | 91.8 | - | |
| | | MSD | 0 - 10 | - | 0.9 | |
| Beryllium | QC58564 | LCS | 90 - 110 | 99.2 | - | EPA 200.8 |
| | | MS | 70 - 130 | 105.1 | - | |
| | | MSD | 0 - 10 | - | 0.3 | |
| Cadmium | QC58564 | LCS | 90 - 110 | 96.5 | - | EPA 200.8 |
| | | MS | 70 - 130 | 95.9 | - | |
| | | MSD | 0 - 10 | - | 0.8 | |
| Chromium | QC58564 | LCS | 90 - 110 | 99.7 | - | EPA 200.8 |
| | | MS | 70 - 130 | 85.3 | - | |
| | | MSD | 0 - 10 | - | 3.6 | |
| Manganese | QC58564 | LCS | 90 - 110 | 102.0 | - | EPA 200.8 |
| 0 | | MS | 70 - 130 | 107.8 | - | |
| | | MSD | 0 - 10 | - | 3.2 | |
| Mercury | QC58564 | LCS | 90 - 110 | 102.8 | - | EPA 200.8 |
| , | | MS | 70 - 130 | 94.0 | - | |
| | | MSD | 0 - 10 | - | 5.7 | |
| Selenium | QC58564 | LCS | 90 - 110 | 99.4 | - | EPA 200.8 |
| | | MS | 70 - 130 | 93.3 | - | |
| | | MSD | 0 - 10 | - | 8.1 | |
| Silver | QC58564 | LCS | 90 - 110 | 100.0 | - | EPA 200.8 |
| | | MS | 70 - 130 | 79.5 | - | |
| | | MSD | 0 - 10 | - | 5.7 | |
| Thallium | QC58564 | LCS | 90 - 110 | 97.8 | - | EPA 200.8 |
| | | MS | 70 - 130 | 89.3 | - | |
| | | MSD | 0 - 10 | - | 0.5 | |
| Zinc | QC58564 | LCS | 90 - 110 | 100.3 | - | EPA 200.8 |
| | | MS | 70 - 130 | 74.2 | - | |
| | | MSD | 0 - 10 | - | 2.2 | |
| Iron | QC58569 | Duplicate | 0 - 20 | - | 8.7 | EPA 200.7 |
| | | LCS | 90 - 110 | 107.4 | _ | |
| | | MS | 75 - 125 | 108.4 | - | |
| Nitrate Nitrogen | QC58576 | Duplicate | 0 - 20 | _ | 7.2 | EPA 300.0 |
| | | LCS | 90 - 110 | 93.2 | - | |
| | | MS | 75 - 125 | 90.0 | - | |
| Nitrite Nitrogen | QC58577 | Duplicate | 0 - 20 | - | 0.0 | EPA 300.0 |
| | | LCS | 90 - 110 | 95.0 | - | |
| | | MS | 75 - 125 | 88.3 | - | |
| Sulfate | QC58578 | Duplicate | 0 - 20 | - | 2.5 | EPA 300.0 |
| | 4000010 | LCS | 90 - 110 | 97.9 | - | |
| | | MS | 75 - 125 | 94.3 | | |

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

(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.

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



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

Customer ID: 20040H Account ID: Z01034 Lab Control ID: 22M02429 Received: Jul 29, 2022 Reported: Aug 23, 2022 Purchase Order No. None Received

Stuart Nielson Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City, CO 80640

ANALYTICAL REPORT

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

Michelle Stringer for By:

Roxanne Sullivan



Customer ID: 20040H Account ID: Z01034

ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

| La | ab Sam | ple ID | 22M02429-001 | | | | | |
|--------------------|--------|--------|--------------|--------------------------------|--------------|--------------|----------------|---------|
| Custom | er Sam | ple ID | 220728085-0 | 220728085-01D - M.V.E Inc. 1-6 | | | | |
| | | | | sampled or | n 07/28/22 (| @ 1153 | | |
| | | | | Precision* | Detection | | Analysis | |
| Parameter | Units | Code | Result | +/- | Limit | Method | Date / Time | Analyst |
| Gross Alpha | pCi/L | Т | 1.6 | 1.6 | 0.1 | SM 7110 B | 8/10/22 @ 0832 | AS |
| Gross Beta | pCi/L | Т | <2.7 | 2.0 | 2.7 | SM 7110 B | 8/10/22 @ 0832 | AS |
| Radium-226 | pCi/L | Т | NR | - | - | SM 7500-Ra B | - | - |
| Radium-228 | pCi/L | Т | NR | - | - | EPA Ra-05 | - | - |

NR - Not Requested - Analysis not requested on this sample.

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 \leq Less Than



Customer ID: 20040H Account ID: Z01034

ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

| Lá | ab Sam | ple ID | 22M02429-002 | | | | | |
|-------------|--------|--------|--------------------------------|------------|--------------|--------------|----------------|---------|
| Custom | er Sam | ple ID | 220728085-01E - M.V.E Inc. 1-6 | | | | | |
| | | | | sampled or | n 07/28/22 (| @ 1153 | | |
| | | | | Precision* | Detection | | Analysis | |
| Parameter | Units | Code | Result | +/- | Limit | Method | Date / Time | Analyst |
| Gross Alpha | pCi/L | Т | NR | - | - | SM 7110 B | - | - |
| Gross Beta | pCi/L | Т | NR | - | - | SM 7110 B | - | - |
| Radium-226 | pCi/L | Т | <0.2 | 0.1 | 0.2 | SM 7500-Ra B | 8/5/22 @ 1209 | KT |
| Radium-228 | pCi/L | Т | 0.9 | 0.7 | 0.2 | EPA Ra-05 | 8/16/22 @ 0745 | JR |

NR - Not Requested - Analysis not requested on this sample.

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 \leq Less Than

Date: 08/10/2022

Batch QC Summary Form

 Analyte:
 Gross Alpha

 <u>Control Standard/LFB:</u>
 ID: C-11a_001 pCi/mL: 57.4 (use 1 diluted)

 <u>Spike Solution:</u>
 ID: C-11a_001 pCi/mL: 57.4 (use 1 mL)

 <u>Spike Recovery Calculation:</u>
 Sample: Tap*

| Calculation: | (46.7) | (1.000) | - | (0.8) | (0.200) | x | 100 = | 81% |
|--------------|--------|---------|------|-------|---------|---|-------|-----|
| | | | 57.4 | | | | | |

Batch QC Evaluation:

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

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

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

Reruns Required:

Narrative:

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

Batch Listing by Lab Control Number:

| 22M02429 | 22M02458 |
|----------|----------|
| 22M02430 | 22M02459 |
| 22M02443 | 22M02461 |
| 22M02448 | 22M02472 |
| 22M02449 | 22M02473 |
| 22M02452 | 22M02474 |
| 22M02455 | 22M02475 |
| 22M02456 | 22M02476 |
| 22M02457 | |
| 22M02460 | |
| | |

Evaluator:

Roame Sallwan ----

08/12/2022

Date

Date: 08/10/2022

Batch QC Summary Form

| Analyte: Gross Beta | | | | |
|-----------------------------|---------------|---------|----|-----------------|
| Control Standard/LFB: | ID: C-11a_001 | pCi/mL: | 44 | (use 1 diluted) |
| Spike Solution: | ID: C-11a_001 | pCi/mL: | 44 | (use 1 mL) |
| Spike Recovery Calculation: | Sample: T | ap* | | |
| | | | | |

Calculation: (38.5) (1.000) - (1.6) (0.200) x 100 = 87%

Batch QC Evaluation:

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

Batch Listing by Lab Control Number:

| 22M02429 | 22M02458 |
|----------|----------|
| 22M02430 | 22M02459 |
| 22M02443 | 22M02461 |
| 22M02448 | 22M02472 |
| 22M02449 | 22M02473 |
| 22M02452 | 22M02474 |
| 22M02455 | 22M02475 |
| 22M02456 | 22M02476 |
| 22M02457 | |
| 22M02460 | |
| | |

Evaluator:

Roame Sallwan ----

08/12/2022

Date

Date: 08/04/2022

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: 2 | 2M02443-(|)2b | | | |
| Calculation:(| 45.9) | (1.000) | - | (0.5) | (1.000) | x 100 = | 99% |

46

Batch QC Evaluation:

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

* 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 evaluted in this report.

Batch Listing by Lab Control Number:

| 22M02414 | 22M02448 | | |
|----------|----------|-------------------|--|
| 22M02419 | 22M02449 | | |
| 22M02420 | 22M02452 | | |
| 22M02428 | 22M02453 | | |
| 22M02429 | | <u>Evaluator:</u> | |
| 22M02430 | | | |
| 22M02431 | | Olan Blai | |
| 22M02443 | | | |
| 22M02446 | | | |
| 22M02447 | | 08/17/2022 | |
| | | Date | |

Date: 08/16/2022

Batch QC Summary Form

| Analyte: Radium-228 | | | | | | | |
|-----------------------------|------|-----------|------------|-------|-----------------|---------|------|
| Control Standard/LFB: | ID: | C6-003 | pCi/mL: | 13.2 | (use 5 diluted) | | |
| Spike Solution: | ID: | C6-003 | pCi/mL: | 13.2 | (use 5 mL) | | |
| Spike Recovery Calculation: | | Sample: 2 | 22M02455-2 | 2d | | | |
| Calculation: (6 | 8.8) | (1.000) | - 66 | (0.6) | (1.000) | x 100 = | 103% |

Batch QC Evaluation:

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

Batch Listing by Lab Control Number:

| 22M02419 22M02420 22M02428 22M02429 22M02430 22M02431 22M02455 22M02460 | <u>Evaluator:</u> Car J. Iller |
|--|-----------------------------------|
| | 08/22/2022 |

| Colorado Analytical | | 22 MO 2 4 | 429 | | | Pı H | hip T reser NO3 ate F | ve B L | d: ot ; | Y #: | 10 | D | sear גע גע | | |
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| Report To Information Company Name: Colorado Analytical Laborat Report To: Stuart Nielson E-Mail: stuartnielson@coloradolab. | <u>ory</u> | mation (If different fron | n report to) | | | Pr | oject N | ame | | | | | | | |
| Address: <u>10411 Heinz Way</u> <u>Commerce City, CO 80640</u> Phone: <u>303-659-2313</u> | Address: | | | CAL TAS 2207280 NAB | | | ollance hit Data | | • | | Yes Yes | | No 🔽 | lours# | |
| | | | Radium 228 (Sub) Gross Alpha/Beta (S Radium 226 (Sub) | Test | s Req | uest | ed | | | | | | | | |
| Sample Date/Time Sampl 7/28/22 11:53 AM 220728085-01D - M.V.E. Inc. 1-6 | | Matrix Water - Drinking | (Sub) | | | 1-1 | | | | r | | | | | iner Type |
| 7/28/22 11:53 AM 220728085-01D - M.V.E. Inc. 1-6 | | Water - Drinking | X | | | | + + + | | 4 | | | | | | Unpreserved |
| Comment: | | Trater - Drickling | | | | | | | | | | | | | |

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| | | ~) | | | |
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| Relinquished by: (Signature) | Date: Time: | Relinquished by: (Signature) | Date: Time: | Received by: (Signature) | Date: Time: |
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page 8 of 8