COPPER CHASE AT STERLING RANCH

FIRE PROTECTION REPORT

AUGUST 2023

OWNER/APPLICANT:SR Land LLC

N.E.S. Inc.

30 Boulder Crescent, 619 North Cascade Avenue

Colorado Springs CO 80920 Colorado Springs, Colorado 80903

Copper Chase at Sterling Ranch is within the Black Forest Fire Rescue Protection District (BFFR). The proposed subdivision lies approximately 4 miles from Station No. 1 at 11445 Teachout Road.

BFFR is made up entirely of unincorporated areas of El Paso County and covers approximately 54 square miles and provides service to about 40,000 residents. Black Forest Fire Rescue (BFFR) provides structural firefighting, wildland firefighting, technical rescue, and EMA transport among many other services. BFFR is a mutual and automatic aide partner for agencies within El Paso County, Douglas County and the State of Colorado. The department responds to about 1200 calls a year in Black Forest, and also provides Advanced Life Support transport of the sick and injured to area hospitals. All alarm responses are made within an eight-minute average for the district.

Copper chase is supportive of the El Paso County Land Development Code (LDC), Engineering Criteria Manual (ECM), International Building Code (IBC 2021), Pikes Peak Regional Building and International Fire Code 2021(IFC).

2021 IFC Compliance:

Section 503:

- The site is accessed by Outcrop Drive (urban local) and Blue Feather Loop (urban local). Both roads serve as fire apparatus access roads.
- All internal roadways within Copper Chase at Sterling Ranch are classified as urban local built to El Paso County (EPC) standards and dually serve as Fire apparatus access roads. Roads will be built to ECM 2.2.4 standards, which will provide a 50FT ROW with an attached 5FT concrete sidewalk on both sides of the road. Parking is allowed on both sides of the street.
- All angles of roadway connections are in compliance with ECM 2.3.3.B which stipulates all new roadways must intersect at or nearly at right angles. Roads are constructed in accordance with ECM 2.3.1 Table 2-7. All roadways will be surfaced with asphalt and maintained by El Paso County. A Traffic Impact Study completed by LSC in July of 2023 has been included with this report.

Section 505/506:

All structures will be addressed and adequately marked per PPRBD and IFC 2021 standards before a certification of occupancy will be issued. All street signs will be in compliance with PPRBD, EL Paso County standards, IBC 2021 and IFC 2021 standards. All structures are designed as single family and two-family homes.

Section 507:

Per LDC, 8.4.7. a 300-year water sufficiency finding must be found by the County Attorney's Office, El Paso County Public Health and Board of County Commissioners for the plat to be recorded. An analysis of water supply and sufficiency showing compliance with LDC 8.4.7.B.6.g.c and demonstrating proof of water demands needed to satisfy fire demand, replacement of supplies reduced due to flooding, damaged or otherwise incapacitated systems is included in the attached water resources report created by JDS Hydro in October of 2022.

In this development, all fire hydrants are spaced within 400FT of each other and connected to a public water system with sufficient pressure. The water resources report completed by JDS Hyrdo in October of 2022 found Copper Chase at Sterling Ranch to have a more than sufficient water supply with a net excess of 1037.64AF a year for 300 years. Water demand is determined to be 52.13AF. All water and wastewater be supplied and maintained by FAWWA. A FAWWA water and waste water commitment letter has been included in the Copper Chase at Sterling Ranch submittals.

All fire hydrants will be maintained and periodically tested by the BFFRD as required. A minimum 3FT clearance is provided for all fire hydrants. A fire exhibit showing all fire hydrants within the development is included with this report.

<u>Section 504;601-607;701-708;801-808;901-917;1001-1032;1101-1106:</u>

The development is comprised of single family detached and attached dwelling units. All structures will be constructed to IBC 2021, IFC 2021 and PPRBD standards. All structures are required to demonstrate full compliance with all standards before a certificate of occupancy can be issued.

Section 1200-4000:

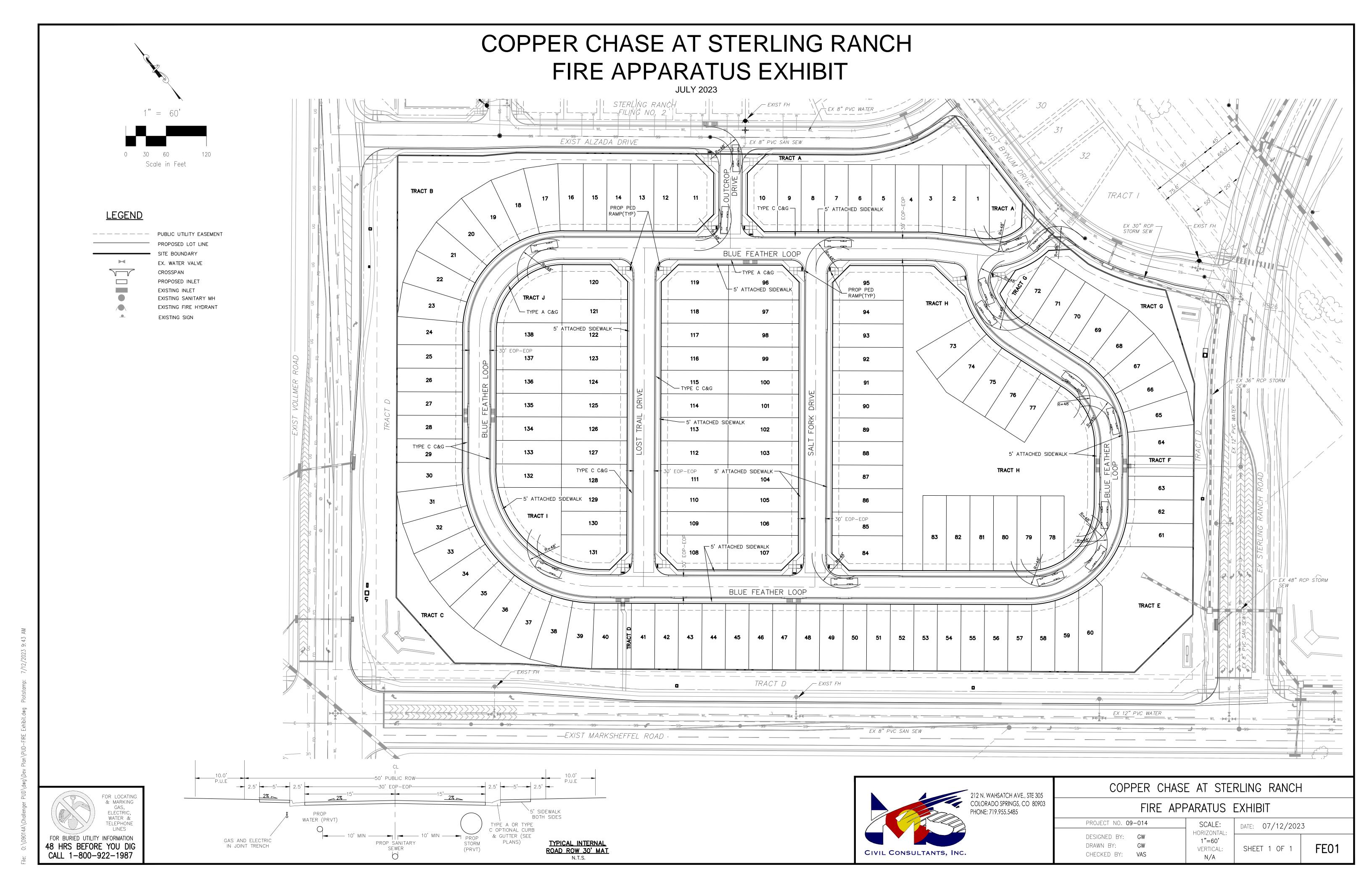
Not applicable. The development is proposed as a detached single family development served by public water, sewer and roadways.

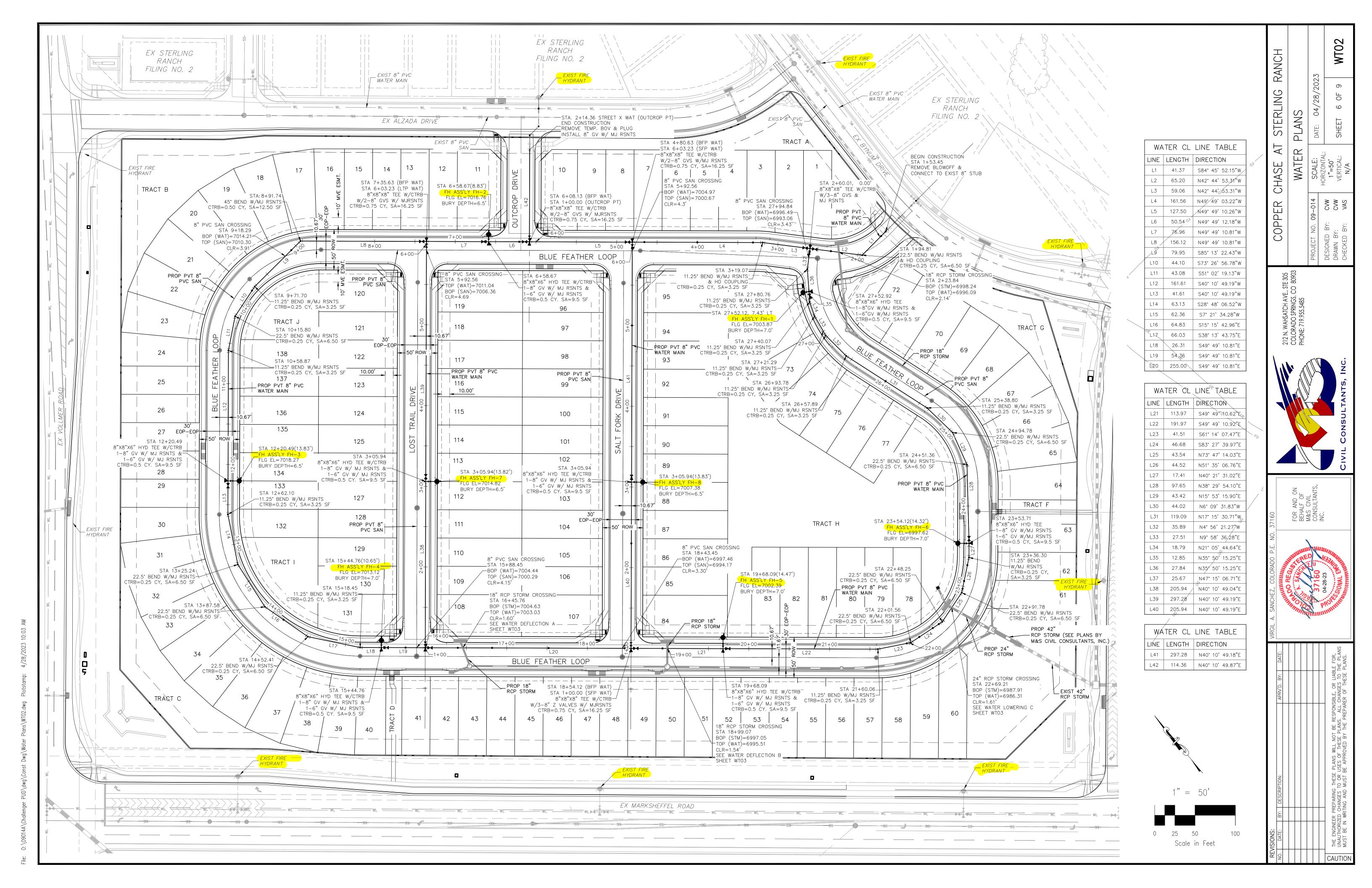
ECM Deviations:

This development proposes 2 roadways deviations from the El Paso County Engineering Criteria Manual, one to allow for broke back curves, the other to allow for minimum centerline radius and intersection spacing standards.

A copy of both deviations and a fire move apparatus plan have been attached to this report and included with the Copper Chase PUDSP submittal.

P:\Challenger\Copper Chase at Sterling Ranch\Admin\Misc\Copper Chase at Sterling Ranch Fire Protection Report (Rev 3).docx







Planning and Community
Development Department
2880 International Circle
Colorado Springs, Colorado 80910

Phone: 719.520.6300 Fax: 719.520.6695

Website www.elpasoco.com

DEVIATION REQUEST AND DECISION FORM

Updated: 6/26/2019

PROJECT INFORMATION

Project Name: Copper Chase at Sterling Ranch Fil No. 1

Schedule No.(s): 5232410003

Legal Description: A PORTION OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER (SE 1/4, SE 1/4) OF SECTION 32, AND THE

SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER (SW 1/4, SW 1/4) OF SECTION 33, T12S, R65W OF THE 6^{TH} P.M., AND THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER (NE 1/4, NE 1/4) OF SECTION 5, T13S, R65W OF THE 6^{TH} P.M., EL PASO COUNTY, COLORADO, BEING TRACT E, "STERLING RANCH FILING NO. 2" AS RECORDED UNDER RECEPTION NO. 222714894 IN THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER'S OFFICE.SAID PARCEL

CONTAINS 856,016 SQUARE FEET (19.651 ACRES, MORE OR LESS).

APPLICANT INFORMATION

Company: Challenger Homes

Name: Jim Byers

Mailing Address: 8605 Explorer Drive, Suite 250, Colorado Springs, CO 80920

Phone Number: 719-602-5192

FAX Number: N/A

Email Address: jim@mychallengerhomes.com

ENGINEER INFORMATION

Company: M&S Civil Consultants, Inc.

Name: Virgil A. Sanchez Colorado P.E. Number: 37160

Mailing Address: PO Box 1360, Colorado Springs, CO 80901

Phone Number: 719-491-0818

FAX Number: None

Email Address: virgils@mscivil.com

OWNER, APPLICANT, AND ENGINEER DECLARATION

To the best of my knowledge, the information on this application and all additional or supplemental documentation is true, factual and complete. I am fully aware that any misrepresentation of any information on this application may be grounds for denial. I have familiarized myself with the rules, regulations and procedures with respect to preparing and filing this application. I also understand that an incorrect submittal will be cause to have the project removed from the agenda of the Planning Commission, Board of County Commissioners and/or Board of Adjustment or delay review until corrections are made, and that any approval of this application is based on the representations made in the application and may be revoked on any breach of representation or condition(s) of approval.

Signature of owner (or authorized representative)

6-19-23

Date

Engineer's Seal, Signature And Date of Signature



| EVIATION REQUEST (Attach diagrams, figures, and other documentation to clarify request) | | | |
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| deviation from the standards of Section 2.3.3.F.3: Broken Back Curves of the Engineering Criteria Manual (ECM) is reques | ted. | | |
| Identify the specific ECM standard which a deviation is requested: | | | |
| A deviation from the minimum tangent length between broken back curves (200') is requested. An excerpt of the standard is below: | provide | | |
| 3. Broken Back Curves. Two curves in the same direction (broken back curves) shall be separated by a tangent with a length of at least two times the minimus shown in Table 2-10. For local roadways, a minimum tangent of 200 feet shall be used to separate all broken back curves. | ım lengtl | | |
| State the reason for the requested deviation: | | | |
| The deviation is being requested to create a more efficient development in terms of land devoted to transportation facilities at maximize land for single-family and open space land uses on an irregularly shaped infill development parcel. The intersection spacing of Sterling Ranch RD and Alzada to Bynum Rd restricts where Blue Feather Loop can intersect Bynum Dr., restrictin broken Back Curve tangent length requirement. | า | | |
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| Explain the proposed alternative and compare to the ECM standards (May provide applicable regional or national standards as basis): | used | | |
| The proposed transportation facility layout includes the following deviation(s) from standard ECM Standards pertaining to an local roadway cross section. Requesting; | urban | | |
| 88.27' minimum tangent whereas typical standard is 200' minimum tangent length between broken back curves. | | | |
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LIMITS OF CONSIDERATION

| (/ | At least one of the conditions listed below must be met for this deviation request to be considered.) |
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| | □ The ECM standard is inapplicable to the particular situation. □ Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility. ☑ A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public. |
| | Provide justification: |

Justification for the requested deviations include:

- More efficient use of land for infill development
- Facilitate a single-family lot configuration that efficiently responds to utility, vehicle and pedestrian transportation, and drainage demands
- To minimize vehicle dominance of the street realm and streetscape in order to promote pedestrian dominance and orientation with the site plan design and development phase

CRITERIA FOR APPROVAL

Per ECM section 5.8.7 the request for a deviation may be considered if the request is not based exclusively on financial considerations. The deviation must not be detrimental to public safety or surrounding property. The applicant must include supporting information demonstrating compliance with all of the following criteria:

The deviation will achieve the intended result with a comparable or superior design and quality of improvement.

The improvements and proposed cross section will achieve a comparable level of performance as the standard cross section with respect to the following:

- Traffic volume capacity an 88' tangent will not impede traffic capacity
- Utility placement The 88' tangent will not have an impact on utility placement
- Stormwater conveyance The 88' tangent will not have an impact on utility placement
- Pedestrian access and circulation a mid-block t-intersection ped ramp is proposes in the center of the 88' length
- Fire district has reviewed and approved the access and circulation based on their criteria See approval

| The deviation will not adversely affect safety or roadway operations. The Black Forest Fire Rescue Protection District has reviewed and approved the access and circulation provided on the preliminary plan based on their criteria and do not object to the configurations and improvements as shown on the preliminary plan. The Traffic Study is in support of the current layout. Site |
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| distances of 150' will not be impeded as the lots on the inside corners are set back. |
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| The deviation will not adversely affect maintenance and its associated cost. |
| This deviation request would not affect maintenance and any associated cost. These are public roads and shall be maintained by El Paso County. The tangent length between the broken back curves will not financially impact associated roadway maintenance. Any maintenance will be the same as the typical standard length vs. the shortened tangent length. |
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| The deviation will not adversely affect aesthetic appearance. |
| Approval of this deviation request would not affect the aesthetic appearance of the roadway. Typical roadway and Tract H shall be landscaped, and views of the deviated tangent length will be negligible. |
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| The deviation meets the design intent and purpose of the ECM standards. The deviation meets the intent by providing a street cross section and other design features that are consistent with the anticipated function and traffic volumes as described in the TIS. The ECM standards are necessary to protect and promote public health, safety, and the general welfare of the public. This deviation request will have a negligible impact to the purpose of the ECM standards. |
| The deviation meets the design intent and purpose of the ECM standards. The deviation meets the intent by providing a street cross section and other design features that are consistent with the anticipated function and traffic volumes as described in the TIS. The ECM standards are necessary to protect and promote public health, safety, and the general welfare of the public. This deviation request will have a negligible impact to the purpose of the |
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| The deviation meets the control measure requirements of Part I.E.3 | and Part I.E.4 of the County's MS4 permit, as applicable. | | | |
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| The requested deviation meets control measure requirements of Part I.E.3 and Part I.E.4 of the MS4 Permit. Water Quality is being provide by the offsite WQ Pond W4, which is the Sterling Ranch Metro District maintains. | | | | |
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| REVIEW AND RECOMMENDATION: | | | | |
| Approved by the ECM Administrator This request has been determined to have met the criteria for approval. ECM is hereby granted based on the justification provided. | A deviation from Chapter 2 , and <u>Appendix F, SD 4-4</u> of the | | | |
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| Denied by the ECM Administrator This request has been determined not to have met criteria for approval. | A deviation from Chapter 2 , and <u>Appendix F, SD 4-4</u> of the | | | |
| ECM is hereby denied. - | ٦ | | | |
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| CM ADMINISTRATOR COMMENTS/CONDITIONS: | | | | |
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1.1. PURPOSE

The purpose of this resource is to provide a form for documenting the findings and decision by the ECM Administrator concerning a deviation request. The form is used to document the review and decision concerning a requested deviation. The request and decision concerning each deviation from a specific section of the ECM shall be recorded on a separate form.

1.2. BACKGROUND

A deviation is a critical aspect of the review process and needs to be documented to ensure that the deviations granted are applied to a specific development application in conformance with the criteria for approval and that the action is documented as such requests can point to potential needed revisions to the ECM.

1.3. APPLICABLE STATUTES AND REGULATIONS

Section 5.8 of the ECM establishes a mechanism whereby an engineering design standard can be modified when if strictly adhered to, would cause unnecessary hardship or unsafe design because of topographical or other conditions particular to the site, and that a departure may be made without destroying the intent of such provision.

1.4. APPLICABILITY

All provisions of the ECM are subject to deviation by the ECM Administrator provided that one of the following conditions is met:

- The ECM standard is inapplicable to a particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship
 on the applicant, and an equivalent alternative that can accomplish the same design objective is
 available and does not compromise public safety or accessibility.
- A change to a standard is required to address a specific design or construction problem, and if not
 modified, the standard will impose an undue hardship on the applicant with little or no material benefit to
 the public.

1.5. TECHNICAL GUIDANCE

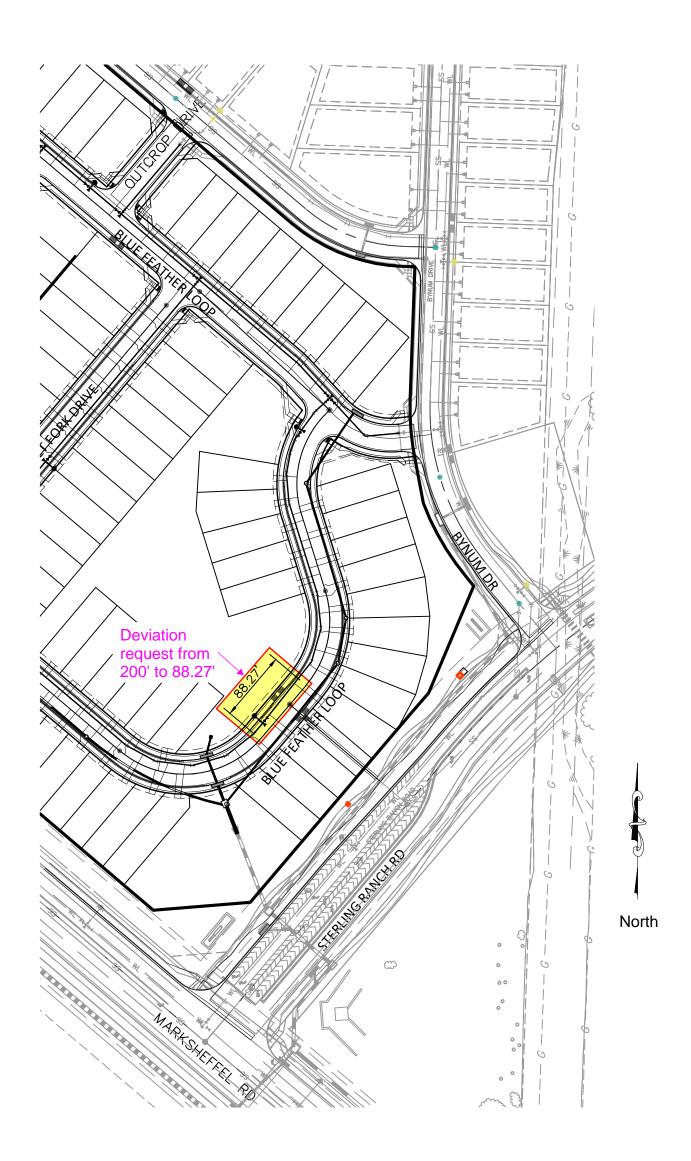
The review shall ensure all criteria for approval are adequately considered and that justification for the deviation is properly documented.

1.6. LIMITS OF APPROVAL

Whether a request for deviation is approved as proposed or with conditions, the approval is for project-specific use and shall not constitute a precedent or general deviation from these Standards.

1.7. REVIEW FEES

A Deviation Review Fee shall be paid in full at the time of submission of a request for deviation. The fee for Deviation Review shall be as determined by resolution of the BoCC.





Planning and Community Development Department 2880 International Circle Colorado Springs, Colorado 80910

DEVIATION REQUEST AND DECISION FORM

Updated: 6/26/2019

Phone: 719.520.6300 Fax: 719.520.6695

Website www.elpasoco.com

| PROJECT INFORMATION | | | | |
|--|-----------------------------|--|--|--|
| Project Name: Copper Chase at Sterling ranch | | | | |
| Schedule No.(s): TBD | | | | |
| Legal Description: TBD | | | | |
| APPLICANT INFORMATION | | | | |
| Company: Challenger Homes | | | | |
| Name : Jim Byers | | | | |
| | | | | |
| Mailing Address: 8605 Explorer Drive, Suite 250, Colorado Sprir | ngs, CO 80920 | | | |
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| | | | | |
| Phone Number: 719-602-5192 | | | | |
| FAX Number: N/A | | | | |
| Email Address: jim@mychallengerhomes.com | | | | |
| ENGINEER INFORMATION | | | | |
| Company: M&S Civil Consultants, Inc. | | | | |
| Name : Virgil A. Sanchez | Colorado P.E. Number: 37160 | | | |
| Mailing Address: PO Box 1360, Colorado Springs, CO 80901 | | | | |
| | | | | |
| Phone Number: 719-491-0818 | | | | |
| FAX Number: None | | | | |
| Email Address: virgils@mscivil.com | | | | |
| Email Address : Virgils@mscivii.com | | | | |
| OWNER, APPLICANT, AND ENGINEER DECLARATION To the best of my knowledge, the information on this application and all additional or supplemental documentation is true, factual and complete. I am fully aware that any misrepresentation of any information on this application may be grounds for denial. I have familiarized myself with the rules, regulations and procedures with respect to preparing and filing this application. I also understand that an incorrect submittal will be cause to have the project removed from the agenda of the Planning Commission, Board of County Commissioners and/or Board of Adjustment or delay review until corrections are made, and that any approval of this application is based on the representations made in the application and may be revoked on any breach of representation or condition(s) of approval. | | | | |
| Signature of owner (or authorized representative) | Date | | | |
| Engineer's Seal, Signature And Date of Signature | | | | |

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DEVIATION REQUEST (Attach diagrams, figures, and other documentation to clarify request)

A deviation from the standards of **Table 2-7**. **Roadway Design Standards for Urban Collectors and Locals**- of the Engineering Criteria Manual (ECM) is requested.

Identify the specific ECM standard which a deviation is requested:

A deviation from the minimum centerline radius (200') and minimum intersection spacing standards (175') for urban local roadways is requested. A summary of the standards in this table is provided below.

Table 2-7. Roadway Design Standards for Urban Collectors and Locals

| Criteria | Collectors | Collectors | | Local | |
|---|-------------------|-------------------|--------------|------------------------------------|--|
| | Non-Residential | Residential | Local | Local ⁴ (low volume) | |
| Design Speed/Posted Speed (MPH) | 40/35 | 40/35 | 25/25 | 20/20 | |
| Clear Zone | 14' | 14' | 12' | 7' | |
| Minimum Centerline Curve Radius | 565' | 565' | 200' | 100' | |
| Number of Through Lanes | 2 | 2 | 2 | 2 | |
| Lane Width | 12' | 12' | 12' | 12' | |
| Right-of-Way | 80' | 60' | 60° 3 | 60 ^{, 3} | |
| Paved Width (Excluding Gutter Pan) | 48' | 36' | 30' | 24' | |
| Median Width (Including Curb & Gutter) | 12' | n/a | n/a | n/a | |
| Shoulder Width (Ext., Excluding Gutter) | 6' | 6' | n/a | n/a | |
| Shoulder Width (Int., Excluding Gutter) | n/a | n/a | n/a | n/a | |
| Required Curb/ Gutter Type (Vertical) | 6" | 6" | 6" (or ramp) | 6" (or ramp) | |
| Sidewalk Width (@ FL) | 5' detached | 5' detached | 5' attached | 5' attached | |
| Design ADT | 20,000 | 10,000 | 3,000 | 300 | |
| Design Vehicle | WB-50 | WB-50 | WB-50 | SU-30 | |
| Bike Lanes Permitted | No | Yes | No | No | |
| Access Permitted | No 5 | No ⁵ | Yes | Yes | |
| Access Spacing | See Table 2-35 | See Table 2-35 | Frontage | Frontage | |
| Intersection Spacing | 660' ² | 660° ² | 175' | 150' | |

State the reason for the requested deviation:

| and to maximize land for single family land uses on an irregularly shaped infill development parcel. | |
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| The proposed transportation facility layout includes the following deviation(s) from standard ECM Standards pertaining to an urban local roadway cross section. Requesting; | | | | |
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| 125' minimum centerline radius whereas typical cross section is 200' minimum centerline radius. 134' minimum intersection spacing whereas typical cross section intersection spacing is 175' when intersecting collect roadways. | | | | |
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Explain the proposed alternative and compare to the ECM standards (May provide applicable regional or national standards used

as basis):

| LIMITS OF CONSIDERATION (At least one of the conditions listed below must be met for this deviation request to be considered.) | | | |
|---|--|--|--|
| □ The ECM standard is inapplicable to the particular situation. □ Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship and an equivalent alternative that can accomplish the same design objective is available and does not compromise public safety or accessibility. ☑ A change to a standard is required to address a specific design or construction problem, and if not modified, the standard will impose an undue hardship on the applicant with little or no material benefit to the public. | | | |
| Provide justification: | | | |
| Justification for the requested deviations include: | | | |
| More efficient use of land for infill development | | | |
| Facilitate a single-family lot configuration that efficiently responds to utility, vehicle and pedestrian transportation, and drainage demands | | | |
| To minimize vehicle dominance of the street realm and streetscape in order to promote pedestrian dominance and orientation with the site plan design and development phase | | | |
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| CRITERIA FOR APPROVAL | | | |
| Per ECM section 5.8.7 the request for a deviation may be considered if the request is <u>not based exclusively on financial considerations</u> . The deviation must not be detrimental to public safety or surrounding property. The applicant must include supporting information demonstrating compliance with <u>all of the following criteria</u> : The deviation will achieve the intended result with a comparable or superior design and quality of improvement. | | | |
| The improvements and proposed cross section will achieve a comparable level of performance as the standard cross section with respect to the following: | | | |
| Traffic volume capacity | | | |
| Utility placement | | | |
| Stormwater conveyance Pedestrian access and circulation | | | |
| Fire district has reviewed and approved the access and circulation based on their criteria. | | | |
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| The deviation will not adversely affect safety or operations. | | | |
| The deviation will not adversely affect safety or roadway operations. The Black Forest Fire Rescue Protection District has | | | |
| reviewed and approved the access and circulation provided on the preliminary plan based on their criteria and do not object to the configurations and improvements as shown on the preliminary plan. The Traffic Study is in support of the current layout. | | | |
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| The deviation will not adversely affect maintenance and its associated cost. |
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| Deviation will not affect maintenance and its associated cost. Access will be maintained by El Paso County since the roadway is located within Right Of Way. |
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| The deviation will not adversely affect aesthetic appearance. |
| Deviation will not affect aesthetic appearance of the impacted roadway section. |
| Roadway and Entry Feature landscaping will be provided to enhance the streetscape of the impacted roadway section. |
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| The deviation meets the design intent and purpose of the ECM standards. |
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| The deviation meets the intent by providing a street cross section and other design features that are consistent with the |
| The deviation meets the intent by providing a street cross section and other design features that are consistent with the anticipated function and traffic volumes as described in the TIS. |
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| The deviation meets the intent by providing a street cross section and other design features that are consistent with the anticipated function and traffic volumes as described in the TIS. The deviation meets the control measure requirements of Part I.E.3 and Part I.E.4 of the County's MS4 permit, as applicable. |
| The deviation meets the intent by providing a street cross section and other design features that are consistent with the anticipated function and traffic volumes as described in the TIS. |
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REVIEW AND RECOMMENDATION:

| Approved by the ECM Administrator This request has been determined to have met the criteria for approval. | A deviation from Chapter 2 , and Appendix F , SD_4-4 of the |
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| ECM is hereby granted based on the justification provided. | |
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| Denied by the ECM Administrator | |
| This request has been determined not to have met criteria for approval. ECM is hereby denied. | A deviation from Chapter 2 , and <u>Appendix F, SD_4-4</u> of the |
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| ECM ADMINISTRATOR COMMENTS/CONDITIONS: | |
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1.1. PURPOSE

The purpose of this resource is to provide a form for documenting the findings and decision by the ECM Administrator concerning a deviation request. The form is used to document the review and decision concerning a requested deviation. The request and decision concerning each deviation from a specific section of the ECM shall be recorded on a separate form.

1.2. BACKGROUND

A deviation is a critical aspect of the review process and needs to be documented to ensure that the deviations granted are applied to a specific development application in conformance with the criteria for approval and that the action is documented as such requests can point to potential needed revisions to the ECM.

1.3. APPLICABLE STATUTES AND REGULATIONS

Section 5.8 of the ECM establishes a mechanism whereby an engineering design standard can be modified when if strictly adhered to, would cause unnecessary hardship or unsafe design because of topographical or other conditions particular to the site, and that a departure may be made without destroying the intent of such provision.

1.4. APPLICABILITY

All provisions of the ECM are subject to deviation by the ECM Administrator provided that one of the following conditions is met:

- The ECM standard is inapplicable to a particular situation.
- Topography, right-of-way, or other geographical conditions or impediments impose an undue hardship
 on the applicant, and an equivalent alternative that can accomplish the same design objective is
 available and does not compromise public safety or accessibility.
- A change to a standard is required to address a specific design or construction problem, and if not
 modified, the standard will impose an undue hardship on the applicant with little or no material benefit to
 the public.

1.5. TECHNICAL GUIDANCE

The review shall ensure all criteria for approval are adequately considered and that justification for the deviation is properly documented.

1.6. LIMITS OF APPROVAL

Whether a request for deviation is approved as proposed or with conditions, the approval is for project-specific use and shall not constitute a precedent or general deviation from these Standards.

1.7. REVIEW FEES

A Deviation Review Fee shall be paid in full at the time of submission of a request for deviation. The fee for Deviation Review shall be as determined by resolution of the BoCC.

WATER RESOURCES REPORT —COPPER CHASE AT STERLING RANCH

TOPICAL REPORT RSI-3232 A

PREPARED BY

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RESPEC

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PREPARED FOR

Falcon Area Water and Wastewater Authority (SR Water)

OCTOBER 2022

Project Number W0242.22001











EXECUTIVE SUMMARY

This report is a revision of Water Report for Copper Chase at Sterling Ranch, also known as parcels 10 in the Sterling Ranch overall planning map. The land is to be provided central water and sewer services through the Falcon Area Water and Wastewater Authority (FAWWA), which will become the overall service entity for, not only the Sterling Ranch Metropolitan District, but also the Retreat and the future Ranch.

It is expected that an urban residential home in Sterling Ranch will require an average of 0.353 annual acre-feet, which is the adopted user characteristic for FAWWA. This is consistent with historic needs for nearby developments. Note that for the very small high-density lots, FAWWA has adopted an SFE equivalency ratio to account for substantially reduced water needs, although this is partially offset by estimation of common area irrigation needs.

Copper Chase at Sterling Ranch includes 138 lots which fall into high-density development ratios for small lots, and roughly 1.368 acres of irrigated landscaping. **The resulting water demand is 52.13 acrefeet.**

Appendix F is an accounting of active water commitments, which total 864.19 acre-feet including Sterling Ranch East Phases One, Two, Three and Homestead North Filing 3.

A major addition in this report is the addition of substantial supplies of water through the McCune (BD-1689, BD-1690, BD-1691), Bar-X (85CW-445 and 93 CW-018), and Shamrock West (85 CW 131) acquisitions. With the recent acquisitions, the current available water supply for FAWWA or SRMD is now 1901.83 acre-feet 300 year. Current Water Supply Inventory is in Table 2.

This leaves a net excess of currently available water of 1037.64 AF_{300 year} and therefore there is more than sufficient water supply to meet the needs of Sterling Ranch East Phase One on the 300-year basis.

RSI-3232 A







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1.0 INTRODUCTION

The purpose of this study is to provide the Water Resources Report necessary for the Copper Chase Sterling Ranch development.

1.1 NEW DEVELOPMENT DESCRIPTION

The Sterling Ranch East Phase One development is located east of Vollmer Road and north of Woodmen Road..

<u>Appendix A</u> contains the *Overall Service Area Map* for FAWWA, which includes SRMD.

Appendix B contains the proposed Copper Chase at Sterling Ranch

2.0 PROJECTION OF WATER NEEDS

2.1 ANALYSIS OF WATER NEEDS

It is expected that the residential lots on central water will be developed with single-family housing with anticipated turf grass landscaping.

For the last five years, there has been a trend in land use that provides for much smaller lots and much denser development in certain areas. Lots smaller than 7,000 square feet are anticipated in certain areas. This is resulting in much lower water needs for these types of developments. The standard SFE adopted in Sterling Ranch has been 0.353 annual acre-feet. However, this is for the formerly typical household anticipating 1500 square feet or more of landscaping. In order to adjust for such increases in density, we are adopting a scaled down equivalency to meet the changes in lot sizes. For instance, lot areas less than 3500 sf have reduced water use that roughly is equivalent to apartments or townhomes where water use is indoor only.

In order to address this trend towards high-density development, we have established a SFE equivalency factor scale as follows for these smaller lot sizes;

Effective Annual Lot Size SFE Ratio Demand Lots < 2000 SF 0.65 0.23 Lots < 3500 SF 0.75 0.265 Lots < 7000 SF 0.90 0.318 Lots > 7000 SF 1.0 0.353

Table 1. SFE Equivalency for High Density Lots







Copper Chase at Sterling Ranch proposes a 1.39 acre park, which we would estimate would have roughly 50% active landscaping cover. It is also estimated that an additional 29,329 square feet of active landscaping will be maintained in the tracts.

The expected water demands are shown in Table 2 following:

Table 2. Projected Water Demands for Sterling Ranch East Phase One

| # of Units | Land Use | Water Use Per Unit (AF/Unit) | Annual Demand (AF) | Average Daily Flow (ADF) (GPD) | Maximum Daily Flow (MDF) (@2.45 x ADF) (GPD) | Peak-Hour Flow (@ 1.5 x MDF) (GPM) |
|------------|----------------------------|---------------------------------|-----------------------|--------------------------------------|--|---|
| 0 | Residential < 2000 SF | 0.23 | 0 | 0 | 0 | 0 |
| 0 | Residential < 3500 SF | 0.265 | 0 | 0 | 0 | 0 |
| 0 | Residential < 7000 SF | 0.318 | 0 | 0 | 0 | 0 |
| 138 | Residential > 7000 SF | 0.353 | 48.71 | 43,489 | 106,548 | 111 |
| 1.368 | Acres-Active Irrigation | 2.5 | 3.42 | 3,054 | 7.482 | 7.8 |
| Total | | | 52.13 | 46,543 | 114,029 | 118.8 |

The total annual demand of Copper Chase at Sterling Ranch is 52.13 AF.





3.0 WATER RIGHTS AND SYSTEM FACILITIES

3.1 WATER RIGHTS

Water rights adjudications have been decreed by the State of Colorado, Water Division 2 District Court, Water Division 1 District Court, and the Colorado Groundwater Commission. The comprehensive rights for the FAWWA service include both decrees and determinations. Local groundwater rights are associated with the service area components, Sterling, and the Retreat. Each of these sites has existing decrees and/or determinations outlining the rights associated with the development lands.

The most recent water rights added to the Sterling Ranch Inventory are three acquisitions noted in Table 3. below. Both the water decrees and determinations are included in Appendix C as well as the deeds for the water.

The three acquisitions are;

391.33 acre-feet 300 year McCune BD-1689, BD-1690, BD-1691 Bar-X Ranch 85CW-445 and 93 CW-018 592.78 acre-feet 300 year Shamrock West 85 CW 131 220.10 acre-feet 300 year

Table 3 on the following page details all of the water rights currently available for the FAWWA service area which now total 1901.83 acre-feet 300 year





Update September 30, 2022



<u>Fable 3</u> <u>Falcon Area Water and Wastewater Authority</u> <u>Comprehensive Water Supply Inventory</u> <u>Current Legal Supply</u>

| | Reference Finding/ | | | Annual | Annual | | | | Saturated |
|--|---|------------------------|---|---|---|---|--|-----------------------|-----------|
| Land | Determination/ | Tributary | Volume | Allocation | Allocation | Reference Deed | Notes | Sand | Specific |
| Formation/Aquifer | Decree | Status | Acre-Feet | 100 Year | 300 Year | | | Thickness | Yield |
| | l | 0. | Site Steeling | Water Legal Son | | L | l. | | |
| Laramie Fox Hills | 86-CW-19 | NT | 53,900 | 539.00 | 179.67 | | Under 1410 acres | 255 | 15% |
| | 08CW113 | NT | 40 | 0.40 | 0.13 | FAWWA Assignment | Under 41.44 acres, reduced to 1.44 acres | | |
| | | | | | | from SR Water | | | |
| Arapahoe | 86-CW-18 | NT | 57500 | 575.00 | 191.67 | | Under 1410 acres | 240 | 17% |
| | | | | | 371.47 | | | | |
| | | | en | ited Sterling Wate | | | | | |
| Laramie Fox Hills | 20CW 3059 | NT O | 2780 | 27.80 | 9.27 | | 97.54 acres SR Quarry | 190 | |
| | 20 CW 3059 | NNT | 4320 | 43.20 | 14.40 | | (Note 5) 97.54 acres SR Quarry | 260.5 | |
| Arapahoe | | | | | | | (Note 5) | | |
| Denver | 20 CW 3059 | NNT | 4895 | 48.95 | 16.32 | FAWWA Assignment | 97.54 acres SR Quarry (Note 5) | 295.2 | |
| | | | | | | from SR Water | | | |
| Denver | 08CW113 Aug 20CW 3059 | NNT | 72893 | 728.93 | 242.98 | | Sterling Ranch 1410 acres | | |
| | | l | | | | | | | |
| Arapahoe | 08CW113 Aug 20CW 3059 | NNT | 60 | 0.60 | 0.20 | | Sterling Ranch 41.44 reduced to 1.44 acres | | |
| | _ | | | | 283.16 | | <u> </u> | | |
| | | | | | | | | | |
| | <u>01</u> | f site Bar-X C | iround Water | Sources (Note 4) | | | | | |
| Laramie Fox Hills | 93-CW-018 85 CW 445 | NT | | | | | All water already Sold (427 - 100 yr) | 200 | 15% |
| | | | | | | | | | |
| Arapahoe | 93-CW-018 | NT | 74250 | 742.50 | 247.50 | | Shamrock/Bar-x Rights | 260 | 17% |
| | 85 CW 445 | | | | | Special Warranty Deed | | | |
| Denver | 93-CW-018 85 CW 445 | NT | 119900 | 1199.00 | 399.67 | Bar-X Shamrock West | Shamrock/Bar-x Rights | 435 | 17% |
| | 85 CW 445 | NT | -16317 | -163.17 | -54.39 | | Net Set Aside for Sterling Ranch Post Pumping De | pletions (20 CW 3059) | |
| Dawson | 93-CW-018 | NNT | 128800 | 1288.00 | 0.00 | | | 490 | 20% |
| | | NNI | 120000 | 1200.00 | 0.00 | | Need Augmentation Plan | 490 | 2076 |
| Total Net Supply Bar-X (without : | augmentation) | | | | 592.78 | | | | |
| | | Shamrock F | Vest Ground V | Vater Sources | | | | | |
| _ | | | | | | | | | |
| Dawson | 85 CW131 | NNT | 49,800 | 498 | 0.00 | | Needs Augmentation | | |
| Denver NNT | 85 CW131 | NNT | 105,700 | 1057 | 0.00 | Special Warranty Deed | Needs Augmentation | | |
| Denver NT | 85 CW131 | NT | 18,700 | 187 | 62.33 | Bar-X Shamrock West | | | |
| Arapahoe NNT | 85 CW131 | NNT | 2,500 | 25 | 0.00 | | Needs Augmentation | | |
| Arap ahoe NT | 85 CW131 | NT | 47,400 | 474 | 158.00 | | | | |
| Total Additional Contingent Supp | | | | 661.00 | 220.3 | | 1 | | |
| Total Additional Contingent Supp | | site McCune | Ground Wate | r Sources (Note 5 | | | | | |
| | | | | | | | | | |
| Ii- F Mill- | 1600 PD | NET | 26 200 | 267.00 | 97.47 | | 000 62 | | |
| Laramie Fox Hills | 1689-BD | NT | 26,300 | 263.00 | 87.67 | | 900.52 acres | | |
| | | | | | | | | | |
| Laramie Fox Hills Arapahoe | 1689-BD | NT NT | 26,300 39800 | 263.00 398.00 | 87.67 132.67 | Special Warranty Deed | 900.52 acres 900.52 acres | | |
| | | | | | | Special Warranty Deed McCune | | | |
| | | | | | | | | | |
| Arapahoe | 1690-BD | NT | 39800 | 398.00 | 132.67 | | 900.52 acres | | |
| Arapahoe | 1690-BD | NT | 39800 | 398.00 | 132.67 | | 900.52 acres | | |
| Arapahoe Denver | 1690-BD 1691-BD | NT | 39800 | 398.00 | 132.67 171.00 | | 900.52 acres | | |
| Arapahoe | 1690-BD 1691-BD | NT | 39800 | 398.00 | 132.67 | | 900.52 acres | | |
| Arapahoe Denver | 1690-BD 1691-BD | NT | 39800 51300 | 398.00 513.00 | 132.67 171.00 391.33 | | 900.52 acres | | |
| Arapahoe Denver Total Net Supply McCune (witho | 1690-BD 1691-BD of organization) | NT NT | 39800 51300 On-Site Retree | 398.00 | 132.67 171.00 391.33 | | 900.52 acres 900.52 acres 1500 AF Retained | 100 | · · |
| Arapahoe Denver | 1690-BD 1691-BD | NT | 39800 51300 | 398.00 513.00 | 132.67 171.00 391.33 | | 900.52 acres | 190 | 15% |
| Arapahoe Denver Total Net Supply McCune (witho | 1690-BD 1691-BD of organization) | NT NT | 39800 51300 6,440 -612 -2,796 | 398.00 513.00 | 132.67 171.00 391.33 | | 900.52 acres 900.52 acres 1500 AF Retained | 190 | 15% |
| Arapahoe Denver Fotal Net Supply McCune (without Fox Hills in title) | 1690-BD 1691-BD strongmentation) | NT NT NT NT | 39800 51300 On-Site Retro- 6,440 -612 | 398.00 513.00 | 132.67 171.00 391.33 | | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres | 190 | 15% |
| Arapahoe Denver Total Net Supply McCune (without Fox Hills in title) Laranie Fox Hills in title) | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT NT NT | 51300 51300 6,440 6,140 6,12 3,032 | 398.00 \$13.00 \$13.00 Water Level Sci | 132.67 171.00 391.33 unces (Note I) | | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells | | |
| Arapahoe Denver Total Net Supply McCune (without law feet Hills in title) | 1690-BD 1691-BD strongmentation) | NT NT NT NT | 39800 51300 6,440 -612 -2,796 | 398.00 513.00 | 132.67 171.00 391.33 | | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres | 190 | 15% |
| Arapahoe Denver Total Net Supply McCune (without the Supply McCune (without the Supply McCune) Larranie Fox Hills in title) LFH (R.dioquishment) Arapahoe | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT NT NT | 51300 51300 6,440 6,140 6,12 3,032 | 398.00 \$13.00 \$13.00 Water Level Sci | 132.67 171.00 391.33 unces (Note I) | | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells | | |
| Arapahoe Denver Otal Net Supply McCune (without in title) Laramic Fox Hills in title) LPH (Relinquichment) Arapahoe Legal Supply: Phase 5, | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT NT NT | 51300 51300 6,440 6,140 6,12 3,032 | 398.00 \$13.00 \$13.00 Water Level Sci | 132.67 171.00 391.33 unces (Note I) | | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells | | |
| Arapahoe Denver Josephy McCune (without the standard Fox Hills in inde) Larminie Fox Hills in inde) LPH (Relinquishment) | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT NT NT | 51300 51300 6,440 6,140 6,12 3,032 | 398.00 \$13.00 \$13.00 Water Level Sci | 132.67 171.00 391.33 unces (Note I) | | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells | | |
| Denver Denver Total Net Supply McCune (without in title) Laramie Fox Hills in title) LFH (Relinquishment) Arapahoe Legal Supply: Phase 3, Phase 4 (exchaling Lets 39-41) and Phase 6 | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT NT NT | 39800 51300 0n-Site Retro 6,440 -612 -2,796 3,032 9,796 | 308.00 S13.00 S13.00 Water Leval Si 30.32 97.96 | 132.67 171.00 391.33 www.ex.(Note I) 10.11 32.65 | McCune McCune | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells | | |
| Arapahoe Denver Cotal Net Supply McCune (without the supply McCune (witho | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT NT NT | 39800 51300 51300 0n-Site Retro 6,440 -612 -2,796 3,032 9,796 | 398.00 \$13.00 \$13.00 # Water Leval Si 30.32 97.96 | 132.67 171.00 391.33 10.11 32.65 | McCune McCune 20 Saught Family Wells Dhare 2 caydadan Loda 15 | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells | 255 | |
| Denver Denver Total Net Supply McCune (without in title) Laramie Fox Hills in title) LFH (Relinquishment) Arapahoe Legal Supply: Phase 3, Phase 4 (exchaling Lets 39-41) and Phase 6 | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT NT NT | 39800 51300 0n-Site Retro 6,440 -612 -2,796 3,032 9,796 | 308.00 S13.00 S13.00 Water Leval Si 30.32 97.96 | 132.67 171.00 391.33 www.ex.(Note I) 10.11 32.65 | McCune McCune | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells Under 225.97 acres | 255 | 17% |
| Denver Denver Lotal Net Supply McCune (without the supply McCune (without | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT NT NT | 39800 51300 51300 0n-Site Retro 6,440 -612 -2,796 3,032 9,796 | 398.00 \$13.00 \$13.00 # Water Leval Si 30.32 97.96 | 132.67 171.00 391.33 10.11 32.65 | McCune McCune 20 Single Family Wells [Dhare J cavidating Lots 1, 12, 12, 12, 13, 20, 44, 14] | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells Under 225.97 acres | 255 | 17% |
| Denver Denver Laranie Fox Hills in fite) LFH (Relinquishment) Arapahoe Legal Supply: Plane 3, Phase 4 (excluding Lots 39-41) and Plane 6 Augunostion (Dawon NNT) Legal Supply: Plane 2 (excluding Lots 11-12), Augunostiale (Davon NNT) | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT NT NT | 39800 51300 51300 51300 6,440 -612 -2,796 3,032 9,796 | 398.00 S13.00 S13.00 Water Leval Si 30.32 97.96 | 132.67 171.00 391.33 www.c.(Note D) 10.11 32.65 42.76 9.32 | McCune 29 Smule Family Wells, [Phane J (rectuding Lots 1; 13), Lot 43 0.0 4.4 of Phane 4; 4; 5] | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells Under 225.97 acres | 255 | 17% |
| Denver Denver Total Net Supply McCune (without the first Hills in title) LFH (Relinquichment) Arapahoe Legal Supply: Phase 8, Phase 4 (excluding Lots 39-41) and Phase 6 Augmentation (Dawson NNI) Legal Supply: Phase 8, (excluding Lots 19-11) Legal Supply: Phase 8, (excluding Lots 11-11) | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT Aug | 39800 51300 51300 61300 6,440 612 -2,796 3,002 9,796 | 308.00 513.00 513.00 Mater Leval Sa 30.32 97.96 128.28 27.96 | 132.67 171.00 391.33 10.11 32.65 | McCune 29 Single Family Wells Phase 2 (excluding Lots 11- 32), 10st 30 40 44 10 Thus 4(e, 2) | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells Under 225.97 acres | 255 | 17% |
| Denver Lotal Net Supply McCune (without the state of the | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT NT NT Aug Aug | 3980) \$1300 \$1300 \$1300 0n.Sile Retro 6,440 -012 -2.796 12,2786 12,2786 1467.5. | 398.00 513.00 513.00 4. Water Leval Sa 30.32 97.96 128.28 27.96 | 132.67 171.00 391.33 00000 (New I) 10.11 32.65 42.76 9.32 5.23 5.23 5.23 5.23 5.23 5.24 5.24 5.25 | McCune McCune 20 Sinule Family Wells Dhare 2 (excluding Lots 1: 13), 164 30, 30 & 41 of Flues 4; & 5] to single a many wear O'has 13; 25 Single Family Wells | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells Under 225.97 acres Replace a min of 5% of pumping Replace a notal deptations | 255 | 17% |
| Denver Denver Laramie Fox Hills in titel) LFH (Relinquishment) Arapahoe Legal Supply: Plane 3, Plane 4 (excheding Lots 39-41) and Plane 6 Auguenzás no Daswon NNT) Legal Supply: Plene 2 (excheding Lots 11-12). Auguenzás no filosovon NNT) | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT Aug | 39800 51300 51300 61300 6,440 612 -2,796 3,002 9,796 | 308.00 513.00 513.00 Mater Leval Sa 30.32 97.96 128.28 27.96 | 132.67 171.00 391.33 10.11 32.65 | McCune 29 Smule Family Wells, [Phane J (rectuding Lots 1; 13), Lot 43 0.0 4.4 of Phane 4; 4; 5] | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells Under 225.97 acres | 255 | 17% |
| Denver Lotal Net Supply McCune (without the state of the | 1698-BD 1691-BD 1691-BD 17CW3002 18CW3002 | NT NT NT NT NT Aug Aug | 3980) \$1300 \$1300 \$1300 0n.Sile Retro 6,440 -012 -2.796 12,2786 12,2786 1467.5. | 398.00 513.00 513.00 4. Water Leval Sa 30.32 97.96 128.28 27.96 | 132.67 171.00 391.33 00000 (New I) 10.11 32.65 42.76 9.32 5.23 5.23 5.23 5.23 5.23 5.24 5.24 5.25 | McCune McCune 20 Sinule Family Wells Dhare 2 (excluding Lots 1: 13), 164 30, 30 & 41 of Flues 4; & 5] to single a many wear O'has 13; 25 Single Family Wells | 900.52 acres 900.52 acres 1500 AF Retained Under 225.97 acres PPD Augmenting 29 wells Under 225.97 acres Replace a min of 5% of pumping Replace a notal deptations | 255 | 17% |

Note 1. The water listed in the shaded area will be used to serve single family wells and is not included in the Total Available for the Central System

Note 2. In February, 2022: removed the existing Bar-X holding from the supply latest as the LFH water is dedicated to past-pumping depletions for Augustration Case 20 CW 3059

and added the water yield from Case 20 CW 3059

Total Current 300-Year Water Supply (AF)

1901.83 Acre. Feet : Legal Water Supply For Falcon Area Water and Wastewater Authority Central System

FAWWA On-Site Supplies

FAWWA Off-Site Supplies
FAWWA Retreat Water Supplies

Retreat Wells private wells not included in Calculation

JDS-Hydro a Division of Respec







3.2 ADEOUACY OF WATER RIGHTS CURRENT SUPPLY

Starling original on-site pon-tributary (NT) water rights

The current water rights inventory by area is as follows:

| • | Sterling originar or site non-tributary (ivi) water rights | 37 1.47 At 300 year |
|---|--|-------------------------------|
| 1 | 02 CW 3059 | 283.16 AF _{300 year} |

/ Retreat at Timber Ridge on-site rights – 42.76 AF_{300 year}

 / McCune
 BD-1689, BD-1690, BD-1691
 391.33 acre-feet 300 year

 / Bar-X Ranch
 85CW-445 and 93 CW-018
 592.78 acre-feet 300 year

 / Shamrock West
 85 CW 131
 220.10 acre-feet 300 year

Sterling-owned and currently available on-site NT and adjudicated not non-tributary (NNT) water totals are 1901.83 $AF_{300 \, year}$, which would be adequate supply to meet the needs of 5,387 SFE.

As of this report 2022, the total water commitment within SRMD requires 864.19 AF_{300 year}. See Appendix F – FAWWA Water Supply vs Current Water Commitments. As of this report, the above includes Sterling Ranch East Phases One, Two, Three, and Homestead North at Sterling Ranch Filing 3.

This leaves a net excess of currently available water of 1037.64 AF_{300 year} and therefore there is more than sufficient water supply to meet the needs of Sterling Ranch East Phase One on the 300-year basis.

3.3 MASTER PLANNING AND LONG-TERM AND FUTURE SOURCES OF SUPPLY

The FAWWA water system has only been in operation for three years, so little-to-no usable historic information would be reliable for unique, long-term planning. However, substantial nearby data from the Falcon area is available for use. As of the end of 2021, the system had approximately only 300 active users. Therefore, initial projections have been based on area-wide water user characteristics and a linear buildout rate. This rate is considered to be an average annual rate that might be reasonably maintainable over a 10-year period. The average growth rate is projected as 180 units added per year.

- 2040 Scenario: Based on the above factors, the FAWWA system might conservatively anticipate serving 3,710 SFEs in the year 2040. This number is a service area projection and includes the Retreat and The Ranch, as well as the main Sterling Ranch residents. This would require no additional water.
- 2060 Scenario: Based on the same factors, the Sterling system might be expected to serve 7,310 SFEs within its expanded service area, which includes the Retreat and The Ranch. This would be substantially greater than the actual Sterling Ranch. The annual acre-foot requirement might be 679 annual AF, but supply would include water from The Ranch which has not yet been added to inventory.

In addition to adding off-site sources, potential, additional supplies include renewable resources and/or regional projects bringing new water to the area

371 /7 AF



<u>Long-Term Planning:</u> Future water supply has already been contracted for and plans for implementation are underway. The first project recently completed provides augmentation for certain on-site NNT water, so that that water may be used in existing and expanded well fields on-site.

- Regionalization Opportunities: FAWWA's main supply source is centralized at a point that both Cherokee Metropolitan District and Woodmen Hills Metropolitan District have adjacent major storage and delivery facilities. There are currently no arrangements in place to make connections, but in the future, SRMD may seek to have interconnections and possibly share supply.
 - The second element is a much broader regionalization: conducting cooperative actions with Colorado Springs Utilities (CSU), which SRMD has been open to. CSU is potentially also open to shared physical facility utilization, which would enable Sterling to expand its scope in seeking water rights. While it is not expected that Sterling will provide actual water, the access to facilities opens greater doors for SRMD.
- 2. Indirect, Reuse, Lawn Irrigation Return Flows (LIRF) Credits, Aquifer Storage/Recharge, and Direct Reuse: Regarding return flows, initial development is being planned around sourcing available physical supplies. These supplies are all fully-consumable and ultimately result in potential return-flow capabilities. Since SRMD wastewater is discharged to the Meridian system, which in turn has the potential to convert some reusable flows to available physical supplies, those options will be available and considered by Sterling. With regard to LIRF credits, Sterling has already initiated a case that will make augmentation use of its potential LIRF credits.

3.4 SYSTEM INTERCONNECTS

FAWWA currently has no system interconnections. However, as discussed previously, FAWWA's main supply source is centralized at a point that both Cherokee Metropolitan District and Woodmen Hills Metropolitan District have adjacent major storage and delivery facilities. It is possible that future agreements could be made.

3.5 SOURCE OF PHYSICAL SUPPLY

Municipal water demand would be met using primarily Arapahoe and Laramie-Fox Hills formation wells in the SRMD area. The first well site will be drilled with an Arapahoe Well (A-1) and Laramie-Fox Hills Well (LFH-1); well site #1 includes both an Arapahoe and a Laramie-Fox Hills well. Additional permits will be obtained as needed to ultimately continue to add to the system as needed. Existing well permits are included in **Appendix D**.

FAWWA has begun the process of filing to drill the second set of wells on the Retreat site which will possibly be needed in 2024.

Off-site water to the north of the SRMD service area is generally in the Denver and Arapahoe formations.







Appendix E contains the water quality reports for the initial wells drilled at Sterling Ranch. The quality is generally consistent with Denver Basin water typically encountered in the Falcon area. The quality of water in these aquifers in this area has typically been suitable for potable use with the addition of iron and manganese treatment.

3.7 WATER STORAGE, DISTRIBUTION, AND TRANSMISSION LINES

An initial 1.0-million-gallon tank has already been constructed at the SRMD site.

For the purpose of fire protection, we recommend eight-inch lines throughout the residential subdivision. The lines should be looped wherever the street layout allows. A transmission line of 24-inches in diameter has been extended south-southwesterly along one of the major roadways from the storage tank into Phase One of the development.

3.8 PUMPING FOR SERVICE PRESSURES

Ground elevations within the development service area range from approximately 6,970 feet to 7,320 feet. Adequate service pressures are generally considered 60 psi for residential service. The tank site is on the Sterling property at a base elevation of approximately 7,310 feet, which would be capable of supplying acceptable service pressures to ground elevations of approximately 7,190 feet. Initial development is anticipated to be at elevations below 7,190 feet, so the tank site will be able to provide adequate pressure.

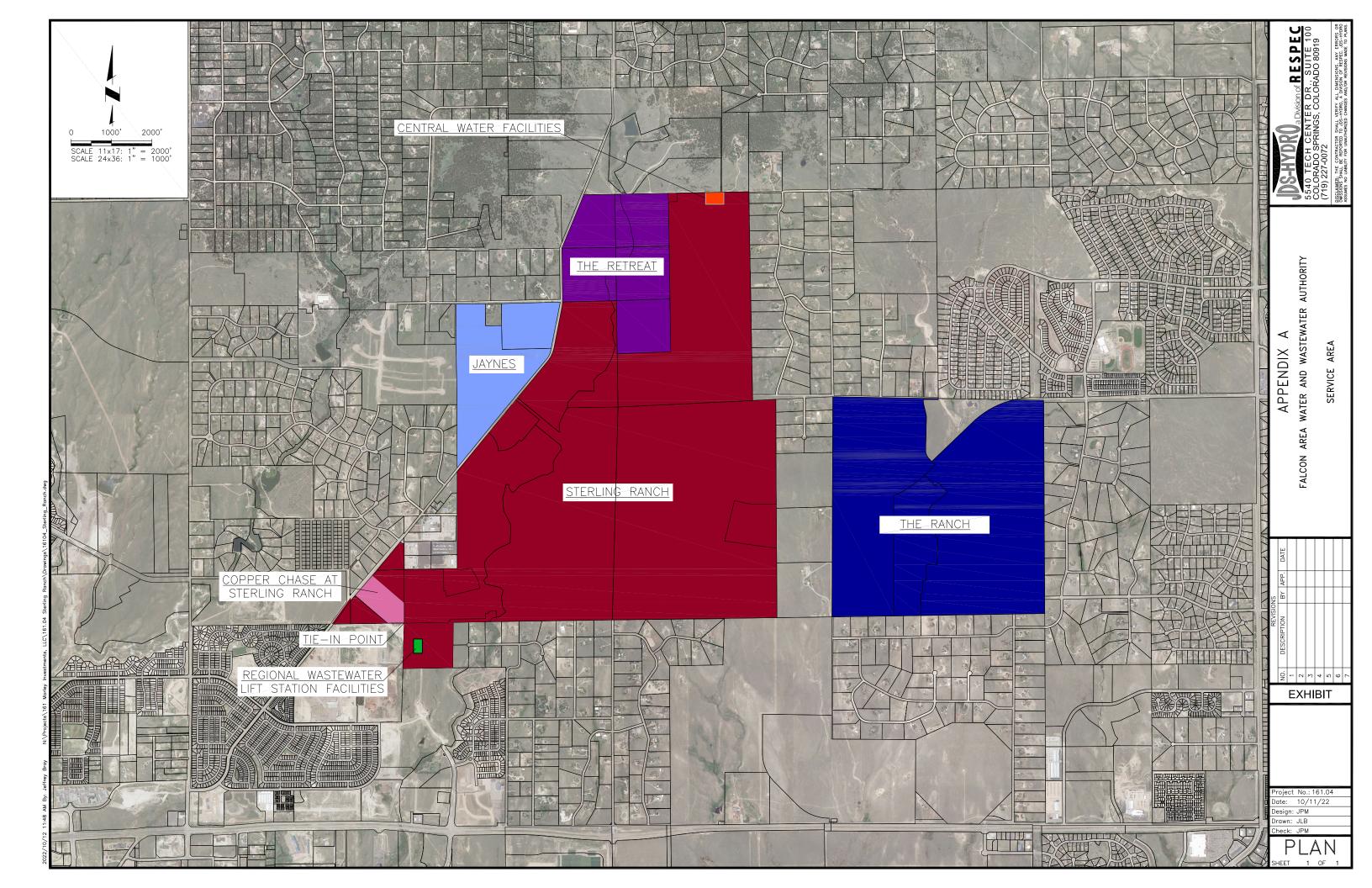
Development construction has progressed such that the pressure system is likely to be needed sometime in 2023, FAWWA is currently constructing the pressure pump station so that it will be ready when needed next year.

APPENDIX A

FAWWA WATER SERVICE AREAS







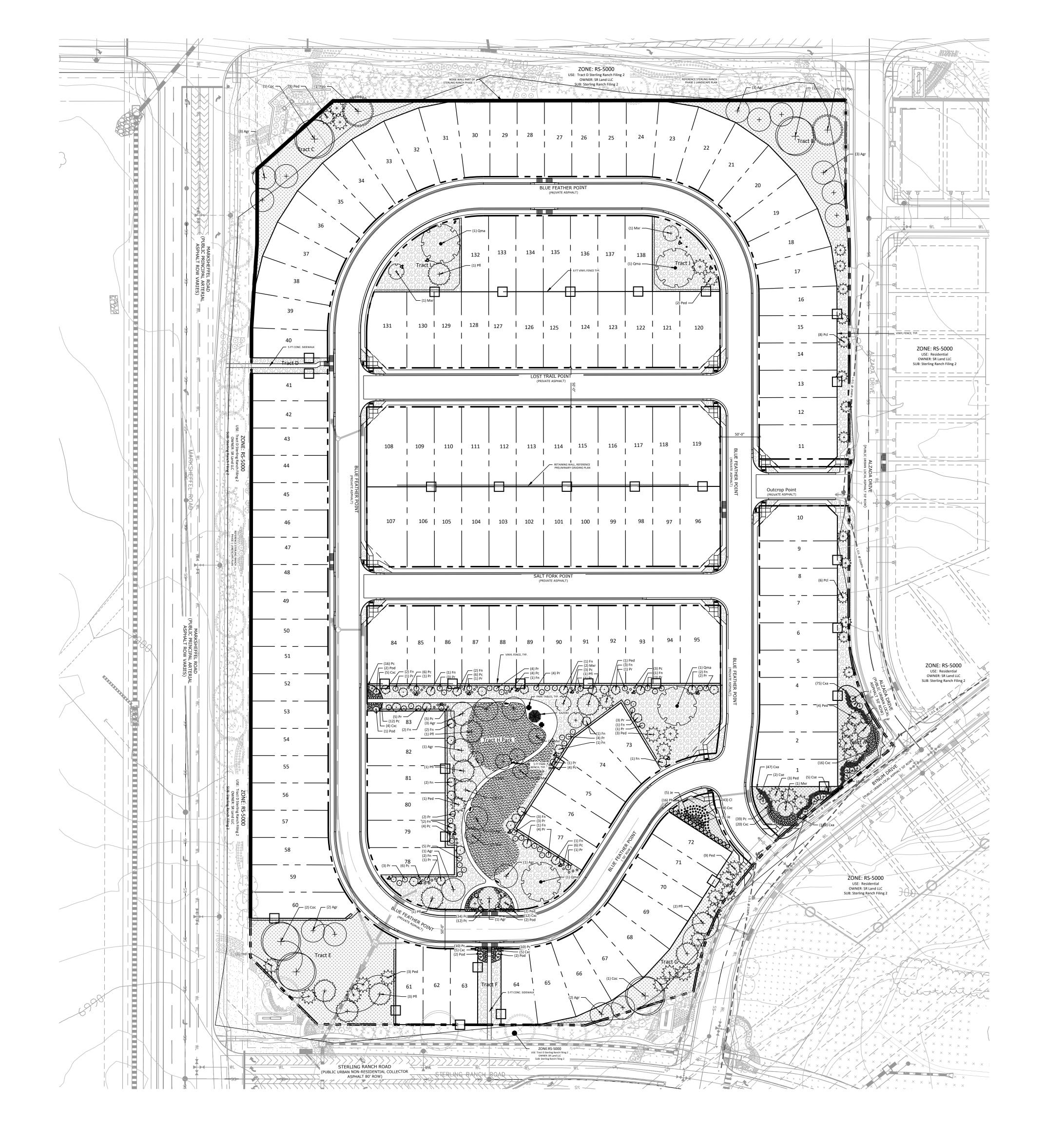
APPENDIX B

COPPER CHASE AT STERLING RANCH





CONCEPT PLANT SCHEDULE





N.E.S. Inc. 619 N. Cascade Avenue, Suite 200 Colorado Springs, CO 80903

Tel. 719.471.0073 Fax 719.471.0267

www.nescolorado.com

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Copper Chase at Sterling Ranch

A. Barlow

8335 Vollmer Road

03.25.2022 PROJECT MGR: PREPARED BY: B. Halsten & J. Smith

Entitlement

06.21.2022 B.H. PER COUNTY COMMENT

PUD Site Plan

PUDSP 22-002

APPENDIX C

WATER RIGHTS DECREES





Appendix C

Listing of Decrees/Determinations/Deeds in Appendix

| <u>Deeds</u> |
|--------------------------------------|
| FAWWA Assignment |
| FAWWA Assignment |
| FAWWA Assignment |
| |
| |
| FAWWA Assignment |
| Special Warranty Deed Bar-X Shamrock |
| West |
| Special Warranty Deed Bar-X Shamrock |
| West |
| Special Warranty Deed Bar-X Shamrock |
| West |
| Special Warranty Deed McCune |
| Special Warranty Deed McCune |
| Special Warranty Deed McCune |
| |

ASSIGNMENT AND ASSUMPTION

THIS ASSIGNMENT AND ASSUMPTION (the "Assignment") is entered into on July 19, 2022, effective as of February 1, 2022, by and between SR WATER, LLC, a Colorado limited liability company (the "Assignor"), and FALCON AREA WATER AND WASTEWATER AUTHORITY, a public corporation and political subdivision of the State of Colorado (the "Assignee"), with reference to the facts set forth below.

RECITALS

- A. Sterling Ranch Metropolitan District No. 1, Sterling Ranch Metropolitan District No. 2, and Sterling Ranch Metropolitan District No. 3 (collectively, the "Districts") and the Assignee have been cooperatively transitioning operations of water and sanitary sewer services since February 1, 2022.
- B. The Assignor has entered into various contracts and agreements relating to water and sanitary sewer services that are or will be provided by the Authority, which contracts and agreements are identified in **Exhibit A**, attached hereto and incorporated herein (the "Agreements").
- C. The Assignor and Assignee desire to contract with each other for Assignor to assign all of its rights, responsibilities, Agreements, accounts receivable, payment obligations and general obligations related to the provision of water and sanitary services by the Districts and/or the Authority, as identified in Exhibit A, to Assignee and Assignee desires to accept such assignment.
- D. Assignee finds that it is in the best interest of its constituents to enter into this Assignment.
- NOW, THEREFORE, in consideration of good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor and Assignee agree as follows:

AGREEMENT

- 1. **Assignment**. Assignor hereby conveys, transfers and assigns to Assignee all of its rights, responsibilities, Agreements, accounts receivable, payment obligations and general obligations to the Authority related to the provision of water and sanitary sewer service by the Districts and/or the Authority, as identified in Exhibit A.
- 2. **Assumption**. Assignee hereby accepts the assignment of the Agreements and assumes and covenants and shall perform and fulfill all of the obligations, terms and conditions of Assignor occurring on and after the effective date of this Assignment. Assignee also agrees to, as applicable, assume and accept all rights, responsibilities, accounts receivable, payment obligations and general obligations of Assignor, as identified in Exhibit A.
- 3. **Effect of Assignment**. Except as amended herein the Agreements remain in full force and effect.

- 4. **Governing Law**. This Assignment shall be governed by and construed in accordance with the laws of the State of Colorado, without giving effect to the principles of conflicts of laws of that state.
- 5. **Further Assurances**. Each party to this Assignment shall execute all instruments and documents and take all actions as may be reasonably required to effectuate this Assignment.
- 6. **Prevailing Party**. If a party hereto brings any action or suit against the other party hereto by reason of any breach of any of the covenants, conditions, agreements or provisions on the part of the other party arising out of this Assignment, then the prevailing party shall have and recover from the other party all costs and expenses of the action or suit including reasonable attorney's fees.
- 7. **Counterparts/Facsimile**. Any number of counterparts of this Assignment may be executed. Each counterpart will be deemed to be an original instrument and all counterparts taken together will constitute one agreement. Executed copies of this Assignment may be delivered by facsimile, PDF, or email and, upon receipt, shall be deemed originals and binding upon the parties hereto. Without limiting or otherwise affecting the validity of executed copies hereof that have been delivered by facsimile, PDF, or email, the parties will use their commercially reasonable efforts to deliver originals as promptly as possible after execution.
- 8. **Certain Interpretive Matters**. The headings contained in this Assignment are provided for convenience only and will not affect its construction or interpretation.

[REST OF PAGE LEFT BLANK INTENTIONALLY]

The parties hereto have executed this Assignment as of the day and year first set forth above.

ASSIGNOR:

SR WATER, LLC, a Colorado limited liability company

.//

Name:

Its: NAPAGES

ASSIGNEE:

FALCON AREA WATER AND WASTERWATER AUTHORITY, a public corporation and political subdivision of the State of Colorado

resident

ATTEST:

EXHIBIT A

(To be assigned by SR WATER, LLC to Falcon Area Water and Wastewater Authority)

- 1. All improvements identified in the attached RESPEC engineering reports.
- 2. Purchase Contract between McCune Ranch, LLC and SR Water, LLC, attached hereto.
- 3. Contract for the Purchase and Sale of Water Rights between Shamrock Water, LLC and SR Water, LLC, attached hereto.

PURCHASE CONTRACT

THIS PURCHASE CONTRACT (this "Contract") between MCCUNE RANCH, LLC, a Colorado limited liability company ("Seller"), and SR WATER, LLC ("Purchaser") is dated as of the day Seller and Purchaser have both signed it, as indicated by their signatures below (the latter of which shall be the "Effective Date").

RECITALS

- A. Seller owns the water rights described on the attached <u>Exhibit A</u> (the "McCune Ranch Water Rights") underlying the property located in El Paso County, Colorado described more particularly on the attached <u>Exhibit B</u> (the "McCune Ranch").
- B. Seller is establishing certain easement rights for use in connection with the withdrawal, development and transmission of the McCune Ranch Water Rights which easements are described more particularly on the attached Water Wells and Pipeline Easement Agreement Exhibit C (the "Easement Agreement").
- C. Purchaser intends to develop certain real property located in El Paso County, Colorado and requires water rights in order to service such development.
- D. Purchaser desires to purchase from Seller and Seller desires to sell to Purchaser that portion of the McCune Ranch Water Rights described on Exhibit D (the "Water Rights") under the terms set forth in this Contract. In connection with the purchase and sale of the McCune Ranch Water Rights, Purchaser desires to acquire from Seller and Seller desires to convey to Purchaser, the Easements subject to the terms, conditions and limitations of this Contract.

AGREEMENT

IN CONSIDERATION of the Recitals and the following valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

Section 1. <u>THE PURCHASE</u>.

1.1 <u>Purchase and Sale</u>. Purchaser hereby agrees to purchase ("**Purchase**") from Seller and Seller agrees to sell to Purchaser the Water Rights and Easements for the purchase price of \$3,567,000.00 (the "**Purchase Price**"), which represents a price of \$3,000 per determined nontributary acre foot. However, as provided in Paragraph 1.1(c), below, the ultimate total amount paid by Purchaser will be based upon a price of \$3,000 per acre foot of "Transferable Yield" following completion of the Change in Place of Use proceeding, based upon the amount of water approved for Purchaser's use in places other than the McCune Ranch overlying land. The Closing Date shall be no later than thirty (30) days after approval by the Colorado Ground Water Commission of a requested "Change in Place of Use" application for the Water Rights ("**Closing Date**"), provided that such Closing Date shall not be later than October 1, 2018, unless otherwise agreed to by the Parties hereto.

- Definition of Transferable Yield. For purposes of this Agreement, "Transferable Yield" means the cumulative net amount of nontributary ground water in the combined Denver, Arapahoe and Laramie-Fox Hills aquifers, as measured in acre feet, which the Colorado Ground Water Commission allows, by final, unappealable ruling to be entered in the "Change of Place of Use" application to be filed by Purchaser and completed prior to closing, which may be utilized on properties other than the overlying McCune Ranch (hereinafter referred to as the "Commission Change"). For purposes of determining "Transferable Yield" and calculation of the purchase price to Seller, the following provisions shall apply: (1) The amount of Transferable Yield quantified for purposes of calculating the purchase price shall be a net number of acre feet of nontributary ground water approved for use on properties other than the overlying land in the Commission Change, including the 2% of such water rights which Purchaser is statutorily obligated to forego consumption of; and, (2) the final determination of Transferable Yield shall be after a final unappealable ruling of the Commission in the Commission Change has been obtained to the satisfaction of the Purchaser, and all deadlines in such ruling, if any, allowing potential reduction in the amount of Transferable Yield have expired.
- (b) <u>Initial Payment for the Water Rights</u>. Within 15 days of mutual execution of this Contract, the Purchaser shall pay to Seller an Initial Payment of one hundred thousand dollars (\$100,000.00), and said Initial Payment shall be nonrefundable, notwithstanding any other provision of this Agreement. No portion of the Initial Payment shall be refundable by Seller, even in the event that the Commission Change produces a ruling awarding less Transferable Yield than anticipated. The parties acknowledge and agree that in the event the final, unappealable Commission Change ruling quantifies less than 34 acre feet of Transferable Yield, there still shall be no rebate to Purchaser from Seller for any portion of the \$100,000.00 Initial Payment.
- days of entry of the final, unappealable ruling in the Commission Change action, Purchaser shall pay to Seller an additional sum equal to the number of acre feet of Transferable Yield determined by the Commission Change ruling multiplied by the per acre foot price of \$3,000.00 after credit is given to Purchaser for the Initial Payment paid to Seller as described in Paragraph 1.1(b), above. For example, if the Water Court determines that 100% of the previously determined nontributary Denver Basin ground water may be utilized by Purchaser on at the other places of use sought, rendering all of the previously determined water rights as "Transferable Yield", then Purchaser shall pay Seller the balance of the purchase price for all of the Transferable Yield in excess of the approximately 33.3 acre feet already paid for, a balance of \$3,467,000, and this payment shall constitute payment in full for the Water Rights. Such payment shall be reduced by \$3,000 per acre foot of water previously determined, but not included in the Transferable Yield as determined in the Commission Change.

1.2 <u>Closing Procedure</u>.

(a) <u>Payment</u>. At the time if Initial Payment, to occur at a time and place to be mutually agreed upon by the Parties not later than 15 days following mutual execution of this agreement, Purchaser shall pay Seller, in cash, certified funds, or by wire transfer an amount

equal to the Initial Payment, \$100,000. At Closing, within forty-five (45) days of entry of the final, unappealable ruling in the Commission Change action, Purchaser shall pay the balance due, as calculated based upon Transferrable Yield, described in Paragraphs 1.1(b) and (c), above;

- (b) <u>Deed</u>. At Closing, Seller shall convey by special warranty deed the McCune Ranch Water Rights, subject only to the Permitted Exceptions (defined in Section 2 below);
- (c) <u>Easements</u>. At the Closing, the Seller shall execute and deliver to Purchaser the "Water Wells and Pipelines Easement Agreement", attached as <u>Exhibit C</u> hereto, under which Seller grants Purchaser non-exclusive easements for use in connection with the withdrawal, development and transmission of the McCune Water Rights (the "Easements");
- (d) <u>Title</u>. Seller shall provide Purchaser a title commitment with respect to the Easements issued by _____ (the "**Title Company**") within ten (10) days of the Effective Date.
- (e) At each Closing, Seller/Optionor and Purchaser/Optionee shall each deliver such affidavits and agreements as the Title Company may require or request in order to consummate the transactions contemplated by this Contract; and

1.3 <u>Activities Prior to Closing.</u>

- (a) Seller represents that there are no known liens or encumbrances affecting the Water Rights or Easements. Within ten (10) days of the Effective Date, Seller shall furnish to Purchaser copies of any and all water court decrees, groundwater determinations, well permits, agreements, engineering reports, or other documents in its possession relating to or concerning the yield and use of the Water Rights and the Easements.
- (b) Purchaser, at its expense, shall retain a water resources engineer and/or water attorney to examine the Water Rights, including any documents received from Seller, and complete a good faith legal and engineering analysis of the use and physical yield of the Water Rights.
- (c) Purchaser, at its expense, shall use its best efforts to timely obtain the approval of the Colorado Ground Water Commission of a Change in Place of Use of the Water Rights outside of the Kiowa Bijou Designated Ground Water Basin, and Seller expressly consents to Purchaser's actions in this regard prior to closing.
- (d) Purchaser may perform such further due diligence investigations concerning the Water Rights, including title investigations as it deems appropriate. Seller shall cooperate with Purchaser in such investigations or negotiations, provided that Seller will not be obligated to incur any expense in such cooperation.
- (e) Seller shall be free to enter into negotiations with third parties concerning the Water Rights prior to Initial Payment and to enter into back-up contracts or back-up options

on all or a part of the Water Rights, provided that such options or contracts expressly acknowledge and are subject to Purchaser's rights hereunder to purchase all of the Water Rights, and the Easements subject to the terms of the Exhibit C Easement Agreement..

1.4 <u>Conditions to Closing.</u>

- (a) <u>Purchaser's Conditions</u>. Purchaser's obligations under this Contract to purchase the Water Rights and Easements are subject to the following conditions precedent, which must be satisfied or waived on or before Closing (unless otherwise provided):
 - i. <u>Representations by Seller</u>. The representations and warranties made by Seller in this Contract must be true and correct as of the Closing.
 - ii. <u>Compliance by Seller</u>. Seller shall have complied with the terms and conditions of this Contract in all material respects.
 - iii. <u>No Material Change</u>. Title to the Water Rights and Easements shall be subject to no matters other than the Permitted Exceptions.
 - iv. <u>Change in Place of Use</u>. Prior to Closing, The Colorado Ground Water Commission shall have satisfactorily approved a Change in Place of Use of the Water Rights outside the Kiowa Bijou Designated Ground Water Basin for use by Purchaser in the Falcon, Colorado, area. Purchaser will diligently prosecute such change at its sole expense, and with Seller's express consent and cooperation.
- (b) <u>Seller's Conditions</u>. Seller's obligations under this Contract to sell the Water Rights and Easements are the subject to the following conditions precedent, which must be satisfied or waived on or before Closing:
 - i. <u>Representations by Purchaser</u>. The representations and warranties made by Purchaser in this Contract must be true and correct as of the Closing.
 - ii. <u>Compliance by Purchaser</u>. Purchaser shall have complied with the terms and conditions of this Contract in all material respects.

Section 2. <u>TITLE</u>.

- 2.1 Title to the Water Rights and Easements shall be marketable and shall be free and clear of all liens and encumbrances, subject in both instances only to:
- (a) The lien for real property taxes for the year of Initial Closing and all subsequent years, if any.
- (b) Any exceptions shown on a title commitment for the Easements that do not impair the use of the Water Rights or the Easements for their allowed uses; and

(c) Any defects or encumbrances created by Purchaser, at the instance of Seller, or with Seller's consent.

The foregoing title exceptions are hereinafter called the "Permitted Exceptions".

Section 3. <u>REPRESENTATIONS AND WARRANTIES.</u>

- 3.1 <u>Representations, Warranties and Covenants of Seller</u>. Seller hereby represents, warrants and covenants to Seller that, as of the date hereof and the date of each Closing:
- (a) <u>Authority</u>. The execution and delivery by Seller of this Contract are within Seller's powers and have been duly authorized by all requisite organizational actions. The person executing this Contract on behalf of Seller has the authority to do so. This Contract is a legal, valid and binding obligation of Seller, enforceable in accordance with its terms.
- (b) <u>Title</u>. Seller holds good and marketable title to the Water Rights and Easements free and clear of all liens and encumbrances except the Permitted Encumbrances. During the term of this Contract, Seller will not enter into any agreement or suffer any lien with respect to the Water Rights or Easements, excepting "back-up" agreements, as described in Paragraph 1.3(e), above.
- (c) <u>Litigation</u>. To the knowledge of Seller, there is no pending or threatened litigation affecting the Water Rights or Easements.
- (d) <u>Governmental Notices</u>. Seller has not received any notices or directives from any governmental entities with jurisdiction over the Water Rights or Easements claiming that any current use of or current condition with the Water Rights or Easements violates any federal, state, or local laws or regulations.
- (e) <u>No Other Warranties</u>. Other than the foregoing representations, warranties and covenants, no representations and warranties have been made by Seller or anyone on its behalf to the Purchaser as to the condition of the Water or Easements.
- 3.2 <u>Representations, Warranties and Covenants of Purchaser.</u> Purchaser hereby represents, warrants and covenants to Seller that, as of the date hereof:
- (a) <u>Authority</u>. The execution and delivery by Purchaser of this Contract are within Purchaser's powers and have been duly authorized by all requisite organizational actions. The person executing this Contract on behalf of Purchaser has the authority to do so. This Contract is a legal, valid and binding obligation of Purchaser, enforceable in accordance with its terms.
- 3.3 <u>Seller's Disclaimers</u>. Seller makes no warranty or representation regarding the physical yield and quality of the Water Rights or that the Water Rights are fit for the purposes for their int

Section 4. <u>DEFAULT AND SPECIFIC PERFORMANCE</u>.

- 4.1 <u>Default by Seller</u>. The parties agree that in view of the unique nature of the Water Rights and Purchaser's agreement to pursue the Change in Place of Use approval from the Colorado Ground Water Commission, in the case of default by Seller damages will not provide an adequate remedy for Purchaser. Therefore, in case of default by Seller, Purchaser shall have the right to specific performance and damages, in addition to any other remedies available in law or equity.
- 4.2 <u>Default by Purchaser</u>. In case of default by Purchaser, Seller shall be entitled to all remedies available in law or equity.

Section 5. <u>MISCELLANEOUS</u>.

- 5.1 <u>Effect of Headings</u>. The subject headings of paragraphs and subparagraphs of this Contract are included for purposes of convenience only, and shall not affect the construction or interpretation of any of its provisions.
- 5.2 Entire Contract; Survival of Contract; Construction. This Contract constitutes the entire agreement between the parties hereto and supersedes all prior and contemporaneous agreements, representations and understandings of the parties regarding the subject matter of this Contract. No supplement, modification or amendment of this Contract shall be binding unless executed in writing by the parties hereto. Both parties participated in the preparation of this Contract and consequently any rule of construction construing any provision against the drafter shall not be applicable.
- 5.3 <u>Counterparts</u>. This Contract may be executed in one or more counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument.
- 5.4 <u>Assignment</u>. Purchaser may assign its interest in this Contract only with the express written approval of Optionor, which shall not be unreasonably withheld.
- 5.5 <u>Notices</u>. All notices and other communications under this Contract shall be in writing and shall be given either personally or by an overnight courier service (which obtains a receipt evidencing delivery) and shall be addressed as follows:

To Purchaser:

SR Water, LLC

20 Boulder Crescent, Suite 200 Colorado Springs, CO 80906

To Seller:

McCune Ranch, LLC

17480 Meridian Road North

Peyton, CO

5.6 Governing Law. This Contract shall be construed in accordance with the laws of the State of Colorado.

- Marty Chase, as broker, agent, and finder, and same is entitled to receive a commission, finder's fee, or other compensation in connection with this transaction, which commission, finder's fee or other compensation shall be Seller's sole responsibility to pay. Purchaser has not employed the services of any person as broker, agent, finder and no such broker, agent, finder or other person is entitled to receive a commission, finder's fee or other compensation in connection with this transaction. Each of the parties agrees to indemnify and hold harmless the other against any loss, liability, damage, cost, claim or expense incurred by reason of any brokerage commission or finder's fee alleged to be payable because of any act, omission or statement of the indemnifying party.
- 5.8 <u>Prohibition Against Recording</u>. This Contract shall not be recorded without the prior written consent of the Seller. If it is recorded without such prior written consent, this Contract shall terminate, and such recording shall constitute notice to all third parties that this Contract has been terminated and the Purchaser has no right, title, claim, or interest in the Water Rights or Easements.
- enforcement of this Contract, or because of an alleged dispute, breach, default, or misrepresentation in connection with any of the provisions of this Contract, the successful or prevailing party shall be entitled to recover attorneys' fees and other costs incurred in that action or proceeding, in addition to any other relief to which it or they may be entitled. As used herein, "attorneys' fees" shall mean the full and actual costs of any legal services actually rendered in connection with the matters involved, calculated on the basis of the usual fee charged by the attorneys performing such services and shall not be limited to "reasonable fees" as defined by any statute, case law or rule of court. The parties intend that in addition to all other legal and equitable remedies available, injunctive relief and the remedy of specific performance may be utilized in the event of the breach or threatened breach of this Contract.
- 5.10 <u>Further Assurances</u>. Each of the parties hereto undertakes and agrees to execute and deliver such documents, writings, and further assurances as may be required to carry out the intent and purpose of this Contract.
- 5.11 <u>Dates</u>. If any date set forth in this Contract for the delivery of a document or occurrence of any event (such as closings and payment hereunder) should, under the terms hereof, fall on a weekend or holiday, then such date shall automatically be extended to the next succeeding weekday that is not a holiday.

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

SELLER:

MCCUNE RANCH, LLC, a Colorado limited liability company

| Ву: | lary Sue Liss | Mary | din |
|--------|---------------|------|-------------|
| Name: | Mary Sue Liss | | |
| Title: | Trustee | | |
| Date: | 9-10-2017 | | |
| | | | |

PURCHASER:

SR WATER, LLC, a Colorado limited liability

By: The TM9 (C)

Marie: Dames F, mor (ex)

Pitle: Marage T

Date: 9/10/17

Exhibit A McCune Ranch Water Rights

Determination # 1962BD 819.5 acre feet Lower Dawson

1961 BD 528 acre feet Denver

1962 BD 398 acre feet Arapahoe

1689 BD 263 acre feet Laramie Fox Hills

Exhibit B McCune Ranch Land

The Southwest quarter of the Southwest quarter Section 18, the West half of the Northwest quarter and the West half of the Southwest quarter, Section 19, Township 11 South, Range 64 West of the 6th PM and the South half of the Southeast quarter, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County, Colorado.

Exhibit C McCune Ranch Easement Agreement

FIRST AMENDMENT TO CONTRACT FOR THE PURCHASE NONTRIBUTARY WATER RIGHTS

THIS First Amendment to Contract for the Purchase of McCune Ranch Nontributary Water Rights ("First Amendment") is dated as of the date of mutual execution by Buyer and Seller ("Effective Date"), and is by and between **McCune Ranch**, **LLC**, a Colorado limited liability company ("Seller"), and **SR Water**, **LLC**, a Colorado limited liability company ("Buyer").

RECITALS

- A. On September 10, 2017, Seller and Buyer entered into that certain Contract for the Purchase of Nontributary Water Rights (the "Purchase Contract") concerning the water rights more particularly described therein (the "McCune Water Rights"). The Purchase Contract and this First Amendment shall collectively be termed the "Agreement".
- B. Seller has requested that an addendum or amendment be made to the Purchase Contract allowing Seller to reserve from closing, at Seller's discretion, a portion of the nontributary groundwater contained in the Denver aquifer, for conveyance to the purchase of the surface of Seller's land, should such nontributary supplies be necessary for the development thereof.
- C. A condition to closing under the Purchase Contract is the completion of certain "change in place of use" proceedings before the Colorado Ground Water Commission ("GWC") of the McCune Water Rights, though the Purchase Contract calls for closing to occur prior to October 1, 2018. The parties wish to extend the closing date to allow for completion of such change proceedings before the GWC, which have now been filed and are pending approval;

NOW THEREFORE, in consideration of the promises and mutual covenants set forth herein, and other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

AGREEMENT

- 1. All foregoing recitals are incorporated herein by reference.
- 2. Section 1.1 of the Purchase Contract is hereby replaced in its entirety with the following language:

Purchaser hereby agrees to purchase ("**Purchase**") from Seller and Seller agrees to sell to Purchaser the Water Rights and Easements for the purchase price of \$3,567,000.00 (the "**Purchase Price**"), which represents a price of \$3,000 per determined nontributary acre foot. However, as provided in Paragraph 1.1(c), the ultimate total amount paid by Purchaser will be based upon a price of \$3,000 per acre foot of "Transferable Yield" following completion of the Change in Place of Use proceeding before the

GWC, based upon the amount of water approved for Purchaser's use in places other than the McCune Ranch overlying land. Further, the ultimate total amount paid by Purchaser may be further reduced should Buyer elect to reserve a portion of the Denver aquifer, as provided in Section 2, below, again on a \$3,000 per annual acre foot basis as to the amount reserved. The Closing Date shall be no later than thirty (30) days after approval by the GWC of the pending "Change in Place of Use" applications for the Water Rights ("Closing Date"), provided that such Closing Date shall not be later than March 31, 2020, unless otherwise agreed to by the Parties hereto.

2. Seller may elect either prior to or at closing, to reserve from sale to Buyer a portion of the Denver aquifer, so as to instead convey such reserved portion to the purchaser of the overlying land for use in the development therefor. Seller may reserve a maximum of 178 annual acre feet from the Denver aquifer, and any such reservation shall be made in writing with notice to Buyer as provided in the Purchase Contract. The Purchase Price shall be reduced by \$3,000 for each acre foot of water so reserved.

IN WITNESS WHEREOF, the parties hereto have executed this First Amendment.

MCCUNE RANCH, LLC, a Colorado limited liability company

| | Maria | |
|--------------|--------------------|--|
| By: | Man suches | |
| By: Name: | / () Mary Sue Liss | |
| Title: | Mangaen | |
| Date: | 8/2/19 | |
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SR WATER, LLC, a Colorado limited liability company

Name: SAMES F. MORREY
Title: Manager
Date: 8/3/19

SECOND AMENDMENT TO CONTRACT FOR THE PURCHASE NONTRIBUTARY WATER RIGHTS

THIS Second Amendment to Contract for the Purchase of McCune Ranch Nontributary Water Rights ("First Amendment") is dated as of the date of mutual execution by Buyer and Seller ("Effective Date"), and is by and between **McCune Ranch**, **LLC**, a Colorado limited liability company ("Seller"), and **SR Water**, **LLC**, a Colorado limited liability company ("Buyer").

RECITALS

- A. On September 10, 2017, Seller and Buyer entered into that certain Contract for the Purchase of Nontributary Water Rights, and on August 2, 2019 Seller and Buyer entered into the 1st Amendment thereto (collectively the "Purchase Contract") concerning the water rights more particularly described therein (the "McCune Water Rights"). The Purchase Contract and this Second Amendment shall collectively be termed the "Agreement"; and,
- B. Despite the Purchase Contract having expired per its terms, Seller and Buyer by this Second Amendment ratify the terms thereof and include such terms by reference herein to the extent not inconsistent with this Second Amendment, and both Seller and Buyer expressly agree and acknowledge that this Second Amendment acts to ratify and renew the Agreement; and,
- C. A condition to closing under the Purchase Contract was the completion of certain "change in place of use" proceedings before the Colorado Ground Water Commission ("GWC") of the McCune Water Rights, allowing the use of the McCune Water Rights for Buyer's purposes at Buyer's locations. Such GWC proceedings were completed in Determination Nos. 1689-BD (Laramie-Fox Hills), 1690-BD (Arapahoe) and 1691-BD (Denver) in February of 2020, and the Parties expressly agree and acknowledge that this condition has been met; and,
- D. By agreement dated March 31, 2020, Seller granted to Buyer certain easements necessary to facilitate the construction of wells and pipelines for withdrawal and deliver of the Nontributary Water Rights described in the Purchase Contract; and,
- E. The Parties, for the good and valuable consideration described herein, wish to extend the closing date under the Agreement.

NOW THEREFORE, in consideration of the promises and mutual covenants set forth herein, and other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

AGREEMENT

1. All foregoing recitals are incorporated herein by reference.

2. Section 1.1 of the Purchase Contract is hereby replaced in its entirety with the following language:

Purchaser hereby agrees to purchase ("Purchase") from Seller and Seller agrees to sell to Purchaser the Water Rights and Easements for the purchase price of \$3,522,000 (the "Purchase Price"), which represents a price of \$3,000 per determined nontributary acre foot subject of this Agreement, as described in Ground Water Commission Determination Nos. 1689-BD (Laramie-Fox Hills), 1690-BD (Arapahoe) and 1691-BD (Denver) issued in February of 2020, less 15 annual acre feet (100-year) of Denver aquifer water reserved by Seller and transferred to Winsome, LLC by separate contract. The Closing Date ("Closing Date") shall not be later than December 31, 2021, unless otherwise extended consistent with the terms of this Agreement.

- 3. Buyer has provided Seller with additional consideration, above and beyond that described in the Purchase Contract, of \$50,000.00, the receipt of which is acknowledged by Seller, in exchange for the extension in the Closing Date described above, and in exchange for Seller's ratification and renewal of this Agreement, as provided in this Second Amendment. Seller may provide further consideration in the form of an additional \$50,000.00, and thereby extend the Closing Date as described in Paragraph 2, above (Section 1.1 as amended) further until and including March 31, 2022. Such additional consideration is not included within and shall not be applied to the Purchase Price at closing, as described in revised Paragraph 1.1, above.
- 4. Should the transaction described in this Agreement fail to close prior to March 31, 2022, unless expressly agreed to the contrary by subsequent agreement signed by the Parties, the Grant of Easements Agreement dated March 31, 2020 shall be null and void and all easements granted therein shall revert to McCune Ranch, LLC. Seller and Buyer shall cooperate in executing and recording all necessary documents to evidence such reversion.
- 5. Confidentiality of Communications and Documents. All past and future written or oral communications among and between the Parties, their employees, Consultants, agents or Counsel, and all documents shared among and between the Parties, their employees, Consultants, agents or Counsel in connection with or relating to the subject water rights shall remain privileged and confidential to the extent provided by law, until closing of the transaction described in this 2nd Amendment and the Purchase Contract. Except as set forth herein, all such communications and documents ("Common Interest Information") shall, until closing, continue to be protected from disclosure to the extent provided by law by all applicable privileges and immunities, including but not limited to the attorney-client privilege, work product privilege, common interest doctrine, fiduciary law principles, joint plaintiffs privilege, the allied lawyer doctrine, deliberative process privilege and settlement negotiation privilege. Notwithstanding the foregoing, SR Water may disclose quantities, location and determination information concerning the subject water rights only as necessary for municipal water planning purposes.

IN WITNESS WHEREOF, the parties hereto have executed this Second Amendment to Purchase and Sale Agreement.

MCCUNE RANCH, LLC, a Colorado limited liability company

By: Mary Sue Liss, Manager

SR WATER, LLC,

a Colorado limited liability company

Name: James Morley, Manager

Date: 9/17/2021

THIRD AMENDMENT TO CONTRACT FOR THE PURCHASE NONTRIBUTARY WATER RIGHTS

THIS Third Amendment to Contract for the Purchase of McCune Ranch Nontributary Water Rights ("Third Amendment") is dated as of the date of mutual execution by Buyer and Seller ("Effective Date"), and is by and between McCune Ranch, LLC, a Colorado limited liability company ("Seller"), and SR Water, LLC, a Colorado limited liability company ("Buyer").

RECITALS

- A. On September 10, 2017, Seller and Buyer entered into that certain Contract for the Purchase of Nontributary Water Rights, and on August 2, 2019 Seller and Buyer entered into the 1st Amendment thereto, and on September 17, 2021 Seller and Buyer entered into the 2nd Amendment thereto (collectively the "Purchase Contract") concerning the water rights more particularly described therein (the "McCune Water Rights"). The Purchase Contract and this Third Amendment shall collectively be termed the "Agreement"; and,
- B. The Parties, for the good and valuable consideration described herein, wish to extend the closing date under the Agreement.

NOW THEREFORE, in consideration of the promises and mutual covenants set forth herein, and other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

<u>AGREEMENT</u>

- 1. All foregoing recitals are incorporated herein by reference.
- 2. Section 1.1 of the Purchase Contract is hereby replaced in its entirety with the following language:

Purchaser hereby agrees to purchase ("Purchase") from Seller and Seller agrees to sell to Purchaser the Water Rights and Easements for the purchase price of \$3,522,000 (the "Purchase Price"), which represents a price of \$3,000 per determined nontributary acre foot subject of this Agreement, as described in Ground Water Commission Determination Nos. 1689-BD (Laramie-Fox Hills), 1690-BD (Arapahoe) and 1691-BD (Denver) issued in February of 2020, less 15 annual acre feet (100-year) of Denver aquifer water reserved by Seller and transferred to Winsome, LLC by separate contract. The Closing Date ("Closing Date") shall not be later than June 30, 2022, unless otherwise extended consistent with the terms of this Agreement.

3. Should the transaction described in this Agreement fail to close prior to June 30, 2022, unless expressly agreed to the contrary by subsequent agreement signed by the Parties, the Grant of Easements Agreement dated March 31, 2020 shall be null and

void and all easements granted therein shall revert to McCune Ranch, LLC. Seller and Buyer shall cooperate in executing and recording all necessary documents to evidence such reversion.

- 4. <u>Consideration</u>. In exchange for this extension of the closing deadline, Buyer shall pay to Seller a one time fee, not applicable to the Purchase Price at closing, and non-refundable should Buyer fail to timely close on the Agreement, of Fifty Thousand US Dollars and no/100's (\$50,000.00), due at the time of mutual execution of this 3rd Amendment.
- 5. Confidentiality of Communications and Documents. All past and future written or oral communications among and between the Parties, their employees, Consultants, agents or Counsel, and all documents shared among and between the Parties, their employees, Consultants, agents or Counsel in connection with or relating to the subject water rights shall remain privileged and confidential to the extent provided by law, until closing of the transaction described in this 3rd Amendment and the Purchase Contract. Except as set forth herein, all such communications and documents ("Common Interest Information") shall, until closing, continue to be protected from disclosure to the extent provided by law by all applicable privileges and immunities, including but not limited to the attorney-client privilege, work product privilege, common interest doctrine, fiduciary law principles, joint plaintiffs privilege, the allied lawyer doctrine, deliberative process privilege and settlement negotiation privilege. Notwithstanding the foregoing, SR Water may disclose quantities, location and determination information concerning the subject water rights only as necessary for municipal water planning purposes.

IN WITNESS WHEREOF, the parties hereto have executed this Third Amendment to Purchase and Sale Agreement.

MCCUNE RANCH, LLC, a Colorado limited liability company

Name: Mary Sue Liss, Manager
Date: 3-4-22

Date:

SR WATER, LLC,

a Colorado limited liability company

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FOURTH AMENDMENT TO CONTRACT FOR THE PURCHASE NONTRIBUTARY WATER RIGHTS

THIS Fourth Amendment to Contract for the Purchase of McCune Ranch Nontributary Water Rights ("Third Amendment") is dated as of the date of mutual execution by Buyer and Seller ("Effective Date"), and is by and between **McCune Ranch**, **LLC**, a Colorado limited liability company ("Seller"), and **SR Water**, **LLC**, a Colorado limited liability company ("Buyer").

RECITALS

- A. On September 10, 2017, Seller and Buyer entered into that certain Contract for the Purchase of Nontributary Water Rights, and on August 2, 2019 Seller and Buyer entered into the 1st Amendment thereto, and on September 17, 2021 Seller and Buyer entered into the 2nd Amendment thereto, and on March 4, 2022 Seller and Buyer entered into the 3rd Amendment thereto, (collectively the "Purchase Contract") concerning the water rights more particularly described therein (the "McCune Water Rights"). The Purchase Contract and this Fourth Amendment shall collectively be termed the "Agreement"; and,
- B. The Parties, for the good and valuable consideration described herein, wish to extend the closing date under the Agreement.

NOW THEREFORE, in consideration of the promises and mutual covenants set forth herein, and other good and valuable consideration the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

AGREEMENT

- 1. All foregoing recitals are incorporated herein by reference.
- 2. Section 1.1 of the Purchase Contract is hereby replaced in its entirety with the following language:

Purchaser hereby agrees to purchase ("Purchase") from Seller and Seller agrees to sell to Purchaser the Water Rights and Easements for the purchase price of \$3,522,000 (the "Purchase Price"), which represents a price of \$3,000 per determined nontributary acre foot subject of this Agreement, as described in Ground Water Commission Determination Nos. 1689-BD (Laramie-Fox Hills), 1690-BD (Arapahoe) and 1691-BD (Denver) issued in February of 2020, less 15 annual acre feet (100-year) of Denver aquifer water reserved by Seller and transferred to Winsome, LLC by separate contract. The Closing Date ("Closing Date") shall not be later than August 31, 2022, unless otherwise extended consistent with the terms of this Agreement.

3. Should the transaction described in this Agreement fail to close prior to August 31, 2022, unless expressly agreed to the contrary by subsequent agreement

signed by the Parties or extended by the payment described below, the Grant of Easements Agreement dated March 31, 2020 shall be null and void and all easements granted therein shall revert to McCune Ranch, LLC. Seller and Buyer shall cooperate in executing and recording all necessary documents to evidence such reversion.

- 4. <u>Consideration</u>. Buyer accepts prior consideration as sufficient to support this extension of the closing deadline; however, should Buyer be unable to close prior to the August 31, 2022 deadline described herein, Buyer shall pay to Seller a one time fee, not applicable to the Purchase Price at closing, and non-refundable, of Fifty Thousand US Dollars and no/100's (\$50,000.00), due on or before August 31, 2022, which will allow closing to be extended only to September 30, 2022. Seller does not anticipate further extension of this Agreement.
- 5. Confidentiality of Communications and Documents. All past and future written or oral communications among and between the Parties, their employees, Consultants, agents or Counsel, and all documents shared among and between the Parties, their employees, Consultants, agents or Counsel in connection with or relating to the subject water rights shall remain privileged and confidential to the extent provided by law, until closing of the transaction described in this 4th Amendment and the Purchase Contract. Except as set forth herein, all such communications and documents ("Common Interest Information") shall, until closing, continue to be protected from disclosure to the extent provided by law by all applicable privileges and immunities, including but not limited to the attorney-client privilege, work product privilege, common interest doctrine, fiduciary law principles, joint plaintiffs privilege, the allied lawyer doctrine, deliberative process privilege and settlement negotiation privilege. Notwithstanding the foregoing, SR Water may disclose quantities. location and determination information concerning the subject water rights only as necessary for municipal water planning purposes.

IN WITNESS WHEREOF, the parties hereto have executed this Third Amendment to Purchase and Sale Agreement.

| a Colorado limited liability company | SR WATER, LLC, a Colorado limited liability company | |
|--------------------------------------|--|--|
| By: Mary Suntas | Ву: | |
| Name: Mary Sue Liss, Manager | Name: James Moriey, Manager | |
| Date: 6/23/22 | Date: | |

signed by the Parties or extended by the payment described below, the Grant of Easements Agreement dated March 31, 2020 shall be null and void and all easements granted therein shall revert to McCune Ranch, LLC. Seller and Buyer shall cooperate in executing and recording all necessary documents to evidence such reversion.

- 4. <u>Consideration</u>. Buyer accepts prior consideration as sufficient to support this extension of the closing deadline; however, should Buyer be unable to close prior to the August 31, 2022 deadline described herein, Buyer shall pay to Seller a one time fee, not applicable to the Purchase Price at closing, and non-refundable, of Fifty Thousand US Dollars and no/100's (\$50,000.00), due on or before August 31, 2022, which will allow closing to be extended only to September 30, 2022. Seller does not anticipate further extension of this Agreement.
- 5. Confidentiality of Communications and Documents. All past and future written or oral communications among and between the Parties, their employees, Consultants, agents or Counsel, and all documents shared among and between the Parties, their employees, Consultants, agents or Counsel in connection with or relating to the subject water rights shall remain privileged and confidential to the extent provided by law, until closing of the transaction described in this 4th Amendment and the Purchase Contract. Except as set forth herein, all such communications and documents ("Common Interest Information") shall, until closing, continue to be protected from disclosure to the extent provided by law by all applicable privileges and immunities, including but not limited to the attorney-client privilege, work product privilege, common interest doctrine, fiduciary law principles, joint plaintiffs privilege, the allied lawyer doctrine, deliberative process privilege and settlement negotiation privilege. Notwithstanding the foregoing, SR Water may disclose quantities, location and determination information concerning the subject water rights only as necessary for municipal water planning purposes.

IN WITNESS WHEREOF, the parties hereto have executed this Third Amendment to Purchase and Sale Agreement.

| MCCUNE RANCH, LLC, a Colorado limited liability company | SR WATER, LLC, a Colorado limited liability company |
|---|--|
| By: Name: <u>Mary Sue Liss, Manager</u> Date: | By: MM + MANAGER Name: James Morley, Manager Date: 6/7/7-7 |

EXHIBIT H

CONTRACT FOR THE PURCHASE AND SALE OF WATER RIGHTS

THIS CONTRACT FOR THE PURCHASE AND SALE OF WATER RIGHTS (this "Contract") between <u>Shamrock Water</u>, <u>LLC</u>, a Colorado limited liability company ("<u>Shamrock</u>" or "Seller"), and the <u>SR Water</u>, <u>LLC</u>, a Colorado limited liability company ("<u>SR Water</u>" or "Buyer") is dated as of the day Seller and Buyer have both signed it, as indicated by their signatures below (the latter of which shall be the "Effective Date").

RECITALS

- A. Seller owns the water rights from nontributary and not-nontributary Denver Basin aquifers described on the attached Exhibit A (the "Bar X Water Rights") underlying the property located in El Paso County, Colorado described more particularly on the attached Exhibit B (the "Bar X Land"). Seller has previously sold to SR Water a portion of the nontributary groundwater rights underlying the Bar X Land ("Previously Purchased Water Rights") and the Previously Purchased Water Rights are not included in the Bar X Water Rights as described herein and on the attached Exhibit A.
- B. Seller also holds certain easement rights for use in connection with the withdrawal, development and transmission of the Bar X Water Rights which easements are described more particularly on the attached Exhibit C (the "Bar X Easements").
- C. Seller also owns the water rights described on the attached <u>Exhibit D</u> (the "Shamrock West Water Rights") underlying the property located in El Paso County, Colorado described more particularly on the attached <u>Exhibit E</u> (the "High Forest Ranch Land"). Seller's Bar X Water Rights, together with the Shamrock West Water Rights, are referred to collectively in this Contract as the "Subject Water Rights".
- D. Seller also holds certain easement rights for use in connection with the withdrawal, development and transmission of the Shamrock West Water Rights. These easements were platted as part of the High Forest Ranch Land subdivision proceeding, as well as being decreed by the Division 2 Water Court in the proceedings described in Exhibit D. The "High Forest Ranch Easements", as platted, are depicted on the attached Exhibit F and shall be more particularly described by deed at the time of Closing of this Contract.
- E. Seller previously sold to buyer a separate portion of the Bar X Water Rights by prior contract, and such contract included earnest money deposits by Buyer on the Bar X Water Rights subject of this Contract which were forfeit to Seller. Buyer now desires to purchase the Subject Water Rights, the Bar X Easements and the High Forest Ranch Easements, and Seller desires to sell to Buyer such Subject Water Rights under the terms and conditions set forth in this Contract. It is Seller's intent to convey to Buyer any and all of Seller's rights to the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements, all of which are described herein to the best of Seller's knowledge.

F. Buyer intends to assign the purchase of the Subject Water Rights, Bar X Easements and High Forest Ranch Easements, described in this Contract, or to re-sell post purchase, to a municipal entity, the Falcon Area Water and Wastewater Authority ("FAWWA"), or similar. FAWWA intends to construct a regional water distribution system, including the construction of wells and pipelines within the Bar X Land (through the exercise of the Bar X Easements) and the High Forest Ranch Land (through the High Forest Ranch Easements), and one or more pipelines from the Bar X Land and High Forest Ranch Land to the lands that will be provided water service by FAWWA, including the Sterling Ranch development in El Paso County ("Sterling Ranch") and for further distribution of water within the respective service areas of FAWWA's member entities (the "Water Transmission Pipeline").

AGREEMENT

IN CONSIDERATION of the Recitals and the following valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

Section 1. PURCHASE AND SALE.

- 1.1 <u>Purchase and Sale; Purchase Price</u>. Buyer hereby agrees to purchase from Seller and Seller agrees to sell to Buyer the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements (the "Purchase") for the purchase price of Seven Million Seven Hundred and Fifty Thousand Dollars (\$7,750,000.00) (the "Purchase Price").
- 1.2 <u>Consideration Extension Deposits</u>. The Parties acknowledge the sufficiency of earnest money previously forfeit to Seller pursuant to prior contracts, in combination with the other good and valuable consideration described herein, and no additional earnest money or deposit is necessary provided this Contract closes prior to August 30, 2022. Should Buyer wish to extend closing beyond August 30, 2022, Buyer shall deposit with Seller for each month of extension of Closing sought, the amount of \$300,000.00 ("Extension Deposits"). Extension Deposits shall be non-refundable, but shall be applied to the Purchase Price at Closing. Buyer may extend Closing through the use of such Extension Deposits for a maximum of four (4) months, to no later than December 31, 2022. Upon Closing, the Extension Deposits shall be applied to the Purchase Price. If Buyer fails to timely pay any Extension Deposit, this Contract shall automatically terminate and neither party shall have any rights or obligations hereunder.
- 1.3 <u>Closing Date</u>. The Purchase will be closed at the offices of Land Title Guarantee Company located at 1755 Telstar Drive, Colorado Springs, CO 80920, on the earlier of:
 - (a) August 30, 2022, at 12:00 PM, Mountain Standard Time, or

(b) another date and time agreed to by the parties, including dates beyond August 30, 2022 pursuant to Extension Deposits described in Paragraph 1.2, above (the "Closing Date").

The failure of Buyer to close on the Purchase on the Closing Date shall be a default of this Contract, and Seller shall be entitled to retain the Deposit as damages.

1.4 <u>Title Insurance</u>. Seller will provide to Buyer a title commitment(s) with respect to the Bar X Easements and the High Forest Ranch Easements to be issued by Land Title Guarantee Company ("Title Company"), within ten (10) days of mutual execution of this Contract. Promptly after the Closing, Seller shall, at Seller's expense, cause the Title Company to issue to Buyer an owner's policy of title insurance insuring title to the interests in the Bar X Easements and High Forest Ranch Easements conveyed to Buyer in the amount of \$500,000.00.

1.5 Deliveries at Closing.

- (a) At Closing, Seller shall deliver to Title Company:
- i. A special warranty deed conveying to Buyer the Subject Water Rights in a form substantially similar to that attached hereto as <u>Exhibit G</u>.
- ii. A special warranty deed conveying to Buyer the Bar X Easements and the High Forest Ranch Easements, so as to allow Buyer rights of ingress and egress to construct, operate and maintain water wells and water transmission/supply pipelines, and any appurtenances thereto, and to withdraw, develop and use the Subject Water Rights. Said special warranty deed shall be in a form substantially similar to that attached hereto as Exhibit H.
- iii. An affidavit setting forth its federal tax identification number and a certificate that it is not a "foreign person" with the meaning of the Internal Revenue Code.
- iv. A settlement statement and such other affidavits and documents required or requested by the Title Company to consummate the transactions contemplated by this Contract.
 - (b) At Closing, Buyer shall deliver to Title Company:
- i. The balance of the Purchase Price, less the Deposit, and credited and debited with applicable Closing costs.
- ii. A settlement statement and such affidavits and documents required or requested by the Title Company to consummate the transactions contemplated by this Contract.

- (c) Title Company shall disburse funds in accordance with the settlement statements. Each party agrees to execute and deliver such additional documents as are customary in such transactions or may be reasonably requested by the other party or the Title Company.
- (d) <u>Closing Costs</u>. Costs to record all closing documents to be recorded in the office of the Clerk and Recorder for El Paso County, including documentary fees, shall be paid for by the Buyer. The closing fees charged by Title Company, shall be shared equally by Seller and Buyer. All other closing costs shall be paid by the parties in accordance with the local prevailing custom for transactions of this kind in El Paso County, Colorado.
- (e) All payments required to be made under this Contract shall be by direct wire transfer of immediately available U.S. funds.

1.6 Conditions to Closing.

- (a) <u>Buyer's Conditions</u>. Buyer's obligations under this Contract to purchase the Bar X Nontributary Water Rights are subject to the following conditions precedent, which must be satisfied or waived on or before Closing:
- i. <u>Representations by Seller</u>. The representations and warranties made by Seller in this Contract must be true and correct as of the Closing.
- ii. <u>Compliance by Seller</u>. Seller shall have complied with the terms and conditions of this Contract in all material respects.
- iii. <u>No Material Change</u>. Title to the Subject Water Rights, Bar X Easements and High Forest Ranch Easements shall be subject to no matters other than the Permitted Exceptions.
- (b) <u>Seller's Conditions</u>. Seller's obligations under this Contract to sell the Bar X Nontributary Water Rights are the subject to the following conditions precedent, which must be satisfied or waived on or before Closing:
- i. <u>Representations by Buyer</u>. The representations and warranties made by Buyer in this Contract must be true and correct as of the Closing.
- ii. <u>Compliance by Buyer</u>. Buyer shall have complied with the terms and conditions of this Contract in all material respects.
- (c) <u>Failure of Conditions Precedent; Cancellation</u>. If any of the foregoing conditions precedent to Closing has not been satisfied by the Closing Date, the party benefited by the failed condition may elect, at its option and by notice to the other party, to (i) cancel this Contract, in which case neither party shall have any further rights or obligations under the Contract; or (ii) waive the conditions and proceed to Closing, and (iii) in the event of a default by the other party, pursue any remedies

available for the default under this Contract, at law or in equity. The parties agree that notwithstanding the failure of any conditions precedent, Seller shall be entitled to retain the Deposit as consideration for entering into the Contract.

Section 2. TITLE.

- 2.1. Title to the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements shall be marketable and shall be free and clear of all liens and encumbrances, subject in both instances only to:
- (a) Any exceptions shown on a title commitment for the Bar X Easements and High Forest Ranch Easements that do not impair the use of the Subject Water Rights, or the Bar X Easements, or the High Forest Ranch Easements, for their allowed uses; and
- (b) Any defects or encumbrances created by Buyer, at the instance of Seller, or with Seller's consent.

The foregoing title exceptions are hereinafter called the "Permitted Exceptions".

Section 3. <u>BUYER'S ACCESS TO BAR X LAND and HIGH FOREST RANCH LAND for DUE DILIGENCE.</u>

Buyer's Access to Bar X Land and High Forest Ranch Land. Seller grants 3.1 permission to Buyer, its agents and/or employees, from and after the Effective Date, and subject to the provisions of this Section 3.1, to exercise the access rights under the Bar X Easements to enter upon the Bar X Land, and to exercise the access rights under the High Forest Ranch Easements to enter upon the High Forest Ranch Land, for purposes of making surveys, engineering studies, soil tests, water tests, obtaining topographical information and for other similar preliminary work in connection with the proposed withdrawal, use and transmission of the Subject Water Rights. Buyer hereby agrees to hold Seller harmless from any mechanic's liens which might be filed against the Bar X Land or the High Forest Ranch Land by reason of the performance of any of the acts herein mentioned, and from any and all claims, demands, losses, costs, expenses or liabilities resulting from the performance of any of the acts herein mentioned, including reasonable attorneys' fees incurred by Seller. Prior to any entry by Buyer, its agents and employees on to the Bar X Land and/or High Forest Ranch Land, Buyer shall, at its sole cost and expense, obtain a policy of public liability insurance, in connection with Buyer's activities on the Bar X Land and/or High Forest Ranch Land, from an insurer reasonably acceptable to Seller and in form and content reasonably acceptable to Seller, in an amount of not less than One Million Dollars (\$1,000,000.00), naming Seller as an additional insured party, which policy shall be maintained by Buyer, at its sole cost and expense, in full force and effect until the last Closing to occur hereunder or the termination of this Contract, as the case may be.

3.2 Other Investigations. Previously, Seller delivered to representatives of Buyer copies of any and all water court decrees, agreements, engineering reports, the Bar X Easements, the High Forest Ranch Easements, and other documents in its possession relating to or concerning the Subject Water Rights, Bar X Easements, and High Forest Ranch Easements. Buyer, at its expense, shall have the option to retain a water resources engineer and/or attorney to examine the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements, including any documents received from Seller. Buyer may also perform such further due diligence investigations concerning the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements, and the withdrawal, use and transmission of the Subject Water Rights and exercise of rights under the Bar X Easements and High Forest Ranch Easements as it deems appropriate. Seller shall cooperate in such investigations; provided, however, that Seller shall not be required to bear any more than nominal expense in so doing.

Section 4. REPRESENTATIONS AND WARRANTIES.

- 4.1 Representations, Warranties and Covenants of Seller. Seller hereby represents, warrants and covenants to Buyer that, as of the date hereof and the date of each Closing:
- (a) <u>Authority</u>. The execution and delivery by Seller of this Contract are within Seller's powers and have been duly authorized by all requisite organizational actions. The person executing this Contract on behalf of Seller has the authority to do so. This Contract is a legal, valid and binding obligation of Seller, enforceable in accordance with its terms.
- (b) <u>Title</u>. Seller holds good and marketable title to the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements, free and clear of all liens and encumbrances except the Permitted Encumbrances. During the term of this Contract, Seller will not enter into any agreement or suffer any lien with respect to the Subject Water Rights, Bar X Easements, or High Forest Ranch Easements.
- (c) <u>Litigation</u>. To the knowledge of Seller, there is no pending or threatened litigation affecting the Subject Water Rights, Bar X Easements, and High Forest Ranch Easements.
- (d) <u>Governmental Notices</u>. Seller has not received any notices or directives from any governmental entities with jurisdiction over the Subject Water Rights, Bar X Easements, and High Forest Ranch Easements claiming that any current use of or current condition with the Subject Water Rights, Bar X Easements and/or High Forest Ranch Easements violates any federal, state, or local laws or regulations.
- (e) <u>No Other Warranties</u>. Other than the foregoing representations, warranties and covenants, no representations and warranties have been made by Seller or anyone on its behalf to the Buyer as to the condition of the Subject Water Rights, Bar

X Easements, or High Forest Ranch Easements, and it is understood and agreed that the same are sold "as is" at the time of each Closing.

- 4.2 <u>Representations, Warranties and Covenants of Buyer</u>. Buyer hereby represents, warrants and covenants to Seller that, as of the date hereof and the date of each Closing:
- (a) <u>Authority</u>. The execution and delivery by Buyer of this Contract are within Buyer's powers and have been duly authorized by all requisite organizational actions. The person executing this Contract on behalf of Buyer has the authority to do so. This Contract is a legal, valid and binding obligation of Seller, enforceable in accordance with its terms.
- 4.3 <u>Seller's Disclaimers.</u> Seller makes no warranty or representation regarding the physical yield and quality of the Subject Water Rights or that the Subject Water Rights are fit for the purposes for their intended use by Buyer.

Section 5. <u>DEFAULT; REMEDIES</u>.

- 5.1 <u>Default</u>. Time is of the essence hereof, and if any payment or any other condition is not made, tendered or performed as herein provided, there shall be the following remedies:
- (a) <u>Breach by Buyer</u>. In the event of any breach by Buyer of its obligation to purchase the Subject Water Rights, Seller will give Buyer written notice of Buyer's default. If Buyer fails to cure the default within ten (10) days after Seller's notice, Seller shall be entitled terminate this Contract, retain the Deposit, and may also avail itself to all remedies normally available therefor, at law or in equity, including the remedy of specific performance, and continue to enforce the obligations of Buyer that are intended to survive the termination of this Contract.
- (b) <u>Breach by Seller</u>. In the event of a breach by Seller to sell the Subject Water Rights, the Bar X Easements, and the High Forest Ranch Easements, Buyer will give Seller written notice of Seller's default. If Seller fails to cure the default within ten (10) days after Buyer's notice Buyer may, at its election, treat this Contract as terminated, and the Deposit shall be returned to Buyer; provided, however, that Buyer may, at is election, treat this Contract as being in full force and effect with the right to an action for specific performance, damages or both.

Section 6. NO ENCUMBRANCE OF BUYER'S CONTRACT INTEREST.

6.1 Buyer shall not grant a security interest in or a collateral assignment of, or otherwise encumber: its rights in, obligations under or interest in this Contract. Any purported grant of such a security interest, collateral assignment or encumbrance shall be void *ab initio* and shall constitute a default under this Contract.

Section 7. MISCELLANEOUS.

- 7.1 Replacement of Prior Contracts. All prior contractual commitments between Seller and SR Water, LLC concerning the Subject Water Rights, the Bar X Easements and/or the High Forest Ranch Easements, including that "Water Wells and Pipelines Easement and Sharing Agreement" dated September 17, 2014, are hereby expressly terminated by the Parties, and shall no longer be of any force or effect.
- 7.2 <u>Effect of Headings</u>. The subject headings of paragraphs and subparagraphs of this Contract are included for purposes of convenience only, and shall not affect the construction or interpretation of any of its provisions.
- 7.3 Entire Contract; Survival of Contract; Construction. This Contract constitutes the entire agreement between the parties hereto and supersedes all prior and contemporaneous agreements, representations and understandings of the parties regarding the subject matter of this Contract. No supplement, modification or amendment of this Contract shall be binding unless executed in writing by the parties hereto. Both parties participated in the preparation of this Contract and consequently any rule of construction construing any provision against the drafter shall not be applicable.
- 7.4 <u>Counterparts</u>. This Contract may be executed in one or more counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument.
- 7.5 <u>Assignment</u>. Buyer may assign its interest in this Contract to FAWWA without prior written approval of Seller. Buyer may assign its interest in this Contract to any other entity or person only with the express written approval of Seller, which shall not be unreasonably withheld.
- 7.6 <u>Notices</u>. All notices and other communications under this Contract shall be in writing and shall be given either personally or by an overnight courier service (which obtains a receipt evidencing delivery) and shall be addressed as follows:

To Buyer:

SR Water, LLC

20 Boulder Crescent, Suite 200 Colorado Springs, Colorado 80915

To Seller:

Shamrock Water, LLC

1826 North Loop 1604 West, Suite 200

San Antonio, Texas 78212

A party may change its addresses for purposes of receiving notice by providing the other party with notice of its new address.

- 7.7 <u>Governing Law.</u> This Contract shall be construed in accordance with the laws of the State of Colorado, and venue shall be proper in the District Court for El Paso County, Colorado.
- 7.8 <u>Prohibition Against Recording</u>. This Contract shall not be recorded without the prior written consent of the Seller. If it is recorded without such prior written consent, this Contract shall terminate, and such recording shall constitute notice to all third parties that this Contract has been terminated and the Buyer has no right, title, claim, or interest in the Lots.
- 7.9 Recovery of Litigation Costs. If any legal action or proceeding is brought for the enforcement of this Contract, or because of an alleged dispute, breach, default, or misrepresentation in connection with any of the provisions of this Contract, the successful or prevailing party shall be entitled to recover attorneys' fees and other costs incurred in that action or proceeding, in addition to any other relief to which it or they may be entitled. As used herein, "attorneys' fees" shall mean the full and actual costs of any legal services actually rendered in connection with the matters involved, calculated on the basis of the usual fee charged by the attorneys performing such services and shall not be limited to "reasonable fees" as defined by any statute, case law or rule of court. The parties intend that in addition to all other legal and equitable remedies available, injunctive relief and the remedy of specific performance may be utilized in the event of the breach or threatened breach of this Contract.
- 7.10 <u>Further Assurances</u>. Each of the parties hereto undertakes and agrees to execute and deliver such documents, writings, and further assurances as may be required to carry out the intent and purpose of this Contract.
- 7.11 <u>Dates</u>. If any date set forth in this Contract for the delivery of a document or occurrence of any event (such as closings and payment hereunder) should, under the terms hereof, fall on a weekend or holiday, then such date shall automatically be extended to the next succeeding weekday that is not a holiday.
- 7.12 Recording of Memorandum. The parties may execute and record a memorandum of this Contract to put third parties on notice of Buyer's interest in the Subject Water Rights, Bar X Easements and High Forest Ranch Easements. In the event this Contract terminates, Buyer grants permission to Seller to record on behalf of both parties a memorandum notifying third parties of such termination.

(remainder of page intentionally blank, signatures follow)

- 7.8 Prohibition Against Recording. This Contract shall not be recorded without the prior written consent of the Seller. If it is recorded without such prior written consent, this Contract shall terminate, and such recording shall constitute notice to all third parties that this Contract has been terminated and the Buyer has no right, title, claim, or interest in the Lots.
- 7.9 Recovery of Litigation Costs. If any legal action or proceeding is brought for the enforcement of this Contract, or because of an alleged dispute, breach, default, or misrepresentation in connection with any of the provisions of this Contract, the successful or prevailing party shall be entitled to recover attorneys' fees and other costs incurred in that action or proceeding, in addition to any other relief to which it or they may be entitled. As used herein, "attorneys' fees" shall mean the full and actual costs of any legal services actually rendered in connection with the matters involved, calculated on the basis of the usual fee charged by the attorneys performing such services and shall not be limited to "reasonable fees" as defined by any statute, case law or rule of court. The parties intend that in addition to all other legal and equitable remedies available, injunctive relief and the remedy of specific performance may be utilized in the event of the breach or threatened breach of this Contract.
- 7.10 <u>Further Assurances</u>. Each of the parties hereto undertakes and agrees to execute and deliver such documents, writings, and further assurances as may be required to carry out the intent and purpose of this Contract.
- 7.11 <u>Dates</u>. If any date set forth in this Contract for the delivery of a document or occurrence of any event (such as closings and payment hereunder) should, under the terms hereof, fall on a weekend or holiday, then such date shall automatically be extended to the next succeeding weekday that is not a holiday.
- 7.12 Recording of Memorandum. The parties may execute and record a memorandum of this Contract to put third parties on notice of Buyer's interest in the Subject Water Rights, Bar X Easements and High Forest Ranch Easements. In the event this Contract terminates, Buyer grants permission to Seller to record on behalf of both parties a memorandum notifying third parties of such termination.

(remainder of page intentionally blank, signatures follow)

IN WITNESS WHEREOF, the parties hereto have hereunto set their hands and seals the day and year first above written.

SELLER:

SHAMROCK WATER, LLC, a Colorado limited liability company

Ву: __

Name:

Title: MANAGER
Date: JUNE 19, 2022

BUYER:

SR WATER, LLC, a Colorado limited liability company

By: AMPS F. MORRY
Title: MANAGER

Title: MANAGER

Date: JUNE 19, 2022

Exhibit A Bar X Water Rights

The "Bar-X Water Rights" are defined as all of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying all or a portion of the Bar-X Property, described more particularly on the attached Exhibit B, that were decreed by and are subject to the terms and conditions set forth in the Amended Ruling und Decree of the Water Court, Water Division No. 1, Case No. 93-CW-018 (85-CW-445) entered on March 17, 1995, amending the decree entered in Case No. 85-CW-445, Water Division No. 1 on December 31, 1985. Said Bar-X Water Rights are comprised of the following decreed average annual amounts of withdrawal of nontributary groundwater from the following Denver Basin aquifers:

Dawson – 1,288 acre-feet Denver – 1,199 acre-feet Arapahoe – 742.5 acre-feet

together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions, said groundwater rights being subject to the retained jurisdiction of the Water Court pursuant to the terms of said decree.

Exhibit B Bar X Land

A parcel of land located in Township 11 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

All of Section 16; the E1/2 of the SW1/4 and the SE1/4 of Section 17; the E1/2 of the W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21.

Exhibit C Bar X Easements

Declaration of Establishment of Water Rights Easements, recorded at Reception No. 097024427 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Water Site, Water Storage Tank and Water Transmission Line Agreement, recorded at Reception No. 097024428 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Water Rights Special Warranty Deed, recorded at Reception No. 097025568 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Amended and Restated Declaration Creating Covenants, Conditions and Easements for Highland Estates, recorded at Book 6623, Page 1310 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Second Amended and Restated Declaration Creating Conditions, Covenants and Restrictions for Highland Estates, recorded at Reception No. 201087557 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Well Field Easement, recorded at Book 6487, Page 1183, Reception No. 094097789 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Easement, recorded at Book 6487, Page 1190, Reception No. 094097790 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Easement, recorded at Book 6203, Page 1085, Reception No. 002314866 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Easement, recorded at Book 4224, Page 523, Reception No. 002328991 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Well Field Easement, recorded at Book 6224, Page 529, Reception No. 002328892 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Exhibit D Shamrock West Water Rights

The "Shamrock West Water Rights" are defined as all of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying all or a portion of the High Forest Ranch Land, described more particularly on the attached Exhibit E, that were decreed by and are subject to the terms and conditions set forth in the Ruling and Decree of the Water Court, Water Division No. 2, Case No. 85-CW-131(B) entered on March 8, 1996, amending the decree entered in Case No. 85-CW-131, Water Division No. 2 on December 31, 1985. Said Shamrock West Water Rights are comprised of the following decreed average annual amounts of withdrawal of nontributary groundwater and not nontributary groundwater from the following Denver Basin aquifers:

Dawson (not nontributary) – 498 acre-feet Denver (nontributary) – 187 acre-feet Denver (not nontributary) – 1057 acre-feet Arapahoe (nontributary) – 474 acre-feet Arapahoe (not nontributary) – 25 acre-feet

together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions, said groundwater rights being subject to the retained jurisdiction of the Water Court pursuant to the terms of said decree.

Exhibit E High Forest Ranch Land

A parcel of land located in Township 11 South, Range 66 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

The following portion of Section 25: The NW I/4 and the SW1/4 of the SW1/4; All of Section 26; The following portion of Section 27: that part of the E1/2 of the E1/2 and of the W1/2 of the SE1/4 of the SW1/4 of the SE1/4 1ying East of Colorado State Highway 83; The E1/2 of the SE1/4 of the SW1/4 of the SE1/4 and that part of the SE1/4 of the NW1/4 of the SE1/4 lying East of Colorado State Highway 83; The following portion of Section 34: The E1/2 of the E1/2 and that part of the E1/2 of the W1/2 of the E1/2 and of the E1/2 of the SW1/4 and of the W1/2 of the W1/2 of the SE1/4 lying East of the center line of the road described in deed recorded in Book 781 at Page 87 in the office of the clerk and recorder of El Paso County, Colorado.

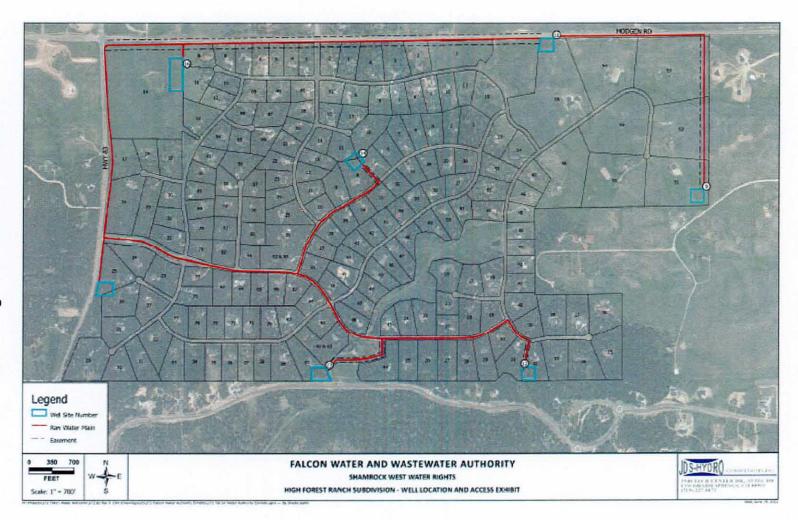


Exhibit G Form Special Warranty Deed – Subject Water Rights

SPECIAL WARRANTY DEED

(Water Rights)

| THIS DEED, made this | day of | , 2022, between |
|-------------------------------------|-----------------------------|------------------------------------|
| Shamrock Water, LLC, a | limited liability compar | y ("Grantor"), and SR Water, LLC |
| a Colorado limited liability compan | y ("Grantee"), whose addres | s is 20 Boulder Crescent, Colorado |
| Springs, Colorado 80903. | | |

WITNESS, that the Grantor, for and in consideration of the sum of ten dollars and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, has remised, released, sold, and conveyed and quitclaimed, and by these presents does remise, release, sell, convey and quitclaim unto the Grantee, his heirs and assigns forever, all right, title and interest in and to the following described water and water rights located in the County of El Paso, State of Colorado:

All of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aguifers underlying all or a portion of the real property described more particularly on Attachment A, that were decreed by and are subject to the terms and conditions set forth in the Amended Ruling und Decree of the Water Court, Water Division No. 1, Case No. 93CW018 (85CW445) entered on March 17, 1995, amending the decree entered in Case No. 85CW445, Water Division No. 1 on December 31, 1985, including, but not limited to the following decreed average annual amounts of withdrawal of nontributary groundwater from the following Denver Basin aguifers: (a) not-nontributary Dawson aguifer - 1,288 acre-feet; (b) nontributary Denver aguifer, 1,199 acre-feet; and, (c) nontributary Arapahoe aquifer - 742.5 acre-feet; together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions. Such groundwater rights are subject to the retained jurisdiction of the Water Court pursuant to the terms of the 93CW018 and 85CW445 decrees, and include all licenses, permits, certificates, contracts and decrees evidencing such water and water rights, and all wells and fixtures relating thereto, along with all replacements, substitutions, accessions thereto and proceeds deriving therefrom; along with,

All of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying all or a portion of the real property described more particularly on <u>Attachment B</u>, that were decreed by and are subject to the terms and conditions set forth in the Ruling and Decree of the Water Court, Water Division No. 2, Case No. 85CW131(B) entered on March 8, 1996, amending the decree entered in Case No. 85CW131, Water Division No. 2 on December 31, 1985. Said Denver Basin groundwater rights include, but are not limited to, the following decreed average annual amounts of withdrawal of nontributary groundwater and not nontributary groundwater from the following

Denver Basin aquifers: (d) not-nontributary Dawson aquifer – 498 acre-feet; (b) not-nontributary Denver aquifer – 1,057 (c) not-nontributary Arapahoe aquifer – 25 acre-feet; (d) nontributary Denver aquifer – 187 acre-feet; and, (e) nontributary Arapahoe aquifer – 474 acre-feet; together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions, said groundwater rights being subject to the retained jurisdiction of the Water Court pursuant to the terms of said decree. Such groundwater rights are subject to the retained jurisdiction of the Water Court pursuant to the terms of the 85CW131(b) decree, and include all licenses, permits, certificates, contracts and decrees evidencing such water and water rights, and all wells and fixtures relating thereto, along with all replacements, substitutions, accessions thereto and proceeds deriving therefrom.

TOGETHER, with all the hereditaments and appurtenances thereunto belonging, or in anywise appertaining, the reversions, remainders, rents, issues, and profits thereof, and all the estate, right, title, interest, claim, and demand whatsoever of the Grantor, either in law or equity, in and to the above bargained premises;

TO HAVE AND TO HOLD the rights to divert, apply, extract and use the water and groundwater rights above bargained and described, with the appurtenances, unto the Grantee and assigns forever. The Grantor, for himself and his successors and assigns, does hereby covenant and agree that Grantor shall and will WARRANT AND FOREVER DEFEND the above bargained premises in the quiet and peaceable possession of the Grantee, his successors and assigns, against all and every person or persons claiming the whole or any part thereof, by, through or under the Grantor.

IN WITNESS WHEREOF, the Grantor has executed this Special Warranty Deed on the date set forth above.

| , as | |
|--|---|
| Of Shamrock Water, LLC, a limited liability company | |
| STATE OF)) ss. | |
|) ss.) county of) | |
| The foregoing instrument was acknowled 2022, by, as the limited liability company. | lged before me this day of, of Shamrock Water, LLC, a |
| Witness my hand and official seal. | |
| My commission expires: | |
| | Notary Public |

ATTACHMENT A Legal Description of Land

A parcel of land located in Township 11 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

All of Section 16; the E1/2 of the SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 of the W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21.

ATTACHMENT B Legal Description of Land

A parcel of land located in Township 11 South, Range 66 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

The following portion of Section 25: The NW I/4 and the SW1/4 of the SW1/4; All of Section 26; The following portion of Section 27: that part of the E1/2 of the E1/2 and of the W1/2 of the SE1/4 of the SW1/4 of the SE1/4 1ying East of Colorado State Highway 83; The E1/2 of the SE1/4 of the SW1/4 of the SE1/4 and that part of the SE1/4 of the NW1/4 of the SE1/4 lying East of Colorado State Highway 83; The following portion of Section 34: The E1/2 of the E1/2 and that part of the E1/2 of the W1/2 of the E1/2 and of the E1/2 of the SW1/4 and of the W1/2 of the SE1/4 lying East of the center line of the road described in deed recorded in Book 781 at Page 87 in the office of the clerk and recorder of El Paso County, Colorado.

Exhibit H Form Special Warranty Deed – Bar X Easements and High Forest Ranch Easements

SPECIAL WARRANTY DEED

(Easements)

| THIS DEED, made this day of, 2022, between the shamrock Water, LLC, a Colorado limited liability company ("Grantor"), and SR Water, LLC, Colorado limited liability company ("Grantee"), whose address is 20 Boulder Crescent, Colorado Springs, Colorado 80903. | en , a do |
|--|-------------------|
| WITNESS, that the Grantor, for and in consideration of the sum of ten dollars and oth good and valuable consideration, the receipt and sufficiency of which is hereby acknowledge has remised, released, sold, and conveyed and quitclaimed, and by these presents does remis release, sell, convey and quitclaim unto the Grantee, his heirs and assigns forever, all right, tire and interest in and to the following described property located in the County of El Paso, State Colorado: | ed, se, tle |
| All of Seller's right, title and interest in and to those easements encumbering the real property described more particularly on Attachment A , that were decreed by and are subject to the terms and conditions set forth in the Amended Ruling und Decree of the Water Court, Water Division No. 1, Case No. 93CW018 (85CW445) entered on March 17, 1995, amending the decree entered in Case No. 85CW445, Water Division No. 1 on December 31, 1985, and further subject to recorded plats in El Paso County, Colorado associated with the Bar X Subdivision, as recorded at Reception Nos. | |
| All of Seller's right, title and interest in and to those easements encumbering the real property described more particularly on Attachment B, that may be subject to the terms and conditions set forth in the Ruling and Decree of the Water Court, Water Division No. 2, Case No. 85CW131(B) entered on March 8, 1996, amending the decree entered in Case No. 85CW131, Water Division No. 2 on December 31, 1985, and further subject to recorded plats in El Paso County, Colorado associated with the High Forest Ranch Subdivision, as recorded at Reception Nos. , as more particularly described on Attachment E, hereto, and depicted on Attachment F, as incorporated herein. | |

TOGETHER, with all the hereditaments and appurtenances thereunto belonging, or in anywise appertaining, the reversions, remainders, rents, issues, and profits thereof, and all the estate, right, title, interest, claim, and demand whatsoever of the Grantor, either in law or equity, in and to the above bargained premises;

TO HAVE AND TO HOLD the rights to divert, apply, extract and use the water and groundwater rights above bargained and described, with the appurtenances, unto the Grantee and assigns forever. The Grantor, for himself and his successors and assigns, does hereby covenant and agree that Grantor shall and will WARRANT AND FOREVER DEFEND the above

bargained premises in the quiet and peaceable possession of the Grantee, his successors and assigns, against all and every person or persons claiming the whole or any part thereof, by, through or under the Grantor.

IN WITNESS WHEREOF, the Grantor has executed this Special Warranty Deed on the date set forth above.

| , as Of Shamrock Water, LLC, a limited liability company | |
|---|--|
| STATE OF) ss. COUNTY OF) | |
| The foregoing instrument was acknowled 2022, by, as theliability company. | lged before me this day of, of Shamrock Water, LLC, a Colorado limited |
| Witness my hand and official seal. | |
| My commission expires: | |
| | Notary Public |

ATTACHMENT A Legal Description of Land

A parcel of land located in Township 11 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

All of Section 16; the E1/2 of the SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 of the W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21.

ATTACHMENT B Legal Description of Land

A parcel of land located in Township 11 South, Range 66 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

The following portion of Section 25: The NW I/4 and the SW1/4 of the SW1/4; All of Section 26; The following portion of Section 27: that part of the E1/2 of the E1/2 and of the W1/2 of the SE1/4 of the SW1/4 of the SE1/4 1ying East of Colorado State Highway 83; The E1/2 of the SE1/4 of the SW1/4 of the SE1/4 and that part of the SE1/4 of the NW1/4 of the SE1/4 lying East of Colorado State Highway 83; The following portion of Section 34: The E1/2 of the E1/2 and that part of the E1/2 of the W1/2 of the E1/2 and of the E1/2 of the SW1/4 and of the W1/2 of the SE1/4 lying East of the center line of the road described in deed recorded in Book 781 at Page 87 in the office of the clerk and recorder of El Paso County, Colorado.

ATTACHMENT C Bar X Easements

Declaration of Establishment of Water Rights Easements, recorded at Reception No. 097024427 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Water Site, Water Storage Tank and Water Transmission Line Agreement, recorded at Reception No. 097024428 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Water Rights Special Warranty Deed, recorded at Reception No. 097025568 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Amended and Restated Declaration Creating Covenants, Conditions and Easements for Highland Estates, recorded at Book 6623, Page 1310 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Second Amended and Restated Declaration Creating Conditions, Covenants and Restrictions for Highland Estates, recorded at Reception No. 201087557 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Well Field Easement, recorded at Book 6487, Page 1183, Reception No. 094097789 in the Office of the Clerk and Recorder of El Paso County, Colorado.

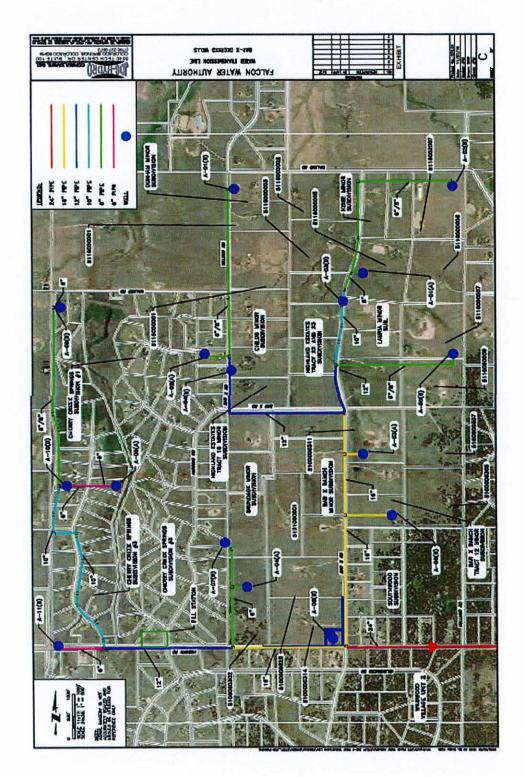
Easement, recorded at Book 6487, Page 1190, Reception No. 094097790 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Easement, recorded at Book 6203, Page 1085, Reception No. 002314866 in the Office of the Clerk and Recorder of El Paso County, Colorado.

Easement, recorded at Book 4224, Page 523, Reception No. 002328991 in the Office of the Clerk and Recorder of El Paso County, Colorado.

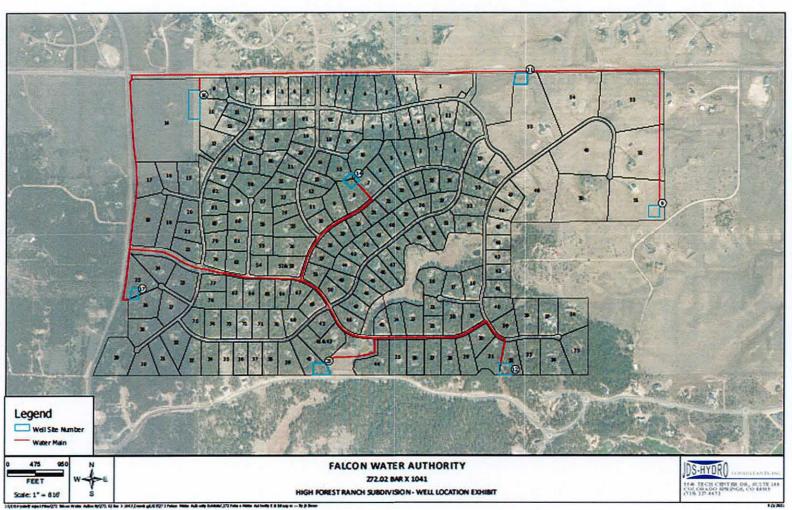
Well Field Easement, recorded at Book 6224, Page 529, Reception No. 002328892 in the Office of the Clerk and Recorder of El Paso County, Colorado.

ATTACHMENT D Bar X Easements Map



ATTACHMENT E Shamrock West Easements

ATTACHMENT F Shamrock West Easements Map



222117854 PGS 4 9/8/2022 2:11 PM \$28.00 DF \$775.00

Electronically Recorded Official Records El Paso County CO Chuck Broerman, Clerk and Recorder

State Documentary Fee

Date 9-7-2022

\$ 775.00

SPECIAL WARRANTY DEED

(Water Rights)

THIS DEED, made this 7^{+h} day of September, 2022, between **Shamrock Water, LLC**, a Colorado limited liability company ("Grantor"), and **Falcon Area Water & Wastewater Authority**, a public corporation and political subdivision of the State of Colorado ("Grantee"), whose address is c/o Spencer Fane LLP, 1700 Lincoln Street, Suite 2000, Denver, CO 80203.

WITNESS, that the Grantor, for and in consideration of the sum of ten dollars and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, has remised, released, sold, and conveyed and quitclaimed, and by these presents does remise, release, sell, convey and quitclaim unto the Grantee, his heirs and assigns forever, all right, title and interest in and to the following described water and water rights located in the County of El Paso, State of Colorado:

All of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying all or a portion of the real property described more particularly on Attachment A, that were decreed by and are subject to the terms and conditions set forth in the Amended Ruling und Decree of the Water Court, Water Division No. 1, Case No. 93CW018 (85CW445) entered on March 17, 1995, amending the decree entered in Case No. 85CW445. Water Division No. 1 on December 31, 1985, including, but not limited to the following decreed average annual amounts of withdrawal of nontributary groundwater from the following Denver Basin aquifers: (a) not-nontributary Dawson aquifer – 1,288 acre-feet; (b) nontributary Denver aquifer, 1,199 acre-feet; and, (c) nontributary Arapahoe aguifer - 742.5 acre-feet; together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions. Such groundwater rights are subject to the retained jurisdiction of the Water Court pursuant to the terms of the 93CW018 and 85CW445 decrees, and include all licenses, permits, certificates, contracts and decrees evidencing such water and water rights, and all wells and fixtures relating thereto, along with all replacements, substitutions, accessions thereto and proceeds deriving therefrom; along with,

All of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying all or a portion of the real property described more particularly on Attachment B, that were decreed by and are subject to the terms and conditions set forth in the Ruling and Decree of the Water Court, Water Division No. 2, Case No. 85CW131(B) entered on March 8, 1996, amending the decree entered in Case No. 85CW131, Water Division No. 2 on December 31, 1985. Said Denver Basin groundwater rights include, but are not limited to, the following decreed average annual amounts of withdrawal of nontributary groundwater and not nontributary groundwater from the following Denver Basin aquifers: (d) not-nontributary Dawson aquifer — 498 acre-feet; (b) not-nontributary Denver aquifer — 1,057 (c) not-nontributary Arapahoe aquifer — 25 acre-feet; (d) nontributary Denver aquifer — 187 acre-feet; and, (e) nontributary Arapahoe aquifer — 474 acre-feet; together with all of Seller's share of any

"banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aquifers attributable to the above-described groundwater rights based on actual aquifer conditions, said groundwater rights being subject to the retained jurisdiction of the Water Court pursuant to the terms of said decree. Such groundwater rights are subject to the retained jurisdiction of the Water Court pursuant to the terms of the 85CW131(b) decree, and include all licenses, permits, certificates, contracts and decrees evidencing such water and water rights, and all wells and fixtures relating thereto, along with all replacements, substitutions, accessions thereto and proceeds deriving therefrom.

TOGETHER, with all the hereditaments and appurtenances thereunto belonging, or in anywise appertaining, the reversions, remainders, rents, issues, and profits thereof, and all the estate, right, title, interest, claim, and demand whatsoever of the Grantor, either in law or equity, in and to the above bargained premises;

TO HAVE AND TO HOLD the rights to divert, apply, extract and use the water and groundwater rights above bargained and described, with the appurtenances, unto the Grantee and assigns forever. The Grantor, for himself and his successors and assigns, does hereby covenant and agree that Grantor shall and will WARRANT AND FOREVER DEFEND the above bargained premises in the quiet and peaceable possession of the Grantee, his successors and assigns, against all and every person or persons claiming the whole or any part thereof, by, through or under the Grantor.

IN WITNESS WHEREOF, the Grantor has executed this Special Warranty Deed on the date set forth above.

Gregory C. King, as Manager of Shamrock Water, LLC.

a Colorado limited liability company

STATE OF TOUS) ss.

The foregoing instrument was acknowledged before me this <u>6</u> day of September, 2022; by Gregory C. King, as the Manager of Shamrock Water, LLC, a Colorado limited liability company.

Witness my hand and official seal.

My commission expires: 05/19/2021

Notary Public

MICHELLE LOUISE BROYLES
1D #2611908
My Commission Expires
May 19, 2026

ATTACHMENT A Legal Description of Land

A parcel of land located in Township 11 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

All of Section 16; the E1/2 of the SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 of the W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21.

ATTACHMENT B Legal Description of Land

A parcel of land located in Township 11 South, Range 66 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

The following portion of Section 25: The NW I/4 and the SW1/4 of the SW1/4; All of Section 26; The following portion of Section 27: that part of the E1/2 of the E1/2 and of the W1/2 of the SE1/4 of the SW1/4 of the SE1/4 1ying East of Colorado State Highway 83; The E1/2 of the SE1/4 of the SW1/4 of the SE1/4 and that part of the SE1/4 of the NW1/4 of the SE1/4 lying East of Colorado State Highway 83; The following portion of Section 34: The E1/2 of the E1/2 and that part of the E1/2 of the W1/2 of the E1/2 and of the E1/2 of the SW1/4 and of the W1/2 of the SE1/4 lying East of the center line of the road described in deed recorded in Book 781 at Page 87 in the office of the clerk and recorder of El Paso County, Colorado.

222115503 PGS 3 9/1/2022 11:52 AM \$23.00 DF \$352.20

Electronically Recorded Official Records El Paso County CO Chuck Broerman, Clerk and Recorder

SPECIAL WARRANTY DEED

(Water Rights)

THIS DEED, made this 3 day of August, 2022, between McCune Ranch, LLC, a Colorado limited liability company ("Grantor"), and Falcon Area Water and Wastewater Authority, a public corporation and political subdivision of the State of Colorado ("Grantee"), whose address is c/o Spencer Fane LLP, 1700 Lincoln Street, Suite 2000, Denver, CO 80203.

WITNESS, that the Grantor, for and in consideration of the sum of ten dollars and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, has remised, released, sold, and conveyed and quitclaimed, and by these presents does remise, release, sell, convey and quitclaim unto the Grantee, its heirs and assigns forever, all right, title and interest in and to the following described water and water rights located in the County of El Paso, State of Colorado:

All of Seller's right, title and interest in and to a portion of the groundwater and groundwater rights in the Denver Basin aquifers underlying the real property described more particularly on Attachment A, that were determined by the Colorado Ground Water Commission in Determination Nos. 1689-BD, 1690-BD, and 1691-BD, and subject to the terms and conditions set forth therein. Said water rights are more particularly described as entitlements to the following decreed average annual amounts of withdrawal of nontributary groundwater from the following Denver Basin aguifers: (a) nontributary Denver aguifer, 513 annual acrefeet (100-year allocation); (b) nontributary Arapahoe aguifer - 398 annual acrefeet; and, (c) nontributary Laramie Fox Hills aguifer - 263 annual acre-feet; together with all of Seller's share of any "banked" water (as defined by the Colorado Division of Water Resources) attributable to the above-described groundwater rights, and Seller's share of any additional groundwater that may be available from the foregoing Denver Basin aguifers attributable to the above-described groundwater rights based on actual aquifer conditions. Such groundwater rights include all licenses, permits, certificates, contracts, determinations and decrees evidencing such water and water rights, and all wells and fixtures relating thereto, along with all replacements, substitutions, accessions thereto and proceeds deriving therefrom; as well as all appurtenant easement interests associated with the above described water rights, as described and reserved on the plats associated with the (a) Winsome Subdivision (Plat Nos. 1 and 2), as recorded in the records of the El Paso County Clerk and Recorder at Reception Nos. 221714686, 222714900, respectively, and (b) the to-be-recorded final plat known as Winsome Filing No 3.

TOGETHER, with all the hereditaments and appurtenances thereunto belonging, or in anywise appertaining, the reversions, remainders, rents, issues, and profits thereof, and all the estate, right, title, interest, claim, and demand whatsoever of the Grantor, either in law or equity, in and to the above bargained premises;

TO HAVE AND TO HOLD the rights to divert, apply, extract and use the water and groundwater rights above bargained and described, with the appurtenances, unto the Grantee and assigns forever. The Grantor, for himself and his successors and assigns, does hereby covenant and agree that Grantor shall and will WARRANT AND FOREVER DEFEND the above

bargained premises in the quiet and peaceable possession of the Grantee, his successors and assigns, against all and every person or persons claiming the whole or any part thereof, by, through or under the Grantor.

IN WITNESS WHEREOF, the Grantor has executed this Special Warranty Deed on the date set forth above.

Mary Sue Liss, as Manager

Of McCune Ranch, LLC, a Colorado limited

liability company

STATE OF COLORADO

) ss.

COUNTY OF EL PASO

The foregoing instrument was acknowledged before me this 3/2 day of Augus —, 2022, by Mary Sue Liss, as the Manager of McCune Ranch, LLC, a Colorado limited liability company.

Witness my hand and official seal.

CHRISTINE L WISE NOTARY PUBLIC STATE OF COLORADO NOTARY ID 19974021715 NY COMMISSION EXPIRES DECEMBER 02, 2025

My commission expires:

<u>240</u>

Notary Public

ATTACHMENT A Legal Description of McCune Ranch Land

The Southwest quarter of the Southwest quarter Section 18, the West half of the Northwest quarter and the West half of the Southwest quarter, Section 19, Township 11 South, Range 64 West of the 6th PM and the South half of the Southeast quarter, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County, Colorado.

OFFICE OF THE STATE ENGINEER DETERMINATION OF FACTS

IN THE MATTER OF AN APPLICATION FOR UNDERGROUND WATER RIGHTS IN WATER DIVISION NO. 2, EL PASO COUNTY, COLORADO

CASE NO.: 08CW113

APPLICANT: MORLEY-BENTLEY INVESTMENTS, LLC

AQUIFER: DAWSON

In compliance with C.R.S. 37-92-302(2), Morley-Bentley Investments, LLC, (hereinafter "applicant") submitted an application to the Water Court for a determination of the amount of water available pursuant to C.R.S. 37-90-137(4). Based on information provided to the Court by the applicant and records of the Division of Water Resources, the State Engineer finds as follows:

- 1. The application was received by the Water Court on December 31, 2008.
- 2. According to the application, the applicant owns, or has consent to withdraw ground water underlying 1451.44 acres of land as further described in said application.
- 3. The quantity of water in the Dawson Aquifer (hereinafter "aquifer"), exclusive of artificial recharge, underlying the 1451.44 acres of land claimed in the application is 42,309 acre-feet. This determination was based on the following as specified in the Denver Basin Rules:
 - a. The average specific yield of the saturated aquifer materials underlying the land claimed in the application is 20 percent.
 - b. The average thickness of the saturated aquifer materials underlying the land claimed in the application is 145.8 feet.
- 4. In determining the amount of ground water available for withdrawal annually from this aquifer, the provisions of C.R.S. 37-90-137(4) must be applied, and pursuant to C.R.S. 37-90-137(4)(b)(I) annual withdrawals shall be allowed on the basis of an aquifer life of 100 years.
- 5. A review of the records in the State Engineer's Office has disclosed that there are existing wells or other water rights withdrawing ground water from the aquifer underlying the land claimed by the applicant. The well permit numbers, locations, rates of diversion, and other relevant data concerning such rights are set forth in the attached Exhibit A. To prevent material injury to such vested water rights, the quantity of water underlying the land claimed in the application which is considered available for withdrawal has been reduced to 39,247 acre-feet. This reduction was based on a calculation of the area necessary to provide a quantity of water underlying such lands as would be sufficient for the persons entitled to divert water under existing rights to divert the average annual amount of water from the aquifer for the minimum aquifer life of 100 years. The effect of this calculation is

Case No.: 08CW113

Applicant: Morley-Bentley Investments, LLC

Aquifer: Dawson

to reduce the land available for calculating the quantity of water underlying the land claimed in the application to 1,345.92 acres.

- 6. Withdrawal of ground water from the aquifer underlying the land claimed in the application will within one hundred years, deplete the flow of a natural stream at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and therefore the ground water is <u>not</u> nontributary ground water as defined in C.R.S. 37-90-103(10.7). C.R.S. 37-90-137(9)(c) states that judicial approval of a plan for augmentation shall be required prior to use of ground water of the type sought in this application. In the case of the Dawson aquifer such augmentation plans shall provide for the replacement of actual stream depletions to the extent necessary to prevent any injurious effect, based on actual aquifer conditions in existence at the time of the decree.
- 7. The allowed average annual amount of water available for withdrawal from the aquifer underlying the lands claimed in the application is 392.5 acre-feet (the quantity of water which is considered available divided by the 100 year aquifer life). It is recommended that the water court retain jurisdiction necessary to provide for adjustment (increase or decrease) of this amount.
- 8. Underlying the land claimed in the application, the aquifer is, as specified in the Denver Basin Rules, located approximately 54 feet to 346 feet below land surface. A site specific evaluation must be conducted with each well permit to identify the interval due to the varied elevation of the aquifer and surface topography.

| Dated this | 4th | day of _ | March | , 2009. |
|------------|-----|----------|-------|---------|

Dick Wolfe, P.E.

Director/State Engineer

Sarah Reinsel

Water Resources Engineer

Prepared by: SKR

Page 3

Case No.: 08CW113

Applicant: Morley-Bentley Investments, LLC

Aquifer: Dawson

EXHIBIT A

| Well | Location | | | | | | | | | |
|--------|----------|------|------|------|------|-----------|-----------|-----------|---------------|-------------|
| Number | Q40 | Q160 | Sec. | Twp. | Rng. | <u>AF</u> | <u>ST</u> | <u>SY</u> | <u>Radius</u> | <u>Area</u> |
| | | | | | | | | | | |
| 8745-R | NE | SW | 33 | 12S | 65W | 24.2 | 109 | 20 | 1240 | 87 |
| 8746-R | NE | SW | 33 | 12S | 65W | 16.1 | 112 | 20 | 1001 | 71 |
| 8747-R | NE | SW | 33 | 12S | 65W | 12.9 | 114 | 20 | 886 | 57 |
| 8748-R | NE | SW | 33 | 12S | 65W | 16.1 | 109 | 20 | 1011 | 74 |

Well Number = Well permit number and/or water court case number

AF = Annual appropriation of the well (acre-feet)

ST = Thickness of the saturated aquifer material at the well location (feet)

SY = Specific Yield of the saturated aquifer material (%)

Radius = Radius of the cylinder of appropriation (feet)

Area = Area of the applicant's land that is overlapped by the cylinder of appropriation (acres)

DISTRICT COURT, WATER DIVISION NO. 2, STATE OF COLORADO

OCT 29 1986

Case No. 86-CW-18

Priscille Lyner

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

Clerk

CONCERNING THE APPLICATION FOR NONTRIBUTARY GROUND WATER RIGHTS OF THE FIRST INTERSTATE BANK OF DENVER N.A., CARLA W. LEWIS, AND SAMUEL S. SHERMAN AS COTRUSTEES UNDER THE LIFE INSURANCE TRUST OF THOMAS M. DINES FROM THE ARAPAHOE FORMATION, EL PASO COUNTY.

THIS MATTER, having come on for hearing before the Court this 29 day of 200., 1986 upon the application of The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines ("Applicants") and the Court having considered the pleadings filed and the evidence presented, and being fully advised in the premises, hereby enters the following Findings of Fact, Conclusions of Law, and Judgment and Decree:

FINDINGS OF FACT

- l. The Applicants are The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines whose address is First Interstate Bank of Denver, 633 Seventeenth Street, Denver, Colorado 80202, Attn: Jack Alexander. Applicants filed the application in this case styled Application For Nontributary Ground Water From The Arapahoe Formation (the "Application") on March 28, 1986, seeking an adjudication of nontributary ground water rights from the Arapahoe Formation underlying lands owned by Applicants in El Paso County.
- 2. Timely and adequate notice of the Application was published as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether they have appeared or not. None of the lands or water rights involved in this case are within the boundaries of a designated groundwater basin.
- 3. A timely statement of opposition was filed by JVRC, Inc. No other statements of opposition were filed within the time provided by law nor did any other parties enter their appearance or intervene in these proceedings.

- 4. The Water Referee by Order dated July 19, 1986, under Section 37-92-303(2), C.R.S., rereferred the Application to the Water Judge for all further proceedings.
- 5. The State Engineer issued a Determination of Facts on the Application, dated July 28, 1986, which has been filed with the Court. The Division Engineer adopted the Determination of Facts as his recommendations on August 8, 1986. The Determination of Facts and the findings contained therein have been reviewed and considered by this Court in accordance with Section 37-92-305(6), C.R.S.
- Applicants seek an adjudication of rights nontributary ground water from the Arapahoe Formation beneath 1,410 acres of land in El Paso County which are described in Exhibit A and depicted on the map attached as Exhibit B, both of which are incorporated herein by this reference (the "Subject Lands"). Applicants are the owners of the Subject Lands and have the right to withdraw and use the waters from the Arapahoe Formation underlying those lands. The waters claimed herein may be withdrawn through the proposed wells described in Paragraph $\bar{7}$ below and through such additional, replacement and supplemental wells as may be necessary to withdraw all of the water in the Arapahoe Formation underlying the Subject Lands without causing material injury to any vested water right whose source of supply is the Arkansas River and any of its tributaries or any other natural stream, or any ground water tributary thereto, and the Applicants have so proven.
- 7. Applicants will divert the waters claimed herein from the Arapahoe Formation through Dines Wells KA-1, KA-2, KA-3, and KA-4 more particularly described as follows:

Well Name: Dines Well KA-1

- (a) In the SE 1/4 of the NW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 2500 feet from the North Section line and 2200 feet from the West Section line, in El Paso County.
- (b) Depth: 1900 feet.
- (c) Source: Nontributary Arapahoe Formation.
- (d) Pumping rate: 150 gpm.

(e) Annual quantity: 240 acre-feet.*

Well Name: Dines Well KA-2

- (a) Location: In the SW 1/4 of the SW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 200 feet from the South Section line and 200 feet from the West Section line, in El Paso County.
- (b) Depth: 1800 feet.
- (c) Source: Nontributary Arapahoe Formation.
- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.*

Well Name: Dines Well KA-3

- (a) Location: In the NW 1/4 of the SE 1/4 of Section 33, Township 12 South, Range 65 West of the 6th P.M., 1500 feet from the South Section line and 2100 feet from the East Section line, in El Paso County.
- (b) Depth: 1700 feet.
- (c) Source: Nontributary Arapahoe Formation.
- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.*

Well Name: Dines Well KA-4

- (a) Location: In the NE 1/4 of the SW 1/4 of Section 34, Township 12 South, Range 65 West of the 6th P.M., 1400 feet from the South Section line and 2100 feet from the West Section line, in El Paso County.
- (b) Depth: 1700 feet.
- (c) Source: Nontributary Arapahoe Formation.

- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.
- * Not to exceed in total the amount available to Applicants from the Arapahoe Formation pursuant to § 37-90-137(4), C.R.S. and the provisions of this decree.
- Pursuant to §37-90-137(4), C.R.S., five hundred seventy-five (575) acre-feet of water per year are available to Applicants from the Arapahoe Formation underlying the Subject The average thickness of saturated sand of the Arapahoe Formation underlying the Subject Lands is 240 feet but the final determination on actual saturated sand thickness will determined when the wells are drilled, and the amount decreed herein may be subsequently adjusted in accordance with that saturated sand thickness as provided in Paragraph 29 below. specific yield of the Arapahoe Formation is 17% in and beneath the Subject Lands. This finding is specific to the property involved and does not indicate or in any way reflect upon proper values for the subject aquifer elsewhere. All the water in the Arapahoe Formation underlying the Subject Lands remains available for withdrawal by the wells decreed herein.
- The State Engineer in his Determination of Facts acre-feet per year were that 581 available appropriation through the subject wells. The State Engineer's determination is based on a finding that only 1395 acres of the Subject Lands are available for appropriation, and based on saturated sand thicknesses of 245 feet and 250 feet for different parts of the Subject Lands and a specific yield of 17% for the Arapahoe Formation. The State Engineer also found that of the total 581 acre-feet per year of water available for appropriation, 569 acre-feet was nontributary and 12 acre-feet was not nontributary. The 12 acre-feet per year the State Engineer found as not nontributary underly 37 acres of Section 32 of the Subject Lands. Applicant has shown by a preponderance of the evidence that there are no existing wells with a right to water from the Arapahoe Formation underlying the Subject Lands and that the water underlying 1410 acres is available for The Court also finds that the appropriation by Applicants. withdrawals through Applicants' proposed wells of the water claimed herein including the amount of water underlying the 37 acres in Section 32 is nontributary. The proposed wells will not, at their location and withdrawing the amounts decreed herein, within one hundred years deplete the flow of any natural stream at a rate greater than one-tenth of one percent of the annual rate of withdrawal. Applicants' engineer has testified that 575 acre-feet per year is available for appropriation calculated with a saturated sand thickness of 240 feet for the

Arapahoe Formation. Subject to the final determination of saturated sand thickness based on the information derived from the drilling of the wells, Applicants will use 240 feet for the saturated sand thickness of the Arapahoe Formation beneath the Applicants' property.

- 10. The source of water for the proposed wells is nontributary as defined in Section 37-90-103 (10.5), C.R.S. The proposed withdrawals through Dines Wells KA-1, KA-2, KA-3, and KA-4 in the amount of 575 acre-feet per year, or in any lesser or greater amount determined under Paragraph 29, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal.
- 11. The waters of the Arapahoe Formation that are the subject of the appropriation claimed herein will be, Applicants intend that they be used, and Applicants shall have the right of succession of uses, for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock and agricultural uses. The water will be produced for immediate application to beneficial use and for storage and subsequent application to beneficial use. Subject only to the provisions of Paragraph 31, Applicants shall have the right to make any reuse, successive use or disposition of the developed claimed herein until totally consumed free of limitations, restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S.
- 12. All of the requirements of C.R.S. § 37-90-137(4), in effect on this date have been complied with, and the issuance of permits for the subject wells is justified and those permits will be issued as described in Paragraph 34 below.
- 13. Applicants will relinquish the right to consume after use, reuse, and successive use 2% of the amount of ground water withdrawn through Dines Wells KA-1, KA-2, KA-3 and KA-4 and any additional, supplemental, or replacement, wells without regard to dominion or control of the ground water so relinquished.
- 14. Applicants seek a decree designating all of the wells described in Paragraph 7 above as original and alternate points of diversion for each other permitting the withdrawal of up to the full cumulative amount by flow rate and volume of water which may be lawfully withdrawn from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested

water right or decreed conditional water right by the granting of this request, and it is hereby granted.

- 15. Applicants may withdraw more water than the amounts set forth in Paragraph 8 so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Arapahoe Formation.
- 16. Applicants have requested that the Court determine that Applicants have the right to withdraw all of the unappropriated water from the Arapahoe Formation lying below their land and to increase their annual appropriations based upon the local aquifer characteristics established through information obtained from the drilling of the wells upon notice to all parties and approval by the Court, without amending the Application or republishing. The Court finds that there has been full and adequate notice of these claims and Applicants will be entitled to an adjustment under the provisions of Paragraph 29 below on the amount of water to which the wells are entitled.
- 17. Applicants may construct any well within 200 feet of the described locations without amending the Application or reopening this decree.
- 18. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the provisions of Paragraph 34 below are and have been justified and shall apply.
- 19. As of March 3, 1986, Applicants have intended to the waters sought in the Application and have claim demonstrated by open and physical acts on the ground and by the completion of engineering study an and hydrogeological investigation on the water available for appropriation in the Arapahoe Formation. Applicants have demonstrated and manifested an intent to appropriate the waters claimed herein by giving sufficient notice thereof, all in accordance with law. evidence presented shows that the Applicants intend appropriate the waters claimed herein, that such intent appropriate has been adequately demonstrated, and that Applicants are entitled to a decree for the water rights herein decreed.
- 20. There is unappropriated water available for withdrawal by the structures decreed herein and the vested water rights of others will not be materially injured by the appropriations as decreed. Only that quantity of water underlying the Subject Lands has been considered to be

unappropriated; the minimum useful life of the Arapahoe Formation is at least one hundred (100) years, assuming no substantial artificial recharge within one hundred (100) years; and no material injury to vested water rights will result from the issuance of or exercise of the permits for the subject wells.

CONCLUSIONS OF LAW

- 21. The Court has jurisdiction to determine Applicants' rights to nontributary ground water pursuant to Sections 37-90-137(6), 37-92-203(1), and 37-92-302 through 305, C.R.S. (Supp. 1985). The procedures and requirements of these statutes have been complied with, full and adequate notice has been given, and no additional notice is required.
- 22. The Court concludes as a matter of law that the Application herein is one contemplated by law. The Application for a decree confirming Applicants' right to divert and use ground water from the Arapahoe Formation beneath the Subject Lands, pursuant to C.R.S. § 37-90-137(4), should be granted, subject to the provisions of this decree. The rights confirmed by this decree are vested property rights. The amount of water confirmed in this decree is that quantity of water underlying the Subject Lands and the annual withdrawals are based on an aquifer life of one hundred years.
- 23. The Court concludes that the rights to ground water determined herein are not conditional water rights and subsequent showings or findings of reasonable diligence under Section 37-92-301(4), C.R.S., are inapplicable and need not be made. Accordingly, each of the water rights adjudicated herein is a final vested property right.
- 24. Applicants are entitled as a matter of law to use, reuse, and successively use to extinction and dispose of all nontributary ground water decreed herein pursuant to Section 37-82-106, C.R.S. (Supp. 1985) subject only to a 2% relinquishment of Applicants' right to total consumption. Failure to use, reuse or recapture such water, including return flows, shall not be deemed a forfeiture or abandonment of the right to such use, reuse or recapture.
- 25. The Court shall retain jurisdiction over this matter to make adjustments to the amount of water available for withdrawal annually to conform to the actual aquifer characteristics encountered upon the drilling of the wells. This retained jurisdiction may be invoked only by the parties under Paragraph 36.

JUDGMENT AND DECREE

- 26. The Findings of Fact and Conclusions of Law set forth in Paragraphs 1-25, above are incorporated herein by this reference.
- 27. The Application for determination of water rights for the subject wells is granted subject to the following limitations.
- A right to five hundred seventy-five (575) acrenontributary ground water per year is decreed and confirmed in Applicants pursuant to § 37-90-137(4), C.R.S., for Dines Wells KA-1, KA-2, KA-3, and KA-4, from the Arapahoe Formation for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock agricultural uses. Applicants shall have the right to recapture, reuse, and dispose of the water developed by the subject wells. Applicants shall have the right to withdraw water for immediate application to beneficial use and for storage and subsequent application to beneficial use and shall have the right to make any reuse, successive use or disposition of the developed water herein to extinction free of any limitations. restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S. subject only to the provisions of Paragraph 31 below. The water may be withdrawn through the wells described in Paragraph 7 above and through such additional wells as may be required in order to maintain the annual appropriation as determined herein. proposed withdrawals through Dines Wells KA-1, KA-2, KA-3, and KA-4 and any additional, supplemental, or replacement wells in the amount of 575 acre-feet per year, or in any additional amounts of water from the Arapahoe Formation underlying the Subject Lands, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% annual rate of withdrawal, and those waters nontributary to any natural surface stream, its alluvium, and any ground water tributary thereto, and the proposed withdrawals will not result in material injury to vested water rights.
- 29. The total amount of water to which Applicants are entitled and which is available to Applicants from the Arapahoe Formation beneath the Subject Lands shall be 575 acre-feet per year or the lesser or greater amount of water each such well is entitled to as subsequently determined from the saturated sand thickness of the Arapahoe Formation determined from the geophysical data obtained from the construction of the wells. Geophysical logs shall be taken in accordance with the applicable

rules promulgated by the State Engineer. In making the determination of the final amount of water to which the subject wells are entitled, the following criteria shall apply:

- (a) Saturated sand thickness shall be defined as the cumulative thickness of saturated materials as shown on the geophysical logs for each well applying standard accepted geophysical log interpretation methodology;
- (b) The specific yield for the Arapahoe Formation shall be 17%;
- (c) The water in the Arapahoe Formation underlying the 1410 acres of the Subject Lands shall be considered available for appropriation by the wells decreed herein.

After the completion of the wells subject to this decree, Applicants shall submit the geophysical logs and any other geophysical information obtained from the drilling of the wells to the State Engineer and to the other parties in this action together with a statement from Applicants on the final actual saturated sand thickness and final annual appropriation for each well as determined by Applicants. Within 60 days from the date on which Applicants mail copies of the geophysical logs and statement to the parties herein, any party may petition this Court to invoke the Court's retained jurisdiction under Paragraph 36 of this decree to reconsider the saturated sand thickness of the Arapahoe Formation underlying the Subject Lands for the purpose of adjusting the total entitlement of water to the wells decreed herein. Those proceedings shall be limited exclusively to the issue of saturated sand thickness. If the Court's retained jurisdiction is not invoked within the time prescribed in this Paragraph, the respective amounts set forth in Applicants' statement as the final annual entitlement to each well shall be final, which amount shall be confirmed as final by order of the Court upon Applicants' motion to the Court setting forth facts showing compliance with this Paragraph.

30. The issuance by the Colorado Division of Water Resources pursuant to Colorado Revised Statutes, Section 37-90-137(4) of permits to construct the subject wells is justified and the Division of Water Resources is directed to issue the permits in accordance with Paragraph 34 below. Each of the requirements of the statute has been complied with. Unappropriated waters are available for appropriation from the Arapahoe Formation beneath the Subject Lands and the proposed withdrawals will not result in material injury to other vested water rights.

- 31. Applicants shall relinquish the right to consume, after use, reuse, and successive use 2% of the water withdrawn through Dines Wells KA-1, KA-2, KA-3 and KA-4 and any additional, supplemental, or replacement wells without regard to dominion or control of the ground water so relinquished.
- 32. All of the wells described in Paragraph 7 may be used as original and alternate points of diversion for each other permitting the withdrawal by flow rate and volume of up to the full cumulative amount of water which may be lawfully withdrawn from all of those wells from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or decreed conditional water right by the granting of this request, and it is hereby granted.
- 33. Applicants may withdraw more water than the final annual appropriation for each well so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of issuance of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Arapahoe Formation.
- 34. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the following provisions shall apply.
 - (a) The State Engineer shall consider the rights granted herein as valid and shall consider the water sought by Applicants as taken and appropriated by Applicants.
 - (b) When Applicants are prepared to drill a well described in this decree, Applicants shall apply to the State Engineer for a well permit and that permit shall be issued within 60 days under terms and conditions no less stringent than those set forth in this decree with the conditions for equipping and constructing the well as are specified in Paragraph 35 herein. In the event that a well permit expires prior to the construction of the well and the application of water to beneficial use, Applicants may apply for a new well permit and the State Engineer shall within 60 days issue a new well permit with the same terms and conditions as the permit that expired.
 - (c) Applicants shall submit well permit applications to the State Engineer's office for any replacement, supplemental or additional wells.

- (d) Any well permitted pursuant to this decree which is drilled within 200 feet of the decreed location shall be deemed to have been drilled at the decreed well location and shall not require application for a new or amended well permit.
- (e) In determining whether good cause exists for granting a request by Applicants to extend well permits for nontributary wells for one or more additional one-year periods pursuant to Section 37-90-137(3)(a)(II), C.R.S. (1985 Supp.), the State Engineer shall recognize that each well decreed herein, and such additional wells as are required from time to time to fully recover the annual appropriation herein, are part of a single integrated water supply system to be constructed over a phased period of time. So long as Applicants still desire to use the groundwater the well permits shall be extended.
- (f) Prior to constructing any additional wells, Applicants shall submit well permit applications to the State Engineer. In considering such permit applications, the State Engineer shall be governed by Section 37-90-137(10), C.R.S. (1985 Supp.) and the provisions of this decree. Any such permitting action may be reviewed by this Court pursuant to Section 37-92-305(6), C.R.S. (1985 Supp.).
- (g) For the purpose of well permit applications, Applicants need not submit separate proof, apart from the terms of this decree, of matters which have been determined herein.
- 35. Applicants shall geophysically log the entire bore hole of each well prior to the installation of casing. Such logs taken in accordance with the applicable promulgated by the State Engineer. In constructing maintaining any well which will withdraw water from the Arapahoe Formation under this decree, the Applicants shall seal off and encase the well with an impervious lining at all levels, except the level of the Arapahoe Formation, to prevent withdrawal of and mixing of groundwater in other aquifers and a totalizing flow meter shall be installed on each well. After construction the Applicants shall attach an identification tag to the well specifying the name of the well, the permit number and the aquifer from which the water is withdrawn. Applicants shall maintain records of the amounts pumped from each well on a monthly basis and such records shall be provided to the Division Engineer or the State Engineer on request.

36. This Court retains jurisdiction in this case for the reconsideration of the final amounts of water appropriated by the proposed wells in accord with Paragraph 29 above. The Court's retained jurisdiction may be invoked only by the Applicants and JVRC, Inc. The Court's retained jurisdiction may be invoked by written notice to the Court requesting a hearing. Copies of that notice will be served on the parties herein at their latest address of record in this case.

Dated this 29 day of Oct., 1986.

BY THE COURT

Honorable John Tracey

Water Judge Water Division No. 2 State of Colorado

APPROVED AS TO FORM AND SUBSTANCE:

SHERMAN & HOWARD

John L. DeWeerdt #9390

Kenneth L. Salazar #11648

Suite 2900

633 Seventeenth Street Denver, Colorado 80202

Telephone: (303) 297-2900

Attorneys for Applicants, The First Interstate Bank of Denver N.A., Carla W. Lewis. and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines.

Sherman and Howard (Salazar) Vranesh & Raisch (Shimmin) Division Engineer State Engineer

VRANESH & RAISCH

Michael D. Shimmin,

Post Office Box 871

Boulder, Colorado 80306 Telephone: (303) 443-6151 Attorneys for Objector

JVRC, Inc.

Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

OCT 29 1986

Principer Sylvers Clerk

EXHIBIT A

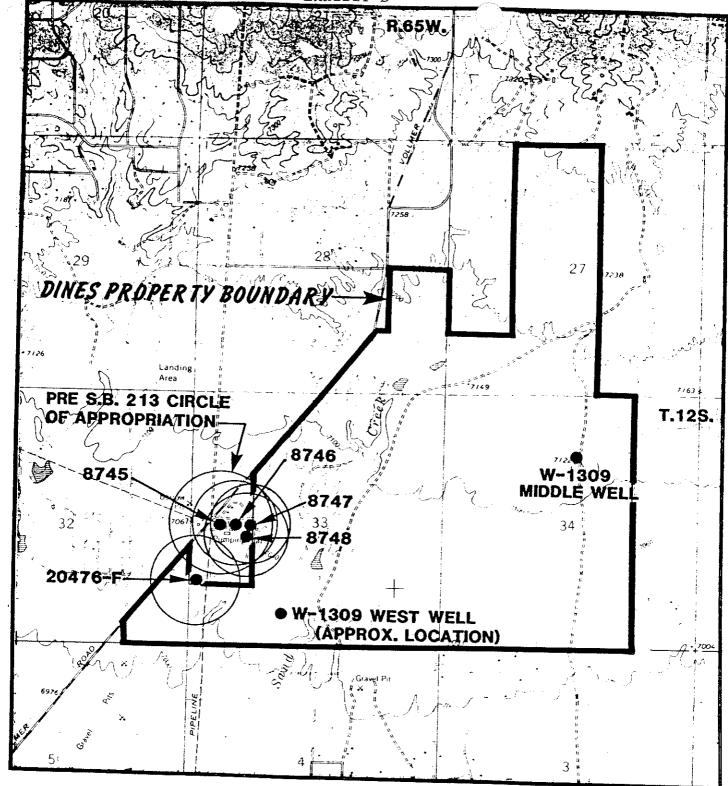
The Subject Lands consist of the following:

The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1/4 SW1/4 of Section 27; the E1/2 SE1/4 and that portion of the SW1/4 SE1/4 lying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, and that portion of the NE1/4 SE1/4 of said Section 32, lying South and East of said County Road; the E1/2 and the E1/2 SW1/4 and the SW1/4 SW1/4 of Section 33, and all that part of the NW1/4 of said Section 33 lying South and East of the said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road containing approximately 10 acres deeded to Colorado Interstate Gas Company by Warranty Deed recorded in Book 1173 at Page 359 of the E1 Paso County Records; and the W1/2 E1/2 and the W1/2 of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., located in E1 Paso County, Colorado.

Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

OCT 29 1986

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SCALE 1:24000

LOCATION MAP

FIGURE 1

Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

OCT 29 1986 Prisciller Lyners Clork

Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

DISTRICT COURT, WATER DIVISION NO. 2, STATE OF COLORADO

OCT 29 1986

Case No. 86-CW-19

Priseile Andrers

FINDINGS OF FACT, CONCLUSIONS OF LAW, JUDGMENT AND DECREE

Clerk

CONCERNING THE APPLICATION FOR NONTRIBUTARY GROUND WATER RIGHTS OF THE FIRST INTERSTATE BANK OF DENVER N.A., CARLA W. LEWIS, AND SAMUEL S. SHERMAN AS COTRUSTEES UNDER THE LIFE INSURANCE TRUST OF THOMAS M. DINES FROM THE LARAMIE-FOX HILLS AQUIFER, EL PASO COUNTY.

THIS MATTER, having come on for hearing before the Court this _29 day of _______, 1986 upon the application of The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines ("Applicants") and the Court having considered the pleadings filed and the evidence presented, and being fully advised in the premises, hereby enters the following Findings of Fact, Conclusions of Law, and Judgment and Decree:

FINDINGS OF FACT

- l. The Applicants are The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines whose address is First Interstate Bank of Denver, 633 Seventeenth Street, Denver, Colorado 80202, Attn: Jack Alexander. Applicants filed the application in this case styled Application For Nontributary Ground Water From The Laramie-Fox Hills Aquifer (the "Application") on March 28, 1986, seeking an adjudication of nontributary ground water rights from the Laramie-Fox Hills Aquifer underlying lands owned by Applicants in El Paso County.
- 2. Timely and adequate notice of the Application was published as required by statute, and the Court has jurisdiction over the subject matter of this proceeding and over all parties affected hereby, whether they have appeared or not. None of the lands or water rights involved in this case are within the boundaries of a designated groundwater basin.
- 3. A timely statement of opposition was filed by JVRC, Inc. No other statements of opposition were filed within the time provided by law nor did any other parties enter their appearance or intervene in these proceedings.

4. The Water Referee by Order dated July 19, 1986, under Section 37-92-303(2), C.R.S., rereferred the Application to the Water Judge for all further proceedings.

- 5. The State Engineer issued a Determination of Facts on the Application, dated July 28, 1986, which has been filed with the Court. The Division Engineer adopted the Determination of Facts as his recommendations on August 8, 1986. The Determination of Facts and the findings contained therein have been reviewed and considered by this Court in accordance with Section 37-92-305(6), C.R.S.
- Applicants seek an adjudication of rights to nontributary ground water from the Laramie-Fox Hills Aquifer beneath 1,410 acres of land in El Paso County which are described in Exhibit A and depicted on the map attached as Exhibit B, both of which are incorporated herein by this reference (the "Subject Lands"). Applicants are the owners of the Subject Lands and have the right to withdraw and use the waters from the Laramie-Fox Hills Aquifer underlying those lands. The waters claimed herein be withdrawn through the proposed wells described Paragraph 7 below and through such additional, replacement and supplemental wells as may be necessary to withdraw all of the water in the Laramie-Fox Hills Aquifer underlying the Subject Lands without causing material injury to any vested water right whose source of supply is the Arkansas River and any of its tributaries or any other natural stream, or any ground water tributary thereto, and the Applicants have so proven.
- 7. Applicants will divert the waters claimed herein from the Laramie-Fox Hills Aquifer through Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4 more particularly described as follows:

Well Name: Dines Well KLF-1

- (a) In the SE 1/4 of the NW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 2500 feet from the North Section line and 2300 feet from the West Section line, in El Paso County.
- (b) Depth: 2350 feet.
- (c) Source: Nontributary Laramie-Fox Hills Aquifer.
- (d) Pumping rate: 150 gpm.

(e) Annual quantity: 240 acre-feet.*

Well Name: Dines Well KLF-2

- (a) Location: In the SW 1/4 of the SW 1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., 100 feet from the South Section line and 100 feet from the West Section line, in El Paso County.
- (b) Depth: 2250 feet.
- (C) Source: Nontributary Laramie-Fox Hills Aquifer.
- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.*

Well Name: Dines Well KLF-3

- (a) Location: In the NW 1/4 of the SE 1/4 of Section 33, Township 12 South, Range 65 West of the 6th P.M., 1400 feet from the South Section line and 2200 feet from the East Section line, in El Paso County.
- (b) Depth: 2150 feet.
- (c) Source: Nontributary Laramie-Fox Hills Aquifer.
- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.*

Well Name: Dines Well KLF-4

- (a) Location: In the NE 1/4 of the SW 1/4 of Section 34, Township 12 South, Range 65 West of the 6th P.M., 1400 feet from the South Section line and 2200 feet from the West Section line, in El Paso County.
- (b) Depth: 2150 feet.
- (c) Source: Nontributary Laramie-Fox Hills Aquifer.

- (d) Pumping rate: 150 gpm.
- (e) Annual quantity: 240 acre-feet.
- * Not to exceed in total the amount available to Applicants from the Laramie-Fox Aquifer pursuant to § 37-90-137(4), C.R.S. and the provisions of this decree.
- 8. Pursuant to §37-90-137(4), C.R.S., five hundred thirty-nine (539) acre-feet of water per year are available to Applicants from the Laramie-Fox Hills Aquifer underlying the The average thickness of saturated sand of the Subject Lands. Laramie-Fox Hills Aquifer underlying the Subject Lands is 255 the final determination on actual saturated sand thickness will be determined when the wells are drilled, and the amount decreed herein may be subsequently adjusted in accordance with that saturated sand thickness as provided in Paragraph 29 The specific yield of the Laramie-Fox Hills Aquifer is 15% in and beneath the Subject Lands. This finding is specific to the property involved and does not indicate or in any way reflect upon proper values for the subject aquifer elsewhere. All the water in the Laramie-Fox Hills Aquifer underlying the Subject Lands remains available for withdrawal by the wells decreed herein.
- The State Engineer in his Determination of Facts that 423 acre-feet per year were available appropriation through the subject wells based on a specific yield of 15% and a saturated sand thickness of 200 feet for the Laramie-Fox Hill Aquifer beneath the Subject Lands. Applicants' engineer has testified that 539 acre-feet per year is available for appropriation calculated with a saturated sand thickness of 255 feet for the Laramie-Fox Hills Aquifer derived from a review of wells in the vicinity of the Subject Lands. Subject to the final determination of saturated sand thickness based on the information derived from the drilling of the wells, Applicants have shown by a preponderance of the evidence that the saturated sand thickness for the Laramie-Fox Hills Aquifer is 255 feet beneath the Applicants' property.
- 10. The source of water for the proposed wells is nontributary as defined in Section 37-90-103 (10.5), C.R.S. The proposed withdrawals through Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4 in the amount of 539 acre-feet per year, or in any lesser or greater amount determined under Paragraph 29, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal.

The waters of the Laramie-Fox Hills Aquifer that are the subject of the appropriation claimed herein will be, and Applicants intend that they be used, and Applicants shall have right of succession of uses, for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, exchange, replacement of depletions, augmentation, livestock and agricultural uses. The water will be produced for immediate application to beneficial use and for storage and subsequent application to beneficial use. Subject only to the provisions of Paragraph 31, Applicants shall have the right to make any reuse, successive use or disposition of the developed claimed herein until totally consumed free limitations, restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S.

- 12. All of the requirements of C.R.S. § 37-90-137(4), in effect on this date have been complied with, and the issuance of permits for the subject wells is justified and those permits will be issued as described in Paragraph 34 below.
- 13. Applicants will relinquish the right to consume after use, reuse, and successive use 2% of the amount of ground water withdrawn through Dines Wells KLF-1, KLF-2, KLF-3 and KLF-4 and any additional, supplemental, or replacement, wells without regard to dominion or control of the ground water so relinquished.
- 14. Applicants seek a decree designating all of the wells described in Paragraph 7 above as original and alternate points of diversion for each other permitting the withdrawal of up to the full cumulative amount by flow rate and volume of water which may be lawfully withdrawn from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or decreed conditional water right by the granting of this request, and it is hereby granted.
- 15. Applicants may withdraw more water than the amounts set forth in Paragraph 8 so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Laramie-Fox Hills Aquifer.
- 16. Applicants have requested that the Court determine that Applicants have the right to withdraw all of the unappropriated water from the Larimie-Fox Hills Aquifer lying

below their land and to increase their annual appropriations based upon the local aquifer characteristics established through information obtained from the drilling of the wells upon notice to all parties and approval by the Court, without amending the Application or republishing. The Court finds that there has been full and adequate notice of these claims and Applicants will be entitled to an adjustment under the provisions of Paragraph 29 below on the amount of water to which the wells are entitled.

- 17. Applicants may construct any well within 200 feet of the described locations without amending the Application or reopening this decree.
- 18. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the provisions of Paragraph 34 below are and have been justified and shall apply.
- 19. As of March 3, 1986, Applicants have intended to waters sought in the Application and demonstrated by open and physical acts on the ground and by the completion of an engineering study and hydrogeological investigation on the water available for appropriation in the Laramie-Fox Hills Aquifer. Applicants have demonstrated and manifested an intent to appropriate the waters claimed herein by giving sufficient notice thereof, all in accordance with law. The evidence presented shows that the Applicants intend to appropriate the waters that such claimed herein, intent to appropriate has been adequately demonstrated, and that Applicants are entitled to a decree for the water rights herein decreed.
- 20. There is unappropriated water available withdrawal by the structures decreed herein and the vested water others rights of will not be materially injured appropriations as decreed. Only that quantity of water underlying the Subject Lands has been considered to unappropriated; the minimum useful life of the Laramie-Fox Hills at least one hundred (100) years, assuming substantial artificial recharge within one hundred (100) years; and no material injury to vested water rights will result from the issuance of or exercise of the permits for the subject wells.

CONCLUSIONS OF LAW

21. The Court has jurisdiction to determine Applicants' rights to nontributary ground water pursuant to Sections 37-90-137(6), 37-92-203(1), and 37-92-302 through 305, C.R.S. (Supp. 1985). The procedures and requirements of these statutes have been complied with, full and adequate notice has been given, and no additional notice is required.

- 22. The Court concludes as a matter of law that the Application herein is one contemplated by law. The Application for a decree confirming Applicants' right to divert and use ground water from the Laramie-Fox Hills Aquifer beneath the Subject Lands, pursuant to C.R.S. § 37-90-137(4), should be granted, subject to the provisions of this decree. The rights confirmed by this decree are vested property rights. The amount of water confirmed in this decree is that quantity of water underlying the Subject Lands and the annual withdrawals are based on an aquifer life of one hundred years.
- 23. The Court concludes that the rights to ground water determined herein are not conditional water rights and subsequent showings or findings of reasonable diligence under Section 37-92-301(4), C.R.S., are inapplicable and need not be made. Accordingly, each of the water rights adjudicated herein is a final vested property right.
- 24. Applicants are entitled as a matter of law to use, reuse, and successively use to extinction and dispose of all nontributary ground water decreed herein pursuant to Section 37-82-106, C.R.S. (Supp. 1985) subject only to a 2% relinquishment of Applicants' right to total consumption. Failure to use, reuse or recapture such water, including return flows, shall not be deemed a forfeiture or abandonment of the right to such use, reuse or recapture.
- 25. The Court shall retain jurisdiction over this matter to make adjustments to the amount of water available for withdrawal annually to conform to the actual aquifer characteristics encountered upon the drilling of the wells. This retained jurisdiction may be invoked only by the parties under Paragraph 36.

JUDGMENT AND DECREE

- 26. The Findings of Fact and Conclusions of Law set forth in Paragraphs 1-25, above are incorporated herein by this reference.
- 27. The Application for determination of water rights for the subject wells is granted subject to the following limitations.
- 28. A right to five hundred thirty-nine (539) acrefeet of nontributary ground water per year is decreed and confirmed in Applicants pursuant to § 37-90-137(4), C.R.S., for Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4, from the Laramie-Fox Hills Aquifer for municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation,

exchange, replacement of depletions, augmentation, livestock and agricultural uses. Applicants shall have the right to recapture, reuse, and dispose of the water developed by the subject wells. Applicants shall have the right to withdraw water for immediate application to beneficial use and for storage and subsequent application to beneficial use and shall have the right to make any reuse, successive use or disposition of the developed water herein claimed extinction free of to limitations, any restrictions, or requirements as to the place of use, amount of discharge or location of discharge after such reuse, successive use or disposition in accord with Section 37-82-106, C.R.S. subject only to the provisions of Paragraph 31 below. The water may be withdrawn through the wells described in Paragraph 7 above and through such additional wells as may be required in order to maintain the annual appropriation as determined herein. proposed withdrawals through Dines Wells KLF-1, KLF-2, KLF-3, and KLF-4 and any additional, supplemental, or replacement wells in the amount of 539 acre-feet per year, or in any additional amounts of water from the Laramie-Fox Hills Aquifer underlying the Subject Lands, will not, within one hundred years, deplete the flow of any natural stream or its alluvium or any ground water tributary thereto at an annual rate greater than one-tenth of 1% of the annual rate of withdrawal, and is nontributary to any natural surface stream, its alluvium, and any ground water tributary thereto, and the proposed withdrawals will not result in material injury to vested water rights.

- The total amount of water to which Applicants are entitled and which is available to Applicants from the Laramie-Fox Hills Aquifer beneath the Subject Lands shall be 539 acrefeet per year or the lesser or greater amount of water each such is entitled to as subsequently determined from the saturated sand thickness of the Laramie-Fox Hills Aquifer determined from the geophysical data obtained from construction of the wells. Geophysical logs shall be taken in accordance with the applicable rules promulgated by the State In making the determination of the final amount of water to which the subject wells are entitled, the following criteria shall apply:
 - (a) Saturated sand thickness shall be defined as the cumulative thickness of saturated materials as shown on the geophysical logs for each well applying standard accepted geophysical log interpretation methodology;
 - (b) The specific yield for the Laramie-Fox Hills Aquifer shall be 15%;

(c) The water in the Laramie-Fox Hills Aquifer underlying the 1410 acres of the Subject Lands shall be considered available for appropriation by the wells decreed herein.

After the completion of the wells subject to this decree, Applicants shall submit the geophysical logs and any other geophysical information obtained from the drilling of the wells to the State Engineer and to the other parties in this action together with a statement from Applicants on the final actual saturated sand thickness and final annual appropriation for well as determined by Applicants. Within 60 days from the date on which Applicants mail copies of the geophysical logs and statement to the parties herein, any party may petition this Court to invoke the Court's retained jurisdiction under Paragraph 36 of this decree to reconsider the saturated sand thickness of the Laramie-Fox Hills Aquifer underlying the Subject Lands for the purpose of adjusting the total entitlement of water to the wells decreed herein. Those proceedings shall be limited exclusively to the issue of saturated sand thickness. Court's retained jurisdiction is not invoked within the time prescribed in this Paragraph, the respective amounts set forth in Applicants' statement as the final annual entitlement to each shall be final, which amount shall be confirmed as final by order of the Court upon Applicants' motion to the Court setting forth facts showing compliance with this Paragraph.

- 30. The issuance by the Colorado Division of Water Resources pursuant to Colorado Revised Statutes, Section 37-90-137(4) of permits to construct the subject wells is justified and the Division of Water Resources is directed to issue the permits in accordance with Paragraph 34 below. Each of the requirements of the statute has been complied with. Unappropriated waters are available for appropriation from the Laramie-Fox Hills Aquifer beneath the Subject Lands and the proposed withdrawals will not result in material injury to other vested water rights.
- 31. Applicants shall relinquish the right to consume, after use, reuse, and successive use 2% of the water withdrawn through Dines Wells KLF-1, KLF-2, KLF-3 and KLF-4 and any additional, supplemental, or replacement wells without regard to dominion or control of the ground water so relinquished.
- 32. All of the wells described in Paragraph 7 may be used as original and alternate points of diversion for each other permitting the withdrawal by flow rate and volume of up to the full cumulative amount of water which may be lawfully withdrawn from all of those wells from any one or more of those wells. The Court finds that no material injury will result to the owners or persons entitled to use water under any vested water right or

decreed conditional water right by the granting of this request, and it is hereby granted.

- 33. Applicants may withdraw more water than the final annual appropriation for each well so long as the sum of the withdrawals from all wells decreed herein (as that sum may subsequently be adjusted pursuant to Paragraph 29 hereof) does not exceed the product of the number of years since the date of issuance of this decree, times the annual rate of one percent (1%) of the total amount of unappropriated water recoverable from the Laramie-Fox Hills Aquifer.
- 34. With respect to the permits to be issued by the State Engineer's office for construction of the wells described in Paragraph 7 herein, the following provisions shall apply.
 - (a) The State Engineer shall consider the rights granted herein as valid and shall consider the water sought by Applicants as taken and appropriated by Applicants.
 - (b) When Applicants are prepared to drill a well described in this decree, Applicants shall apply to the State Engineer for a well permit and that permit shall be issued within 60 days under terms and conditions no less stringent than those set forth in this decree with the conditions for equipping and constructing the well as are specified in Paragraph 35 herein. In the event that a well permit expires prior to the construction of the well and the application of water to beneficial use, Applicants may apply for a new well permit and the State Engineer shall within 60 days issue a new well permit with the same terms and conditions as the permit that expired.
 - (c) Applicants shall submit well permit applications to the State Engineer's office for any replacement, supplemental or additional wells.
 - (d) Any well permitted pursuant to this decree which is drilled within 200 feet of the decreed location shall be deemed to have been drilled at the decreed well location and shall not require application for a new or amended well permit.
 - (e) In determining whether good cause exists for granting a request by Applicants to extend well permits for nontributary wells for one or more additional one-year periods pursuant to Section 37-90-137(3)(a)(II), C.R.S. (1985 Supp.), the State Engineer shall recognize that each well decreed herein, and such additional

wells as are required from time to time to fully recover the annual appropriation herein, are part of a single integrated water supply system to be constructed over a phased period of time. So long as Applicants still desire to use the groundwater the well permits shall be extended.

- (f) Prior to constructing any additional wells, Applicants shall submit well permit applications to the State Engineer. In considering such permit applications, the State Engineer shall be governed by Section 37-90-137(10), C.R.S. (1985 Supp.) and the provisions of this decree. Any such permitting action may be reviewed by this Court pursuant to Section 37-92-305(6), C.R.S. (1985 Supp.).
- (g) For the purpose of well permit applications, Applicants need not submit separate proof, apart from the terms of this decree, of matters which have been determined herein.
- 35. Applicants shall geophysically log the entire bore hole of each well prior to the installation of casing. Such logs shall be taken in accordance with the applicable promulgated by the State Engineer. In constructing maintaining any well which will withdraw water from the Laramie-Fox Hills Aquifer under this decree, the Applicants shall seal off and encase the well with an impervious lining at all levels, except the level of the Laramie-Fox Hills Aquifer, to prevent withdrawal of and mixing of groundwater in other aquifers and a totalizing flow meter shall be installed on each well. construction the Applicants shall attach an identification tag to the well specifying the name of the well, the permit number and the aquifer from which the water is withdrawn. Applicants shall maintain records of the amounts pumped from each well on a monthly basis and such records shall be provided to the Division Engineer or the State Engineer on request.

36. This Court retains jurisdiction in this case for the reconsideration of the final amounts of water appropriated by the proposed wells in accord with Paragraph 29 above. The Court's retained jurisdiction may be invoked only by the Applicants and JVRC, Inc. The Court's retained jurisdiction may be invoked by written notice to the Court requesting a hearing. Copies of that notice will be served on the parties herein at their latest address of record in this case.

Dated this 29 day of Oct., 1986.

BY THE COURT

Water Judge
Water Division No. 2
State of Colorado

APPROVED AS TO FORM AND SUBSTANCE:

SHERMAN & HOWARD

John L. DeWeerdt #9390

Kenneth L. Salazar #11648

Suite 2900

633 Seventeenth Street Denver, Colorado 80202

Telephone: (303) 297-2900

Attorneys for Applicants, The First Interstate Bank of Denver N.A., Carla W. Lewis, and Samuel S. Sherman as Cotrustees under the Life Insurance Trust of Thomas M. Dines.

c: Sherman and Howard (Salazar)
 Vranesh & Raisch (Shimmin)
 Division Engineer
 State Engineer

VRANESH & RAISCH

Michael D. Shimmin, #9182

Post Office Box 871

Boulder, Colorado 80306 Telephone: (303) 443-6151 Attorneys for Objector

JVRC, Inc.

Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

OCT 29 1986

Riscilla Lyners Clerk

EXHIBIT A

The Subject Lands consist of the following:

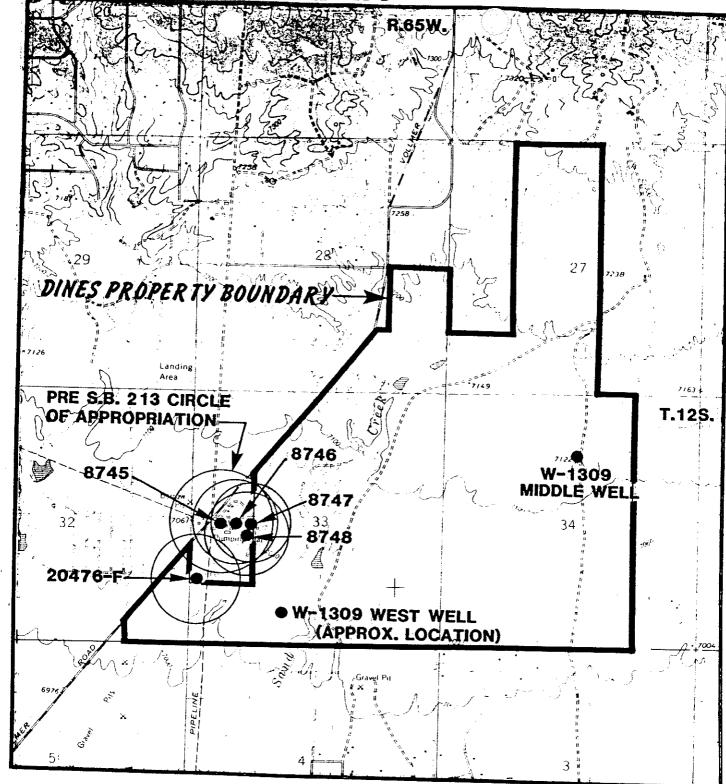
The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1/4 SW1/4 of Section 27; the El/2 SEl/4 and that portion of the SWl/4 SEl/4 lying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, and that portion of the NE1/4 SE1/4 of said Section 32, lying South and East of said County Road; the E1/2 and the E1/2 SW1/4 and the SW1/4 SW1/4 of Section 33, and all that part of the NW1/4 of said Section 33 lying South and East of the said County Road across premises, except that portion of the SW1/4 NW1/4 of Section 33 lying South and East of said County Road containing approximately 10 acres deeded to Colorado Interstate Gas Company by Warranty Deed recorded in Book 1173 at Page 359 of the El Paso County Records; and the W1/2 E1/2 and the W1/2 of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado.

> Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

> > OCT 29 1986

Priscille L. Lyners

Clerk



SCALE 1:24000

Filed in the office of the Clerk, District Court Water Division No. 2, State of Colorado

OCT 29 1986

LOCATION MAP

FIGURE 1



217062313 5/31/2017 10:16 AM \$88.00 DF \$0.00

Electronically Recorded Official Records El Paso County CO Chuck Broerman, Clerk and Recorder

> DATE FILED: May 31, 2017 9:37 AM CASE NUMBER: 2017CW3002

▲ COURT USE ONLY ▲

Case No.: 17CW3002

TD1000 N

DISTRICT COURT, WATER DIVISION 2, COLORADO

Court Address: 501 North Elizabeth Street,

Suite 116

Pueblo, CO 81003

CONCERNING THE APPLICATION FOR WATER

RIGHTS OF:

ARROYA INVESTMENTS, LLC, JACOB DECOTO, **MARVIN ORNES and TERRI WAHLBERG**

IN EL PASO COUNTY

FINDINGS OF FACT, CONCLUSIONS OF LAW, RULING OF REFEREE

AND DECREE

THIS MATTER comes before the Water Referee on the Application filed by Arroya Investments, LLC, Jacob Decoto, Marvin Ornes and Terri Wahlberg, and 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 Arroya Investments, LLC ("Arroya"), Jacob Decoto ("Decoto"), Marvin Ornes ("Ornes") and Terri Wahlberg ("Wahlberg") (collectively, "Applicants"). Applicants are, collectively, the owners of the four separately owned parcels of land totaling approximately 335.59 acres under which the groundwater sought to be adjudicated herein are located, and are likewise the owners of the place of use where the water is anticipated to be put to beneficial use.
- The Applicants filed this Application with the Water Court for Water Division 2 on January 31, 2017. The Application was referred to the Water Referee by order of the Court dated February 2, 2017.
- The time for filing statements of opposition to the Application expired on the last day of March, 2017, and a no statements of opposition were timely filed.
- On February 2, 2017, the Division 2 Water Court ordered that publication occur in the Daily Transcript within El Paso County.
- 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 February 15, 2017, proof of publication in the *Daily Transcript* was filed with the Court. All notices of the Application have been given in the manner required by law.

- 6. Pursuant to C.R.S. §37-92-302(2), the Office of the State Engineer has filed Determination of Facts for each aquifer with this Court dated March 14, 2017.
- 7. Pursuant to C.R.S. §37-92-302(4), the office of the Division Engineer for Water Division 2 filed its Consultation Report dated March 29, 2017, with the Court. The Consultation Report has 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.

GROUNDWATER RIGHTS

- 9. The Applicants requested the adjudication and quantification all Denver Basin groundwater in each aquifer underlying the four (4) specifically described parcels of land owned by each of the Applicants, respectively, as described herein. No plan for augmentation for the use of the not-nontributary groundwater was sought or is decreed herein. The Applicants shall construct such wells as necessary for withdrawal of Applicants' full entitlements of water supplies decreed herein. The following findings are made with respect to such underground water rights:
- A. <u>Property Description</u>. All wells to all aquifers will be located on the Applicants respective properties. Such Properties are more specifically described as follows:
- i. <u>Arroya Parcel</u>. The "Arroya Parcel" is an approximately 226 acre parcel located in the SE1/4 SE1/4 of Section 21, the W1/2 SW1/4 of Section 22, the E1/2 NE1/4 of Section 28, the W1/2 NW1/4 and the NW1/4 SW1/4 of Section 27, all in Township 21 South, Range 65 West of the 6th P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit A**, and depicted on attached **Exhibit E**. The Arroya Parcel is owned by Applicant Arroya Investments, LLC.
- ii. <u>West Parcel No. 1</u>. The "West Parcel No. 1" is an approximately 36.01 acre parcel located in the SW1/4 SE1/4 and the SE1/4 SE1/4 of Section 21, and the NE1/4 NE1/4 of Section 27, Township 12 South, Range 65 West of the 6th P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit B**, and depicted on attached **Exhibit E**. The West Parcel No. 1 is owned by Applicant Jacob Decoto.
- iii. <u>West Parcel No. 2</u>. The "West Parcel No. 2" is an approximately 36.03 acre parcel located in the SW1/4 SE1/4 and the SE1/4 SE1/4 of Section 21, Township 12 South, Range 65 West of the 6th P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit C**, and depicted on attached **Exhibit E**. The West Parcel No. 2 is owned by Applicant Jacob Decoto.

- iv. <u>West Parcel No. 3</u>. The "West Parcel No. 3" is an approximately 37.58 acre parcel located in the NW1/4 SE1/4 and the NE1/4 SE1/4 of Section 21, Township 12 South, Range 65 West of the 6th P.M., El Paso County, Colorado, as more particularly described on attached **Exhibit D**, and depicted on attached **Exhibit E**. The West Parcel No. 3 is owned by Applicants Marvin Ornes and Terri Wahlberg.
- B. <u>Existing Wells</u>. There is currently one (1) existing well constructed to the Dawson aquifer on West Parcel No. 2 (Decoto): DWR Permit No. 4554, an exempt domestic well. DWR Permit No. 4554 is an exempt structure; water from the Dawson aquifer sufficient to allow for such continued exempt use has been excluded from the quantification herein. Two additional exempt domestic wells have been permitted since the filing of the application in this matter, DWR Permit No. 304551 on West Parcel No. 1 (Decoto), and DWR Permit No. 304498 on West Parcel No. 3 (Ornes/Wahlberg), and are excluded from quantification herein.
- C. <u>Additional Wells</u>. Applicants anticipated additional wells will be constructed on each the Applicants' respective properties. To the extent any additional wells may be constructed to the not-nontributary Dawson and/or Denver aquifer(s), such wells may be constructed only pursuant to a subsequent decree providing an approved plan for augmentation, or as exempt well structures pursuant to C.R.S. §37-92-602.
- 10. Of the statutorily described Denver Basin aquifers, the Dawson, Denver, Arapahoe, and Laramie-Fox Hills aquifers all exist beneath the Applicants' respective properties. The Dawson and Denver aquifers contain not-nontributary water, while the water of the Arapahoe and Laramie-Fox Hills aquifers underlying the Applicants' respective properties is nontributary. The quantity of water in the Denver Basin aquifers exclusive of artificial recharge underlying each of the Applicants' respective properties as allocated on a pro-rata per acre basis from the amounts described in the State Engineer's Determination of Facts, is as follows:

A. <u>Arroya Parcel (225.97 acres)</u>:

| Aquifer | Sand Thickness (Feet) | Total Ground Water Storage (Acre Feet) | Annual Average Withdrawal – 100 Years (Acre Feet) |
|---------------------------|-----------------------------|---|--|
| Dawson (NNT) | 270 | 12,202 | 122 |
| Denver (NNT) | 310 | 11,909 | 119.1 |
| Arapahoe (NT) | 255 | 9,796 | 98 |
| Laramie-Fox Hills (NT) | 190 | 6,440 | 64.4 |

B. West Parcel No. 1 (Decoto – 36.01 acres):

| Aquifer | Sand Thickness (Feet) | Total Ground Water Storage (Acre Feet) | Annual Average Withdrawal – 100 Years (Acre Feet) |
|---------------------------|-----------------------------|---|--|
| Dawson (NNT) | 270 | 1,944.4 | 16.44 ¹ |
| Denver (NNT) | 310 | 1,897.7 | 18.98 |
| Arapahoe (NT) | 255 | 1,561 | 15.61 |
| Laramie-Fox Hills (NT) | 190 | 1,026.2 | 10.26 |

C. West Parcel No. 2 (Decoto – 36.03 acres):

| Aquifer | Sand Thickness (Feet) | Total Ground Water Storage (Acre Feet) | Annual Average Withdrawal – 100 Years (Acre Feet) |
|---------------------------|-----------------------------|---|--|
| Dawson (NNT) | 270 | 1,945.4 | 16.45 ² |
| Denver (NNT) | 310 | 1,898.8 | 18.99 |
| Arapahoe (NT) | 255 | 1,562 | 15.62 |
| Laramie-Fox Hills (NT) | 190 | 1,026.8 | 10.27 |

D. West Parcel No. 3 (Ornes & Wahlberg – 37.58 acres):

| Aquifer | Sand Thickness (Feet) | Total Ground Water Storage (Acre Feet) | Annual Average Withdrawal – 100 Years (Acre Feet) |
|---------------------------|-----------------------------|---|--|
| Dawson (NNT) | 270 | 2,029.2 | 17.29 ³ |
| Denver (NNT) | 310 | 1,980.5 | 19.80 |
| Arapahoe (NT) | 255 | 1,629 | 16.29 |
| Laramie-Fox Hills (NT) | 190 | 1,071 | 10.7 |

Three (3) annual acre feet of Dawson groundwater has been reserved from quantification herein for permitting of an exempt domestic well on this parcel pursuant to C.R.S. §37-92-602, *et seq.*, recently permitted as DWR Permit No. 304551.

Three (3) annual acre feet of Dawson groundwater has been reserved from quantification herein for continued use of DWR Permit No. 4554 as an exempt domestic well on this parcel pursuant to C.R.S. §37-92-602, et seq.

Three (3) annual acre feet of Dawson groundwater has been reserved from quantification herein for permitting of an exempt domestic well on this parcel pursuant to C.R.S. §37-92-602, et seq., recently permitted as DWR Permit No. 304498.

- 11. Pursuant to §37-90-137(9)(c.5)(I), C.R.S., the augmentation requirements for wells in the Dawson aquifer require the replacement to the effected stream systems of actual stream depletions on an annual basis, to the extent necessary to prevent injurious effect, based upon actual aquifer conditions. The augmentation requirements for wells to the Denver aquifer are for 4% of pumping. Applicants shall not be entitled to construct a non-exempt well or use water from the not-nontributary Dawson or Denver aquifers except pursuant to an approved augmentation plan in accordance with C.R.S. §37-90-137(9)(c.5).
- 12. Applicants shall be entitled to withdraw all legally available groundwater in the Denver Basin aquifers underlying Applicants' respective properties. Said amounts can be withdrawn over the 100-year life for the aquifers as set forth in C.R.S. §37-90-137(4), or withdrawn over a longer period of time based upon local governmental regulations or Applicants' water needs. The average annual amounts of ground water available for withdrawal from the underlying Denver Basin aquifers, based upon the 100-year aquifer life is determined and set forth above, based upon the March 14, 2017 Office of the State Engineer Determination of Facts. Such groundwater may be withdrawn from wells located upon the overlying land or contiguous properties with such contiguity to allow such withdrawal, consistent with the Denver Basin Rules as promulgated by the Office of the State Engineer, as may be amended from time to time.
- 13. Applicants shall be entitled to withdraw an amount of groundwater in excess of the average annual amount decreed herein from the Denver Basin aquifers underlying Applicants' respective properties, so long as the sum of the total withdrawals from wells in the aquifer does not exceed the product of the number of years since the date of issuance of the original well permit or the date of entry of the decree herein, whichever comes first, and the annual volume of water which Applicants are entitled to withdraw from the aquifer underlying Applicants' respective properties.
- The Applicants shall have the right to use the ground water for beneficial uses on or off the Applicants' respective properties consisting of domestic, commercial, irrigation, stock water, recreation, wildlife, wetlands, fire protection, piscatorial, and for storage and augmentation associated with such uses. The amount of groundwater decreed for such uses upon the Applicants' respective properties is reasonable as such uses are to be made for the long term use and enjoyment of the Applicants' respective properties and are to establish and provide for adequate water reserves. nontributary groundwater, may be used, reused, and successively used to extinction, both on and off the Applicants' respective properties subject, however, to the relinquishment of the right to consume two percent of such nontributary water withdrawn. Applicants may use such water by immediate application or by storage and subsequent application to the beneficial uses and purposes stated herein. Provided however, as set forth above, Applicants shall only be entitled to construct a non-exempt well or use water from the not-nontributary Dawson and Denver aguifers pursuant to a decreed augmentation plan entered by the Court. Withdrawals of groundwater available from the nontributary aquifers beneath the Applicants' respective properties in the

amounts determined in accordance with the provisions of this decree will not result in material injury to any other vested water rights or to any other owners or users of water.

15. Applicants may construct such wells on their respective properties as necessary for the withdrawal of all entitlements from each aquifer as described above, and such withdrawals may be made through any combination of wells. As to each of Applicants' respective properties, these wells shall be treated as a well field.

CONCLUSIONS OF LAW

- 16. The application for adjudication of Denver Basin groundwater was filed with the Water Clerk for Water Division 2 pursuant to C.R.S. §§37-92-302(1)(a) and 37-90-137(9)(c).
- 17. The Applicants' request for adjudication of these water rights 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.
- 18. Subject to the terms of this decree, the Applicants are entitled to the sole right to withdraw all the legally available water in the Denver Basin aquifers underlying the Applicants' respective properties, and the right to use that water to the exclusion of all others subject to the terms of this decree.
- 19. The Applicants have complied with C.R.S. §37-90-137(4), and the groundwater is legally available for withdrawal by the requested nontributary well(s), and legally available for withdrawal by the requested not-nontributary well(s) upon the entry of a subsequent decree approving an augmentation plan pursuant to C.R.S. §37-90-137(9)(c.5). Applicants are entitled to a decree from this Court confirming their rights to withdraw groundwater pursuant to C.R.S. §37-90-137(4).
- 20. The Denver Basin water rights applied for 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. The claims for nontributary and not-nontributary groundwater meet the requirements of Colorado Law.
- 21. The determination and quantification of the nontributary and not-nontributary groundwater rights in the Denver Basin aquifers as set forth herein is contemplated and authorized by law. C.R.S. §§37-90-137, and 37-92-302 through 37-92-305.

IT IS THEREFORE ORDERED, ADJUDGED AND DECREED AS FOLLOWS:

- 22. 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.
- 23. The Application for Adjudication of Denver Basin Groundwater proposed by the Applicants is approved, subject to the terms of this decree.
- 24. The Applicants have furnished acceptable proof as to all claims and, therefore, the Application for Adjudication of Groundwater as requested by the Applicants is granted and approved in accordance with the terms and conditions of this decree. Approval of this Application will not result in any material injury to senior vested water rights.
- 25. 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 may therefore be consumed. No plan for augmentation shall be required to provide for such relinquishment.
- 26. 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 characteristic, and that the Applicants need not refile, republish, or otherwise amend this application to request such adjustments.
- A. At such time as adequate data may be available, Applicant or the State Engineer may invoke the Court's retained jurisdiction as provided in this Paragraph 26 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, Applicant, and the petitioning party.
- 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 26 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 26.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.

- 27. 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 wells, and any additional or replacement wells. 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.
- 28. The vested water rights and water right structures 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.
- 29. 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.

DATED THIS 5th day of May, 2017.

BY THE REFEREE:

Marawa P. Diranico

Mardell R. DiDomenico, Water Referee Water Division 2

DECREE

THE COURT FINDS THAT NO PROTEST WAS MADE IN THIS MATTER, THEREFOR THE FORGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

Dated: May 31, 2017.

BY THE COURT:

LARRY C SCHWARTZ, WATER JUDGE WATER DIVISION 2

EXHIBIT A

LEGAL DESCRIPTION – ARROYA PARCEL

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21 AND A PORTION OF THE SOUTHWEST ONE-QUARTER OF SECTION 22, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP \$TAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR \$00°54'30" F. A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27;
THENCE S88°38'56"W ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1047.88 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S88°38'56"W CONTINUING ALONG SAID NORTH LINE, A DISTANCE OF 283.03 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27 SAID POINT ALSO BEING A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE ALONG THE EASTERLY AND NORTHERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

- 1. N00°37'14"W SAID LINE ALSO BEING THE WEST LINE OF THE SOUTHWEST ONE-QUARTER (SW1/4) OF SAID SECTION 22, A DISTANCE OF 30.00 FEET; 2. S89°40'23"W, A DISTANCE OF 736.82 FEET TO THE POINT OF INTERSECTION OF THE
- 2. S89°40'23"W, A BISTANCE OF 736.82 FEET TO THE POINT OF INTERSECTION OF THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF SAID COUNTY RECORDS;

THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1798.07 FEET:

THENCE N59°58'50'E, A DISTANCE OF 694.83 FEET;

THENCE S14°30'58"E, A DISTANCE OF 567.09 FEET;

THENCE N69°36'18"E, A DISTANCE OF 603.87 FEET;

THENCE \$30°23'46"E, A DISTANCE OF 264.58 FEET;

THENCE S61°52'38"W, A DISTANCE OF 227.40 FEET;

THENCE S79°15'47"W, A DISTANCE OF 276.17 FEET;

THENCE S89°39'18"W, A DISTANCE OF 356.07 FEET;

THENCE S40°09'47"W, A DISTANCE OF 310.61 FEET;

THENCE S09°56'46"W, A DISTANCE OF 270.03 FEET;

THENCE S35°00'25"W, A DISTANCE OF 167.38 FEET;

THENCE S57°24'01"W, A DISTANCE OF 235.36 FEET;

THENCE \$27°23'34"E, A DISTANCE OF 611.29 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 35.08 ACRES OF LAND, MORE OR LESS.

Along With:

A PARCEL OF LAND BEING THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (SW1/4 NW1/4) OF SECTION 27, THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SECTION 27, A PORTION OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER OF SECTION 28 AND A PORTION OF THE NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4) OF SECTION 28, ALL IN TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET:

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S00°54'30" F ALONG THE EAST LINE OF THE WEST ONE-HALF (W1/2) OF SAID SECTION 27, A DISTANCE OF 3925.63 FEET TO THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER NW1/4 SW1/4) OF SAID SECTION 27.

THENCE \$87°35'00"W ALONG THE SOUTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1332.78 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-OUARTER (NW1/4 SW1/4);

THENCE N00°53'18"W ALONG THE WEST LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1316.78 FEET TO THE NORTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4);

THENCE S89°08'28"W ALONG THE SOUTH LINE OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4) OF SECTION 28, A DISTANCE OF 1326.68 FEET TO THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4);

THENCE N00°30'49"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4), A DISTANCE OF 1270.77 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN

BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1450.84 FEET TO THE POINT OF INTERSECTION OF THE SOUTHERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF SAID COUNTY RECORDS;

THENCE ALONG THE SOUTHERLY AND EASTERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

1. N89°40'23"E, A DISTANCE OF 761.52 FEET TO A POINT ON THE EAST LINE OF SAID NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NEI/4 NEI/4); 2. N00°52'58"W ALONG SAID EAST LINE, A DISTANCE OF 30.00 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27;

THENCE N88°38'56"E ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW 1/4 NW 1/4), A DISTANCE OF 1330.91 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 190.89 ACRES OF LAND, MORE OR LESS.

EXHIBIT B

LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 1:

A PARCEL OF LAND LOCATED IN A POPPON OF THE SOUTHEAST ONE-QUARTER (SEL/4) OF SECTION 21 AND A PORTION OF THE STATEMENT ONE-QUARTER (NET/A) OF SECTION 28, TOWNSHIP TO SOUTH, RANGE &S MEST OF THE STATEMENT, IL PASO COUNTY, COLORADO, BONG MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARNICS: THE WEST CIBE OF THE SOUTHEAST ONE-QUARTER (SET/A) OF SECTION 21, TOWNSHIP to south, rance os west is assumed to bear nodustion. A distance of ordest teet.

COMMENSORS AT THE DEFINACIT CORNER OF DAID IGUIDIEATH ONE-QUARTER (DEL/*) DAND FORT ALLOW SEENS THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED:

THENCE ND02532W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER (SEX/4); A DISTANCE OF \$50.11 FEET:

THENCE N89'40'31'E, A DISTANCE OF 2077 12 FEET TO A POINT ON THE WESTERLY BIGHT-OF-WAY LINE OF VOLUMER ROAD AS DESCRIBED IN THE DISCLIMENT RESCRIBED IN SHOOK 2678 AT PAGE 430 OF THE RECENSES OF THE EL PARO COUNTY CLERK AND RECORDER.

THENCE SET41'10'W ALONG SAID WESTERLY RIGHT-OF-WAY LINE, A DISTANCE DE 2813'88 FEET TO A POINT

ON THE EAST LINE OF THE NORTHWEST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NWW/A NET/4) OF SAID SECTION 28:

THENCE NOTATION ALONG SAID FAST LINE, A DISTANCE OF 1217-12 FORT TO THE SQUINGAST BORRIES OF THE SIXTHMEST ONE QUARTER OF THE SOUTHEAST ONE CHARTER (SW)/A SC)/4) OF SAID SECTION 21: THENCE SECTION ALONG THE SOUTH UNE OF SAID SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER (SW)/A SE1/A), A DISTANCE OF 13/13/AS FEET TO THIS POINT OF BEQUIRED.

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 38.01 ACRES OF LAND, MORE OR LESS.

EXHIBIT C

LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 2:

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SC)/4) OF SECTION 21. TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASO COUNTY, COLORADO, BONG MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS. THE WEST LINE OF THE SCUTHEAST ONE-QUARTER (SET/4) OF SECTION 21, TOWNSHIP 12 SCUTH, RANGE 65 WEST IS ASSUMED TO BEAR NOO'25 32*N, A DISTANCE OF 2638.53 FEET;

SAID PARCEL OF LAND CONTAINS A CALCULATED APEA OF 36.03 ACRES OF LAND , HORE, OF YESS.

EXHIBIT D

LEGAL DESCRIPTION TRAILS AT TIMBERLINE WEST PARCEL 3:

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE GUARTER (SEL/A) OF SECTION 21, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE SIXTH PRINCIPAL MERIDIAN, EL PASC COUNTY, COLORADO. BOING MORE PARTICULARLY DESORDED AS FOLLOWS:

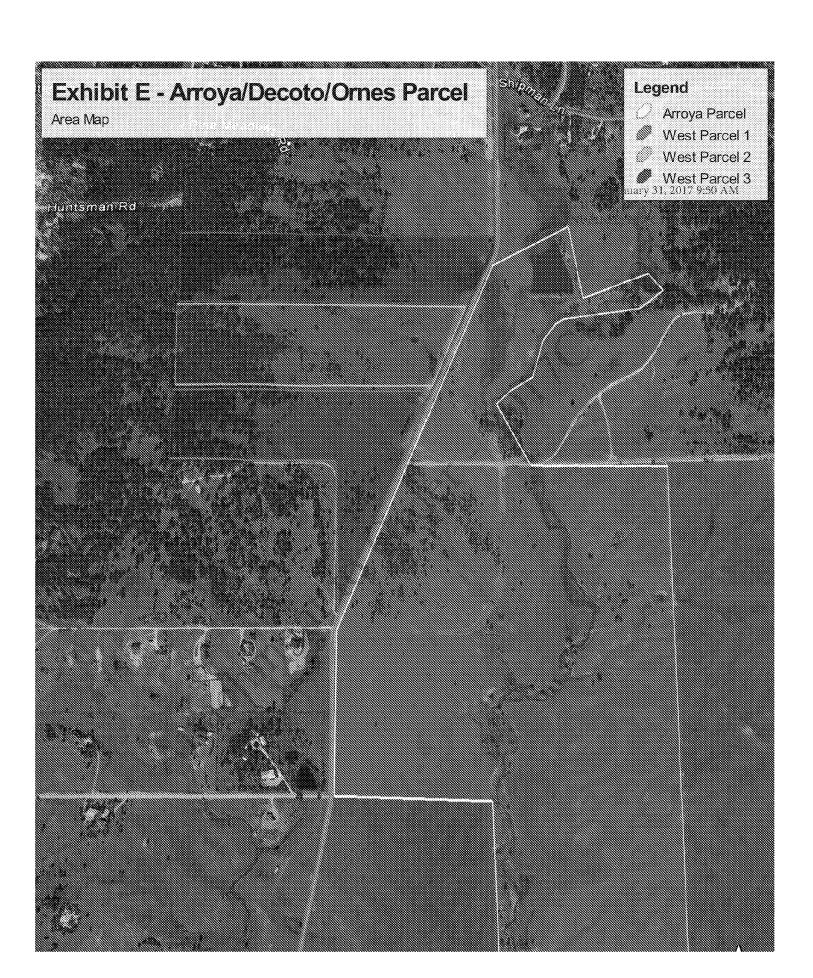
SASIS OF BEARINGS: THE WEST LINE OF THE SOUTHEAST ONE-QUARTER (SEL/A) OF SECTION 21. TOWNSHIP 12 SOUTH, RANGE 65 WEST IS ASSUMED TO SEAR NOO'25 32'W, A DISTANCE OF 2058,50 FEST.

COMMENCING AT THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER (SEL/4);
THENCE NODES 12 W ALONG THE MEST UNE OF SAID SOUTHEAST ONE-QUARTER (SEL/4), A DISTANCE OF
LISE SI TEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREN DESCRIPED;
THINCE NODES 12 W CONTRIBUTE BLONG SAID WEST UNE. A DISTANCE OF 656 30 FEET;
THENCE NORTH A DISTANCE OF 250018 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAT LINE OR
VOLUMEN ROAD AS DESCRIPED IN THE DOLUMENT RECORDED IN BOOK 2678 AT PACE 430 OF THE RECORDS. OF THE EL PASO COUNTY CLERK AND RECORDER;

DIENCE ALONG SAID WESTERLY RIGHT-OF WAY UNE THE FOLLOWING TWO (2) COUPSES: 1. SDC-3714-E, A DISTANCE OF 98-54 FEET; 2. SZI'RI'FOW, A DISTANCE OF 891-81 FEET;

THEREOF SERVOLET W. A DISTANCE OF 2384 C4 FEET TO THE HORSE OF BEGINNING

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 17.58 ACRES OF LAND. MORE OR LESS.



218092584 8/9/2018 3:54 PM PGS 12 \$68.00 DF \$0.00

Electronically Recorded Official Records El Paso County CO Chuck Broerman, Clerk and Recorder

TD1000 N

DISTRICT COURT, WATER DIVISION 2, CO

Court Address: 501 North Elizabeth Street,

Suite 116

Pueblo, CO 81003

Phone Number: (719) 404-8832

ARROYA INVESTMENTS, LLC

DATE FILED: August 9, 2018 3:38 PM

▲ COURT USE ONLY ▲

CASE NUMBER: 2018CW3002

CONCERNING THE APPLICATION FOR WATER

RIGHTS OF:

Case No.: 18CW3002 (17CW3002)

IN EL PASO COUNTY

FINDINGS OF FACT, CONCLUSIONS OF LAW, RULING OF REFEREE AND DECREE

THIS MATTER comes before the Water Referee on the Application filed by Arroya Investments, LLC, and 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

- 1. The applicant in this case is Arroya Investments, LLC, whose address is 1283 Kelly Johnson Blvd., Colorado Springs, CO 80920 ("Applicant"). Applicant is the owner of the land totaling approximately 72.5 acres (a portion of the larger 225.97-acre Arroya Parcel previously adjudicated in Case No. 17CW3002), on which the structures sought to be adjudicated herein are located, and are the owners of the place of use where the water will be put to beneficial use.
- 2. The Applicant filed this Application with the Water Court for Water Division 2 on January 9, 2018. The Application was referred to the Water Referee in Division 2 on or about January 18, 2018.
- 3. The time for filing statements of opposition to the Application expired on the last day of March 2018. No Statements of Opposition were timely filed.
- 4. On January 18, 2018, the Water Court, Division 2 ordered that publication occur in the *Daily Transcript* within El Paso County.
- 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 February 15, 2018, proof of publication in the *Daily Transcript* was filed with Water

Court Division 2. All notices of the Application have been given in the manner required by law.

- 6. Pursuant to C.R.S. §37-92-302(4), the office of the Division Engineer for Water Division 2 has filed its Consultation Report dated May 2, 2018, with the Court, and a Response to the Consultation Report was filed by the Applicant on June 26, 2018. Both the Consultation Report and Response have been considered by the Water Referee in the entry of this Ruling.
- 7. 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.
- 8. The Applicant, consistent with the decree entered in Case No. 17CW3002, seeks to utilize ground water rights granted therein for the construction of Timber Ridge Wells Nos. 1 through 29 to the Dawson aquifer, and additional or replacement wells associated therewith, for withdrawal of Applicant's full entitlements of supply under the plan for augmentation sought herein.
- 9. The land overlying the groundwater subject to the adjudication in this case is owned by the Applicant and was previously quantified in Case No. 17CW3002, which concerned a 225.97 acre parcel of land located in El Paso County, Colorado ("Arroya Parcel"). The land relevant to this decree consists of an approximately 72.5 acre portion of the larger Arroya Parcel as described in Case No. 17CW3002, located in a portion of the SE¼ of Section 21 and a portion of the SW¼ of Section 22, Township 12 South, Range 65 West of the 6th P.M., El Paso County, Colorado, as more particularly described on the attached **Exhibit A**, and depicted on the attached **Exhibit B** map ("Subject Property"). Applicant intends to subdivide the property into up to twenty-nine (29) lots of approximately 2.5 acres each. All groundwater adjudicated herein shall be withdrawn from the overlying land.
- 10. <u>Timber Ridge Wells Nos. 1 through 29</u>: Each of the Timber Ridge Wells Nos. 1 through 29 are to be constructed to the not-nontributary Dawson aquifer pursuant to the Plan for Augmentation decreed herein to provide domestic water supplies to a single family residence to be located upon the subdivided Subject Property. Upon entry of this decree and submittal by the Applicant of a complete well permit application and filing fee, the State Engineer shall issue a revised permit for Timber Ridge Wells Nos. 1 through 29 pursuant to C.R.S. §37-90-137(4), consistent with and references the Plan for Augmentation decreed herein.

PLAN FOR AUGMENTATION

11. The structures to be augmented are Timber Ridge Wells Nos. 1 through 29 in the not-nontributary Dawson aquifer underlying the Applicant's Property, along with any additional or replacement wells associated therewith.

- 12. Pursuant to C.R.S. §37-90-137(9)(c.5), the augmentation obligation for Timber Ridge Wells Nos. 1 through 29, 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 Timber Ridge Wells Nos. 1 through 29, to be pumped as set forth in this plan for augmentation. The water rights to be used for augmentation after pumping are a reserved portion of Applicant's nontributary water rights in the Laramie-Fox Hills aquifers. Applicant shall provide for the augmentation of stream depletions caused by pumping the Timber Ridge Wells Nos. 1 through 29 as approved herein. Water use criteria as follows:
- A. <u>Use</u>: The Timber Ridge Wells Nos. 1 through 29 may each pump up to 0.32 acre feet of water per year, for a maximum total of 9.32 acre feet being withdrawn from the Dawson aquifer annually. Households will utilize up to 0.26 acre feet of water per year per residence, with the additional pumping available for landscape irrigation, the watering of horses or equivalent livestock, and other beneficial uses decreed in 17CW3002 at each residence. The foregoing figures assume the use of 29 septic systems, with resulting return flows from each. Should Applicant subdivide Applicant's property into fewer than 29 lots, both depletions and return flows for the replacement of the same will be correspondingly reduced, though pumping for uses other than household use may be increased provided at all times septic return flows shall replace the maximum depletions resulting from pumping.
- B. <u>Depletions</u>: Applicant has determined that maximum stream depletions over the 300-year pumping period will amount to approximately fifty-six percent (56%) of pumping. Maximum annual depletions for total residential pumping from all wells is therefore 5.22 acre feet in year 300. Should Applicant's pumping be less than the 0.32 acre feet per lot described herein, or should fewer lots be developed, resulting depletions and required replacements will be correspondingly reduced.
- C. <u>Augmentation of Depletions During Pumping Life of Wells</u>: 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 a conservatively estimated household use rate of 0.18 acre feet per residence per year (rather than the full 0.26 acre feet annually), a total of 5.22 acre feet is replaced to the stream system per year, utilizing non-evaporative septic systems, assuming all 29 wells are utilized. With maximum depletions from the pumping of 29 wells at 0.18 acre feet, and anticipated replacement of 5.22 acre feet annually, during pumping, stream depletions will be adequately augmented.
- 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 Timber Ridge Wells Nos. 1 through 29, Applicant will reserve up to 2,796

acre feet of water from the nontributary Laramie Fox Hills aquifer, less actual stream depletions replaced during the plan pumping period as necessary to replace any injurious post pumping depletions. Applicant also reserves 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, Applicant reserves the right in the future to prove that post pumping depletions will be noninjurious. The reserved nontributary Laramie-Fox Hills groundwater will be used to replace any injurious post-pumping depletions. Upon entry of a decree in this case, the Applicant will be entitled to apply for and receive a new well permit for the Timber Ridge Wells Nos. 1 through 29 for the uses in accordance with this Application and otherwise in compliance with C.R.S. §37-90-137.

- 13. This decree, upon recording, shall constitute a covenant running with Applicant's Property, benefitting and burdening said land, and requiring construction of well(s) to the nontributary Laramie-Fox Hills aquifer 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, Applicant or its 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 Laramie-Fox Hills aquifer reserved herein may not be severed in ownership from the overlying subject 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 Applicant's Property.
- 14. Applicant or its successors shall be required to initiate pumping from the 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 Applicant or its successors in interest have acknowledged in writing that all withdrawals for beneficial use through the Timber Ridge Wells Nos. 1 through 29 have permanently ceased, (iii) a period of 10 consecutive years where either no withdrawals of groundwater has occurred, or (iv) accounting shows that return flows from the use of the water being withdrawn is insufficient to replace depletions caused by the withdrawals that already occurred.
- 15. 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; (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 Applicant's obligation hereunder to account for and replace such post-pumping stream depletions be abrogated for any reason, then

the 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.

- 16. 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 plan pumping allocated to such well or wells is not exceeded. Should the actual operation of this augmentation plan depart from the planned diversions described herein such that annual diversions are increased or the duration of the plan is extended, the Applicant 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.
- 17. Consideration has been given to the depletions from Applicant's 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 Applicant, and the existence, if any, injury to any owner of or person entitled to use water under a vested water right.
- 18. 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 Timber Ridge Wells Nos. 1 through 29. As a result of the operation of this plan for augmentation, the depletions from the Timber Ridge Wells Nos. 1 through 29 and any additional or replacement wells associated therewith will not result in material injury to the vested water rights of others.

CONCLUSIONS OF LAW

- 19. The Applicant's request for adjudication of the plan for augmentation decreed herein 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.
- 20. Subject to the terms of the 17CW3002 decree, the Applicant is entitled to the sole right to withdraw all the legally available water in the Denver Basin aquifers underlying the Applicant's Property, and the right to use that water to the exclusion of all others subject to the terms of said 17CW3002 decree.

21. The Applicant's request for approval of a plan for augmentation is contemplated and authorized by law. If administered in accordance with this decree, this plan for augmentation will permit the uninterrupted diversions from the Timber Ridge Wells Nos. 1 through 29 without adversely affecting any other vested water rights in the Arkansas River or its 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:

- 22. 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.
- 23. The Application for Adjudication of Denver Basin Groundwater and for Approval of Plan for Augmentation proposed by the Applicant is approved, subject to the terms of this decree.
- 24. The Applicant has furnished acceptable proof as to all claims and, therefore, the Application for Adjudication of Groundwater and Plan for Augmentation, as requested by the Applicant, is granted and approved in accordance with the terms and conditions of this decree. Approval of this Application will not result in any material injury to senior vested water rights.
- 25. The Applicant 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 may therefore be consumed. No plan for augmentation shall be required to provide for such relinquishment.
- 26. The State Engineer, the Division Engineer, and/or the Water Commissioner shall not curtail the diversion and use of water covered by the Timber Ridge Wells Nos. 1 through 29 so long as the return flows from the annual diversions associated with the Timber Ridge Wells Nos. 1 through 29 accrue to the stream system pursuant to the conditions contained herein. To the extent that Applicant or one of its successors or assigns is ever unable to provide the replacement water required, then the Timber Ridge Wells Nos. 1 through 29 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 as to prevent injury to vested water rights. In order for this plan for augmentation to operate, return flows from the one or both of 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.

- 27. 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, including for augmentation purposes.
- Except as otherwise specifically provided in Paragraph 28, above, pursuant to the provisions of C.R.S. §37-92-304(6), this plan for augmentation decreed herein shall be subject to the reconsideration of this Court on the guestion of material injury to vested water rights of others, for a period of five (5) 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, Applicant 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 Applicant 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.
- 29. Pursuant to C.R.S. §37-92-502(5)(a), the Applicant 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. Applicant is to install and maintain a totalizing flow meters on all Timber Ridge Wells or any additional or replacement wells associated therewith. Applicant is 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.
- 30. 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.
- 31. 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.

DATED THIS 18th day of July, 2018.

BY THE REFEREE:

Margar R. Ditmorico

Mardell R. DiDomenico, Water Referee Water Division 2

WATER DIVISION 2

DECREE

THE COURT FINDS THAT NO PROTEST WAS MADE IN THIS MATTER, THEREFOR THE FORGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

Dated: August 9th, 2018.

EXHIBIT A

LEGAL DESCRIPTION – ARROYA PARCEL

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21 AND A PORTION OF THE SOUTHWEST ONE-QUARTER OF SECTION 22, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET:

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27; THENCE S88°38'56"W ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1047.88 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S88°38'56"W CONTINUING ALONG SAID NORTH LINE, A DISTANCE OF 283.03 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27 SAID POINT ALSO BEING A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER;

THENCE ALONG THE EASTERLY AND NORTHERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

1. N00°37'14"W SAID LINE ALSO BEING THE WEST LINE OF THE SOUTHWEST ONE-QUARTER (SW1/4) OF SAID SECTION 22, A DISTANCE OF 30.00 FEET; 2. S89°40'23"W, A DISTANCE OF 736.82 FEET TO THE POINT OF INTERSECTION OF THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF SAID COUNTY RECORDS;

THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1798.07 FEET:

THENCE N59°58'50"E, A DISTANCE OF 694.83 FEET:

THENCE \$14°30'58"E, A DISTANCE OF 567.09 FEET;

THENCE N69°36'18"E, A DISTANCE OF 603.87 FEET;

THENCE S30°23'46"E, A DISTANCE OF 264.58 FEET:

THENCE S61°52'38"W, A DISTANCE OF 227.40 FEET;

THENCE S79°15'47"W, A DISTANCE OF 276.17 FEET;

THENCE S89°39'18"W, A DISTANCE OF 356.07 FEET;

THENCE S40°09'47"W, A DISTANCE OF 310.61 FEET;

THENCE S09°56'46"W, A DISTANCE OF 270.03 FEET;

THENCE S35°00'25"W, A DISTANCE OF 167.38 FEET;

THENCE S57°24'01"W, A DISTANCE OF 235.36 FEET;

THENCE \$27°23'34"E, A DISTANCE OF 611.29 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 35.08 ACRES OF LAND, MORE OR LESS.

Along With:

A PARCEL OF LAND BEING THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (SW1/4 NW1/4) OF SECTION 27, THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SECTION 27, A PORTION OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER OF SECTION 28 AND A PORTION OF THE NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4) OF SECTION 28, ALL IN TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED;

THENCE S00°54'30"E ALONG THE EAST LINE OF THE WEST ONE-HALF (W1/2) OF SAID SECTION 27, A DISTANCE OF 3925.63 FEET TO THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER NW1/4 SW1/4) OF SAID SECTION 27;

THENCE S87°35'00"W ALONG THE SOUTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1332.78 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4);

THENCE N00°53'18"W ALONG THE WEST LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1316.78 FEET TO THE NORTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-OUARTER (NW1/4 SW1/4):

THENCE S89°08'28"W ALONG THE SOUTH LINE OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4) OF SECTION 28, A DISTANCE OF 1326.68 FEET TO THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4);

THENCE N00°30'49"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4), A DISTANCE OF 1270.77 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN

BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER:

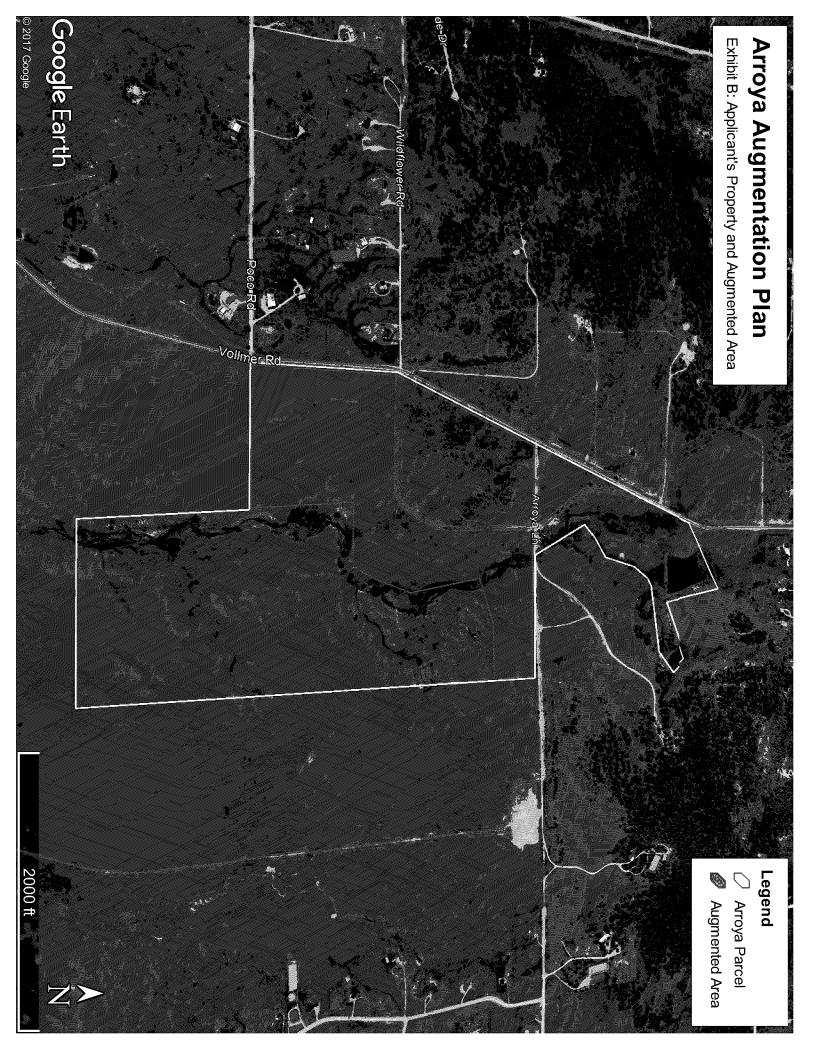
THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1450.84 FEET TO THE POINT OF INTERSECTION OF THE SOUTHERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF SAID COUNTY RECORDS;

THENCE ALONG THE SOUTHERLY AND EASTERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

1. N89°40'23"E, A DISTANCE OF 761.52 FEET TO A POINT ON THE EAST LINE OF SAID NORTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4); 2. N00°52'58"W ALONG SAID EAST LINE, A DISTANCE OF 30.00 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27;

THENCE N88°38'56"E ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1330.91 FEET TO THE POINT OF BEGINNING;

SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 190.89 ACRES OF LAND, MORE OR LESS.



DISTRICT COURT, WATER DIVISION 2, COLORADO

Court Address: 501 North Elizabeth Street,

Suite 116

Pueblo, CO 81003

Phone Number: (719) 404-8832

CONCERNING THE APPLICATION FOR WATER

RIGHTS OF:

STERLING RANCH METROPOLITAN DISTRICT

NO. 1

IN EL PASO COUNTY

DATE FILED: March 4, 2022 10:52 AM

CASE NUMBER: 2020CW3059

▲ COURT USE ONLY ▲

Case No.: 20CW3059

FINDINGS OF FACT, CONCLUSIONS OF LAW, AMENDED RULING OF REFEREE AND DECREE: ADJUDICATING DENVER BASIN GROUNDWATER, WATER STORAGE RIGHTS AND APPROVAL OF PLAN FOR AUGMENTATION

THIS MATTER comes before the Court on the Application filed by Sterling Ranch Metropolitan District No. 1, and having reviewed said Application and other pleadings on file, and being fully advised on this matter, the Court makes the following findings and orders:

GENERAL FINDINGS OF FACT

- 1. The applicant in this case is Sterling Ranch Metropolitan District No. 1, whose address is 20 Boulder Crescent, #200, Colorado Springs, Colorado 80903 ("Applicant" or "District"). The Applicant seeks the adjudication of surface water rights, groundwater rights, and approval of a plan for augmentation.
- 2. The land upon which the surface water rights adjudicated herein are located are within the District, and the District is the owner of, or controls, all Denver Basin groundwater described herein. All land is located within the District, where the water will be put to beneficial use.
- 3. The Applicant filed this Application with the Water Court for Water Division 2 on October 12, 2020, and filed an Amended Application on October 13, 2020. The Application was referred to the Water Referee Division 2 on October 12, 2020.
- 4. The time for filing statements of opposition to the Application expired on the last day of December 2020. A Statement of Opposition was timely filed by The City of Colorado Springs, acting through its enterprise, Colorado Springs Utilities, on December 28, 2020, and a Statement of Opposition was timely filed by the State Engineer and the

Division Engineer for Water Division No. 2 on December 30, 2020.

- 5. On October 21, 2020, Water Court, Division 2, ordered that publication occur in El Paso County. 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 November 19, 2020, proof of publication in *The Colorado Springs Gazette* was filed with the Division 2 Water Court. All notices of the Application have been given in the manner required by law.
- 6. On January 19, 2022, a stipulation between the Applicant and The City of Colorado Springs, acting through its enterprise, Colorado Springs Utilities was filed with the Division 2 Water Court. By Order dated January 24, 2022, the Division 2 Water Court approved such stipulation.
- 7. On November 5, 2021, a stipulation between the Applicant and the State Engineer and the Division Engineer for Water Division No. 2 was filed with the Division 2 Water Court. By Order dated November 5, 2021, the Division 2 Water Court approved such stipulation.
- 8. Pursuant to C.R.S. §37-92-302(2), the Office of the State Engineer has filed Determination of Facts for each aquifer with this Court on January 29, 2021.
- 9. As the State and Division Engineers timely filed a statement of opposition in this matter and obtained party status, no Consultation Report pursuant to C.R.S. §37-92-302(4) is necessary or required.
- 10. 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.

SURFACE WATER STORAGE RIGHTS

- 11. The Applicant seeks the adjudication of absolute surface water storage rights and the following findings are made with respect those rights:
- A. <u>Name of Structure</u>: SRMD Pond No. 1. The terms of this decree concerning SRMD Pond No. 1 abrogate and replace all uses, terms, and conditions of prior decree of this Court in Case No. W-1309 as concerns the like structure decreed therein as Dines Reservoir No. 1, with the exception of claimed appropriation date for stockwater uses.
- i. <u>Legal Description of Structure</u>: SRMD Pond No. 1 is located in the NE¼ SW¼ and the NW¼ SE¼ of Section 33, Township 12 South, Range 65 West of the 6th P.M. with the center of the embankment at a point approximately 1,450 feet from the south section line of said Section 33, and approximately 2,590 feet from the east

section line of said Section 33, in El Paso County, Colorado.

- ii. <u>Source</u>: The source for filling and re-filling of this existing onchannel structure is Sand Creek, a tributary of Fountain Creek, tributary to the Arkansas River.
- iii. <u>Date and Initiation of Appropriation</u>: This water right shall be administered with a priority date of October 13, 2020, coincident with the filing of this Application. A stock tank in this location was decreed by the Division 2 Water Court in 1973, Case No. W-1309 as Dines Reservoir No. 1. However, Applicant's uses are far more expansive than those considered in W-1309, and Applicant therefore does not claim the earlier September 24, 1962 appropriation date decreed therein, except as to stockwater uses for purposes of demonstrating in-priority storage of water in support of Applicant's absolute claim for such uses.
- iv. <u>Date Water Applied to Beneficial Use</u>: SRMD Pond No. 1 has existed since at least September 24, 1962, per the decree in W-1309.
- v. <u>Amount Claimed</u>: 12.25 acre feet, with the right to freshening flows for maintenance of recreational, wildlife, fish propagation and fire protection purposes when in priority or when augmented by the plan approved herein. Since the initial construction of SRMD Pond No. 1 in 1962, there have been a number of instances where the Arkansas River call (and Sand Creek and Fountain Creek, as tributaries thereto), has been junior to the priority date of September 24, 1962 decreed to stockwater uses for this facility in W-1309, including in 1999. Each of these circumstances of inpriority storage occurred for decreed stockwatering purposes, supporting the absolute water rights decreed herein in the amount of 12.25 acre feet for such stockwater uses. All other municipal uses, including domestic, commercial, industrial, recreation, fish propagation, wetlands, wildlife habitat, and fire protection purposes decreed herein are conditional, in the amount of 12.25 acre feet.
- vi. <u>Uses</u>: All municipal uses, including domestic, commercial, industrial, recreation, fish propagation, stockwater, wetlands, wildlife habitat, and fire protection purposes.
- vii. <u>Pond Specifications</u>: SRMD Pond No. 1 has a maximum surface area at the high-water line of approximately 2.51 acres. The maximum height of the dam is approximately 10 feet and the length of the dam is approximately 510 feet.
- viii. <u>Total Capacity of Pond</u>: Approximately 12.25 acre feet, all of which is dead storage.
- ix. <u>Place of Use</u>: All uses of water associated with SRMD Pond No. 1 shall be within the boundaries of the District.
 - B. Name of Structure: SRMD Pond No. 2. The terms of this decree

concerning SRMD Pond No. 2 abrogate and replace all the uses, terms, and conditions of prior decree of this Court in Case No. W-1309 as concerns the like structure decreed therein as Dines Reservoir No. 3, with the exception of appropriation date for stockwater uses.

- i. <u>Legal Description of Structure</u>: SRMD Pond No. 2 is located in the SE¼ SE¼ of Section 28, Township 12 South, Range 65 West of the 6th P.M. at a point approximately 115 feet from the south section line of said Section 28, and approximately 156 feet from the east section line of said Section 28, in El Paso County, Colorado.
- ii. <u>Source</u>: The source for filling and re-filling of this existing onchannel structure is Sand Creek, a tributary of Fountain Creek, tributary to the Arkansas River.
- iii. <u>Date and Initiation of Appropriation</u>: This water right shall be administered with a priority date of October 13, 2020, coincident with the filing of this Application. A stock tank in this location was decreed by the Division 2 Water Court in 1973, Case No. W-1309 as Dines Reservoir No. 3. However, Applicant's uses are far more expansive than those considered in W-1309, and Applicant therefore does not claim the earlier September 24, 1962 appropriation date decreed therein, except as to stockwater uses for purposes of demonstrating in-priority storage of water in support of Applicant's absolute claim for such uses.
- iv. <u>Date Water Applied to Beneficial Use</u>: The pond has existed since at least October 4, 1962, per the decree in W-1309.
- v. <u>Amount Claimed</u>: 4.29 acre feet, with the right freshening flows for maintenance of recreational, wildlife, fish propagation and fire protection purposes when in priority or when augmented by the plan approved herein. Since the initial construction of SRMD Pond No. 1 in 1962, there have been a number of instances where the Arkansas River call (and Sand Creek and Fountain Creek, as tributaries thereto), has been junior to the priority date of September 24, 1962 decreed to stockwater uses for this facility in W-1309, including in 1999. Each of these circumstances in-priority storage occurred for decreed stockwatering purposes, supporting the absolute water rights decreed herein in the amount of 4.29 acre feet for such stockwater uses. All other municipal uses, including domestic, commercial, industrial, recreation, fish propagation, wetlands, wildlife habitat, and fire protection purposes decreed herein are conditional, in the amount of 4.29 acre feed acre feet.
- vi. <u>Uses</u>: All municipal uses, domestic, commercial, industrial, recreation, fish propagation, stockwater, wetlands, wildlife habitat, and fire protection purposes.
- vii. <u>Pond Specifications</u>: SRMD Pond No. 2 has a maximum surface area at the high-water line of approximately 1.30 acres. The maximum height of

the dam is approximately 10 feet and the length of the dam is approximately 155 feet.

- viii. <u>Total Capacity of Pond</u>: Approximately 4.29 acre feet, all of which is dead storage.
- ix. <u>Place of Use</u>: All uses of water associated with SRMD Pond No. 2 will be within the boundaries of the District.
- The Court finds the absolute surface water storage rights decreed herein have been fully developed and the Applicant has utilized the water rights in-priority for stock-watering beneficial uses, as requested in the application. The Court further finds that the Applicant has completed all of the elements for the appropriation of the absolute water right, as to such stockwater uses, including: (a) formation of the intent to appropriate water; (b) performance of overt acts coincidental with this intent to manifest the intention to appropriate water to beneficial use and to demonstrate the taking of a substantial step toward applying water to beneficial use; (c) these acts were of such a nature as to provide interested third parties with notice of the nature and extent of the proposed diversion and the consequent demand upon the river system water to beneficial use; and as to the absolute water rights for stockwater purposes, (d) unappropriated waters have been diverted and have been applied to the beneficial use set forth herein. Applicant's documented in-priority fill and beneficial use of water stored within SRMD Pond Nos. 1 and 2 for stock-watering purposes is sufficient for creation of an absolute water right. The appropriation dates of the conditional water rights decreed herein establishes such water rights' relative priority among all other water rights or conditional water rights awarded on applications filed in Water Division 2 in the original years of filing for such conditional water rights, but such conditional water right shall be junior to all water rights and conditional water rights awarded on applications filed in previous calendar years.

GROUNDWATER RIGHTS

- 13. The Applicant requested quantification and adjudication of underground Denver Basin water rights, including as associated with an existing well with Permit No. 26947-F, as constructed to the Denver aquifer, and for an undetermined quantity of additional or replacement wells to one or more of the Denver Basin aquifers, as quantified herein, for withdrawal of Applicant's full entitlement of water supplies underlying the SR Quarry Parcel, as more particularly described on the attached **Exhibit A** and depicted on the **Exhibit B1** map, pursuant to the plan for augmentation decreed herein. Applicant also sought, and this Court decrees that, to the extent wells or well fields constructed on nearby property owned or controlled by Applicant and its affiliates have or are legally interpreted to have contiguity, Applicant shall have the right to withdraw all groundwater entitlements quantified herein from such contiguous wells and be considered a well field. The following findings are made with respect to such groundwater rights:
- 14. The land overlying the groundwater subject to the adjudication in this case is owned by the Applicant and consists of approximately 97.54 acres located in the S½ SW¼ and the SW¼ SE¼ in Township 12 South, Range 65 West of the 6th P.M., El Paso

County, Colorado, described as the SR Quarry Parcel, and depicted on the attached **Exhibit B1** map ("SR Quarry Parcel"). All groundwater adjudicated herein shall be withdrawn from the overlying land, or from a contiguous parcel owned or controlled by the Applicant and its affiliates.

- 15. In accordance with the notice requirements of C.R.S. §37-92-302, lienholders of the SR Quarry Parcel were sent a Letter of Notice dated November 30, 2020. A Certificate of Notice was filed with the District Court, Water Division 2, on December 22, 2020.
- 16. Existing and Future Wells. All wells will be located on the SR Quarry Parcel, and/or on contiguous parcels thereto. There is an existing well on the property permitted and constructed under Well Permit No. 26947-F constructed to the Denver aquifer. Applicant is awarded the vested right to use the existing well and future wells, along with any necessary additional or replacement wells associated with such structures, for the extraction and use of groundwater from the not-nontributary Denver and Arapahoe aquifers pursuant to the Plan for Augmentation decreed herein. Upon entry of this decree and submittal by the Applicant of a complete well permit application and filing fee, the State Engineer shall issue a revised permit for the existing well, and new permits for any future well pursuant to C.R.S. §37-90-137(4), consistent with and referencing the Plan for Augmentation decreed herein.
- 17. Of the statutorily described Denver Basin aquifers, the Dawson, Denver, Arapahoe, and Laramie-Fox Hills aquifers all exist beneath the SR Quarry Parcel. The Dawson, Denver, and Arapahoe aquifers underlying the SR Quarry Parcel contain not-nontributary water, while the water of the Laramie-Fox Hills aquifer underlying the SR Quarry Parcel is nontributary. The quantity of water in the Denver Basin aquifers exclusive of artificial recharge underlying the SR Quarry Parcel is as follows:

| AQUIFER | NET SAND (ft) | Annual Average Withdrawal 100 Years (Acre Feet) | Annual Average Withdrawal 300 Years (Acre Feet) | Total Withdrawal (Acre Feet) |
|------------------------|---------------------|---|---|------------------------------------|
| Dawson (NNT) | 50 | 9.75 | 3.25 | 975 |
| Denver (NNT) | 300 | 45.56 ^{1,2} | 15.19 ² | 4,556 ² |
| Arapahoe (NNT) | 260 | 43.11 | 14.37 | 4,311 |
| Laramie-Fox Hills (NT) | 190 | 27.8 | 9.27 | 2,780 |

Consistent with the State Engineer's Determination of Facts, this entire amount requires the existing well with Permit No. 26947-F to be re-permitted upon entry of this decree, as anticipated. If the well is not re-permitted, the average annual amount shall be reduced to 0 acre-feet.

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Applicant's consultants have estimated the maximum uses of the well with existing Permit No. 26947-F since it was first placed to beneficial use in 1989 as 13.1 acre feet annually, though it is highly unlikely that such maximum pumping actually occurred in each of the past 32 years. Nonetheless, Applicant has conservatively estimated that a total of 419 acre feet has been pumped thereby, and therefore the quantity of water claimed in the Denver aquifer in this decree has been reduced by such amounts.

- the 18. Pursuant to C.R.S. §37-90-137(9)(c.5)(I)(B), augmentation requirements for wells in the Dawson aquifer underlying the SR Quarry Parcel requires the replacement to the affected stream systems of actual stream depletions on an annual Pursuant to C.R.S. §37-90-137(9)(c.5)(I)(C), the water of the Denver and Arapahoe aquifers underlying the SR Quarry Parcel, which are located greater than 1 mile from any point of contact between a natural stream, requires replacement to the affected stream system of four percent (4%) of the amount of the water withdrawn from those aguifers on an annual basis. The Applicant shall not be entitled to construct a well or use water from the not-nontributary Dawson, Denver, or Arapahoe aquifers except pursuant to an approved augmentation plan in accordance with C.R.S. §37-90-137(9)(c.5), including as decreed herein as concerns the Denver and Arapahoe aguifers.
- 19. Subject to the augmentation requirements described in Paragraph 18 and the other requirements and limitations in this decree, Applicant shall be entitled to withdraw all legally available groundwater in the Denver Basin aquifers underlying the SR Quarry Parcel. Said amounts can be withdrawn over the 100-year life for the aquifers as set forth in C.R.S. §37-90-137(4), or withdrawn over a longer period of time based upon local governmental regulations or Applicant's water needs provided withdrawals during such longer period are in compliance with the augmentation requirements of this decree. This decree is based upon a pumping period of 300-years as required by El Paso County, Colorado Land Development Code §8.4.7(C)(1). The average annual amounts of groundwater available for withdrawal from the underlying Denver Basin aquifers, based upon a 300-year aquifer life, are determined and set forth above, based upon the January 29, 2021 Office of the State Engineer Determination of Facts described in Paragraph 8.
- 20. Applicant shall be entitled to withdraw an amount of groundwater in excess of the average annual amount decreed herein from the Denver Basin aquifers underlying the SR Quarry Parcel for a 300-year aquifer life, so long as the sum of the total withdrawals from wells in each of the aquifers does not exceed the product of the number of years since the date of entry of the decree herein, and the average annual volume of water which Applicant is entitled to withdraw from each of the aquifers underlying the SR Quarry Parcel, subject to the requirement that such banking and excess withdrawals do not violate the terms and conditions of the plan for augmentation decreed herein and any other plan for augmentation decreed by the Court that authorizes withdrawal of the Denver Basin groundwater adjudicated and decreed herein.
- 21. Subject to the terms and conditions of the plan for augmentation decreed herein and final approval by the State Engineer's Office pursuant to the issuance of well permits in accordance with C.R.S. §§37-90-137(4) or 37-90-137(10), the Applicant shall have the right to use the groundwater for beneficial municipal uses including, without limitation, domestic, commercial, industrial, irrigation of any irrigable acreage within the District boundaries or District service area, stock water, recreation, fish and wildlife propagation, fire protection, central water supply for such uses and also for exchange, aquifer recharge, replacement, and augmentation purposes. The amount of groundwater decreed for such uses is reasonable as such uses are to be made for the long-term use

and enjoyment of those served by Applicant and is to establish and provide for adequate water reserves. The nontributary groundwater in the Laramie-Fox Hills aquifer underlying the SR Quarry Parcel may be used, reused, and successively used to extinction, both on and off the SR Quarry Parcel subject, however, to the requirement under C.R.S. §37-90-137(9)(b) that no more than 98% of the amount withdrawn annually shall be consumed. Applicant may use such water by immediate application or by storage and subsequent application to the beneficial uses and purposes stated herein. Provided, however, as set forth above, Applicant shall only be entitled to construct a well or use water from the not-nontributary Dawson, Denver, and Arapahoe aquifers pursuant to a decreed augmentation plan entered by the Court, including that plan for augmentation decreed herein concerning the Denver and Arapahoe aquifers.

22. Withdrawals of groundwater available from the nontributary Laramie-Fox Hills aquifer beneath the SR Quarry Parcel in the amount determined in accordance with the provisions of this decree will not result in injury to any other vested water rights or to any other owners or users of water.

PLAN FOR AUGMENTATION

- 23. The structures to be augmented are the existing and future wells as constructed and to be constructed to the not-nontributary Denver and Arapahoe aquifers within the boundaries of the District or contiguous thereto and available to the District and the decree entered in Case No. 08CW113, as well as out-of-priority storage and evaporative depletions associated with the SRMD Pond Nos. 1 and 2.
- 24. Applicant is hereby decreed a plan for augmentation for out-of-priority depletions associated with the SRMD Pond Nos. 1 and 2, and for the withdrawal of notnontributary Denver Basin groundwater rights in the Denver and Arapahoe aguifers, respectively, underlying property owned and controlled by the Applicant and affiliates Sterling Ranch Metropolitan District Nos. 2 and 3 as previously decreed in Case No. 08CW113, and underlying the SR Quarry Parcel as decreed herein, to support development of land served by the District, more particularly described on the attached Exhibit A, and depicted on the attached Exhibit B1 and B2 maps. During the pumping life of wells to the Denver and Arapahoe aguifers described above, it is anticipated that any out-of-priority depletions will be replaced by Lawn Irrigation Return Flows ("LIRFs") resulting from the irrigation of approximately 48 acres of parks and common areas, supplemented by pumping of decreed nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aguifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing Applicant shall utilize a portion of the nontributary Denver Basin SRMD wells. groundwater underlying property outside of the District ("Bar X Parcel") as decreed in Case No. 93CW18 and 93CW19 by the Division 1 Water Court, which amended prior Case No. 85CW445, for replacement of any injurious post-pumping depletions.
- 25. SRMD Pond Nos. 1 and 2, with a total maximum surface area of 3.81 acres, have been calculated by Applicant's consultants to result in maximum annual evaporative

losses of 10.58 acre feet assuming such ponds are maintained at full stage, resulting in a like depletion to Sand Creek, a tributary of Fountain Creek, tributary to the Arkansas River. As described below, Applicant will replace this 10.58 acre foot annual depletion through dedicated LIRFs accruing to Sand Creek in the vicinity of the District, as depicted on the Exhibit B2 Map, or by pumping of the decreed nontributary supplies decreed in Case Nos. 86CW19 and 08CW113, including from existing SRMD wells. Applicant asserts, and this Court accepts as reasonable, that the SRMD Pond Nos. 1 and 2 were filled in priority in 1999, and have been maintained at full stage since such in-priority fill. Should the SRMD Pond Nos. 1 and 2 be fully or partially drained at any point in the future and thus require partial or complete refill, and should such re-fill be unavailable in priority, Applicant shall augment any such out-of-priority storage and refill of SRMD Pond Nos. 1 and 2 utilizing reusable LIRF credits accruing to Sand Creek and in excess of those required to replace depletions from the pumping of the not-nontributary wells described herein, and in excess of those required to replace evaporative depletions (including from less than full-stage storage), or by pumping of decreed nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aguifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells up to a maximum of 16.54 acre feet, being the total combined capacity of both SRMD Pond Nos. 1 and 2.

26. The not-nontributary Denver Basin groundwater underlying the property owned by the District and its affiliates that is available for withdrawal in accordance with this plan for augmentation was previously adjudicated and quantified by the Division 2 Water Court in Case No. 08CW113 as follows:

| Aquifer | Annual Average Withdrawal (Acre-Feet) ³ |
|----------------|---|
| Denver (NNT) | 242.97 |
| Arapahoe (NNT) | 0.20 |

As quantified and determined herein, the SR Quarry Parcel has the following additional not-nontributary groundwater that is available for withdrawal in accordance plan for augmentation:

| Aquifer | Annual Average Withdrawal (Acre-Feet) ² |
|--------------|---|
| Denver (NNT) | 15.19 |

This represents the annually estimated available quantity of water for a 300-year pumping life, as required by El Paso County Land Development Code.

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Depletions from the pumping of the not-nontributary Denver and Arapahoe aquifer water described above are equal to 4% of pumping, a maximum of 10.91 annual acre feet.

27. All existing exempt permitted wells to the Denver and Arapahoe aguifers, if any, shall be either repermitted as augmented structures under the plan for augmentation decreed herein, or abandoned, consistent with the rules and regulations of the State and Division Engineers. Applicant is hereby granted pursuant to the terms and conditions of the augmentation plan decreed herein, the right to withdraw all quantities of not-nontributary Denver Basin groundwater in the Denver and Arapahoe aquifers underlying the SR Quarry Parcel, and underlying the District and its affiliates as described above, through existing, additional or replacement wells located on the subject properties or upon contiguous properties, consistent with Rule 11.A. of the Statewide Nontributary Ground Water Rules, provided Applicant first acquires such interests in the overlying land as may be necessary for construction, maintenance and operation of any such wells, and infrastructure related thereto. Applicant expressly may withdraw the not-nontributary groundwater underlying the SR Quarry Parcel from any and all wells, both existing and as may in the future be developed, available to Applicant on said parcel or other contiguous properties upon which the District has wells and infrastructure to each of the Denver and Arapahoe aguifers, respectively.

28. Water Rights to be Used for Augmentation.

A. <u>Depletions During Pumping.</u> During the pumping life of the not-nontributary wells described herein, any out-of-priority depletions caused by the pumping of the wells, as well as evaporative depletions from the SRMD Pond Nos. 1 and 2 described herein and located on-channel on Sand Creek with total surface area of approximately 3.81 acres, will be augmented by LIRFs unless and until such a time as the District has reusable treated effluent credits available in proper time, place and amount, and unless such LIRFs are insufficient to fully replace actual out-of-priority depletions. Maximum pumping of the not-nontributary aquifers described herein, in combination, shall be 272.73 acre feet over the pumping life of the wells. If at any time LIRFs prove insufficient to replace out-of-priority depletions, Applicant shall utilize decreed nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aquifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells. Applicant's LIRFs will accrue to Sand Creek as a result of irrigation uses throughout the District. Maximum evaporative depletions from SRMD Pond Nos. 1 and 2 are 10.58 acre feet annually, and

maximum depletions from the pumping of the not-nontributary Denver and Arapahoe aquifer wells within the District are 4% of pumping, or 10.91 annual acre feet, for total approximate annual depletions of 21.49 acre feet that are to be replaced under the plan for augmentation decreed herein, plus any out-of-priority storage within SRMD Pond Nos. 1 and 2, as described in Paragraph 25, above. As described in Paragraph 30, below, LIRFs resulting from irrigation within the District's service area will result in up to 27.45 annual acre feet of reusable return flow credits to Sand Creek, though Applicant will be limited to 17.65 annual acre feet of LIRF credits for such augmentation uses unless and until Applicant is awarded a right to additional LIRF credits utilizing the process identified in Paragraph 30, below.

B. <u>Post Pumping Depletions.</u> The water rights to be used for augmentation of any injurious post-pumping depletions occurring after the anticipated 300-year pumping life of the wells resulting from the pumping of the not-nontributary groundwater described in this plan for augmentation are a portion of the nontributary Denver Basin groundwater rights underlying the Bar X Parcel, as decreed in Case Nos. 93CW18 and 93CW19 by the Division 1 Water Court, which amended prior Case No. 85CW445 as owned and controlled by the District:

| Aquifer | Total Allocation (AF) |
|---------------------------|-----------------------|
| Denver (NT) | 136,000 |
| Arapahoe (NT) | 81,300 |
| Laramie-Fox Hills (NT) | 42,700 |
| BAR X TOTAL: | 260,000 |

Maximum post-pumping depletions resulting from the pumping of the not-nontributary Denver and Arapahoe aquifers underlying the lands owned and controlled by the District and its affiliates, including the SR Quarry Parcel, as described herein, should not exceed 258.13 annual acre-feet from the not-nontributary Denver Aquifer, and 14.60 annual acre-feet from the not-nontributary Arapahoe aquifer over 300-years of pumping, a total of 272.73 annual acre feet in combination. To replace any injurious post-pumping depletions Applicant shall dedicate 82,167 acre-feet, equivalent to an average of 272.73 acre feet annually based on 300-years of pumping, from the nontributary Denver aguifer underlying the Bar X Parcel, owned or controlled by SRMD and its affiliates, less the amount of actual stream depletions replaced hereunder during the plan pumping period. Applicant's consultant estimates that a total of 1,978.12 acre-feet of lawn irrigation return flows will replace stream depletions over the 300-year pumping period. The total 82,167 acre feet of reserved post-pumping replacement water, less the amount of actual stream depletions replaced during the plan pumping period, will be sufficient to replace all calculated injurious post-pumping depletions. Applicant's dedication and reservation of up to 82,167 acre feet annually of nontributary Denver aguifer groundwater, being a portion of the Bar X water previously adjudicated in Case No. 93CW18, will provide this maximum post-pumping augmentation supply. The total reserved nontributary groundwater supply, less the amount of actual stream depletions replaced during the plan pumping period, is sufficient to replace all estimated injurious post-pumping depletions.

Applicant's consultants have calculated, and the Court accepts such calculations as reasonable, that net evaporative depletions of the combined maximum surface areas of the SRMD Ponds Nos. 1 and 2, being approximately 3.81 surface acres, will be 46.5 inches. The equations upon which Applicant's consultants have relied upon for calculating evaporative depletions and out-of-priority storage, are more particularly described in Paragraph 29.A., below. Therefore, the SRMD Ponds Nos. 1 and 2 will have combined evaporative depletions of approximately 10.58 annual acre-feet. Evaporative depletions resulting from the SRMD Ponds Nos. 1 and 2 will be augmented by: (1) excess LIRF credits, or (2) pumping from the nontributary Arapahoe and/or Laramie-Fox Hills aquifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells, as described above.

A. Depletion/Evaporation Formulas:

i. Gross Evaporation at the SRMD Ponds No. 1 and No. 2 = 46.5 inches (per NOAA Plate No. 33 in Colorado)

ii. Monthly Gross Evaporation = (46.5"/12) * (Monthly Evap. Percentage)

iii. Monthly Evaporation Percentage Table from Colorado Division of Water Resources:

| Month | Percentage Percentage |
|-----------|-----------------------|
| January | 1.0% |
| February | 3.0 % |
| March | 6.0 % |
| April | 9.0 % |
| May | 12.5 % |
| June | 15.5 % |
| July | 16.0 % |
| August | 13.0 % |
| September | 11.0 % |
| October | 7.5 % |
| November | 4.0 % |
| December | 1.5 % |

iv. Monthly Gross Precipitation (inches) = Black Forest WNW Weather Station No. 6

v. Monthly Effective Precipitation (feet) = (Monthly Gross Precipitation) * 70 % / 12

- vi. Net Monthly Pond Evaporation = ((Monthly Gross Evap.) * (Monthly %)) (Effective Precipitation)
- vii. Monthly Total Lake Evaporation = (Monthly Net Lake Evaporation) * (Total Surface Area of Ponds) (Note: Total Surface Area of ponds are assumed to be full at 3.81 Acres)
- B. <u>Out-of-Priority Storage:</u> The method to accurately obtain monthly out-of-priority storage volumes for the two ponds is as follows:
- i. Stage capacity curves for ponds, as constructed, are attached to this Decree collectively as **Exhibit D**.
- ii. Prior to storage of water and administration of the augmentation plan decreed herein, a staff gauge shall be installed in each of the ponds with increments sufficient to monument the staff gauge to the stage capacity curves described in **Exhibit D**.
- iii. Using the daily accounting summary for Case No. 20CW3059 daily readings of the SRMD Pond No. 1 and No. 2 staff gauges can be recorded with associated pond volumes documented in Acre-Feet to determine out-of-priority storage. Any positive differences in the pond storage can be documented in the daily data entry form as out-of-priority storage that must be augmented hereunder.
- C. <u>LIRF Credits.</u> LIRF credits resulting from irrigation of parks and common areas throughout the District, anticipated to be approximately 48 acres, are anticipated to be available in excess of that required for augmentation of the not-nontributary Denver and Arapahoe aquifer wells described herein, as further described in Paragraph 30, below. Applicant shall likewise utilize such LIRF credits to offset and augment all or part of the estimated 10.58 annual acre feet of evaporative depletions associated with SRMD Pond Nos. 1 and 2, supplemented with nontributary water supplies from the Arapahoe and/or Laramie-Fox Hills aquifers underlying the District and its affiliates, as decreed to Applicant's use in Case Nos. 86CW18, 86CW19 and 08CW113, including from existing SRMD wells, as described below.
- D. <u>Nontributary Groundwater</u>. In the alternative, and at all times when LIRF credits are insufficient to offset and augment the out-of-priority depletions described herein, including until such time as Applicant has constructed all of the approximately 48 acres of irrigated parks and common areas from which LIRF credits will ultimately accrue, Applicant shall pump to the stream such quantities of nontributary groundwater as necessary to fully augment evaporative depletions associated with SRMD Pond Nos. 1 and 2, estimated to be a maximum of 10.58 annual acre feet, not otherwise augmented through excess LIRF credits. The nontributary Laramie-Fox Hills aquifer underlying approximately 1,410 acres of the District was quantified in Case No. 86CW19 by the Division 2 Water Court, while the nontributary Laramie-Fox Hills aquifer underlying the

remaining 41.44 acres of the District was quantified in Case No. 08CW113, Water Division 2. Nontributary groundwater in the Arapahoe aquifer was primarily quantified in Case No. 86CW18, Water Division 1, with a 4 acre-foot portion quantified in Case No. 08CW113, Water Division 2. Such adjudications provide for the combined annual withdrawals of nontributary groundwater well in excess of any depletions created through the use and maintenance of SRMD Pond Nos. 1 and 2, and such groundwater was previously adjudicated for all municipal uses, expressly including augmentation. Such groundwater will be pumped to Sand Creek in times and volumes necessary to prevent injury to other vested water rights users, at or above the point on Sand Creek depicted on the **Exhibit B2** Map. Prior to operation of the augmentation plan decreed herein, Applicant shall design and install infrastructure sufficient to allow Applicant, as contemplated in paragraph 30(L) herein, to deliver non-tributary Denver Basin Groundwater to Sand Creek at a point at or above the point depicted on Exhibit B2.

- 30. Quantification of Reusable LIRFs. Water use within the District's boundaries will include use for outdoor purposes, including irrigation of lawns, landscaping, open space, medians, and similar (*i.e.* parks and common areas). A portion of the water used for outdoor purposes, being reusable LIRFs, will return to the Sand Creek stream system unconsumed, and is therefore available to replace evaporative and well pumping depletions from the structures described herein. The District's consultants conducted a study of anticipated water uses within the District using water use data, climate data, anticipated irrigated acreages, irrigation requirements, and projected tree canopy areas in order to determine total annual LIRFs as a percentage of total annual outdoor water use. The location, amount, and timing of reusable LIRFs available for use by the District from outdoor water use shall be determined using the procedures described in this Paragraph 30.
- As a baseline, the LIRFs available for use as an augmentation supply for purposes of this decree will be a minimum of 15% of the total amount of water applied for irrigation of parks and common areas within the District's current and future boundaries, which will accrue to Sand Creek, tributary to Fountain Creek, tributary to the Arkansas River, estimated at an average of 17.65 acre feet annually. Applicant shall not be entitled to claim greater than 15% of the total amount of water applied for irrigation of common areas and parks within the District as LIRF credits without first complying with all provisions of this Paragraph 30. The approximate location at or upstream of which all such LIRFs are anticipated to accrue is shown on the attached Exhibit B2 map. However, the District's consultants' analysis determined that actual re-usable LIRFs are estimated to be an average of 26.14% of the total amount of water applied to outdoor use, with resulting return flows of 27.45 acre feet annually. The actual re-usable LIRFs will therefore amount to between 15% and 26.14% of total outdoor irrigation uses, based upon the relationship between deep percolation (expressed as a fraction of the amount of water applied) and the amount of water applied (expressed as a fraction of the potential consumptive use of lawn grass), referenced as the "Cottonwood Curve". and the methodology referred to as the "Cottonwood Methodology", first approved in Case No. 81CW142 in Water Division 1. The District has calculated the timing of the deep percolation portion of such reusable LIRFs to the Sand Creek stream system using the

Glover bounded alluvial aquifer equation. Applicant's consultants have estimated based upon zoning and land use plans developed by the District's landscape architects and approved by El Paso County, that approximately 48 acres of parks and common areas will be irrigated throughout the District, resulting in LIRFs calculated at approximately 17.65 to 27.45 acre feet annually, based on the percentages described above, and this Court determines this estimate to be reasonable. With maximum annual depletions from pumping of not-nontributary aquifers estimated at 10.91 acre feet (4% of a maximum of 272.73 annual acre feet of pumping), and evaporative depletions of the SRMD Ponds estimated at a maximum of 10.58 acre feet, for a total of 21.49 annual acre feet to be augmented, LIRFs available after construction and irrigation of approximately 48 acres of parks and common area may sufficiently augment evaporative depletions from the SRMD Ponds and well depletions during pumping, with any shortfall in LIRF supply being supplemented with pumping from the nontributary aquifers located within the District in an amount sufficient to replace any remaining depletions. To determine a final LIRF percentage upon buildout of areas upon which outdoor uses will be made (i.e. construction of the approximately 48 acres of parks and common areas from which LIRFs will accrue, and application of metered irrigation water supplies thereto), should the District wish to claim the minimum 15%, or a greater amount of reusable LIRFs, the District shall utilize the following procedures:

- B. Total outdoor water use shall be determined on a monthly basis for the months of April through October of each year as the total amount of metered monthly deliveries to the parks and common areas. Prior to Utilizing LIRFs as an augmentation source, Applicant shall install meters capable of recording the amount of irrigation water provided to each park and/or common area from which LIRFs will accrue.
- C. Reusable subsurface LIRFs from outdoor water use shall be preliminarily calculated as 15% of the total metered irrigation use for that month. The location of accretions to Sand Creek is the point where LIRFs are deemed to accrue to Sand Creek, as depicted on **Exhibit B2**.
- D. The timing of accretion of such subsurface LIRFs to the alluvium has been determined by Applicant's consultants to be within 30 days, in light of local conditions and the proximity of irrigation to Sand Creek and its alluvium.
- E. Prior to taking any credits for LIRFs in percentages greater than the baseline percentage of 15%, the District shall install a series of piezometers in consultation with the State Engineer's Office and complete a piezometer study, in order to document the presence, depth and calculated baseline quantities of the groundwater table, and verify the direction of groundwater flow.
- F. To assure that the LIRFs are actually returning to the Sand Creek stream system, in order to take credits for LIRFs in percentages greater than the baseline percentage of 15%, the District shall demonstrate through piezometer measurements the existence of a water table with a hydraulic gradient toward the Sand Creek stream system, including its associated alluvium.

- G. To document the quantity of LIRFs accruing to Sand Creek the District shall demonstrate through piezometer observations and measurements the increase in groundwater quantities resulting from LIRFs, and provide the State and Division Engineers, and any opposers in this matter requesting the same, an engineering analysis of such increased groundwater quantities, and calculation of the resulting appropriate LIRF percentage in an amount greater than the baseline 15%.
- H. The following additional provisions shall apply to the piezometer study described above, necessary for the District to take credit for LIRFs in percentages greater than the baseline 15%:
- i. The exact location of piezometers shall be determined by field observation jointly with the District's consultants and State Engineer staff and, prior to constructing any piezometers, the District shall notify the Division of Water Resources of the date and location when construction will occur to allow for observation, if desired. The contemplated location of piezometers is depicted on the attached **Exhibit B2**.
- ii. The piezometer boreholes shall be logged under the supervision of a professional geologist or professional engineer and shall be sampled at not less than 5-foot intervals using a split-barrel sampler using the Standard Penetration Test, ASTM D1586. Written borehole logs shall be prepared that describe the subsurface materials at not less than 5-foot intervals, including a description of grain sizes and induration of sediments encountered during piezometer borehole construction.
- iii. The total depth of unconsolidated materials overlying bedrock shall be identified for each piezometer borehole log. The top of bedrock shall be defined as the depth at which geologic materials are consolidated, or when the Standard Penetration Test results in a blow count greater than 29 blows to advance the split-barrel sampler the last 1 foot of the 1.5-foot Standard Penetration Test interval, whichever is shallower.
- iv. Piezometer construction shall comply with the Colorado Water Well Construction Rules and shall consist of 2-inch PVC pipe with suitable perforations in the pipe and with a hole drilled in the bottom cap, and shall extend through the entire saturated thickness of the materials. The bottom of the piezometer shall be installed at the depth at which bedrock is encountered.
- v. The elevation of the surface at, and the location of, each piezometer shall be determined by survey, and following piezometer construction, the depth to water shall be measured in the piezometers and reported to the Division of Water Resources and, upon request, to any other objector hereto. Piezometers shall be monitored and read on a monthly basis for a minimum period of 12 consecutive months (or longer, in the District's discretion), beginning upon the installation of the piezometer or the first measurement of a water table, and the piezometer water level shall be recorded in a monthly table of groundwater elevation and depth to groundwater.

- vi. <u>Piezometer Report</u>. The District shall develop a report prepared by a professional geologist or professional engineer that presents all of the following information:
 - a. Location of each piezometer;
- b. Borehole log and Standard Penetration Test for each piezometer location;
- c. Monthly water level measured in each piezometer for twelve (12) consecutive months;
 - d. Average water level elevation in each piezometer;
- e. Map of average piezometer groundwater level elevation that demonstrates a groundwater gradient towards Sand Creek and its tributaries.
- vii. Acceptance of Piezometer Report. piezometer measurements for a continuous period of 12 months (or longer, in the District's discretion) demonstrate increases in the water table resulting from LIRFs in excess of the baseline 15% authorized by this decree, the District shall serve its Piezometer Report to the Division of Water Resources and the Opposers, to demonstrate that an increase in the percentage of re-usable LIRFs is appropriate. The Opposers will have 63 days from the date of service to provide written comments concerning the Piezometer Report to the District and the Division of Water Resources. Applicant must obtain the Division of Water Resources' approval of the Piezometer Report prior to claiming augmentation credit for LIRFs that is greater than the 15% credit approved herein. The Division of Water Resources shall review said Piezometer Report and the Opposers' comments thereto and within 63 days of receipt of said comments, the Division of Water Resources shall (a) Reject the findings of the Piezometer Report and not allow any increase in LIRF credits; (b) Accept the findings of the Piezometer Report and approve the increase in LIRF credit percentage requested therein by the District; or (c) Accept a portion of the findings of the Piezometer Report while rejecting others and recommending an alternative increase in LIRF credit percentages. Either Applicant or Opposers may appeal any such decision by the Division of Water Resources to this Court under the Court's retained jurisdiction as described in Paragraphs 57 and 58, below, and any such appealing party shall have the burden of proof in such an appeal. Applicant shall have the initial burden of proof that the requested increase in percentage of LIRFs credit will not result in injury to other water users. Following acceptance of the Piezometer Report by the Division of Water Resources or the Court under its retained jurisdiction, in whole or in part, increased LIRF credits may be taken by the District.

viii. The District shall have the right to decide if and when to install each of the said piezometers, but the District shall receive no increased credit for LIRFs

in the Sand Creek basin until the piezometers are installed and the Division of Water Resources has approved any increase in the LIRF credit percentage based upon the Piezometer Report described above.

- I. The timing of accrual of LIRFs to the Sand Creek stream system was determined by the District using the Glover equation, using representative aquifer hydraulic characteristics and centroidal distances to live flow in the respective creeks, and the alluvial boundaries for each drainage basin. Such analysis determined that LIRFs will accrue to the alluvium of Sand Creek within 30 days. The timing of accrual of LIRFs is such that the LIRFS will accrue in the month following irrigation water application.
- J. The LIRFs available to the District under this Decree may be used, reused, and successively used by the District for the same decreed purposes as the reusable water which generates such LIRFs, including, but not limited to, use as a replacement source for the plan for augmentation decreed herein.
- K. LIRF credits in excess of the District's augmentation obligations will remain in the stream, but the District does not waive and expressly reserves its right to claim and use any excess LIRF credits in a subsequent plan for augmentation upon approval by this Court. To the extent LIRF credits are insufficient in any month to replace depletions resulting from not-nontributary well pumping, evaporation, and out-of-priority storage, the District shall during such month, and on a schedule acceptable to the Division Engineer, pump sufficient quantities of nontributary Denver Basin groundwater to Sand Creek at a point at or above the point depicted on **Exhibit B2**. In order to document the amount of monthly nontributary Denver Basin pumping required to augment any alluvial depletions measured to be in excess of available LIRF's, if any, depletions will be tracked on a daily basis in Applicant's accounting, an example of which is provided in **Exhibit C**, and augmented monthly as reported to the Water Commissioner. Depletions will be tracked in the accounting sheet as follows:
 - 1) Daily Total Depletion to Alluvium
 2) Daily Estimated LIRF Volume (Credits to Alluvium)
 3) Daily Obligations to Alluvium
 4) Daily Excess Credits to Alluvium

 = Column AR
 Column AT
 Column AT
 Column AU

At the end of each month, if augmentation obligations are in excess of LIRF credits calculated to be available, the District shall pump nontributary groundwater at or above the point depicted on **Exhibit B2**. If there are excess LIRF credits, such LIRF Credits can be carried over for augmentation purposes only for a period of one month as tracked in column AW of the Exhibit C accounting.

31. Other Supplies of Augmentation Water of Limited Duration. Pursuant to C.R.S. §37-92-305(8), the Court may authorize the District to use additional or alternative sources of augmentation water for replacement in this augmentation plan, including water leased by the District, if such sources are part of a substitute water supply plan approved pursuant to C.R.S. §37-92-308, or an interruptible supply agreement approved under C.R.S. §37-92-309, or other applicable and/or successor statutes, or if such sources are

decreed for such use. In order to add these sources to this plan for augmentation, the procedures in Paragraphs 31.A. and 31.B. must be followed. These procedures are adequate to prevent injury to other water rights that might otherwise result from the addition of these sources to this plan.

- Additional Water Rights Separately Decreed or Lawfully Available for Α. Augmentation Use. If a water right is decreed or lawfully available for augmentation use and not already approved for such use under this Decree, the District shall give at least 63 days advance written notice of use of the water right for augmentation to the Court, the Division Engineer, and all the objectors herein which shall describe: 1) the water right by name and decree, if any; 2) the annual and monthly amount of water available to SRMD from the water right; 3) the manner by which the water will be used to replace outof-priority depletions associated with this plan for augmentation; 4) the date of initial use of the water in this plan for augmentation; 5) the duration of use of the water in this plan for augmentation; 6) identification of any applicable exchanges, including the exchange reach, if the water is to be introduced downstream of the out-of-priority depletion; 7) if an exchange is required for the water to be used, proposed terms and conditions relative to the exchange operation; 8) the location or locations at which the water will be delivered to the stream; 9) evidence that the claimed amount of water is available for use in this plan for augmentation and is not and will not be used by any other person; and, 10) the manner in which the District will account for use of the augmentation credits. Said notice shall specifically include a request that the Court enter an Order either affirming or denying the District's proposal, and that said Order be attached to this Decree.
- i. <u>Objection to Use of New Source</u>. If any person wishes to object to the addition of the noticed water rights to this plan for augmentation, a written objection shall be filed with the court within 63 days after the date the Notice was given by the District. If no objection is so filed, the Court shall promptly enter an Order affirming the District's immediate use of the noticed water rights. If an objection is so filed, then the District may not use the noticed water rights until the Court has determined whether and under what terms and conditions the water rights may be used in this plan.
- ii. <u>Hearing on Use of New Source</u>. Where an objection has been filed to the use of a noticed water right in this plan for augmentation, the Court shall promptly schedule a hearing to determine whether and under what terms and conditions the water right may be used in this plan for augmentation. The Court shall conduct whatever proceedings are needed to appropriately address and resolve the disputed issues. At such hearing, the Court shall impose such terms and conditions as necessary to prevent injury to vested water rights and decreed conditional water rights. If the Notice requested temporary use of the noticed water rights in this plan for augmentation for a period not to exceed one year, then the Court shall grant an expedited hearing.
- iii. <u>New Sources Requiring Operation of Exchange</u>. Where the use of a noticed water right in this plan for augmentation requires the operation of any new exchange(s), the District must obtain approval of the Division Engineer and Water Commissioner prior to operating such exchanges. The District must submit a separate

Water Court application if seeking to adjudicate any such exchange(s).

- B. Additional Water rights Temporary Administrative Approval. If a water right is not decreed or otherwise lawfully available for augmentation use, and Colorado Statutes or other governing authority provides a mechanism for using such water right without the need of a decree, the District shall provide written notice to the objectors herein of its request for approval of the State Engineer pursuant to C.R.S. §37-92-308, or C.R.S. §37-92-309, or any other applicable statute or rule. Such notice shall be in addition to any notice required by any applicable statute or rule. The District may use such water rights in this plan for augmentation upon the State Engineer's approval of the underlying administrative application for the term of any such approval, unless such approval is reversed or modified on appeal or under the retained jurisdiction provisions of this Case No. 20CW3059.
- 32. Applicant may substitute other legally available augmentation sources for replacement of any such injurious post-pumping depletions under this Court's retained jurisdiction, as described in Paragraph 31, above. Applicant claims that post-pumping depletions will be noninjurious and need not be replaced to prevent injury, though this Court makes no such finding by this decree. Applicant has reserved the right in the future to prove that said post-pumping depletions will be noninjurious under the Court's retained jurisdiction pursuant to paragraph 58.
- 33. Applicant shall replace post-pumping depletions for the shortest of the following: (a) the period provided by C.R.S. §37-90-137(9)(c); (b) the express period specified by the Colorado Legislature, should it specify one; (c) the period determined by the State Engineer, should he choose to set such a period and have jurisdiction to do so; (d) the period established through rulings of the Colorado Supreme Court on relevant cases, or (e) until Applicant petitions the Water Court, and after notice to parties in the case and the State Engineer's Office, proves that it has complied with any statutory requirement.
- 34. If operated pursuant to the terms and conditions set forth herein, the plan for augmentation decreed herein will allow Applicant to provide for the augmentation of any injurious out-of-priority stream depletions which may be caused by the pumping of the not-nontributary Denver and Arapahoe aquifer groundwater underlying the Sterling Ranch Metropolitan District Nos. 2 and 3, the SR Quarry Parcel, and out-of-priority storage and evaporative depletions from the SRMD Ponds Nos. 1 and 2. Applicant shall utilize the not-nontributary Denver Basin groundwater in the Denver and Arapahoe aguifers underlying the SRMD Metropolitan District Nos. 2 and 3 and the SR Quarry Parcel for municipal uses throughout the District's municipal service area, as currently exists or as may exist in the future, expressly including augmentation purposes. Applicant shall replace any out-of-priority depletions resulting from the SRMD Ponds Nos. 1 and 2, and the Applicant's use of the not-nontributary Denver Basin ground water described in paragraph 28 above during the pumping life of the wells through LIRFs accruing to Sand Creek, or by pumping of the decreed nontributary supplies decreed in Case Nos. 86CW19 and 08CW113, including from existing SRMD wells, and any injurious post-pumping or

evaporative depletions through the dedication of nontributary Denver Basin groundwater supplies and excess LIRFs. Applicant has reserved sufficient nontributary Denver Basin groundwater supplies for replacement of any injurious post-pumping depletions.

- 35. <u>Curtailment.</u> Applicant's plan for augmentation, as decreed herein, is sufficient to permit the pumping of not-nontributary supplies in the Denver and Arapahoe aquifers underlying the District as described herein, including the SR Quarry Parcel, and the evaporative depletions from the SRMD Ponds Nos. 1 and 2, to the extent the District complies with all the terms and conditions of this decree including, but not limited to, providing the necessary replacement water as required by this decree. Pursuant to C.R.S. §37-92-305(8), the State Engineer shall curtail all out-of-priority diversions, the depletions from which are not so replaced to prevent injury to vested water rights.
- 36. <u>Terms and Conditions</u>. This Court finds that there will be no material injury to the owners or users of water diverted under vested water rights or conditional water rights as a result of operation of the plan for augmentation, so long as there is compliance with and proper administration of the protective terms and conditions herein.
- A. <u>Lawn Irrigation Return Flow Credits.</u> The lawn irrigation return flows from the District's use of nontributary and not-nontributary groundwater rights, after meeting replacement requirements, shall only be used as an augmentation source in the instant plan for augmentation. All such return flow credits not utilized in the instant plan for augmentation shall, subject to the terms of a future decree, be available for the District's use and re-use, including for sale or lease to other parties.
- B. The reserved nontributary Denver Basin groundwater rights are adequate for replacement of all anticipated post-pumping depletions resulting from the groundwater withdrawals from the not-nontributary Denver and Arapahoe aguifers underlying the District as described herein, including the SR Quarry Parcel, and the evaporative depletions from the SRMD Ponds Nos. 1 and 2, augmented under this plan for augmentation. The District shall initiate pumping of said nontributary Denver Basin groundwater, or provision of any alternative augmentation supply as may be decreed by the Court, for the replacement of any out-of-priority post-pumping depletions upon cessation of withdrawals from the Denver and Arapahoe aguifers as augmented herein. "Cessation of Withdrawals" occurs when (1) the total volume of water available from the Denver and Arapahoe aguifers allowed to be withdrawn under the plan for augmentation decreed herein has been withdrawn; (2) the District has acknowledged in writing that all withdrawals from such aguifers have ceased permanently; (3) no withdrawals of groundwater have been made from the subject aquifers for a period of ten (10) consecutive calendar years; or (4) accounting shows that the augmentation sources described in Paragraph 28.B, above, are insufficient to replace depletions caused by withdrawals that have already occurred, and Applicant has not provided supplemental or additional augmentation supplies to remedy such insufficiency. Nothing herein shall preclude the District or its successors from resuming withdrawals from such notnontributary aguifers after cessation of withdrawals as defined above has occurred. If pumping is resumed, then the District's augmentation requirements for such wells shall

be determined in accordance with Paragraph 28.B of this Decree, and its post-pumping augmentation obligation shall be determined as if no cessation of withdrawals had occurred.

- C. A copy of the Decree shall be recorded in the records of the Clerk and Recorder for El Paso County, Colorado, and shall constitute a covenant running with the land, requiring Applicant and its successors in interest to be bound by the terms, conditions, and requirements of this Decree and the plan for augmentation herein, including the requirement to construct and pump well(s) to the nontributary aquifers identified herein or take such other measures as necessary to replace any injurious post-pumping depletions upon Cessation of Withdrawals. Failure of Applicant or its successors in interest to comply with such requirements of this Decree may result in enforcement actions from the State Engineer's Office including curtailment or elimination of pumping from the not-nontributary aquifers. The covenant represented by this Decree when so recorded shall be amended as necessary to conform to the provisions of any amendment to this plan for augmentation which may occur
- While the adjudications of the Denver Basin groundwater to be utilized in this plan for augmentation anticipate an aquifer life of 300 years for each Denver Basin aquifer, the length of this plan for augmentation may be shorter than, or extend beyond, such time period provided the total pumping allocated to any augmented well or wells is not exceeded. Should the actual operation of this augmentation plan depart from the planned diversions described in this decree such that the plan may be extended beyond the anticipated 300-year aquifer life, Applicant may be required to develop a revised model of stream depletions caused by the actual pumping schedule by the State or Division Engineer. Any such revised model analysis shall utilize depletion modelling acceptable to the State Engineer, and shall represent the water use under the plan for the entire term of the plan to date. The analysis shall further demonstrate that return flows have equaled or exceeded actual stream depletions to date throughout the pumping periods and that reserved nontributary water remains sufficient to replace post-pumping and evaporative depletions. If such revised modeling is required by the State and Division Engineers, the District shall serve the revised model on the Opposers and they shall have 63 days from service of the revised model and analysis to provide the Division Engineer with comments, concerns or objections regarding the revised model. The Division Engineer shall have 70 days from the receipt of the opposers comments on the revised model and analysis to consider the analysis and Opposers comments thereto, and to approve or disapprove the extension of the term of the plan, or to suggest terms and conditions appropriate to such an approval. Either Applicant or Opposers may appeal any such decision by the Division Engineer to this Court under the Court's retained jurisdiction as described in Paragraphs 57 and 58, below, and any such appealing party shall have the burden of proof in such an appeal. Applicant shall have the initial burden of proof that the extension of the term of the plan for augmentation will not result in injury to other water users.
- 37. Consideration has been given to the depletions from Applicant's 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 Applicant, and the existence, if any, of injury to any owner of or person entitled to use water under a vested water right.

38. It is determined that the timing, quantity and location of replacement water under the terms and conditions of this decree are sufficient to protect the vested rights of other water users and eliminate 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 such replacement water shall be accepted by the senior appropriators in substitution for water derived by the exercise of their decreed rights pursuant to CRS § 37-92-305(5) . The depletions from the wells withdrawing not-nontributary water underlying the SR Quarry Parcel, and any additional or replacement wells associated therewith, and the evaporation from the SRMD Ponds Nos. 1 and 2 will not result in injury to the vested water rights of others.

CONCLUSIONS OF LAW

- 39. Based upon and fully incorporating herein the Findings of Fact set forth above as though fully set forth herein, this Court concludes as a matter of law that:
- 40. Applicant's request for adjudication of the Denver Basin groundwater underlying the SR Quarry Parcel is contemplated and authorized by law, and this Court and the Water Referee have exclusive jurisdiction over these proceedings. §§ 37-92-302(1)(a), 37-92-203, and 37-92-305, C.R.S.
- 41. Subject to the terms and conditions of this decree, the Applicant is entitled to the sole right to withdraw all the legally available water in the Denver Basin aquifers underlying the parcels and property described herein, and the right to use that water to the exclusion of all others subject to the terms of this decree.
- 42. The Applicant has complied with C.R.S. §37-90-137(4), and the Laramie-Fox Hills groundwater underlying the SR Quarry Parcel is legally available for withdrawal, and the not-nontributary Dawson, Denver, and Arapahoe aquifer groundwater underlying the SR Quarry Parcel is legally available for withdrawal upon the entry of a decree approving an augmentation plan pursuant to C.R.S. §37-90-137(9)(c.5), and such a plan for augmentation is decreed herein as concerns the not-nontributary Denver and Arapahoe aquifer groundwater. Applicant is entitled to a decree from this Court confirming its rights to withdraw groundwater pursuant to §37-90-137(4), C.R.S.
- 43. The Denver Basin water rights described herein 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. The claims for nontributary and not-nontributary groundwater meet the requirements of Colorado Law.
- 44. The confirmation, determination and quantification of the nontributary and not-nontributary groundwater rights in the Denver Basin aquifers as set forth herein is

contemplated and authorized by law. C.R.S. §§37-90-137, and 37-92-302 through 37-92-305.

- 45. <u>Satisfaction of Burdens of Proof.</u> Applicant has complied with all requirements and satisfied all standards and burdens of proof including, but not limited to, C.R.S. §§37-92-302 through 305, excepting sections 305(3.5) and 305(3.6) which are inapplicable hereto, as amended. Applicant is entitled to a decree confirming and approving the quantification of Denver Basin groundwater, and the plan for augmentation decreed herein, which will not injuriously affect the owners of or persons entitled to use water under vested water rights or decreed conditional water rights as long as the plan for augmentation is operated and administered in accordance with the terms and conditions herein.
- 46. The augmentation plan decreed herein is one contemplated by law. If implemented in accordance with the terms and conditions of this decree, the plan will permit the use of water without material injury to the vested or conditionally decreed water rights of others.
- 47. The Court is required to retain jurisdiction in a decree approving an augmentation plan on the question of injury to vested or conditional water rights. C.R.S. §37-92-304(6). Such jurisdiction is retained and described in detail at Paragraph 57, below.

IT IS THEREFORE ORDERED, ADJUDGED AND DECREED AS FOLLOWS:

- 48. 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.
- 49. The Application for Surface Water Storage Rights, Adjudication of Denver Basin Groundwater and for Approval of Plan for Augmentation filed by the Applicant is approved, subject to the terms of this decree.
- 50. The Applicant will 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 underlying the SR Quarry Parcel adjudicated herein. Ninety eight percent (98%) of the nontributary groundwater withdrawn may therefore be consumed. No plan for augmentation is or shall be required to provide for such relinquishment.
- 51. The operation of the District's augmentation plan as decreed herein provides for the replacement of all injurious out-of-priority depletions which may result from withdrawals of not-nontributary groundwater from the Denver and Arapahoe aquifers underlying the District, including the SR Quarry Parcel, and out-of-priority storage and evaporative depletions from the use and operation of the SRMD Ponds Nos. 1 and 2, as described herein, augmented during pumping through dedication of lawn irrigation return flows, or pumping of nontributary groundwater decreed in Case Nos. 86CW18, 86CW19

and 08CW113, or additional sources approved in accordance with the terms of this decree, and augmented post-pumping through dedication and pumping of the nontributary Denver Basin groundwater rights decreed in Case No. 93CW18, as more particularly described in Paragraph 28.B, herein. The terms and conditions of this decree are adequate to assure that no injury to any water users will result from operation of this plan for augmentation. The Court approves this plan subject to the terms and conditions contained in this decree.

- 52. The replacement and augmentation supplies that the District will use for operation of the plan for augmentation decreed herein are of a quality and quantity so as to meet the requirements for which the water of senior appropriators has normally been used.
- 53. The State and Division Engineers and the Water Commissioner shall administer this augmentation plan in accordance with the terms and conditions contained in this decree. So long as the District operates the SRMD Ponds Nos. 1 and 2, and its wells to the not-nontributary Denver and Arapahoe aquifers in accordance with this decree, this augmentation plan can be operated without adversely affecting the owners or users of vested water rights or decreed conditional water rights on Sand Creek or its tributaries. So long as water is used in conformance with the requirements of this decree, there will be no injurious effects to the vested or decreed conditional water rights of others related to the amount or timing of water availability.
- The State Engineer, the Division Engineer, and/or the Water Commissioner shall not curtail the diversion and use of water covered by the plan for augmentation decreed herein, so long as the lawn irrigation return flows necessary for augmentation during the pumping life of the not-nontributary Denver and Arapahoe aguifers described herein continue to accrue to the stream system pursuant to the conditions contained herein or the Applicant utilizes the nontributary water available to it under Case Nos. 86CW18, 86CW19 and 08CW113 to replace depletions. To the extent that Applicant or its successors or assigns is unable to provide the replacement water required, then the wells and ponds shall not be entitled to continue 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 as to prevent injury to vested water rights. In order for this plan for augmentation to operate, LIRFs must at all times during pumping be in an amount sufficient to replace the amount of stream depletions. The State Engineer shall issue well permits in accordance with C.R.S. §37-90-137(4) and/or (10) and consistent with the terms and conditions of this Decree. All such wells constructed by Applicant pursuant to the augmentation plan decreed herein shall be geophysically logged consistent with applicable rules and regulations of the State and Division Engineers.
- 55. Applicant shall install such metering and measuring devices as may be reasonably required by the State and Division Engineers to ensure proper measurement and accounting of all withdrawals and pumping.

- Accounting. The District has demonstrated an appropriate method of 56. accounting for diversions and stream depletions associated with the operation of this plan for augmentation. The District's accounting under this decree shall include the following information: (1) the daily volume of water pumped from each not-nontributary Denver and Arapahoe aquifer well; (2) the daily amount of water used for irrigation within the District and from which LIRFs are claimed, (3) the weekly out-of-priority stream depletions from prior weeks' pumping and from the current week's pumping; (4) the source and amount of the replacement sources used for augmentation in this plan, which shall be accounted for daily and reported monthly; and (5) the amount of any additional or alternative augmentation supplies allowed under Paragraph 29, which shall be accounted for daily, balanced weekly, and reported monthly. Unless specifically indicated by this decree, all accounting records required by this decree shall be filed with the State Engineer and Division Engineer on a monthly basis. An example of the District's current accounting forms, in which the accounting required by this plan for augmentation will be integrated, is attached as Exhibit C. Such Accounting forms are included as an example only and are not decreed herein. The Applicant's current accounting forms are adequate to account for the water rights and augmentation plan under this decree; however, said forms are not decreed herein and may be changed from time to time so long as the information required by this decree is included in the forms. Applicant shall serve the Opposers and the Division Engineer with any modified accounting forms. The Opposers will have 63 days thereafter to provide written comments concerning the modified accounting forms to Applicant and the Division Engineer. Applicant must obtain the Division Engineer's approval of the modified accounting forms prior to their use. Upon the Division Engineer's approval of the modified accounting forms, Applicant shall file the approved modified accounting forms with the Court, with service on the opposers herein. Applicant shall make its accounting available to the Water Commissioner and to any party who requests it, providing a summary of withdrawals, return flows, depletions, and augmentation releases associated with the District's operation of the augmentation plan approved herein. The daily accounting and all backup and supporting information and documents shall also be provided to any objector making a written request for said accounting for the accounting year, upon payment of reasonable costs. The accounting shall be delivered to the Division Engineer and Water Commissioner in the manner they prescribe and may be delivered to other objectors in paper or electronic format at the District's option.
- 57. Retained Jurisdiction. Pursuant to the provisions of C.R.S. §37-92-304(6), this plan for augmentation decreed herein shall be subject to the reconsideration of this Court on the question of material injury to vested water rights of others, for a period of five years after Applicant fully utilizes the LIRFs as an augmentation supply, as evidenced by the District's provision of written notice to Opposers herein that all parks and common areas anticipated to result in LIRF credits have been developed and constructed, and the District is irrigating such parks and common areas with approved water sources allowing such LIRF credits to be claimed. 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 the factual basis for the relief requested in the petition, 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 the facts alleged in the petition. If the Court finds those facts are established, Applicant shall thereupon have the burden of proof to show: (a) that the petitioner is not injured, or (b) that any modification sought by the petitioner is not required to avoid injury to the petitioner, or (c) that any term or condition proposed by Applicant in response to the petition does avoid injury to the petitioner. The Division of Water Resources as a petitioner shall be entitled to assert injury to the vested water rights of others. If no such petition is filed within such period and the retained jurisdiction period is not extended by the Court in accordance with the revisions of the statute, this matter shall become final under its own terms. The Court also retains continuing jurisdiction for the purpose of determining whether the continued reservation of the nontributary Denver Basin water rights in the Denver, Arapahoe, and Laramie-Fox Hills aquifers, more particularly described in Paragraph 28.B., above, for augmentation use hereunder is required and retained jurisdiction for such purpose shall be perpetual. After notice to all objectors, if Applicant can demonstrate to the Court that post-pumping depletions need no longer be replaced and/or are non-injurious, the Court may remove the requirement that the nontributary groundwater must continue to be reserved.

- 58. 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. The Court further retains jurisdiction should the Applicant 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 28.B. The Court's retained jurisdiction may be invoked using the process set forth in Paragraph 57.
- 59. Pursuant to C.R.S. §37-92-502(5)(a), the Applicant shall install and maintain such water measurement devices and recording devices as are deemed necessary by the State Engineer or Division Engineers, and the same shall be installed and operated in accordance with instructions from said entities. Applicant is to install and maintain a totalizing flow meter on each well, or any additional or replacement wells associated therewith and are required to include geophysical logging on each well. Applicant shall read and record their well meter readings on April 1st and November 1st of each year and shall submit their meter readings to the Water Commissioner by April 15th and November 15th of each year or more frequently as requested by the Water Commissioner.
- 60. In compliance with Local Water Court Rule 9, the owner of a conditional water right shall:

- A. Upon the sale or transfer of a conditional water right, the transferee shall file with the Water court a notice of transfer which shall state:
 - 1. The title and case number of the case in which the conditional decree was issued;
 - 2. The description of the conditional water right transferred;
 - 3. The name of the transferor:
 - 4. The name and mailing address of the transferee; and
 - 5. A copy of the recorded deed.
- B. The transferor of any conditional water rights shall notify the clerk of the water court having jurisdiction of any change in mailing address.
- C. The clerk shall place any notice of transfer or change of address in the case file in which the conditional decree was entered and in the case file in which the court first made a finding of reasonable diligence.
- 61. As to the conditional water rights, pursuant to C.R.S. §37-92-301(4)(a), the Applicant shall, every sixth year after the calendar year in which this conditional water right was decreed or subsequent diligence decreed or issued, if it desires to maintain the same, file an application for a finding of reasonable diligence or these conditional water rights shall be considered abandoned. Applicant shall, during the month of March, and the year of 2028, file an application for a finding of reasonable diligence herein, unless Applicant has, prior to that time, made application to make absolute the conditional water rights guaranteed herein.
- 62. 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.

DATED: March 2, 2022.

BY THE REFEREE:

Kate Brewer, Water Referee

Water Division 2

DECREE

THE COURT FINDS THAT NO PROTEST WAS MADE IN THIS MATTER, THEREFOR THE FORGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE

THE JUDGMENT AND DECREE OF THIS COURT.

Dated: March 4, 2022

Honorable Larry C. Schwartz Water Judge, Water Division 2 State of Colorado

EXHIBIT A - Legal Descriptions

Sterling Ranch Metropolitan District Nos. 1, 2 and 3 DATE FILED: January 24, 2022 11:58 AM

The W1/2 W1/2 E1/2 and the E1/2 W1/2 and the SW1f4 SW1/4 of Section 27; the E1/2 SE1/4 and that portion of the SW1/4 SE1/4 lying South and East of the County Road across said premises, both in Section 28; that portion of the SE1/4 SE1/4 of Section 32 lying South and East of said County Road, that portion of the NE1/4 SE1# of said Section 32, lying South and East of said County Road, and that portion of the SE1/4 SW1/4 SE1/4 of Section 32 beginning at the SE comer of the SE1/4 SW1/4 SE1/4, then northerly along the east line of the SE1/4 SW1/4 SE1/4 a distance of 495 feet to a point on Vollmer Road, then southwesterly along Vollmer Road 660 feet to a point on the south line, then easterly 495 feet to the point of beginning; the E1/2 and the E1/2 SW1/4 and the SW1/4 SW1# of Section 33, and all that part of the NW1/4 of said Section 33 lying South and East of the said County Road across said premises, except that portion of the SW1/4 NW1/4 of said Section 33 lying South and East of said County Road containing approximately 10 acres deeded to Colorado Interstate Gas Company by Warranty Deed recorded in Book 1173 at Page 359 of the El Paso County Records; and the W1/2 E1/2 and the W1/2 of Section 34, all in Township 12 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado. The NW1/4 of the NW1/4 of Section 4, Township 13 South, Range 65 West of the 6th P.M., located in El Paso County, Colorado.

Bar X Land

A parcel of land located in Township 11 South, Range 65 West of the 6th Principal Meridian, El Paso County, Colorado, and more particularly described as follows:

All of Section 16; the E1/2 of the SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 of the W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21.

SR Quarry Land

A TRACT OF LAND IN THE SOUTHWEST ONE-QUARTER AND THE SOUTHWEST ONE-QUARTER OF THE SOUTHEAST ONE-QUARTER OF SECTION 32, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, IN EL PASO COUNTY, COLORADO, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 32; THENCE N89°23'57"E ALONG THE SOUTH LINE OF SECTION 32, 30.00 FEET TO POINT ON THE EASTERLY LINE OF BLACK FOREST ROAD, ACCORDING TO THE RESOLUTION ADOPTED BY THE BOARD OF COMMISSIONERS OF EL PASO COUNTY RECORDED IN ROAD BOOK A AT PAGE 78, WHICH POINT IS THE POINT OF BEGINNING; THENCE N00°02'19"W ALONG SAID EASTERLY LINE, 125.50 FEET TO A POINT ON THE SOUTH LINE OF THAT TRACT OF LAND DESCRIBED IN BOOK 3859 AT PAGE 151; THENCE ALONG THE BOUNDARY OF SAID TRACT FOR THE FOLLOWING FOUR (4) COURSES; (1) THENCE N89°23'57"E, 25.20 FEET; (2) THENCE N42°32'21"E, 664.79 FEET; (3) THENCE N01°44'16"W, 403.43 FEET; (4) THENCE N87°25'38"W, 463.51 FEET TO A POINT ON SAID EASTERLY LINE OF BLACK FOREST ROAD; THENCE N00°02'19"E ALONG SAID EASTERLY LINE, 124.08 FEET; THENCE N89°27'58"E, 2607.50 FEET; THENCE N00°00'40"W ALONG THE NORTH-SOUTH CENTERLINE OF SECTION 32, 152.93 FEET TO THE SOUTHWEST CORNER OF HOLIDAY HILLS NO. 1, ACCORDING TO THE PLAT RECORDED IN PLAT BOOK E2 AT PAGE 12; THENCE N89°31'30"E ALONG THE SOUTH LINE OF SAID HOLIDAY HILLS NO. 1, 1260.38 FEET; THENCE S00°33'58"E ALONG THE WESTERLY LINE OF GLIDER PORT ROAD, AS DEDICATED IN SAID HOLIDAY HILLS NO. 1, 741.29 FEET; THENCE \$37°18'25"W ALONG THE NORTHWESTERLY LINE OF VOLLMER ROAD, 721.56 FEET; THENCE S89°23'57"W ALONG THE SOUTH LINE OF SECTION 32, 3437.29 FEET TO THE POINT OF BEGINNING, COUNTY OF EL PASO, STATE OF COLORADO

Retreat Land

A PARCEL OF LAND LOCATED IN A PORTION OF THE SOUTHEAST ONE-QUARTER (SE1/4) OF SECTION 21 AND A PORTION OF THE SOUTHWEST ONE-QUARTER OF SECTION 22, TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27; THENCE S88°38'56"W ALONG THE NORTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4), A DISTANCE OF 1047.88 FEET TO THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED; THENCE S88°38'56"W CONTINUING ALONG SAID NORTH LINE, A DISTANCE OF 283.03 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27 SAID POINT ALSO BEING A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER; THENCE ALONG THE EASTERLY AND NORTHERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES:

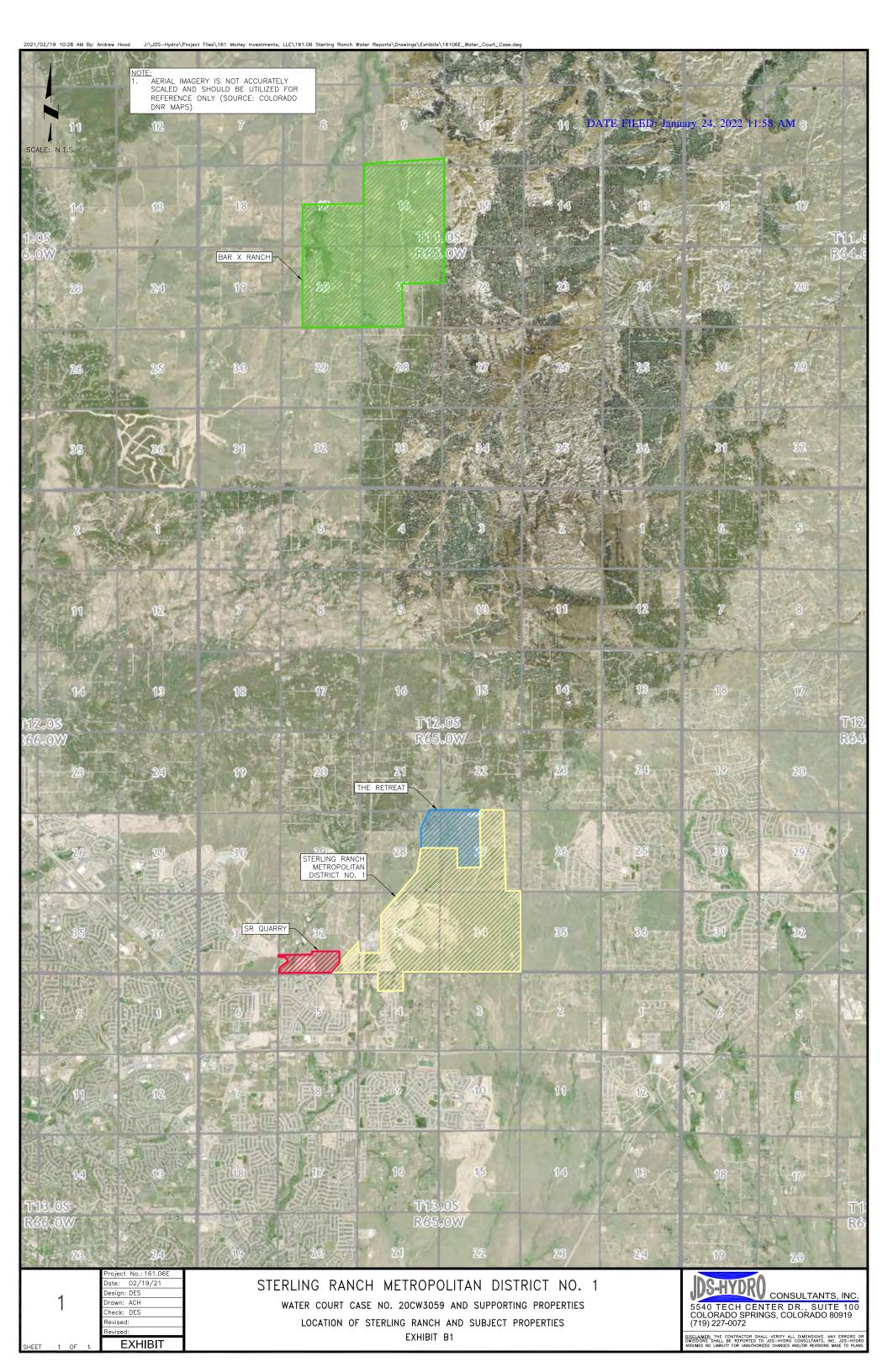
1.N00°37'14"W SAID LINE ALSO BEING THE WEST LINE OF THE SOUTHWEST ONE-QUARTER (SW1/4) OF SAID SECTION 22, A DISTANCE OF 30.00 FEET; 2.S89°40'23"W, A DISTANCE OF 736.82 FEET TO THE POINT OF INTERSECTION OF THEEASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF SAID COUNTY RECORDS; THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1798.07 FEET; THENCE N59°58'50"E, A DISTANCE OF 694.83 FEET; THENCE S14°30'58"E, A DISTANCE OF 567.09 FEET; THENCE N69°36'18"E, A DISTANCE OF 603.87 FEET; THENCE S30°23'46"E, A DISTANCE OF 264.58 FEET; THENCE S61°52'38"W, A DISTANCE OF 227.40 FEET; THENCE S79°15'47"W, A DISTANCE OF 276.17 FEET; THENCE S89°39'18"W, A DISTANCE OF 356.07 FEET; THENCE S40°09'47"W, A DISTANCE OF 310.61 FEET; THENCE S09°56'46"W, A DISTANCE OF 270.03 FEET; THENCE S35°00'25"W, A DISTANCE OF 167.38 FEET; THENCE S57°24'01"W, A DISTANCE OF 235.36 FEET; THENCE S27°23'34"E, A DISTANCE OF 611.29 FEET TO THE POINT OF BEGINNING; SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 35.08 ACRES OF LAND, MORE OR LESS.

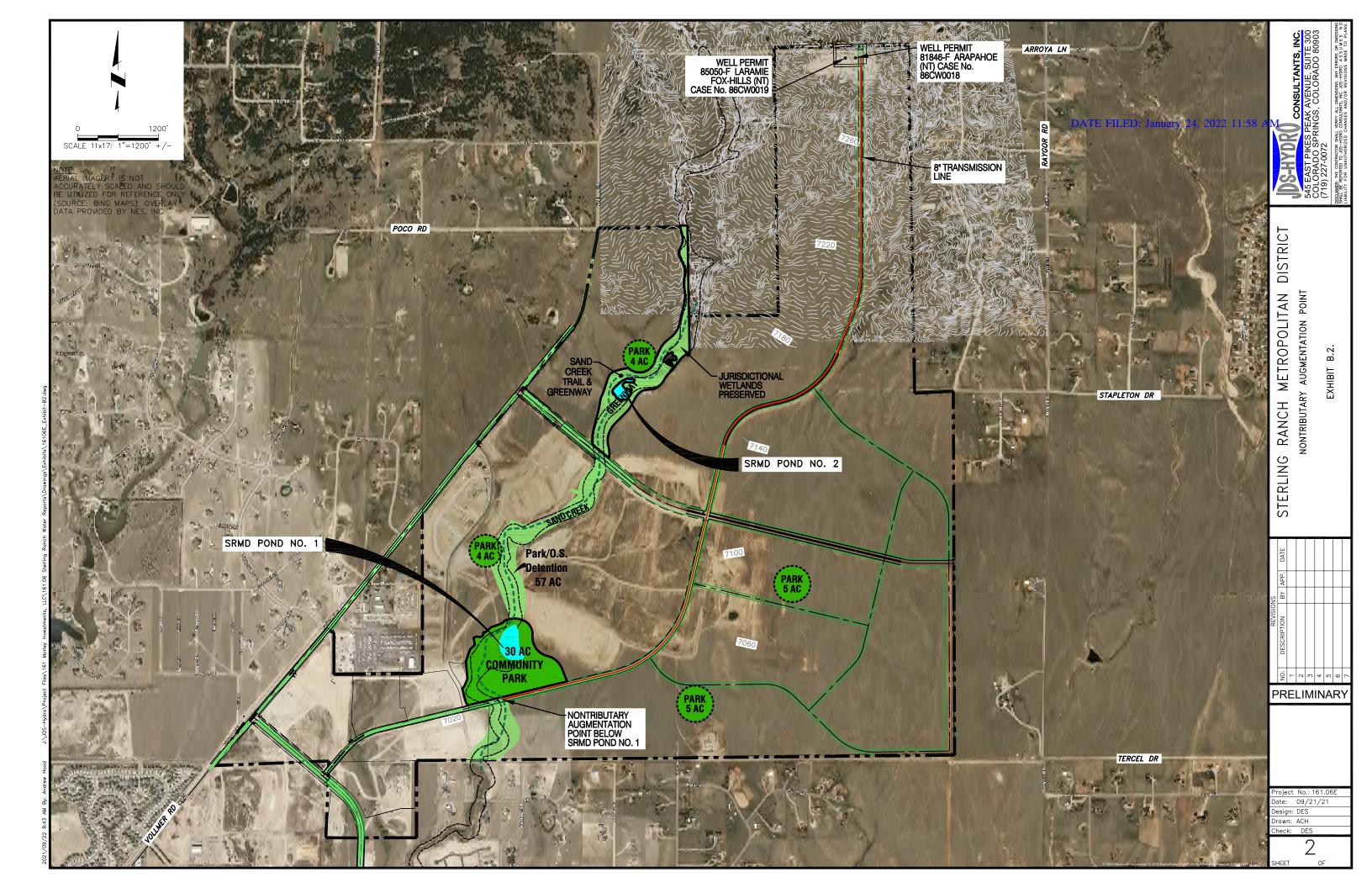
Along With:

A PARCEL OF LAND BEING THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27, THE SOUTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (SW1/4 NW1/4) OF SECTION 27, THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SECTION 27, A PORTION OF THE SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER OF SECTION 28 AND A PORTION OF THE NORTHEAST ONE-QUARTER (NE1/4 NE1/4) OF SECTION 28, ALL IN TOWNSHIP 12 SOUTH, RANGE 65 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BASIS OF BEARINGS: A LINE BETWEEN THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER (NW1/4 NW1/4) OF SECTION 27 AND THE SOUTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4) OF SAID SECTION 27, TOWNSHIP 12 SOUTH, RANGE 65 WEST, MONUMENTED AT THE NORTHERLY END BY A 3-1/4" ALUMINUM CAP STAMED "2006 ESI PLS 10376" AND MONUMENTED AT THE SOUTHERLY END BY A 3-1/4" ALUMINUM CAP STAMPED "2006 ESI PLS 10376" AND IS ASSUMED TO BEAR S00°54'30"E, A DISTANCE OF 3925.63 FEET;

COMMENCING AT THE NORTHEAST CORNER OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-OUARTER (NW1/4 NW1/4) OF SECTION 27, SAID POINT ALSO BEING THE POINT OF BEGINNING OF THE PARCEL OF LAND HEREIN DESCRIBED; THENCE S00°54'30"E ALONG THE EAST LINE OF THE WEST ONE-HALF (W1/2) OF SAID SECTION 27, A DISTANCE OF 3925.63 FEET TO THE SOUTHEAST CORNER OF THE NORTHWEST ONE-OUARTER OF THE SOUTHWEST ONE-QUARTER NW1/4 SW1/4) OF SAID SECTION 27; THENCE S87°35'00"W ALONG THE SOUTH LINE OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4), A DISTANCE OF 1332.78 FEET TO THE SOUTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4); THENCE N00°53'18"W ALONG THE WEST LINE OF SAID NORTHWEST ONE-OUARTER OF THE SOUTHWEST ONE-OUARTER (NW1/4 SW1/4), A DISTANCE OF 1316.78 FEET TO THE NORTHWEST CORNER OF SAID NORTHWEST ONE-QUARTER OF THE SOUTHWEST ONE-QUARTER (NW1/4 SW1/4); THENCE S89°08'28"W ALONG THE SOUTH LINE OF THE SOUTHEAST ONE-OUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4) OF SECTION 28. A DISTANCE OF 1326.68 FEET TO THE SOUTHWEST CORNER OF SAID SOUTHEAST ONE-QUARTER OF THE NORTHEAST ONE-QUARTER (SE1/4 NE1/4); THENCE N00°30'49"W ALONG THE WEST LINE OF SAID SOUTHEAST ONE-OUARTER OF THE NORTHEAST ONE-OUARTER (SE1/4 NE1/4), A DISTANCE OF 1270.77 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 430 OF THE RECORDS OF THE EL PASO COUNTY CLERK AND RECORDER; THENCE N21°41'10"E ALONG SAID EASTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 1450.84 FEET TO THE POINT OF INTERSECTION OF THE SOUTHERLY RIGHT-OF-WAY LINE AS DESCRIBED IN THE DEED, AS RECORDED IN BOOK 2678 AT PAGE 431 OF SAID COUNTY RECORDS; THENCE ALONG THE SOUTHERLY AND EASTERLY RIGHT-OF-WAY LINES OF SAID DEED THE FOLLOWING TWO (2) COURSES: 1. N89°40'23"E, A DISTANCE OF 761.52 FEET TO A POINT ON THE EAST LINE OF SAID NORTHEAST ONE-OUARTER OF THE NORTHEAST ONE-OUARTER (NE1/4 NE1/4): 2. N00°52'58"W ALONG SAID EAST LINE, A DISTANCE OF 30.00 FEET TO THE NORTHWEST CORNER OF SAID SECTION 27; THENCE N88°38'56"E ALONG THE NORTH LINE OF SAID NORTHWEST ONE-OUARTER OF THE NORTHWEST ONE-OUARTER (NW1/4 NW1/4). A DISTANCE OF 1330.91 FEET TO THE POINT OF BEGINNING; SAID PARCEL OF LAND CONTAINS A CALCULATED AREA OF 190.89 ACRES OF LAND, MORE OR LESS.





ounting - SRMD Pond No. 1 and Pond No. 2

2) Volume from SRMD Pond No. 2 Stage-Storage Table No. 2

| No. 1 | |
|--|---------------------------------|
| Beginning of Day Staff Gauge Reading Beginning of Day Volume ¹ End of Day Staff Gauge Reading End of Day Staff Volume ¹ End of Day Gain / Loss in Volume (D-B) | ft Acre-feet ft Acre-feet ft ft |
| Beginning of Day Staff Gauge Reading Beginning of Day Volume ² End of Day Staff Gauge Reading End of Day Staff Volume ² End of Day Gain / Loss in Volume (I-G) | ft Acre-feet ft Acre-feet ft |
| Total Volume Gain / Loss in Volume (E+J) Is there a Free River? (yes / no) Admin Number of Calling Right | Acre-feet |
| 1) Volume from SRMD Pond No. 1 Stage-Storage Table No. | 1 |

DATE FILED: January 24, 2022 11:58 AM

Sterling Ranch Metropolitan District Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan prepared by: JDS-Hydro Consultants, Inc.

| Lvaporation | Accounting - SRMD Pond No. 1 and Pond No. 2 | |
|-------------|---|-----------|
| Date: | | |
| SRMD Pond | No. 1 | |
| A) | Beginning of Day Staff Gauge Reading | ft |
| · · | Beginning of Day Surface Area ¹ | Acre-feet |
| | End of Day Staff Gauge Reading | ft |
| • | End of Day Staff Surface Area ¹ | Acre-feet |
| • | End of Day Average Surface Area (D-B) | ft |
| • | Precipitation ² | inches |
| • | Effective Precipitation (((F)*0.7)/12) | ft |
| - | Gross Lake Evaporation ³ | ft |
| | Net Lake Evaporation (I-G) | AF/Acre |
| • | Daily Average Evaporation (J*E) | AF |
| SRMD Pond | No. 2 | |
| L) | Beginning of Day Staff Gauge Reading | ft |
| M) | Beginning of Day Surface Area ² | Acre-feet |
| N) | End of Day Staff Gauge Reading | ft |
| O) | End of Day Staff Surface Area ² | Acre-feet |
| P) | End of Day Average Surface Area (D-B) | ft |
| Q) | Precipitation ² | inches |
| R) | Effective Precipitation (((Q)*0.7)/12) | ft |
| S) | Gross Lake Evaporation ³ | ft |
| T) | Net Lake Evaporation (S-R) | AF/Acre |
| U) | Daily Average Evaporation (T*P) | AF |
| Summary | | |
| V) | Total Evaporation Volume (U+K) | Acre-feet |
| W) | Is there a Free River? (yes / no) | |
| X) | Admin Number of Calling Right | |
| Noto | 4) Valuma from CDMD Dand No. 1 Stage Surface Area Table No. | 1 |

Note: 1) Volume from SRMD Pond No. 1 Stage-Surface Area Table No. 1

- 2) From Black Forest 6 WNW Weather Station
- 3) Monthly Gross Evaporation Rate from Table 3

2) Volume from SRMD Pond No. 2 Stage-Surface Area Table No. 2

Sterling Ranch Metropolitan District Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan prepared by: JDS-Hydro Consultants, Inc.

Table 3 - Monthly Gross Evaporation Rates for SRMD

| Month | % of Annual Evaporation % of Acres | Gross Lake Evaporation Rate - Feet |
|-----------|------------------------------------|--|
| January | 1.0% | 0.039 |
| February | 3.0% | 0.116 |
| March | 6.0% | 0.233 |
| April | 9.0% | 0.349 |
| May | 12.5% | 0.484 |
| June | 15.5% | 0.601 |
| July | 16.0% | 0.620 |
| August | 13.0% | 0.504 |
| September | 11.0% | 0.426 |
| October | 7.5% | 0.291 |
| November | 4.0% | 0.155 |
| December | 1.5% | 0.058 |
| Total | 1.0 | 3.875 |

Sterling Ranch Metropolitan District Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan prepared by: JDS-Hydro Consultants, Inc.

Well Pumping / Accounting - NT and NNT Wells

| Date: | | |
|----------------|---|------------------------------------|
| Not-No | ontributary Well Pumping | |
| 1) SR (| Quarry Denver Well No. 1 | |
| | A) Meter Reading - Beginning of Day B) Meter Reading - End of Day C) Total gallons pumped (B-A) D) Alluvial depletions (4%*C) E) Alluvial deplations (D/325851) | gallons gallons gallons gallons AF |
| 2) SR (| Quarry Arapahoe Well No. 1 | |
| | F) Meter Reading - Beginning of Day G) Meter Reading - End of Day H) Total gallons pumped (G-F) I) Alluvial depletions (4%*H) J) Alluvial deplations (I/325851) | gallons gallons gallons gallons AF |
| 3) SRM | ID Well D-1 | |
| | K) Meter Reading - Beginning of Day L) Meter Reading - End of Day M) Total gallons pumped (L-K) N) Alluvial depletions (4%*N) O) Alluvial deplations (N/325851) | gallons gallons gallons gallons AF |
| | P) Total alluvial depletions (E+J+O) | AF |
| <u>Nontril</u> | butary Well Pumping | |
| 4) SRM | ID Well A-1 | |
| | Q) Meter Reading - Beginning of Day R) Meter Reading - End of Day S) Total gallons pumped (R-Q) T) Total gallons pumped (S/325851) | gallons gallons gallons AF |

5) SRMD Well LFH-2

| U) Meter Reading - Beginning of Day | gallons |
|-------------------------------------|---------|
| V) Meter Reading - End of Day | gallons |
| W) Total gallons pumped (R-Q) | gallons |
| X) Total gallons pumped (S/325851) | AF |
| | |
| Y) Total NT pumped (T+X) | AF |

Sterling Ranch Metropolitan District Case No. 20CW3059 - Daily Accounting Summary for Augmentation Plan prepared by: JDS-Hydro Consultants, Inc.

| Lawn Ir | rigation Return Flows (LIRF) Calculations | |
|---------|--|---------|
| Date: | | |
| LIRF Cr | redit Calculations | |
| | A) Metered municipal irrigation use | gallons |
| | B) Metered municipal irrigation use (A/325851) | AF |
| | C) Estimated irrigation losses (B*0.735) | AF |
| | D) Adjusted irrigation application (B-C) | AF |
| | E) Fixed LIRF return flow rate | 15 % |
| | F) Estiamted LIRF volume (D*E) | AF |

| Daily Data Entry Form | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|------------|--|-------------------|---------------------------------|------------|--------------------|---------------------------------|-------------------|---------------------|---------|------------------------------------|--------------------|----------------|------------------|-------------|--------------------------|---------------------|-------------------|--|--|-----------------------------|----------------------|----------------|---------------------------|---|-----------------------------|-------------------------------------|-----------------------------|------------------------------------|----------------------------|-------------------------------------|
| ALTC - 50 | SID Pune N | Bund Storage B. 1 SRMD Pon | 1No.2 | Yetal | SAMO Pun | 4 No. 1 | Evacoation | 5660 | D Fund No. 1 | Total F | Administration Ma Admin Name of | | | NNT | 10 | et Punsing | | | N | Total Aus Musicinal Music Water Inflaction Use Inflact (All Control of the Inflact | ed Estimates Ad | usted Minimu | n Estimated | Yess | Cab S | Paraining | Augmentation | Remaining | Augmentation | Monthly 2 Remaining | Summary * Augmentation |
| Storage SCO | Storage | Yotal Storage Storage Storage BOD BOD | Storage | Pond Ave. Surfa Storage Avea | Precio Eus | oos Net so Evas | Yotel Ave Surface Sivac Area | Precio | Even Even Even | Fires 0 | Number of Calling FR Call Right | Purced Dealer Deal | f Pursed | Dealer Dealer | t Punsed D | Wed No. 1 exist Decer | Dealet Pursoed | Aug Water Po | SSSED West Life to JUNEAU Aug Water | Your Ave Municipal Muni Water Intention Use Intention | LOSSES BYG LUBB 4D 7 35% | Like Rate i | D Volume | Depletions to Alluvium | Total Augmentation Credits to Alluvium | Augmentation Obligations | O'edits in Excess of Obligations | Augmentation Obligations | Oredts in Excess of Obligations | Augmentation Chigations | Credits in Excess of Obligations |
| 810021 | ALC: | rate rate rate | 7461 | AND AND | Antheri de | ari rationa | 180 180 | locken | Plant (METATA) 1801 | | r.e. | Anatona instrum | t material | realization (AE) | restront to | ubous) radio | INC) ANNOUS | ratio co | Money (ME) | ratio atom ra | 1 /46 | 1575 | AMEN | /46) | AMEN | AMES | 7461 | (86) | (46) | /46) | 7461 |
| 83/2021 | | | | | | | | | | | | | | | | | | | | | | 15% | | | | | | | | | |
| 850021 850021 | | | | | | _ | | | | | | | | _ | | | | | | | _ | 15% | | | | | | | | | |
| 870921 | | | | | | = | | | | | | | | | = | | | | | | | 15% | | | | | | | | | |
| 89/2021 89/2021 | | | | | | _ | | | | | | | | _ | | | | | | | _ | 15% | | | | | | | | | |
| #11/2021 | | | | | | = | | | | | | | | | = | | | | | | | 15% | | | | | | | | | |
| 8/13/2021 | | | | | | | | | | | | | | | | | | | | | | 15% | | | | | | | | | |
| 8/16/2021 8/15/2021 | | | | | | | | | | | | | | | | | | | | | | 15% | | | | | | | | | |
| 8/16/2021 8/17/2021 | | | | | | | | | | | | | | | | | | | | | | 15% | | | | | | | | | |
| 8/18/2021 8/18/2021 | | | | | | | | | | | | | | | | | | | | | | 15% | | | | | | | | | |
| 893,9021 893,9021 | | | | | | | | | | | | | | | | | | | | | | 15% | | | | | | | | | |
| 822/2021 823/2021 | | | | | + | _ | | | | | | | | | | | | | | | | 1930 | | | | | | | | | |
| 8/26/2021 8/25/2021 | - | | + | _ | ++ | + | | + | | | | -+- | _ | | + | - | | | | | ++ | 19% | + | | | | | | | | |
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| 8282021 8282021 | - | | + | _ | ++ | + | | + | | | | -+- | _ | | + | - | | | | | ++ | 19% | + | | | | | | | | |
| 8/30/2021 8/31/2021 | | | | | - | _ | | | | | | | | | | | | | | | - | 19% | | | | | | | | | |
| 910931 | | | | | | _ | | | | | | | | | | | | | | | | 15% | - | | | | | | | | - |
| 9/3/2021 9/6/2021 | | | | | - | _ | | | | | | | | | | | | | | | - | 19% | | | | | | | | | |
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| 10.9/2021 | | | | | | | | | | | | | | | | | | | | | | 19% | | | | | | | | | |
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| 11/28/2021 11/26/2021 | | | \perp | | | | | \perp | | | | | | | \perp | | | | | | | 15% 15% | \perp | | | | | | | | |
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| 12/91/9001 Nate 1 | _ | | ш | | | | | ш | | | | | ш | | | Mustr-1 | RF Credits as total | or a monthly have | is from column AO == | ly only be "carried over" for a record | of one month as deen | 15% Bed it Case N | 6. 20CW30SP P | aragraph 31 Y | | | | | | | |
| | | | | | | | | | | | | | | | | | _ | | | -, | | - | | | | | | | | | |

EXHIBIT D

| SRI | MD Pond No. 1 | Elevation-Are | ea-Capacity - | JDS-Hydro - | September 2021 |
|-------------|---------------|---------------|---------------|------------------|----------------------|
| Staff Cago | Depth | Elevation | Area (20) | Capacity | |
| Staff Gage | Берип | Elevation | Area (ac) | (ac-ft) | |
| 0 | 0.00 | 7028 | 0.000 | 0.000 | Reservoir Bottom |
| 2 | 2.00 | 7030 | 1.235 | 1.230 | |
| 4 | 4.00 | 7032 | 1.619 | 4.090 | |
| 6 | 6.00 | 7034 | 2.013 | 7.720 | |
| 8 | 8.00 | 7036 | 2.516 | 12.250 | Spillway Crest / NWL |
| 10 | 10.00 | 7038 | 3.612 | 17.390 | |
| 12 | 12.00 | 7040 | 4.676 | 24.600 | Dam Crest |
| | Elevati | on-Area-Capa | city Interpol | | 00th ft. |
| Staff Gauge | Depth | Elevation | Area (AC) | Capacity (AF) | Comments |
| 0.00 | 0.00 | 7028.00 | 0.00 | 0.00 | Reservoir Bottom |
| 0.01 | 0.01 | 7028.01 | 0.006 | 0.006 | |
| 0.02 | 0.02 | 7028.02 | 0.012 | 0.012 | |
| 0.03 | 0.03 | 7028.03 | 0.018 | 0.018 | |
| 0.04 | 0.04 | 7028.04 | 0.025 | 0.025 | |
| 0.05 | 0.05 | 7028.05 | 0.031 | 0.031 | |
| 0.06 | 0.06 | 7028.06 | 0.037 | 0.037 | |
| 0.07 | 0.07 | 7028.07 | 0.043 | 0.043 | |
| 0.08 | 0.08 | 7028.08 | 0.049 | 0.049 | |
| 0.09 | 0.09 | 7028.09 | 0.055 | 0.055 | |
| 0.10 | 0.10 | 7028.10 | 0.062 | 0.062 | |
| 0.11 | 0.11 | 7028.11 | 0.068 | 0.068 | |
| 0.12 | 0.12 | 7028.12 | 0.074 | 0.074 | |
| 0.13 | 0.13 | 7028.13 | 0.080 | 0.080 | |
| 0.14 | 0.14 | 7028.14 | 0.086 | 0.086 | |
| 0.15 | 0.15 | 7028.15 | 0.092 | 0.092 | |
| 0.16 | 0.16 | 7028.16 | 0.098 | 0.098 | |
| 0.17 | 0.17 | 7028.17 | 0.105 | 0.105 | |
| 0.18 | 0.18 | 7028.18 | 0.111 | 0.111 | |
| 0.19 | 0.19 | 7028.19 | 0.117 | 0.117 | |
| 0.20 | 0.20 | 7028.20 | 0.123 | 0.123 | |
| 0.21 | 0.21 | 7028.21 | 0.129 | 0.129 | |
| 0.22 | 0.22 | 7028.22 | 0.135 | 0.135 | |
| 0.23 | 0.23 | 7028.23 | 0.141 | 0.141 | |
| 0.24 | 0.24 | 7028.24 | 0.148 | 0.148 | |
| 0.25 | 0.25 | 7028.25 | 0.154 | 0.154 | |
| 0.26 | 0.26 | 7028.26 | 0.160 | 0.160 | |
| 0.27 | 0.27 | 7028.27 | 0.166 | 0.166 | |
| 0.28 | 0.28 | 7028.28 | 0.172 | 0.172 | |
| 0.29 | 0.29 | 7028.29 | 0.178 | 0.178 | |
| 0.30 | 0.30 | 7028.30 | 0.185 | 0.185 | |

| SRI | MD Pond No. 2 | Elevation-Are | ea-Capacity - | JDS-Hydro - | September 2021 |
|-------------|---------------|---------------|---------------|---------------------|----------------------|
| Staff Gage | Depth | Elevation | Area (ac) | Capacity (ac-ft) | |
| 0 | 0.00 | DATE F | LFologo ar | ua o yood4, | R0Se2volidB5t8omM |
| 1 | 1.00 | 7115 | 0.031 | 0.020 | |
| 2 | 2.00 | 7116 | 0.662 | 0.360 | |
| 4 | 4.00 | 7118 | 1.015 | 2.040 | |
| 6 | 6.00 | 7120 | 1.233 | 4.290 | Spillway Crest / NWL |
| 8 | 8.00 | 7122 | 1.602 | 6.76 | |
| 10 | 10.00 | 7124 | 2.548 | 9.96 | Dam Crest |
| | Elevati | on-Area-Capa | city Interpol | ated to 1/10 | Oth ft. |
| Staff Gauge | Depth | Elevation | Area (AC) | Capacity (AF) | Comments |
| 0.00 | 0.00 | 7114.00 | 0.000 | 0.000 | Reservoir Bottom |
| 0.01 | 0.01 | 7114.01 | 0.000 | 0.000 | |
| 0.02 | 0.02 | 7114.02 | 0.001 | 0.000 | |
| 0.03 | 0.03 | 7114.03 | 0.001 | 0.001 | |
| 0.04 | 0.04 | 7114.04 | 0.001 | 0.001 | |
| 0.05 | 0.05 | 7114.05 | 0.002 | 0.001 | |
| 0.06 | 0.06 | 7114.06 | 0.002 | 0.001 | |
| 0.07 | 0.07 | 7114.07 | 0.002 | 0.001 | |
| 0.08 | 0.08 | 7114.08 | 0.002 | 0.002 | |
| 0.09 | 0.09 | 7114.09 | 0.003 | 0.002 | |
| 0.10 | 0.10 | 7114.10 | 0.003 | 0.002 | |
| 0.11 | 0.11 | 7114.11 | 0.003 | 0.002 | |
| 0.12 | 0.12 | 7114.12 | 0.004 | 0.002 | |
| 0.13 | 0.13 | 7114.13 | 0.004 | 0.003 | |
| 0.14 | 0.14 | 7114.14 | 0.004 | 0.003 | |
| 0.15 | 0.15 | 7114.15 | 0.005 | 0.003 | |
| 0.16 | 0.16 | 7114.16 | 0.005 | 0.003 | |
| 0.17 | 0.17 | 7114.17 | 0.005 | 0.003 | |
| 0.18 | 0.18 | 7114.18 | 0.005 | 0.004 | |
| 0.19 | 0.19 | 7114.19 | 0.006 | 0.004 | |
| 0.20 | 0.20 | 7114.20 | 0.006 | 0.004 | |
| 0.21 | 0.21 | 7114.21 | 0.006 | 0.004 | |
| 0.22 | 0.22 | 7114.22 | 0.007 | 0.004 | |
| 0.23 | 0.23 | 7114.23 | 0.007 | 0.005 | |
| 0.24 | 0.24 | 7114.24 | 0.007 | 0.005 | |
| 0.25 | 0.25 | 7114.25 | 0.008 | 0.005 | |
| 0.26 | 0.26 | 7114.26 | 0.008 | 0.005 | |
| 0.27 | 0.27 | 7114.27 | 0.008 | 0.005 | |
| 0.28 | 0.28 | 7114.28 | 0.008 | 0.006 | |
| 0.29 | 0.29 | 7114.29 | 0.009 | 0.006 | |
| 0.30 | 0.30 | 7114.30 | 0.009 | 0.006 | |

| 0.31 | 0.31 | 7028.31 | 0.191 | 0.191 | | 0.31 | 0.31 | 7114.31 | 0.009 | 0.006 | |
|---------------------|---------------------|---------------------------|-----------------------|-----------------------|---|---------------------|---------------------|---------------------------|-----------------------|-----------------------|--|
| 0.32 | 0.32 | 7028.32 | 0.197 | 0.197 | | 0.32 | 0.32 | 7114.32 | 0.010 | 0.006 | |
| 0.33 | 0.33 | 7028.33 | 0.203 | 0.203 | ŀ | 0.33 | 0.33 | 7114.33 | 0.010 | 0.007 | |
| 0.34 | 0.34 | 7028.34 | 0.209 | 0.209 | | 0.34 | 0.34 | 7114.34 | 0.010 | 0.007 | |
| 0.35 | 0.35 | 7028.35 | 0.215 | 0.215 | ŀ | 0.35 | 0.35 | 7114.35 | 0.011 | 0.007 | |
| 0.36 | 0.36 | 7028.36 | 0.221 | 0.221 | t | 0.36 | 0.36 | 7114.36 | 0.011 | 0.007 | |
| 0.37 | 0.37 | 7028.37 | 0.228 | 0.228 | ŀ | 0.37 | 0.37 | 7114.37 | 0.011 | 0.007 | |
| 0.38 | 0.38 | 7028.37 | 0.234 | 0.234 | | 0.38 | 0.38 | 7114.37 | 0.011 | 0.007 | |
| 0.39 | 0.39 | 7028.38 | 0.234 | 0.234 | | 0.39 | 0.39 | 7114.39 | 0.011 | 0.008 | |
| 0.40 | 0.39 | 7028.39 7028.40 | 0.246 | 0.246 | • | 0.39 | 0.39 | 7114.39 | 0.012 | 0.008 | |
| 0.41 | 0.41 | 7028.41 | 0.252 | 0.252 | ŧ | 0.41 | 0.41 | 7114.41 | 0.012 | 0.008 | |
| 0.41 | 0.41 | 7028.41 | 0.252 | 0.252 | } | 0.41 | 0.41 | 7114.41 | 0.012 | 0.008 | |
| | 0.42 | 7028.42 | 0.258 | 0.258 | ŀ | | 0.42 | 7114.42 | | 0.008 | |
| 0.43 | | | 0.264 | | } | 0.43 | | | 0.013 | | |
| 0.44 0.45 | 0.44 0.45 | 7028.44 7028.45 | 0.271 0.277 | 0.271 0.277 | } | 0.44 0.45 | 0.44 0.45 | 7114.44 7114.45 | 0.013 0.014 | 0.009 0.009 | |
| | | | | | + | | | | | | |
| 0.46 | 0.46 | 7028.46 | 0.283 | 0.283 | ŀ | 0.46 | 0.46 | 7114.46 | 0.014 | 0.009 | |
| 0.47 | 0.47 | 7028.47 | 0.289 | 0.289 | } | 0.47 | 0.47 | 7114.47 | 0.014 | 0.009 | |
| 0.48 | 0.48 | 7028.48 | 0.295 | 0.295 | - | 0.48 | 0.48 | 7114.48 | 0.014 | 0.010 | |
| 0.49 | 0.49 | 7028.49 | 0.301 | 0.301 | - | 0.49 | 0.49 | 7114.49 | 0.015 | 0.010 | |
| 0.50 | 0.50 | 7028.50 | 0.308 | 0.308 | 1 | 0.50 | 0.50 | 7114.50 | 0.015 | 0.010 | |
| 0.51 | 0.51 | 7028.51 | 0.314 | 0.314 | | 0.51 | 0.51 | 7114.51 | 0.015 | 0.010 | |
| 0.52 | 0.52 | 7028.52 | 0.320 | 0.320 | | 0.52 | 0.52 | 7114.52 | 0.016 | 0.010 | |
| 0.53 | 0.53 | 7028.53 | 0.326 | 0.326 | | 0.53 | 0.53 | 7114.53 | 0.016 | 0.011 | |
| 0.54 | 0.54 | 7028.54 | 0.332 | 0.332 | | 0.54 | 0.54 | 7114.54 | 0.016 | 0.011 | |
| 0.55 | 0.55 | 7028.55 | 0.338 | 0.338 | 1 | 0.55 | 0.55 | 7114.55 | 0.017 | 0.011 | |
| 0.56 | 0.56 | 7028.56 | 0.344 | 0.344 | | 0.56 | 0.56 | 7114.56 | 0.017 | 0.011 | |
| 0.57 | 0.57 | 7028.57 | 0.351 | 0.351 | | 0.57 | 0.57 | 7114.57 | 0.017 | 0.011 | |
| 0.58 | 0.58 | 7028.58 | 0.357 | 0.357 | | 0.58 | 0.58 | 7114.58 | 0.017 | 0.012 | |
| 0.59 | 0.59 | 7028.59 | 0.363 | 0.363 | | 0.59 | 0.59 | 7114.59 | 0.018 | 0.012 | |
| 0.60 | 0.60 | 7028.60 | 0.369 | 0.369 | Ţ | 0.60 | 0.60 | 7114.60 | 0.018 | 0.012 | |
| 0.61 | 0.61 | 7028.61 | 0.375 | 0.375 | | 0.61 | 0.61 | 7114.61 | 0.018 | 0.012 | |
| 0.62 | 0.62 | 7028.62 | 0.381 | 0.381 | Į | 0.62 | 0.62 | 7114.62 | 0.019 | 0.012 | |
| 0.63 | 0.63 | 7028.63 | 0.387 | 0.387 | Į | 0.63 | 0.63 | 7114.63 | 0.019 | 0.013 | |
| 0.64 | 0.64 | 7028.64 | 0.394 | 0.394 | | 0.64 | 0.64 | 7114.64 | 0.019 | 0.013 | |
| 0.65 | 0.65 | 7028.65 | 0.400 | 0.400 | l | 0.65 | 0.65 | 7114.65 | 0.020 | 0.013 | |
| 0.66 | 0.66 | 7028.66 | 0.406 | 0.406 | | 0.66 | 0.66 | 7114.66 | 0.020 | 0.013 | |
| 0.67 | 0.67 | 7028.67 | 0.412 | 0.412 | | 0.67 | 0.67 | 7114.67 | 0.020 | 0.013 | |
| 0.68 | 0.68 | 7028.68 | 0.418 | 0.418 | | 0.68 | 0.68 | 7114.68 | 0.020 | 0.014 | |
| 0.69 | 0.69 | 7028.69 | 0.424 | 0.424 | | 0.69 | 0.69 | 7114.69 | 0.021 | 0.014 | |
| 0.70 | 0.70 | 7028.70 | 0.430 | 0.430 | | 0.70 | 0.70 | 7114.70 | 0.021 | 0.014 | |
| 0.71 | 0.71 | 7028.71 | 0.437 | 0.437 | Ī | 0.71 | 0.71 | 7114.71 | 0.021 | 0.014 | |
| 0.72 | 0.72 | 7028.72 | 0.443 | 0.443 | Ţ | 0.72 | 0.72 | 7114.72 | 0.022 | 0.014 | |
| 0.73 | 0.73 | 7028.73 | 0.449 | 0.449 | ļ | 0.73 | 0.73 | 7114.73 | 0.022 | 0.015 | |
| 0.74 | 0.74 | 7028.74 | 0.455 | 0.455 | ļ | 0.74 | 0.74 | 7114.74 | 0.022 | 0.015 | |
| 0.75 | 0.75 | 7028.75 | 0.461 | 0.461 | ļ | 0.75 | 0.75 | 7114.75 | 0.023 | 0.015 | |
| 0.76 | 0.76 | 7028.76 | 0.467 | 0.467 | Ť | 0.76 | 0.76 | 7114.76 | 0.023 | 0.015 | |

| 0.31 | 0.31 | 7114.31 | 0.009 | 0.006 | |
|------|------|---------|-------|-------|--|
| 0.32 | 0.32 | 7114.32 | 0.010 | 0.006 | |
| 0.33 | 0.33 | 7114.33 | 0.010 | 0.007 | |
| 0.34 | 0.34 | 7114.34 | 0.010 | 0.007 | |
| 0.35 | 0.35 | 7114.35 | 0.011 | 0.007 | |
| 0.36 | 0.36 | 7114.36 | 0.011 | 0.007 | |
| 0.37 | 0.37 | 7114.37 | 0.011 | 0.007 | |
| 0.38 | 0.38 | 7114.38 | 0.011 | 0.008 | |
| 0.39 | 0.39 | 7114.39 | 0.012 | 0.008 | |
| 0.40 | 0.40 | 7114.40 | 0.012 | 0.008 | |
| 0.41 | 0.41 | 7114.41 | 0.012 | 0.008 | |
| 0.42 | 0.42 | 7114.42 | 0.013 | 0.008 | |
| 0.43 | 0.43 | 7114.43 | 0.013 | 0.009 | |
| 0.44 | 0.44 | 7114.44 | 0.013 | 0.009 | |
| 0.45 | 0.45 | 7114.45 | 0.014 | 0.009 | |
| 0.46 | 0.46 | 7114.46 | 0.014 | 0.009 | |
| 0.47 | 0.47 | 7114.47 | 0.014 | 0.009 | |
| 0.48 | 0.48 | 7114.48 | 0.014 | 0.010 | |
| 0.49 | 0.49 | 7114.49 | 0.015 | 0.010 | |
| 0.50 | 0.50 | 7114.50 | 0.015 | 0.010 | |
| 0.51 | 0.51 | 7114.51 | 0.015 | 0.010 | |
| 0.52 | 0.52 | 7114.52 | 0.016 | 0.010 | |
| 0.53 | 0.53 | 7114.53 | 0.016 | 0.011 | |
| 0.54 | 0.54 | 7114.54 | 0.016 | 0.011 | |
| 0.55 | 0.55 | 7114.55 | 0.017 | 0.011 | |
| 0.56 | 0.56 | 7114.56 | 0.017 | 0.011 | |
| 0.57 | 0.57 | 7114.57 | 0.017 | 0.011 | |
| 0.58 | 0.58 | 7114.58 | 0.017 | 0.012 | |
| 0.59 | 0.59 | 7114.59 | 0.018 | 0.012 | |
| 0.60 | 0.60 | 7114.60 | 0.018 | 0.012 | |
| 0.61 | 0.61 | 7114.61 | 0.018 | 0.012 | |
| 0.62 | 0.62 | 7114.62 | 0.019 | 0.012 | |
| 0.63 | 0.63 | 7114.63 | 0.019 | 0.013 | |
| 0.64 | 0.64 | 7114.64 | 0.019 | 0.013 | |
| 0.65 | 0.65 | 7114.65 | 0.020 | 0.013 | |
| 0.66 | 0.66 | 7114.66 | 0.020 | 0.013 | |
| 0.67 | 0.67 | 7114.67 | 0.020 | 0.013 | |
| 0.68 | 0.68 | 7114.68 | 0.020 | 0.014 | |
| 0.69 | 0.69 | 7114.69 | 0.021 | 0.014 | |
| 0.70 | 0.70 | 7114.70 | 0.021 | 0.014 | |
| 0.71 | 0.71 | 7114.71 | 0.021 | 0.014 | |
| 0.72 | 0.72 | 7114.72 | 0.022 | 0.014 | |
| 0.73 | 0.73 | 7114.73 | 0.022 | 0.015 | |
| 0.74 | 0.74 | 7114.74 | 0.022 | 0.015 | |
| 0.75 | 0.75 | 7114.75 | 0.023 | 0.015 | |
| 0.76 | 0.76 | 7114.76 | 0.023 | 0.015 | |

| 0.77 | 0.77 | 7028.77 | 0.474 | 0.474 | |
|---------------------|----------------------|--------------------------------------|--------------------------------|-----------------------|--|
| 0.78 | 0.78 | 7028.77 | 0.480 | 0.480 | |
| 0.79 | 0.79 | 7028.79 | 0.486 | 0.486 | |
| 0.80 | 0.80 | 7028.80 | 0.492 | 0.492 | |
| 0.81 | 0.81 | 7028.81 | 0.498 | 0.498 | |
| 0.82 | 0.82 | 7028.82 | 0.504 | 0.504 | |
| 0.83 | 0.83 | 7028.83 | 0.510 | 0.510 | |
| 0.84 | 0.84 | 7028.84 | 0.517 | 0.517 | |
| 0.85 | 0.85 | 7028.85 | 0.523 | 0.523 | |
| 0.86 | 0.86 | 7028.86 | 0.529 | 0.529 | |
| 0.87 | 0.87 | 7028.87 | 0.535 | 0.535 | |
| 0.88 | 0.88 | 7028.88 | 0.541 | 0.541 | |
| 0.89 | 0.89 | 7028.89 | 0.547 | 0.547 | |
| 0.90 | 0.90 | 7028.90 | 0.553 | 0.553 | |
| 0.91 | 0.91 | 7028.91 | 0.560 | 0.560 | |
| 0.92 | 0.92 | 7028.91 | 0.566 | 0.566 | |
| 0.93 | 0.93 | 7028.93 | 0.572 | 0.572 | |
| 0.94 | 0.94 | 7028.94 | 0.578 | 0.572 | |
| 0.95 | 0.95 | 7028.95 | 0.584 | 0.584 | |
| 0.96 | 0.96 | 7028.96 | 0.590 | 0.590 | |
| 0.97 | 0.97 | 7028.90 | 0.597 | 0.597 | |
| 0.98 | 0.98 | 7028.97 | 0.603 | 0.603 | |
| 0.99 | 0.99 | 7028.99 | 0.609 | 0.609 | |
| 1.00 | 1.00 | 7028.99 | 0.615 | 0.615 | |
| 1.01 | 1.01 | 7029.01 | 0.621 | 0.621 | |
| 1.02 | 1.02 | 7029.02 | 0.627 | 0.627 | |
| 1.03 | 1.03 | 7029.03 | 0.633 | 0.633 | |
| 1.04 | 1.04 | 7029.04 | 0.640 | 0.640 | |
| 1.05 | 1.05 | 7029.05 | 0.646 | 0.646 | |
| 1.06 | 1.06 | 7029.06 | 0.652 | 0.652 | |
| 1.07 | 1.07 | 7029.07 | 0.658 | 0.658 | |
| 1.08 | 1.08 | 7029.08 | 0.664 | 0.664 | |
| 1.09 | 1.09 | 7029.09 | 0.670 | 0.670 | |
| 1.10 | 1.10 | 7029.10 | 0.676 | 0.676 | |
| 1.11 | 1.11 | 7029.11 | 0.683 | 0.683 | |
| 1.12 | 1.12 | 7029.12 | 0.689 | 0.689 | |
| 1.13 | 1.13 | 7029.13 | 0.695 | 0.695 | |
| 1.14 | 1.14 | 7029.14 | 0.701 | 0.701 | |
| 1.15 | 1.15 | 7029.15 | 0.707 | 0.707 | |
| 1.16 | 1.16 | 7029.16 | 0.713 | 0.713 | |
| 1.17 | 1 | 7029.17 | 0.720 | 0.720 | |
| , | 1.17 | | | J., _U | |
| 1.18 | 1.17 1.18 | | | 0.726 | |
| 1.18 1.19 | 1.18 | 7029.18 | 0.726 | 0.726 0.732 | |
| 1.19 | 1.18 1.19 | 7029.18 7029.19 | 0.726 0.732 | 0.732 | |
| 1.19 1.20 | 1.18 1.19 1.20 | 7029.18 7029.19 7029.20 | 0.726 0.732 0.738 | 0.732 0.738 | |
| 1.19 | 1.18 1.19 | 7029.18 7029.19 | 0.726 0.732 | 0.732 | |

| 0.77 | 0.77 | 7114.77 | 0.023 | 0.015 | |
|------|------|--------------------|-------|----------------|--|
| 0.78 | 0.77 | 7114.77 | 0.023 | 0.015 | |
| 0.79 | 0.78 | 7114.78 | 0.023 | 0.016 | |
| 0.79 | 0.79 | 7114.79 | 0.024 | 0.016 | |
| 0.81 | 0.81 | | 0.024 | | |
| 0.82 | 0.82 | 7114.81 7114.82 | 0.024 | 0.016 0.016 | |
| | | | | | |
| 0.83 | 0.83 | 7114.83 | 0.025 | 0.017 | |
| 0.84 | 0.84 | 7114.84 | 0.025 | 0.017 | |
| 0.85 | 0.85 | 7114.85 | 0.026 | 0.017 | |
| 0.86 | 0.86 | 7114.86 | 0.026 | 0.017 | |
| 0.87 | 0.87 | 7114.87 | 0.026 | 0.017 | |
| 0.88 | 0.88 | 7114.88 | 0.026 | 0.018 | |
| 0.89 | 0.89 | 7114.89 | 0.027 | 0.018 | |
| 0.90 | 0.90 | 7114.90 | 0.027 | 0.018 | |
| 0.91 | 0.91 | 7114.91 | 0.027 | 0.018 | |
| 0.92 | 0.92 | 7114.92 | 0.028 | 0.018 | |
| 0.93 | 0.93 | 7114.93 | 0.028 | 0.019 | |
| 0.94 | 0.94 | 7114.94 | 0.028 | 0.019 | |
| 0.95 | 0.95 | 7114.95 | 0.029 | 0.019 | |
| 0.96 | 0.96 | 7114.96 | 0.029 | 0.019 | |
| 0.97 | 0.97 | 7114.97 | 0.029 | 0.019 | |
| 0.98 | 0.98 | 7114.98 | 0.029 | 0.020 | |
| 0.99 | 0.99 | 7114.99 | 0.030 | 0.020 | |
| 1.00 | 1.00 | 7115.00 | 0.030 | 0.020 | |
| 1.01 | 1.01 | 7115.01 | 0.036 | 0.023 | |
| 1.02 | 1.02 | 7115.02 | 0.043 | 0.026 | |
| 1.03 | 1.03 | 7115.03 | 0.049 | 0.029 | |
| 1.04 | 1.04 | 7115.04 | 0.055 | 0.032 | |
| 1.05 | 1.05 | 7115.05 | 0.061 | 0.035 | |
| 1.06 | 1.06 | 7115.06 | 0.068 | 0.038 | |
| 1.07 | 1.07 | 7115.07 | 0.074 | 0.041 | |
| 1.08 | 1.08 | 7115.08 | 0.080 | 0.044 | |
| 1.09 | 1.09 | 7115.09 | 0.087 | 0.047 | |
| 1.10 | 1.10 | 7115.10 | 0.093 | 0.050 | |
| 1.11 | 1.11 | 7115.11 | 0.099 | 0.053 | |
| 1.12 | 1.12 | 7115.12 | 0.106 | 0.056 | |
| 1.13 | 1.13 | 7115.13 | 0.112 | 0.059 | |
| 1.14 | 1.14 | 7115.14 | 0.118 | 0.062 | |
| 1.15 | 1.15 | 7115.15 | 0.124 | 0.065 | |
| 1.16 | 1.16 | 7115.16 | 0.131 | 0.068 | |
| 1.17 | 1.17 | 7115.17 | 0.137 | 0.071 | |
| 1.18 | 1.18 | 7115.18 | 0.143 | 0.074 | |
| 1.19 | 1.19 | 7115.19 | 0.150 | 0.077 | |
| 1.20 | 1.20 | 7115.20 | 0.156 | 0.080 | |
| 1.21 | 1.21 | 7115.21 | 0.162 | 0.083 | |
| 1.22 | 1.22 | 7115.22 | 0.169 | 0.086 | |

| 1.23 | 1.23 | 7029.23 | 0.756 | 0.756 | |
|---------------------|---------------------|---------------------------|-----------------------|-----------------------|--|
| 1.24 | 1.24 | 7029.24 | 0.763 | 0.763 | |
| 1.25 | 1.25 | 7029.25 | 0.769 | 0.769 | |
| 1.26 | 1.26 | 7029.26 | 0.775 | 0.775 | |
| 1.27 | 1.27 | 7029.27 | 0.781 | 0.781 | |
| 1.28 | 1.28 | 7029.28 | 0.787 | 0.787 | |
| 1.29 | 1.29 | 7029.29 | 0.793 | 0.793 | |
| 1.30 | 1.30 | 7029.30 | 0.799 | 0.799 | |
| 1.31 | 1.31 | 7029.31 | 0.806 | 0.806 | |
| 1.32 | 1.32 | 7029.32 | 0.812 | 0.812 | |
| 1.33 | 1.33 | 7029.33 | 0.818 | 0.818 | |
| 1.34 | 1.34 | 7029.34 | 0.824 | 0.824 | |
| 1.35 | 1.35 | 7029.35 | 0.824 | 0.824 | |
| 1.36 | 1.36 | 7029.36 | 0.836 | 0.836 | |
| 1.37 | 1.37 | 7029.37 | 0.843 | 0.843 | |
| 1.37 | 1.37 | 7029.37 | 0.849 | 0.849 | |
| 1.38 | 1.38 | 7029.38 | 0.855 | 0.849 | |
| 1.39 | 1.39 | 7029.39 7029.40 | 0.855 | 0.855 | |
| 1.41 | 1.41 | 7029.41 | 0.867 | 0.867 | |
| 1.41 | 1.41 | 7029.41 | | | |
| 1.42 | 1.42 | 7029.42 | 0.873 0.879 | 0.873 0.879 | |
| | 1 | | | | |
| 1.44 1.45 | 1.44 1.45 | 7029.44 7029.45 | 0.886 0.892 | 0.886 0.892 | |
| | | | | | |
| 1.46 1.47 | 1.46 1.47 | 7029.46 | 0.898 | 0.898 | |
| | 1 | 7029.47 | 0.904 | 0.904 | |
| 1.48 | 1.48 | 7029.48 | 0.910 | 0.910 | |
| 1.49 1.50 | 1.49 1.50 | 7029.49 | 0.916 | 0.916 | |
| | | 7029.50 | 0.922 | 0.922 | |
| 1.51 | 1.51 | 7029.51 | 0.929 | 0.929 | |
| 1.52 | 1.52 | 7029.52 | 0.935 | 0.935 | |
| 1.53 | 1.53 | 7029.53 | 0.941 | 0.941 | |
| 1.54 1.55 | 1.54 1.55 | 7029.54 7029.55 | 0.947 0.953 | 0.947 0.953 | |
| | | | | | |
| 1.56 | 1.56 | 7029.56 | 0.959 | 0.959 | |
| 1.57 | 1.57 | 7029.57 | 0.966 | 0.966 | |
| 1.58 | 1.58 | 7029.58 | 0.972 | 0.972 | |
| 1.59 | 1.59 | 7029.59 | 0.978 | 0.978 | |
| 1.60 | 1.60 | 7029.60 | 0.984 | 0.984 | |
| 1.61 | 1.61 | 7029.61 | 0.990 | 0.990 | |
| 1.62 | 1.62 | 7029.62 | 0.996 | 0.996 | |
| 1.63 | 1.63 | 7029.63 | 1.002 | 1.002 | |
| 1.64 | 1.64 | 7029.64 | 1.009 | 1.009 | |
| 1.65 | 1.65 | 7029.65 | 1.015 | 1.015 | |
| 1.66 | 1.66 | 7029.66 | 1.021 | 1.021 | |
| 1.67 | 1.67 | 7029.67 | 1.027 | 1.027 | |
| 1.68 | 1.68 | 7029.68 | 1.033 | 1.033 | |

| | | 1 | Ī | _ | |
|------|------|---------|-------|-------|--|
| 1.23 | 1.23 | 7115.23 | 0.175 | 0.089 | |
| 1.24 | 1.24 | 7115.24 | 0.181 | 0.092 | |
| 1.25 | 1.25 | 7115.25 | 0.187 | 0.095 | |
| 1.26 | 1.26 | 7115.26 | 0.194 | 0.098 | |
| 1.27 | 1.27 | 7115.27 | 0.200 | 0.101 | |
| 1.28 | 1.28 | 7115.28 | 0.206 | 0.104 | |
| 1.29 | 1.29 | 7115.29 | 0.213 | 0.107 | |
| 1.30 | 1.30 | 7115.30 | 0.219 | 0.110 | |
| 1.31 | 1.31 | 7115.31 | 0.225 | 0.113 | |
| 1.32 | 1.32 | 7115.32 | 0.232 | 0.116 | |
| 1.33 | 1.33 | 7115.33 | 0.238 | 0.119 | |
| 1.34 | 1.34 | 7115.34 | 0.244 | 0.122 | |
| 1.35 | 1.35 | 7115.35 | 0.250 | 0.125 | |
| 1.36 | 1.36 | 7115.36 | 0.257 | 0.128 | |
| 1.37 | 1.37 | 7115.37 | 0.263 | 0.131 | |
| 1.38 | 1.38 | 7115.38 | 0.269 | 0.134 | |
| 1.39 | 1.39 | 7115.39 | 0.276 | 0.137 | |
| 1.40 | 1.40 | 7115.40 | 0.282 | 0.140 | |
| 1.41 | 1.41 | 7115.41 | 0.288 | 0.143 | |
| 1.42 | 1.42 | 7115.42 | 0.295 | 0.146 | |
| 1.43 | 1.43 | 7115.43 | 0.301 | 0.149 | |
| 1.44 | 1.44 | 7115.44 | 0.307 | 0.152 | |
| 1.45 | 1.45 | 7115.45 | 0.313 | 0.155 | |
| 1.46 | 1.46 | 7115.46 | 0.320 | 0.158 | |
| 1.47 | 1.47 | 7115.47 | 0.326 | 0.161 | |
| 1.48 | 1.48 | 7115.48 | 0.332 | 0.164 | |
| 1.49 | 1.49 | 7115.49 | 0.339 | 0.167 | |
| 1.50 | 1.50 | 7115.50 | 0.345 | 0.170 | |
| 1.51 | 1.51 | 7115.51 | 0.351 | 0.173 | |
| 1.52 | 1.52 | 7115.52 | 0.358 | 0.176 | |
| 1.53 | 1.53 | 7115.53 | 0.364 | 0.179 | |
| 1.54 | 1.54 | 7115.54 | 0.370 | 0.182 | |
| 1.55 | 1.55 | 7115.55 | 0.376 | 0.185 | |
| 1.56 | 1.56 | 7115.56 | 0.383 | 0.188 | |
| 1.57 | 1.57 | 7115.57 | 0.389 | 0.191 | |
| 1.58 | 1.58 | 7115.58 | 0.395 | 0.194 | |
| 1.59 | 1.59 | 7115.59 | 0.402 | 0.197 | |
| 1.60 | 1.60 | 7115.60 | 0.408 | 0.200 | |
| 1.61 | 1.61 | 7115.61 | 0.414 | 0.203 | |
| 1.62 | 1.62 | 7115.62 | 0.420 | 0.206 | |
| 1.63 | 1.63 | 7115.63 | 0.427 | 0.209 | |
| 1.64 | 1.64 | 7115.64 | 0.433 | 0.212 | |
| 1.65 | 1.65 | 7115.65 | 0.439 | 0.215 | |
| 1.66 | 1.66 | 7115.66 | 0.446 | 0.218 | |
| 1.67 | 1.67 | 7115.67 | 0.452 | 0.221 | |
| 1.68 | 1.68 | 7115.68 | 0.458 | 0.224 | |

| 1.69 | 1.69 | 7029.69 | 1.039 | 1.039 | |
|------|------|---------|-------|-------|--|
| 1.70 | 1.70 | 7029.70 | 1.046 | 1.046 | |
| 1.71 | 1.71 | 7029.71 | 1.052 | 1.052 | |
| 1.72 | 1.72 | 7029.72 | 1.058 | 1.058 | |
| 1.73 | 1.73 | 7029.73 | 1.064 | 1.064 | |
| 1.74 | 1.74 | 7029.74 | 1.070 | 1.070 | |
| 1.75 | 1.75 | 7029.75 | 1.076 | 1.076 | |
| 1.76 | 1.76 | 7029.76 | 1.082 | 1.082 | |
| 1.77 | 1.77 | 7029.77 | 1.089 | 1.089 | |
| 1.78 | 1.78 | 7029.78 | 1.095 | 1.095 | |
| 1.79 | 1.79 | 7029.79 | 1.101 | 1.101 | |
| 1.80 | 1.80 | 7029.80 | 1.107 | 1.107 | |
| 1.81 | 1.81 | 7029.81 | 1.113 | 1.113 | |
| 1.82 | 1.82 | 7029.82 | 1.119 | 1.119 | |
| 1.83 | 1.83 | 7029.83 | 1.125 | 1.125 | |
| 1.84 | 1.84 | 7029.84 | 1.132 | 1.132 | |
| 1.85 | 1.85 | 7029.85 | 1.138 | 1.138 | |
| 1.86 | 1.86 | 7029.86 | 1.144 | 1.144 | |
| 1.87 | 1.87 | 7029.87 | 1.150 | 1.150 | |
| 1.88 | 1.88 | 7029.88 | 1.156 | 1.156 | |
| 1.89 | 1.89 | 7029.89 | 1.162 | 1.162 | |
| 1.90 | 1.90 | 7029.90 | 1.169 | 1.169 | |
| 1.91 | 1.91 | 7029.91 | 1.175 | 1.175 | |
| 1.92 | 1.92 | 7029.92 | 1.181 | 1.181 | |
| 1.93 | 1.93 | 7029.93 | 1.187 | 1.187 | |
| 1.94 | 1.94 | 7029.94 | 1.193 | 1.193 | |
| 1.95 | 1.95 | 7029.95 | 1.199 | 1.199 | |
| 1.96 | 1.96 | 7029.96 | 1.205 | 1.205 | |
| 1.97 | 1.97 | 7029.97 | 1.212 | 1.212 | |
| 1.98 | 1.98 | 7029.98 | 1.218 | 1.218 | |
| 1.99 | 1.99 | 7029.99 | 1.224 | 1.224 | |
| 2.00 | 2.00 | 7030.00 | 1.230 | 1.230 | |
| 2.01 | 2.01 | 7030.01 | 1.232 | 1.244 | |
| 2.02 | 2.02 | 7030.02 | 1.234 | 1.259 | |
| 2.03 | 2.03 | 7030.03 | 1.236 | 1.273 | |
| 2.04 | 2.04 | 7030.04 | 1.238 | 1.287 | |
| 2.05 | 2.05 | 7030.05 | 1.240 | 1.302 | |
| 2.06 | 2.06 | 7030.06 | 1.242 | 1.316 | |
| 2.07 | 2.07 | 7030.07 | 1.244 | 1.330 | |
| 2.08 | 2.08 | 7030.08 | 1.246 | 1.344 | |
| 2.09 | 2.09 | 7030.09 | 1.248 | 1.359 | |
| 2.10 | 2.10 | 7030.10 | 1.250 | 1.373 | |
| 2.11 | 2.11 | 7030.11 | 1.251 | 1.387 | |
| 2.12 | 2.12 | 7030.12 | 1.253 | 1.402 | |
| 2.13 | 2.13 | 7030.13 | 1.255 | 1.416 | |
| 2.14 | 2.14 | 7030.14 | 1.257 | 1.430 | |

| 1.69 | 1.69 | 7115.69 | 0.465 | 0.227 | |
|------|------|---------|-------|-------|--|
| 1.70 | 1.70 | 7115.70 | 0.471 | 0.230 | |
| 1.71 | 1.71 | 7115.71 | 0.477 | 0.233 | |
| 1.72 | 1.72 | 7115.71 | 0.483 | 0.236 | |
| 1.73 | 1.73 | 7115.72 | 0.490 | 0.239 | |
| 1.74 | 1.74 | 7115.73 | 0.496 | 0.242 | |
| 1.75 | 1.75 | 7115.75 | 0.502 | 0.245 | |
| 1.76 | 1.76 | 7115.76 | 0.509 | 0.248 | |
| 1.77 | 1.77 | 7115.77 | 0.515 | 0.251 | |
| 1.78 | 1.78 | 7115.77 | 0.521 | 0.254 | |
| 1.79 | 1.79 | 7115.79 | 0.528 | 0.257 | |
| 1.80 | 1.80 | 7115.80 | 0.534 | 0.260 | |
| 1.81 | 1.81 | 7115.81 | 0.540 | 0.263 | |
| 1.82 | 1.82 | 7115.82 | 0.546 | 0.266 | |
| 1.83 | 1.83 | 7115.83 | 0.553 | 0.269 | |
| 1.84 | 1.84 | 7115.84 | 0.559 | 0.272 | |
| 1.85 | 1.85 | 7115.85 | 0.565 | 0.275 | |
| 1.86 | 1.86 | 7115.86 | 0.572 | 0.278 | |
| 1.87 | 1.87 | 7115.87 | 0.578 | 0.281 | |
| 1.88 | 1.88 | 7115.88 | 0.584 | 0.284 | |
| 1.89 | 1.89 | 7115.89 | 0.591 | 0.287 | |
| 1.90 | 1.90 | 7115.90 | 0.597 | 0.290 | |
| 1.91 | 1.91 | 7115.91 | 0.603 | 0.293 | |
| 1.92 | 1.92 | 7115.92 | 0.609 | 0.296 | |
| 1.93 | 1.93 | 7115.93 | 0.616 | 0.299 | |
| 1.94 | 1.94 | 7115.94 | 0.622 | 0.302 | |
| 1.95 | 1.95 | 7115.95 | 0.628 | 0.305 | |
| 1.96 | 1.96 | 7115.96 | 0.635 | 0.308 | |
| 1.97 | 1.97 | 7115.97 | 0.641 | 0.311 | |
| 1.98 | 1.98 | 7115.98 | 0.647 | 0.314 | |
| 1.99 | 1.99 | 7115.99 | 0.654 | 0.317 | |
| 2.00 | 2.00 | 7116.00 | 0.662 | 0.360 | |
| 2.01 | 2.01 | 7116.01 | 0.664 | 0.368 | |
| 2.02 | 2.02 | 7116.02 | 0.665 | 0.377 | |
| 2.03 | 2.03 | 7116.03 | 0.667 | 0.385 | |
| 2.04 | 2.04 | 7116.04 | 0.669 | 0.394 | |
| 2.05 | 2.05 | 7116.05 | 0.671 | 0.402 | |
| 2.06 | 2.06 | 7116.06 | 0.673 | 0.410 | |
| 2.07 | 2.07 | 7116.07 | 0.674 | 0.419 | |
| 2.08 | 2.08 | 7116.08 | 0.676 | 0.427 | |
| 2.09 | 2.09 | 7116.09 | 0.678 | 0.436 | |
| 2.10 | 2.10 | 7116.10 | 0.680 | 0.444 | |
| 2.11 | 2.11 | 7116.11 | 0.681 | 0.452 | |
| 2.12 | 2.12 | 7116.12 | 0.683 | 0.461 | |
| 2.13 | 2.13 | 7116.13 | 0.685 | 0.469 | |
| 2.14 | 2.14 | 7116.14 | 0.687 | 0.478 | |

| 2.15 | 2.15 | 7030.15 | 1.259 | 1.445 | |
|------|------|---------|-------|-------|--|
| 2.16 | 2.16 | 7030.16 | 1.261 | 1.459 | |
| 2.17 | 2.17 | 7030.17 | 1.263 | 1.473 | |
| 2.18 | 2.18 | 7030.18 | 1.265 | 1.487 | |
| 2.19 | 2.19 | 7030.19 | 1.267 | 1.502 | |
| 2.20 | 2.20 | 7030.20 | 1.269 | 1.516 | |
| 2.21 | 2.21 | 7030.21 | 1.271 | 1.530 | |
| 2.22 | 2.22 | 7030.22 | 1.273 | 1.545 | |
| 2.23 | 2.23 | 7030.23 | 1.275 | 1.559 | |
| 2.24 | 2.24 | 7030.24 | 1.277 | 1.573 | |
| 2.25 | 2.25 | 7030.25 | 1.279 | 1.588 | |
| 2.26 | 2.26 | 7030.26 | 1.281 | 1.602 | |
| 2.27 | 2.27 | 7030.27 | 1.283 | 1.616 | |
| 2.28 | 2.28 | 7030.28 | 1.285 | 1.630 | |
| 2.29 | 2.29 | 7030.29 | 1.287 | 1.645 | |
| 2.30 | 2.30 | 7030.30 | 1.289 | 1.659 | |
| 2.31 | 2.31 | 7030.31 | 1.290 | 1.673 | |
| 2.32 | 2.32 | 7030.32 | 1.292 | 1.688 | |
| 2.33 | 2.33 | 7030.33 | 1.294 | 1.702 | |
| 2.34 | 2.34 | 7030.34 | 1.296 | 1.716 | |
| 2.35 | 2.35 | 7030.35 | 1.298 | 1.731 | |
| 2.36 | 2.36 | 7030.36 | 1.300 | 1.745 | |
| 2.37 | 2.37 | 7030.37 | 1.302 | 1.759 | |
| 2.38 | 2.38 | 7030.38 | 1.304 | 1.773 | |
| 2.39 | 2.39 | 7030.39 | 1.306 | 1.788 | |
| 2.40 | 2.40 | 7030.40 | 1.308 | 1.802 | |
| 2.41 | 2.41 | 7030.41 | 1.310 | 1.816 | |
| 2.42 | 2.42 | 7030.42 | 1.312 | 1.831 | |
| 2.43 | 2.43 | 7030.43 | 1.314 | 1.845 | |
| 2.44 | 2.44 | 7030.44 | 1.316 | 1.859 | |
| 2.45 | 2.45 | 7030.45 | 1.318 | 1.874 | |
| 2.46 | 2.46 | 7030.46 | 1.320 | 1.888 | |
| 2.47 | 2.47 | 7030.47 | 1.322 | 1.902 | |
| 2.48 | 2.48 | 7030.48 | 1.324 | 1.916 | |
| 2.49 | 2.49 | 7030.49 | 1.326 | 1.931 | |
| 2.50 | 2.50 | 7030.50 | 1.327 | 1.945 | |
| 2.51 | 2.51 | 7030.51 | 1.329 | 1.959 | |
| 2.52 | 2.52 | 7030.52 | 1.331 | 1.974 | |
| 2.53 | 2.53 | 7030.53 | 1.333 | 1.988 | |
| 2.54 | 2.54 | 7030.54 | 1.335 | 2.002 | |
| 2.55 | 2.55 | 7030.55 | 1.337 | 2.017 | |
| 2.56 | 2.56 | 7030.56 | 1.339 | 2.031 | |
| 2.57 | 2.57 | 7030.57 | 1.341 | 2.045 | |
| 2.58 | 2.58 | 7030.58 | 1.343 | 2.059 | |
| 2.59 | 2.59 | 7030.59 | 1.345 | 2.074 | |
| 2.60 | 2.60 | 7030.60 | 1.347 | 2.088 | |

| 2.15 2.16 7116.15 0.688 0.486 2.16 2.16 7116.16 0.690 0.494 2.17 2.17 7116.17 0.692 0.503 2.18 2.18 7116.18 0.694 0.511 2.19 2.19 7116.19 0.696 0.520 2.20 2.20 7116.20 0.697 0.528 2.21 2.21 7116.21 0.699 0.536 2.22 2.22 7116.22 0.701 0.545 2.23 2.23 7116.23 0.703 0.553 2.24 2.24 7116.24 0.704 0.562 2.25 2.25 7116.25 0.706 0.570 2.26 2.26 7116.25 0.706 0.578 2.27 2.27 7116.27 0.710 0.587 2.28 2.28 7116.28 0.711 0.595 2.29 2.29 7116.29 0.713 0.604 2.30 | |
|--|--|
| 2.17 2.17 7116.17 0.692 0.503 2.18 2.18 7116.18 0.694 0.511 2.19 2.19 7116.19 0.696 0.520 2.20 2.20 7116.20 0.697 0.528 2.21 2.21 7116.21 0.699 0.536 2.22 2.22 7116.22 0.701 0.545 2.23 2.23 7116.23 0.703 0.553 2.24 2.24 7116.24 0.704 0.562 2.25 2.25 7116.25 0.706 0.570 2.26 2.26 7116.26 0.708 0.578 2.27 2.27 7116.27 0.710 0.587 2.28 2.28 7116.29 0.713 0.604 2.30 2.30 7116.30 0.715 0.612 2.31 2.31 7116.31 0.717 0.620 2.33 2.33 7116.33 0.720 0.637 2.34 | |
| 2.18 2.18 7116.18 0.694 0.511 2.19 2.19 7116.19 0.696 0.520 2.20 2.20 7116.20 0.697 0.528 2.21 2.21 7116.21 0.699 0.536 2.22 2.22 7116.22 0.701 0.545 2.23 2.23 7116.23 0.703 0.553 2.24 2.24 7116.24 0.704 0.562 2.25 2.25 7116.25 0.706 0.570 2.26 2.26 7116.25 0.708 0.578 2.27 2.27 7116.27 0.710 0.587 2.28 2.28 7116.28 0.711 0.595 2.29 2.29 7116.29 0.713 0.604 2.30 2.30 7116.30 0.715 0.612 2.31 2.31 7116.31 0.717 0.620 2.32 2.32 7116.33 0.720 0.637 2.33 | |
| 2.19 2.19 7116.19 0.696 0.520 2.20 2.20 7116.20 0.697 0.528 2.21 2.21 7116.21 0.699 0.536 2.22 2.22 7116.22 0.701 0.545 2.23 2.23 7116.23 0.703 0.553 2.24 2.24 7116.24 0.704 0.562 2.25 2.25 7116.25 0.706 0.570 2.26 2.26 7116.26 0.708 0.578 2.27 2.27 7116.27 0.710 0.587 2.28 2.28 7116.29 0.713 0.604 2.30 2.30 7116.30 0.715 0.612 2.31 2.31 7116.30 0.717 0.620 2.32 2.32 7116.32 0.719 0.629 2.33 2.33 7116.33 0.720 0.637 2.34 2.34 7116.34 0.722 0.646 2.35 | |
| 2.20 2.20 7116.20 0.697 0.528 2.21 2.21 7116.21 0.699 0.536 2.22 2.22 7116.22 0.701 0.545 2.23 2.23 7116.23 0.703 0.553 2.24 2.24 7116.24 0.704 0.562 2.25 2.25 7116.25 0.706 0.570 2.26 2.26 7116.26 0.708 0.578 2.27 2.27 7116.27 0.710 0.587 2.28 2.28 7116.28 0.711 0.595 2.29 2.29 7116.29 0.713 0.604 2.30 2.30 7116.30 0.715 0.612 2.31 2.31 7116.31 0.717 0.620 2.32 2.32 7116.32 0.719 0.629 2.33 2.33 7116.33 0.720 0.637 2.34 2.34 7116.34 0.722 0.646 2.35 | |
| 2.21 2.21 7116.21 0.699 0.536 2.22 2.22 7116.22 0.701 0.545 2.23 2.23 7116.23 0.703 0.553 2.24 2.24 7116.24 0.704 0.562 2.25 2.25 7116.25 0.706 0.570 2.26 2.26 7116.26 0.708 0.578 2.27 2.27 7116.27 0.710 0.587 2.28 2.28 7116.28 0.711 0.595 2.29 2.29 7116.29 0.713 0.604 2.30 2.30 7116.30 0.715 0.612 2.31 2.31 7116.31 0.717 0.620 2.32 2.32 7116.32 0.719 0.629 2.33 2.33 7116.33 0.720 0.637 2.34 2.34 7116.34 0.722 0.646 2.35 2.35 7116.35 0.724 0.654 2.36 2.36 7316.36 0.726 0.662 2.37 2.37 | |
| 2.22 7116.22 0.701 0.545 2.23 2.23 7116.23 0.703 0.553 2.24 2.24 7116.24 0.704 0.562 2.25 2.25 7116.25 0.706 0.570 2.26 2.26 7116.26 0.708 0.578 2.27 2.27 7116.27 0.710 0.587 2.28 2.28 7116.28 0.711 0.595 2.29 2.29 7116.29 0.713 0.604 2.30 2.30 7116.30 0.715 0.612 2.31 2.31 7116.31 0.717 0.620 2.32 2.32 7116.32 0.719 0.629 2.33 2.33 7116.33 0.720 0.637 2.34 2.34 7116.34 0.722 0.646 2.35 2.35 7116.35 0.724 0.654 2.36 2.36 7116.36 0.726 0.662 2.37 2.37 7116.37 0.727 0.671 2.38 2.38 7116.40 <td></td> | |
| 2.23 2.24 2.24 7116.24 0.704 0.562 2.25 2.25 7116.25 0.706 0.570 2.26 2.26 7116.26 0.708 0.578 2.27 2.27 7116.27 0.710 0.587 2.28 2.28 7116.28 0.711 0.595 2.29 2.29 7116.29 0.713 0.604 2.30 2.30 7116.30 0.715 0.612 2.31 2.31 7116.31 0.717 0.620 2.32 2.32 7116.32 0.719 0.629 2.33 2.33 7116.33 0.720 0.637 2.34 2.34 7116.34 0.722 0.646 2.35 2.35 7116.35 0.724 0.654 2.36 2.36 7116.36 0.726 0.662 2.37 2.37 7116.37 0.727 0.671 2.38 2.38 7116.39 0.731 0.688 2.40 2.40 7116.40 0.733 0.696 2.41 | |
| 2.24 2.24 7116.24 0.704 0.562 2.25 2.25 7116.25 0.706 0.570 2.26 2.26 7116.26 0.708 0.578 2.27 2.27 7116.27 0.710 0.587 2.28 2.28 7116.28 0.711 0.595 2.29 2.29 7116.29 0.713 0.604 2.30 2.30 7116.30 0.715 0.612 2.31 2.31 7116.31 0.717 0.620 2.32 2.32 7116.32 0.719 0.629 2.33 2.33 7116.33 0.720 0.637 2.34 2.34 7116.34 0.722 0.646 2.35 2.35 7116.35 0.724 0.654 2.36 2.36 7116.35 0.726 0.662 2.37 2.37 7116.37 0.727 0.671 2.38 2.38 7116.39 0.731 0.688 2.40 2.40 7116.40 0.733 0.696 2.41 2.41 | |
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| 2.47 2.47 7116.47 0.745 0.755 | |
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| 2.49 2.49 7416.49 0.747 0.762 | |
| 2.48 2.48 7116.48 0.747 0.763 | |
| 2.49 2.49 7116.49 0.749 0.772 | |
| 2.50 2.50 7116.50 0.750 0.780 | |
| 2.51 2.51 7116.51 0.752 0.788 | |
| 2.52 2.52 7116.52 0.754 0.797 | |
| 2.53 2.53 7116.53 0.756 0.805 | |
| 2.54 2.54 7116.54 0.757 0.814 | |
| 2.55 2.55 7116.55 0.759 0.822 | |
| 2.56 2.56 7116.56 0.761 0.830 | |
| 2.57 2.57 7116.57 0.763 0.839 | |
| 2.58 2.58 7116.58 0.765 0.847 | |
| 2.59 2.59 7116.59 0.766 0.856 | |
| 2.60 2.60 7116.60 0.768 0.864 | |

| 2.62 | | | | 2.102 | 2.61 | 2.61 | 7116.61 | 0.770 | 0.872 | |
|------|------|---------|-------|-------|------|------|---------|-------|-------|---|
| | 2.62 | 7030.62 | 1.351 | 2.117 | 2.62 | 2.62 | 7116.62 | 0.772 | 0.881 | |
| 2.63 | 2.63 | 7030.63 | 1.353 | 2.131 | 2.63 | 2.63 | 7116.63 | 0.773 | 0.889 | |
| 2.64 | 2.64 | 7030.64 | 1.355 | 2.145 | 2.64 | 2.64 | 7116.64 | 0.775 | 0.898 | |
| 2.65 | 2.65 | 7030.65 | 1.357 | 2.160 | 2.65 | 2.65 | 7116.65 | 0.777 | 0.906 | |
| 2.66 | 2.66 | 7030.66 | 1.359 | 2.174 | 2.66 | 2.66 | 7116.66 | 0.779 | 0.914 | |
| 2.67 | 2.67 | 7030.67 | 1.361 | 2.188 | 2.67 | 2.67 | 7116.67 | 0.780 | 0.923 | |
| 2.68 | 2.68 | 7030.68 | 1.363 | 2.202 | 2.68 | 2.68 | 7116.68 | 0.782 | 0.931 | |
| 2.69 | 2.69 | 7030.69 | 1.365 | 2.217 | 2.69 | 2.69 | 7116.69 | 0.784 | 0.940 | |
| 2.70 | 2.70 | 7030.70 | 1.366 | 2.231 | 2.70 | 2.70 | 7116.70 | 0.786 | 0.948 | |
| 2.71 | 2.71 | 7030.71 | 1.368 | 2.245 | 2.71 | 2.71 | 7116.71 | 0.788 | 0.956 | |
| 2.72 | 2.72 | 7030.72 | 1.370 | 2.260 | 2.72 | 2.72 | 7116.72 | 0.789 | 0.965 | |
| 2.73 | 2.73 | 7030.73 | 1.372 | 2.274 | 2.73 | 2.73 | 7116.73 | 0.791 | 0.973 | |
| 2.74 | 2.74 | 7030.74 | 1.374 | 2.288 | 2.74 | 2.74 | 7116.74 | 0.793 | 0.982 | |
| 2.75 | 2.75 | 7030.75 | 1.376 | 2.303 | 2.75 | 2.75 | 7116.75 | 0.795 | 0.990 | |
| 2.76 | 2.76 | 7030.76 | 1.378 | 2.317 | 2.76 | 2.76 | 7116.76 | 0.796 | 0.998 | |
| 2.77 | 2.77 | 7030.77 | 1.380 | 2.331 | 2.77 | 2.77 | 7116.77 | 0.798 | 1.007 | |
| 2.78 | 2.78 | 7030.78 | 1.382 | 2.345 | 2.78 | 2.78 | 7116.78 | 0.800 | 1.015 | |
| 2.79 | 2.79 | 7030.79 | 1.384 | 2.360 | 2.79 | 2.79 | 7116.79 | 0.802 | 1.024 | |
| 2.80 | 2.80 | 7030.80 | 1.386 | 2.374 | 2.80 | 2.80 | 7116.80 | 0.803 | 1.032 | |
| 2.81 | 2.81 | 7030.81 | 1.388 | 2.388 | 2.81 | 2.81 | 7116.81 | 0.805 | 1.040 | |
| 2.82 | 2.82 | 7030.82 | 1.390 | 2.403 | 2.82 | 2.82 | 7116.82 | 0.807 | 1.049 | |
| 2.83 | 2.83 | 7030.83 | 1.392 | 2.417 | 2.83 | 2.83 | 7116.83 | 0.809 | 1.057 | |
| 2.84 | 2.84 | 7030.84 | 1.394 | 2.431 | 2.84 | 2.84 | 7116.84 | 0.811 | 1.066 | |
| 2.85 | 2.85 | 7030.85 | 1.396 | 2.446 | 2.85 | 2.85 | 7116.85 | 0.812 | 1.074 | |
| 2.86 | 2.86 | 7030.86 | 1.398 | 2.460 | 2.86 | 2.86 | 7116.86 | 0.814 | 1.082 | |
| 2.87 | 2.87 | 7030.87 | 1.400 | 2.474 | 2.87 | 2.87 | 7116.87 | 0.816 | 1.091 | |
| 2.88 | 2.88 | 7030.88 | 1.402 | 2.488 | 2.88 | 2.88 | 7116.88 | 0.818 | 1.099 | |
| 2.89 | 2.89 | 7030.89 | 1.404 | 2.503 | 2.89 | 2.89 | 7116.89 | 0.819 | 1.108 | |
| 2.90 | 2.90 | 7030.90 | 1.405 | 2.517 | 2.90 | 2.90 | 7116.90 | 0.821 | 1.116 | |
| 2.91 | 2.91 | 7030.91 | 1.407 | 2.531 | 2.91 | 2.91 | 7116.91 | 0.823 | 1.124 | |
| 2.92 | 2.92 | 7030.92 | 1.409 | 2.546 | 2.92 | 2.92 | 7116.92 | 0.825 | 1.133 | |
| 2.93 | 2.93 | 7030.93 | 1.411 | 2.560 | 2.93 | 2.93 | 7116.93 | 0.827 | 1.141 | |
| 2.94 | 2.94 | 7030.94 | 1.413 | 2.574 | 2.94 | 2.94 | 7116.94 | 0.828 | 1.150 | |
| 2.95 | 2.95 | 7030.95 | 1.415 | 2.589 | 2.95 | 2.95 | 7116.95 | 0.830 | 1.158 | |
| 2.96 | 2.96 | 7030.96 | 1.417 | 2.603 | 2.96 | 2.96 | 7116.96 | 0.832 | 1.166 | |
| 2.97 | 2.97 | 7030.97 | 1.419 | 2.617 | 2.97 | 2.97 | 7116.97 | 0.834 | 1.175 | |
| 2.98 | 2.98 | 7030.98 | 1.421 | 2.631 | 2.98 | 2.98 | 7116.98 | 0.835 | 1.183 | |
| 2.99 | 2.99 | 7030.99 | 1.423 | 2.646 | 2.99 | 2.99 | 7116.99 | 0.837 | 1.192 | |
| 3.00 | 3.00 | 7031.00 | 1.425 | 2.660 | 3.00 | 3.00 | 7117.00 | 0.839 | 1.200 | |
| 3.01 | 3.01 | 7031.01 | 1.427 | 2.674 | 3.01 | 3.01 | 7117.01 | 0.841 | 1.208 | |
| 3.02 | 3.02 | 7031.02 | 1.429 | 2.689 | 3.02 | 3.02 | 7117.02 | 0.842 | 1.217 | |
| 3.03 | 3.03 | 7031.03 | 1.431 | 2.703 | 3.03 | 3.03 | 7117.03 | 0.844 | 1.225 | |
| 3.04 | 3.04 | 7031.04 | 1.433 | 2.717 | 3.04 | 3.04 | 7117.04 | 0.846 | 1.234 | |
| 3.05 | 3.05 | 7031.05 | 1.435 | 2.732 | 3.05 | 3.05 | 7117.05 | 0.848 | 1.242 | 1 |

| 2.61 | 2.61 | 7116.61 | 0.770 | 0.872 | |
|------|------|---------|-------|-------|--|
| 2.62 | 2.62 | 7116.62 | 0.772 | 0.881 | |
| 2.63 | 2.63 | 7116.63 | 0.773 | 0.889 | |
| 2.64 | 2.64 | 7116.64 | 0.775 | 0.898 | |
| 2.65 | 2.65 | 7116.65 | 0.777 | 0.906 | |
| 2.66 | 2.66 | 7116.66 | 0.779 | 0.914 | |
| 2.67 | 2.67 | 7116.67 | 0.780 | 0.923 | |
| 2.68 | 2.68 | 7116.68 | 0.782 | 0.931 | |
| 2.69 | 2.69 | 7116.69 | 0.784 | 0.940 | |
| 2.70 | 2.70 | 7116.70 | 0.786 | 0.948 | |
| 2.71 | 2.71 | 7116.71 | 0.788 | 0.956 | |
| 2.72 | 2.72 | 7116.72 | 0.789 | 0.965 | |
| 2.73 | 2.73 | 7116.73 | 0.791 | 0.973 | |
| 2.74 | 2.74 | 7116.74 | 0.793 | 0.982 | |
| 2.75 | 2.75 | 7116.75 | 0.795 | 0.990 | |
| 2.76 | 2.76 | 7116.76 | 0.796 | 0.998 | |
| 2.77 | 2.77 | 7116.77 | 0.798 | 1.007 | |
| 2.78 | 2.78 | 7116.78 | 0.800 | 1.015 | |
| 2.79 | 2.79 | 7116.79 | 0.802 | 1.024 | |
| 2.80 | 2.80 | 7116.80 | 0.803 | 1.032 | |
| 2.81 | 2.81 | 7116.81 | 0.805 | 1.040 | |
| 2.82 | 2.82 | 7116.82 | 0.807 | 1.049 | |
| 2.83 | 2.83 | 7116.83 | 0.809 | 1.057 | |
| 2.84 | 2.84 | 7116.84 | 0.811 | 1.066 | |
| 2.85 | 2.85 | 7116.85 | 0.812 | 1.074 | |
| 2.86 | 2.86 | 7116.86 | 0.814 | 1.082 | |
| 2.87 | 2.87 | 7116.87 | 0.816 | 1.091 | |
| 2.88 | 2.88 | 7116.88 | 0.818 | 1.099 | |
| 2.89 | 2.89 | 7116.89 | 0.819 | 1.108 | |
| 2.90 | 2.90 | 7116.90 | 0.821 | 1.116 | |
| 2.91 | 2.91 | 7116.91 | 0.823 | 1.124 | |
| 2.92 | 2.92 | 7116.92 | 0.825 | 1.133 | |
| 2.93 | 2.93 | 7116.93 | 0.827 | 1.141 | |
| 2.94 | 2.94 | 7116.94 | 0.828 | 1.150 | |
| 2.95 | 2.95 | 7116.95 | 0.830 | 1.158 | |
| 2.96 | 2.96 | 7116.96 | 0.832 | 1.166 | |
| 2.97 | 2.97 | 7116.97 | 0.834 | 1.175 | |
| 2.98 | 2.98 | 7116.98 | 0.835 | 1.183 | |
| 2.99 | 2.99 | 7116.99 | 0.837 | 1.192 | |
| 3.00 | 3.00 | 7117.00 | 0.839 | 1.200 | |
| 3.01 | 3.01 | 7117.01 | 0.841 | 1.208 | |
| 3.02 | 3.02 | 7117.02 | 0.842 | 1.217 | |
| 3.03 | 3.03 | 7117.03 | 0.844 | 1.225 | |
| 3.04 | 3.04 | 7117.04 | 0.846 | 1.234 | |
| 3.05 | 3.05 | 7117.05 | 0.848 | 1.242 | |
| 3.06 | 3.06 | 7117.06 | 0.850 | 1.250 | |

| 3.07 | 3.07 | 7031.07 | 1.439 | 2.760 | |
|--|--|---|---|--|--|
| | | | | + | |
| 3.08 | 3.08 | 7031.08 | 1.441 | 2.774 | |
| 3.09 | 3.09 | 7031.09 | 1.443 | 2.789 | |
| 3.10 | 3.10 | 7031.10 | 1.444 | 2.803 | |
| 3.11 | 3.11 | 7031.11 | 1.446 | 2.817 | |
| 3.12 | 3.12 | 7031.12 | 1.448 | 2.832 | |
| 3.13 | 3.13 | 7031.13 | 1.450 | 2.846 | |
| 3.14 | 3.14 | 7031.14 | 1.452 | 2.860 | |
| 3.15 | 3.15 | 7031.15 | 1.454 | 2.875 | |
| 3.16 | 3.16 | 7031.16 | 1.456 | 2.889 | |
| 3.17 | 3.17 | 7031.17 | 1.458 | 2.903 | |
| 3.18 | 3.18 | 7031.18 | 1.460 | 2.917 | |
| 3.19 | 3.19 | 7031.19 | 1.462 | 2.932 | |
| 3.20 | 3.20 | 7031.20 | 1.464 | 2.946 | |
| 3.21 | 3.21 | 7031.21 | 1.466 | 2.960 | |
| 3.22 | 3.22 | 7031.22 | 1.468 | 2.975 | |
| 3.23 | 3.23 | 7031.23 | 1.470 | 2.989 | |
| 3.24 | 3.24 | 7031.24 | 1.472 | 3.003 | |
| 3.25 | 3.25 | 7031.25 | 1.474 | 3.018 | |
| 3.26 | 3.26 | 7031.26 | 1.476 | 3.032 | |
| 3.27 | 3.27 | 7031.27 | 1.478 | 3.046 | |
| 3.28 | 3.28 | 7031.28 | 1.480 | 3.060 | |
| 3.29 | 3.29 | 7031.29 | 1.482 | 3.075 | |
| 3.30 | 3.30 | 7031.30 | 1.483 | 3.089 | |
| 3.31 | 2 24 | 7024 24 | 1 100 | 2 102 | |
| | 3.31 | 7031.31 | 1.485 | 3.103 | |
| 3.32 | 3.31 | 7031.31 | 1.485 | 3.118 | |
| | 1 | | | | |
| 3.32 3.33 3.34 | 3.32 3.33 3.34 | 7031.32 7031.33 7031.34 | 1.487 1.489 1.491 | 3.118 3.132 3.146 | |
| 3.32 3.33 | 3.32 3.33 | 7031.32 7031.33 | 1.487 1.489 | 3.118 3.132 | |
| 3.32 3.33 3.34 3.35 3.36 | 3.32 3.33 3.34 3.35 3.36 | 7031.32 7031.33 7031.34 | 1.487 1.489 1.491 1.493 1.495 | 3.118 3.132 3.146 | |
| 3.32 3.33 3.34 3.35 | 3.32 3.33 3.34 3.35 | 7031.32 7031.33 7031.34 7031.35 | 1.487 1.489 1.491 1.493 | 3.118 3.132 3.146 3.161 | |
| 3.32 3.33 3.34 3.35 3.36 | 3.32 3.33 3.34 3.35 3.36 | 7031.32 7031.33 7031.34 7031.35 7031.36 | 1.487 1.489 1.491 1.493 1.495 | 3.118 3.132 3.146 3.161 3.175 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 | 3.32 3.33 3.34 3.35 3.36 3.37 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.39 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.39 7031.40 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.39 7031.40 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.39 7031.40 7031.41 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.39 7031.40 7031.41 7031.42 7031.43 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.40 7031.41 7031.42 7031.43 7031.44 | 1.487 1.489 1.491 1.493 1.495 1.497 1.501 1.503 1.505 1.507 1.509 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.44 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.40 7031.41 7031.42 7031.43 7031.44 7031.44 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507 1.509 1.511 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289 3.304 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.44 3.45 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.39 7031.40 7031.41 7031.42 7031.43 7031.44 7031.45 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507 1.509 1.511 1.513 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289 3.304 3.318 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.39 7031.40 7031.41 7031.42 7031.43 7031.44 7031.45 7031.46 7031.47 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507 1.511 1.513 1.515 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289 3.304 3.318 3.332 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47 3.48 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47 3.48 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.40 7031.41 7031.42 7031.43 7031.44 7031.45 7031.46 7031.47 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507 1.511 1.513 1.515 1.517 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289 3.304 3.318 3.332 3.346 | |
| 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47 3.48 3.49 | 3.32 3.33 3.34 3.35 3.36 3.37 3.38 3.39 3.40 3.41 3.42 3.43 3.44 3.45 3.46 3.47 3.48 3.49 | 7031.32 7031.33 7031.34 7031.35 7031.36 7031.37 7031.38 7031.39 7031.40 7031.41 7031.42 7031.43 7031.45 7031.46 7031.47 7031.48 7031.49 | 1.487 1.489 1.491 1.493 1.495 1.497 1.499 1.501 1.503 1.505 1.507 1.509 1.511 1.513 1.515 1.517 1.519 | 3.118 3.132 3.146 3.161 3.175 3.189 3.203 3.218 3.232 3.246 3.261 3.275 3.289 3.304 3.318 3.332 3.346 3.361 | |

| | | | i e | i T | |
|------|------|---------|-------|-------|----------|
| 3.07 | 3.07 | 7117.07 | 0.851 | 1.259 | |
| 3.08 | 3.08 | 7117.08 | 0.853 | 1.267 | <u> </u> |
| 3.09 | 3.09 | 7117.09 | 0.855 | 1.276 | 1 |
| 3.10 | 3.10 | 7117.10 | 0.857 | 1.284 | |
| 3.11 | 3.11 | 7117.11 | 0.858 | 1.292 | |
| 3.12 | 3.12 | 7117.12 | 0.860 | 1.301 | |
| 3.13 | 3.13 | 7117.13 | 0.862 | 1.309 | |
| 3.14 | 3.14 | 7117.14 | 0.864 | 1.318 | |
| 3.15 | 3.15 | 7117.15 | 0.865 | 1.326 | |
| 3.16 | 3.16 | 7117.16 | 0.867 | 1.334 | |
| 3.17 | 3.17 | 7117.17 | 0.869 | 1.343 | |
| 3.18 | 3.18 | 7117.18 | 0.871 | 1.351 | |
| 3.19 | 3.19 | 7117.19 | 0.873 | 1.360 | |
| 3.20 | 3.20 | 7117.20 | 0.874 | 1.368 | |
| 3.21 | 3.21 | 7117.21 | 0.876 | 1.376 | |
| 3.22 | 3.22 | 7117.22 | 0.878 | 1.385 | |
| 3.23 | 3.23 | 7117.23 | 0.880 | 1.393 | |
| 3.24 | 3.24 | 7117.24 | 0.881 | 1.402 | |
| 3.25 | 3.25 | 7117.25 | 0.883 | 1.410 | |
| 3.26 | 3.26 | 7117.26 | 0.885 | 1.418 | |
| 3.27 | 3.27 | 7117.27 | 0.887 | 1.427 | |
| 3.28 | 3.28 | 7117.28 | 0.888 | 1.435 | |
| 3.29 | 3.29 | 7117.29 | 0.890 | 1.444 | |
| 3.30 | 3.30 | 7117.30 | 0.892 | 1.452 | |
| 3.31 | 3.31 | 7117.31 | 0.894 | 1.460 | |
| 3.32 | 3.32 | 7117.32 | 0.896 | 1.469 | |
| 3.33 | 3.33 | 7117.33 | 0.897 | 1.477 | |
| 3.34 | 3.34 | 7117.34 | 0.899 | 1.486 | |
| 3.35 | 3.35 | 7117.35 | 0.901 | 1.494 | |
| 3.36 | 3.36 | 7117.36 | 0.903 | 1.502 | |
| 3.37 | 3.37 | 7117.37 | 0.904 | 1.511 | |
| 3.38 | 3.38 | 7117.38 | 0.906 | 1.519 | |
| 3.39 | 3.39 | 7117.39 | 0.908 | 1.528 | |
| 3.40 | 3.40 | 7117.40 | 0.910 | 1.536 | |
| 3.41 | 3.41 | 7117.41 | 0.911 | 1.544 | |
| 3.42 | 3.42 | 7117.42 | 0.913 | 1.553 | <u> </u> |
| 3.43 | 3.43 | 7117.43 | 0.915 | 1.561 | |
| 3.44 | 3.44 | 7117.44 | 0.917 | 1.570 | |
| 3.45 | 3.45 | 7117.45 | 0.919 | 1.578 | |
| 3.46 | 3.46 | 7117.46 | 0.920 | 1.586 | |
| 3.47 | 3.47 | 7117.47 | 0.922 | 1.595 | |
| 3.48 | 3.48 | 7117.48 | 0.924 | 1.603 | |
| 3.49 | 3.49 | 7117.49 | 0.926 | 1.612 | |
| 3.50 | 3.50 | 7117.50 | 0.927 | 1.620 | |
| 3.51 | 3.51 | 7117.51 | 0.929 | 1.628 | |
| 3.52 | 3.52 | 7117.52 | 0.931 | 1.637 | |

| 3.53 | 3.53 | 7031.53 | 1.528 | 3.418 | |
|------|---------------------|---------------------------|-----------------------|-----------------------|--|
| 3.54 | 3.54 | 7031.54 | 1.530 | 3.432 | |
| 3.55 | 3.55 | 7031.55 | 1.532 | 3.447 | |
| 3.56 | 3.56 | 7031.56 | 1.534 | 3.461 | |
| 3.57 | 3.57 | 7031.57 | 1.536 | 3.475 | |
| 3.58 | 3.58 | 7031.57 | 1.538 | 3.489 | |
| 3.59 | 3.59 | 7031.50 | 1.540 | 3.504 | |
| 3.60 | 3.60 | 7031.60 | 1.542 | 3.518 | |
| 3.61 | 3.61 | 7031.61 | 1.544 | 3.532 | |
| 3.62 | 3.62 | 7031.62 | 1.546 | 3.547 | |
| 3.63 | 3.63 | 7031.63 | 1.548 | 3.561 | |
| 3.64 | 3.64 | 7031.64 | 1.550 | 3.575 | |
| 3.65 | 3.65 | 7031.65 | 1.552 | 3.590 | |
| 3.66 | 3.66 | 7031.66 | 1.554 | 3.604 | |
| 3.67 | 3.67 | 7031.67 | 1.556 | | |
| 3.68 | 3.68 | 7031.67 | 1.558 | 3.618 3.632 | |
| 3.69 | | | | | |
| 3.70 | 3.69 3.70 | 7031.69 7031.70 | 1.560 1.561 | 3.647 3.661 | |
| | + | | | | |
| 3.71 | 3.71 | 7031.71 | 1.563 | 3.675 | |
| 3.72 | 3.72 | 7031.72 | 1.565 | 3.690 | |
| 3.73 | 3.73 | 7031.73 | 1.567 | 3.704 | |
| 3.74 | 3.74 | 7031.74 | 1.569 | 3.718 | |
| 3.75 | 3.75 | 7031.75 | 1.571 | 3.733 | |
| 3.76 | 3.76 | 7031.76 | 1.573 | 3.747 | |
| 3.77 | 3.77 | 7031.77 | 1.575 | 3.761 | |
| 3.78 | 3.78 | 7031.78 | 1.577 | 3.775 | |
| 3.79 | 3.79 | 7031.79 | 1.579 | 3.790 | |
| 3.80 | 3.80 | 7031.80 | 1.581 | 3.804 | |
| 3.81 | 3.81 | 7031.81 | 1.583 | 3.818 | |
| 3.82 | 3.82 | 7031.82 | 1.585 | 3.833 | |
| 3.83 | 3.83 | 7031.83 | 1.587 | 3.847 | |
| 3.84 | 3.84 | 7031.84 | 1.589 | 3.861 | |
| 3.85 | 3.85 | 7031.85 | 1.591 | 3.876 | |
| 3.86 | 3.86 | 7031.86 | 1.593 | 3.890 | |
| 3.87 | 3.87 | 7031.87 | 1.595 | 3.904 | |
| 3.88 | 3.88 | 7031.88 | 1.597 | 3.918 | |
| 3.89 | 3.89 | 7031.89 | 1.599 | 3.933 | |
| 3.90 | 3.90 | 7031.90 | 1.600 | 3.947 | |
| 3.91 | 3.91 | 7031.91 | 1.602 | 3.961 | |
| 3.92 | 3.92 | 7031.92 | 1.604 | 3.976 | |
| 3.93 | 3.93 | 7031.93 | 1.606 | 3.990 | |
| 3.94 | 3.94 | 7031.94 | 1.608 | 4.004 | |
| 3.95 | 3.95 | 7031.95 | 1.610 | 4.019 | |
| 3.96 | 3.96 | 7031.96 | 1.612 | 4.033 | |
| 3.97 | 3.97 | 7031.97 | 1.614 | 4.047 | |
| 3.98 | 3.98 | 7031.98 | 1.616 | 4.061 | |

| | | | • | | |
|------|------|---------|-------|-------|--|
| 3.53 | 3.53 | 7117.53 | 0.933 | 1.645 | |
| 3.54 | 3.54 | 7117.54 | 0.934 | 1.654 | |
| 3.55 | 3.55 | 7117.55 | 0.936 | 1.662 | |
| 3.56 | 3.56 | 7117.56 | 0.938 | 1.670 | |
| 3.57 | 3.57 | 7117.57 | 0.940 | 1.679 | |
| 3.58 | 3.58 | 7117.58 | 0.942 | 1.687 | |
| 3.59 | 3.59 | 7117.59 | 0.943 | 1.696 | |
| 3.60 | 3.60 | 7117.60 | 0.945 | 1.704 | |
| 3.61 | 3.61 | 7117.61 | 0.947 | 1.712 | |
| 3.62 | 3.62 | 7117.62 | 0.949 | 1.721 | |
| 3.63 | 3.63 | 7117.63 | 0.950 | 1.729 | |
| 3.64 | 3.64 | 7117.64 | 0.952 | 1.738 | |
| 3.65 | 3.65 | 7117.65 | 0.954 | 1.746 | |
| 3.66 | 3.66 | 7117.66 | 0.956 | 1.754 | |
| 3.67 | 3.67 | 7117.67 | 0.957 | 1.763 | |
| 3.68 | 3.68 | 7117.68 | 0.959 | 1.771 | |
| 3.69 | 3.69 | 7117.69 | 0.961 | 1.780 | |
| 3.70 | 3.70 | 7117.70 | 0.963 | 1.788 | |
| 3.71 | 3.71 | 7117.71 | 0.965 | 1.796 | |
| 3.72 | 3.72 | 7117.72 | 0.966 | 1.805 | |
| 3.73 | 3.73 | 7117.73 | 0.968 | 1.813 | |
| 3.74 | 3.74 | 7117.74 | 0.970 | 1.822 | |
| 3.75 | 3.75 | 7117.75 | 0.972 | 1.830 | |
| 3.76 | 3.76 | 7117.76 | 0.973 | 1.838 | |
| 3.77 | 3.77 | 7117.77 | 0.975 | 1.847 | |
| 3.78 | 3.78 | 7117.78 | 0.977 | 1.855 | |
| 3.79 | 3.79 | 7117.79 | 0.979 | 1.864 | |
| 3.80 | 3.80 | 7117.80 | 0.980 | 1.872 | |
| 3.81 | 3.81 | 7117.81 | 0.982 | 1.880 | |
| 3.82 | 3.82 | 7117.82 | 0.984 | 1.889 | |
| 3.83 | 3.83 | 7117.83 | 0.986 | 1.897 | |
| 3.84 | 3.84 | 7117.84 | 0.988 | 1.906 | |
| 3.85 | 3.85 | 7117.85 | 0.989 | 1.914 | |
| 3.86 | 3.86 | 7117.86 | 0.991 | 1.922 | |
| 3.87 | 3.87 | 7117.87 | 0.993 | 1.931 | |
| 3.88 | 3.88 | 7117.88 | 0.995 | 1.939 | |
| 3.89 | 3.89 | 7117.89 | 0.996 | 1.948 | |
| 3.90 | 3.90 | 7117.90 | 0.998 | 1.956 | |
| 3.91 | 3.91 | 7117.91 | 1.000 | 1.964 | |
| 3.92 | 3.92 | 7117.92 | 1.002 | 1.973 | |
| 3.93 | 3.93 | 7117.93 | 1.004 | 1.981 | |
| 3.94 | 3.94 | 7117.94 | 1.005 | 1.990 | |
| 3.95 | 3.95 | 7117.95 | 1.007 | 1.998 | |
| 3.96 | 3.96 | 7117.96 | 1.009 | 2.006 | |
| 3.97 | 3.97 | 7117.97 | 1.011 | 2.015 | |
| 3.98 | 3.98 | 7117.98 | 1.012 | 2.023 | |

| 3.99 | 3.99 | 7031.99 | 1.618 | 4.076 | |
|------|------|---------|-------|-------|---|
| 4.00 | 4.00 | 7032.00 | 1.620 | 4.090 | |
| 4.01 | 4.01 | 7032.01 | 1.622 | 4.108 | |
| 4.02 | 4.02 | 7032.02 | 1.624 | 4.126 | |
| 4.03 | 4.03 | 7032.03 | 1.626 | 4.144 | |
| 4.04 | 4.04 | 7032.04 | 1.628 | 4.163 | |
| 4.05 | 4.05 | 7032.05 | 1.630 | 4.181 | |
| 4.06 | 4.06 | 7032.06 | 1.632 | 4.199 | |
| 4.07 | 4.07 | 7032.07 | 1.634 | 4.217 | |
| 4.08 | 4.08 | 7032.08 | 1.636 | 4.235 | |
| 4.09 | 4.09 | 7032.09 | 1.638 | 4.253 | |
| 4.10 | 4.10 | 7032.10 | 1.640 | 4.272 | |
| 4.11 | 4.11 | 7032.11 | 1.641 | 4.290 | |
| 4.12 | 4.12 | 7032.12 | 1.643 | 4.308 | |
| 4.13 | 4.13 | 7032.13 | 1.645 | 4.326 | |
| 4.14 | 4.14 | 7032.14 | 1.647 | 4.344 | |
| 4.15 | 4.15 | 7032.15 | 1.649 | 4.362 | |
| 4.16 | 4.16 | 7032.16 | 1.651 | 4.380 | |
| 4.17 | 4.17 | 7032.17 | 1.653 | 4.399 | |
| 4.18 | 4.18 | 7032.18 | 1.655 | 4.417 | |
| 4.19 | 4.19 | 7032.19 | 1.657 | 4.435 | |
| 4.20 | 4.20 | 7032.20 | 1.659 | 4.453 | |
| 4.21 | 4.21 | 7032.21 | 1.661 | 4.471 | |
| 4.22 | 4.22 | 7032.22 | 1.663 | 4.489 | |
| 4.23 | 4.23 | 7032.23 | 1.665 | 4.507 | |
| 4.24 | 4.24 | 7032.24 | 1.667 | 4.526 | |
| 4.25 | 4.25 | 7032.25 | 1.669 | 4.544 | |
| 4.26 | 4.26 | 7032.26 | 1.671 | 4.562 | |
| 4.27 | 4.27 | 7032.27 | 1.673 | 4.580 | |
| 4.28 | 4.28 | 7032.28 | 1.675 | 4.598 | |
| 4.29 | 4.29 | 7032.29 | 1.677 | 4.616 | |
| 4.30 | 4.30 | 7032.30 | 1.679 | 4.635 | |
| 4.31 | 4.31 | 7032.31 | 1.680 | 4.653 | |
| 4.32 | 4.32 | 7032.32 | 1.682 | 4.671 | |
| 4.33 | 4.33 | 7032.33 | 1.684 | 4.689 | |
| 4.34 | 4.34 | 7032.34 | 1.686 | 4.707 | |
| 4.35 | 4.35 | 7032.35 | 1.688 | 4.725 | |
| 4.36 | 4.36 | 7032.36 | 1.690 | 4.743 | |
| 4.37 | 4.37 | 7032.37 | 1.692 | 4.762 | |
| 4.38 | 4.38 | 7032.38 | 1.694 | 4.780 | |
| 4.39 | 4.39 | 7032.39 | 1.696 | 4.798 | |
| 4.40 | 4.40 | 7032.40 | 1.698 | 4.816 | |
| 4.41 | 4.41 | 7032.41 | 1.700 | 4.834 | |
| 4.42 | 4.42 | 7032.42 | 1.702 | 4.852 | |
| 4.43 | 4.43 | 7032.43 | 1.704 | 4.870 | |
| 4.44 | 4.44 | 7032.44 | 1.706 | 4.889 | · |

| 3.99 | 3.99 | 7117.99 | 1.014 | 2.032 | |
|------|------|---------|-------|-------|---|
| 4.00 | 4.00 | 7117.99 | 1.014 | 2.032 | |
| | | | | | |
| 4.01 | 4.01 | 7118.01 | 1.017 | 2.051 | _ |
| 4.02 | 4.02 | 7118.02 | 1.018 | 2.063 | |
| 4.03 | 4.03 | 7118.03 | 1.019 | 2.074 | |
| 4.04 | 4.04 | 7118.04 | 1.020 | 2.085 | |
| 4.05 | 4.05 | 7118.05 | 1.021 | 2.096 | |
| 4.06 | 4.06 | 7118.06 | 1.022 | 2.108 | |
| 4.07 | 4.07 | 7118.07 | 1.023 | 2.119 | |
| 4.08 | 4.08 | 7118.08 | 1.024 | 2.130 | |
| 4.09 | 4.09 | 7118.09 | 1.025 | 2.141 | |
| 4.10 | 4.10 | 7118.10 | 1.026 | 2.153 | |
| 4.11 | 4.11 | 7118.11 | 1.027 | 2.164 | |
| 4.12 | 4.12 | 7118.12 | 1.029 | 2.175 | |
| 4.13 | 4.13 | 7118.13 | 1.030 | 2.186 | |
| 4.14 | 4.14 | 7118.14 | 1.031 | 2.198 | |
| 4.15 | 4.15 | 7118.15 | 1.032 | 2.209 | |
| 4.16 | 4.16 | 7118.16 | 1.033 | 2.220 | |
| 4.17 | 4.17 | 7118.17 | 1.034 | 2.231 | |
| 4.18 | 4.18 | 7118.18 | 1.035 | 2.243 | |
| 4.19 | 4.19 | 7118.19 | 1.036 | 2.254 | |
| 4.20 | 4.20 | 7118.20 | 1.037 | 2.265 | |
| 4.21 | 4.21 | 7118.21 | 1.038 | 2.276 | |
| 4.22 | 4.22 | 7118.22 | 1.039 | 2.288 | |
| 4.23 | 4.23 | 7118.23 | 1.041 | 2.299 | |
| 4.24 | 4.24 | 7118.24 | 1.042 | 2.310 | |
| 4.25 | 4.25 | 7118.25 | 1.043 | 2.321 | |
| 4.26 | 4.26 | 7118.26 | 1.044 | 2.333 | |
| 4.27 | 4.27 | 7118.27 | 1.045 | 2.344 | |
| 4.28 | 4.28 | 7118.28 | 1.046 | 2.355 | |
| 4.29 | 4.29 | 7118.29 | 1.047 | 2.366 | |
| 4.30 | 4.30 | 7118.30 | 1.048 | 2.378 | |
| 4.31 | 4.31 | 7118.31 | 1.049 | 2.389 | |
| 4.32 | 4.32 | 7118.32 | 1.050 | 2.400 | |
| 4.33 | 4.33 | 7118.33 | 1.051 | 2.411 | |
| 4.34 | 4.34 | 7118.34 | 1.053 | 2.423 | |
| 4.35 | 4.35 | 7118.35 | 1.054 | 2.434 | |
| 4.36 | 4.36 | 7118.36 | 1.055 | 2.445 | |
| 4.37 | 4.37 | 7118.37 | 1.056 | 2.456 | |
| 4.38 | 4.38 | 7118.38 | 1.057 | 2.468 | |
| 4.39 | 4.39 | 7118.39 | 1.058 | 2.479 | |
| 4.40 | 4.40 | 7118.40 | 1.059 | 2.490 | |
| 4.41 | 4.41 | 7118.41 | 1.060 | 2.501 | |
| 4.42 | 4.42 | 7118.42 | 1.061 | 2.513 | |
| 4.43 | 4.43 | 7118.43 | 1.062 | 2.524 | |
| 4.44 | 4.44 | | | | |
| 4.44 | 4.44 | 7118.44 | 1.063 | 2.535 | |

| 4.45 | 4.45 | 7032.45 | 1.708 | 4.907 | |
|------|------|---------|-------|-------|--|
| 4.46 | 4.46 | 7032.46 | 1.710 | 4.925 | |
| 4.47 | 4.47 | 7032.47 | 1.712 | 4.943 | |
| 4.48 | 4.48 | 7032.48 | 1.714 | 4.961 | |
| 4.49 | 4.49 | 7032.49 | 1.716 | 4.979 | |
| 4.50 | 4.50 | 7032.50 | 1.717 | 4.998 | |
| 4.51 | 4.51 | 7032.51 | 1.719 | 5.016 | |
| 4.52 | 4.52 | 7032.52 | 1.721 | 5.034 | |
| 4.53 | 4.53 | 7032.53 | 1.723 | 5.052 | |
| 4.54 | 4.54 | 7032.54 | 1.725 | 5.070 | |
| 4.55 | 4.55 | 7032.55 | 1.727 | 5.088 | |
| 4.56 | 4.56 | 7032.56 | 1.729 | 5.106 | |
| 4.57 | 4.57 | 7032.57 | 1.731 | 5.125 | |
| 4.58 | 4.58 | 7032.58 | 1.733 | 5.143 | |
| 4.59 | 4.59 | 7032.59 | 1.735 | 5.161 | |
| 4.60 | 4.60 | 7032.60 | 1.737 | 5.179 | |
| 4.61 | 4.61 | 7032.61 | 1.739 | 5.197 | |
| 4.62 | 4.62 | 7032.62 | 1.741 | 5.215 | |
| 4.63 | 4.63 | 7032.63 | 1.743 | 5.233 | |
| 4.64 | 4.64 | 7032.64 | 1.745 | 5.252 | |
| 4.65 | 4.65 | 7032.65 | 1.747 | 5.270 | |
| 4.66 | 4.66 | 7032.66 | 1.749 | 5.288 | |
| 4.67 | 4.67 | 7032.67 | 1.751 | 5.306 | |
| 4.68 | 4.68 | 7032.68 | 1.753 | 5.324 | |
| 4.69 | 4.69 | 7032.69 | 1.755 | 5.342 | |
| 4.70 | 4.70 | 7032.70 | 1.756 | 5.361 | |
| 4.71 | 4.71 | 7032.71 | 1.758 | 5.379 | |
| 4.72 | 4.72 | 7032.72 | 1.760 | 5.397 | |
| 4.73 | 4.73 | 7032.73 | 1.762 | 5.415 | |
| 4.74 | 4.74 | 7032.74 | 1.764 | 5.433 | |
| 4.75 | 4.75 | 7032.75 | 1.766 | 5.451 | |
| 4.76 | 4.76 | 7032.76 | 1.768 | 5.469 | |
| 4.77 | 4.77 | 7032.77 | 1.770 | 5.488 | |
| 4.78 | 4.78 | 7032.78 | 1.772 | 5.506 | |
| 4.79 | 4.79 | 7032.79 | 1.774 | 5.524 | |
| 4.80 | 4.80 | 7032.80 | 1.776 | 5.542 | |
| 4.81 | 4.81 | 7032.81 | 1.778 | 5.560 | |
| 4.82 | 4.82 | 7032.82 | 1.780 | 5.578 | |
| 4.83 | 4.83 | 7032.83 | 1.782 | 5.596 | |
| 4.84 | 4.84 | 7032.84 | 1.784 | 5.615 | |
| 4.85 | 4.85 | 7032.85 | 1.786 | 5.633 | |
| 4.86 | 4.86 | 7032.86 | 1.788 | 5.651 | |
| 4.87 | 4.87 | 7032.87 | 1.790 | 5.669 | |
| 4.88 | 4.88 | 7032.88 | 1.792 | 5.687 | |
| 4.89 | 4.89 | 7032.89 | 1.794 | 5.705 | |
| 4.90 | 4.90 | 7032.90 | 1.795 | 5.724 | |

| 4.45 | 4.45 | 7118.45 | 1.065 | 2.546 | |
|------|------|---------|-------|-------|--|
| 4.46 | 4.46 | 7118.46 | 1.066 | 2.558 | |
| 4.47 | 4.47 | 7118.47 | 1.067 | 2.569 | |
| 4.48 | 4.48 | 7118.48 | 1.068 | 2.580 | |
| 4.49 | 4.49 | 7118.49 | 1.069 | 2.591 | |
| 4.50 | 4.50 | 7118.50 | 1.070 | 2.603 | |
| 4.51 | 4.51 | 7118.51 | 1.071 | 2.614 | |
| 4.52 | 4.52 | 7118.52 | 1.072 | 2.625 | |
| 4.53 | 4.53 | 7118.53 | 1.073 | 2.636 | |
| 4.54 | 4.54 | 7118.54 | 1.074 | 2.648 | |
| 4.55 | 4.55 | 7118.55 | 1.075 | 2.659 | |
| 4.56 | 4.56 | 7118.56 | 1.077 | 2.670 | |
| 4.57 | 4.57 | 7118.57 | 1.078 | 2.681 | |
| 4.58 | 4.58 | 7118.58 | 1.079 | 2.693 | |
| 4.59 | 4.59 | 7118.59 | 1.080 | 2.704 | |
| 4.60 | 4.60 | 7118.60 | 1.081 | 2.715 | |
| 4.61 | 4.61 | 7118.61 | 1.082 | 2.726 | |
| 4.62 | 4.62 | 7118.62 | 1.083 | 2.738 | |
| 4.63 | 4.63 | 7118.63 | 1.084 | 2.749 | |
| 4.64 | 4.64 | 7118.64 | 1.085 | 2.760 | |
| 4.65 | 4.65 | 7118.65 | 1.086 | 2.771 | |
| 4.66 | 4.66 | 7118.66 | 1.087 | 2.783 | |
| 4.67 | 4.67 | 7118.67 | 1.089 | 2.794 | |
| 4.68 | 4.68 | 7118.68 | 1.090 | 2.805 | |
| 4.69 | 4.69 | 7118.69 | 1.091 | 2.816 | |
| 4.70 | 4.70 | 7118.70 | 1.092 | 2.828 | |
| 4.71 | 4.71 | 7118.71 | 1.093 | 2.839 | |
| 4.72 | 4.72 | 7118.72 | 1.094 | 2.850 | |
| 4.73 | 4.73 | 7118.73 | 1.095 | 2.861 | |
| 4.74 | 4.74 | 7118.74 | 1.096 | 2.873 | |
| 4.75 | 4.75 | 7118.75 | 1.097 | 2.884 | |
| 4.76 | 4.76 | 7118.76 | 1.098 | 2.895 | |
| 4.77 | 4.77 | 7118.77 | 1.099 | 2.906 | |
| 4.78 | 4.78 | 7118.78 | 1.101 | 2.918 | |
| 4.79 | 4.79 | 7118.79 | 1.102 | 2.929 | |
| 4.80 | 4.80 | 7118.80 | 1.103 | 2.940 | |
| 4.81 | 4.81 | 7118.81 | 1.104 | 2.951 | |
| 4.82 | 4.82 | 7118.82 | 1.105 | 2.963 | |
| 4.83 | 4.83 | 7118.83 | 1.106 | 2.974 | |
| 4.84 | 4.84 | 7118.84 | 1.107 | 2.985 | |
| 4.85 | 4.85 | 7118.85 | 1.108 | 2.996 | |
| 4.86 | 4.86 | 7118.86 | 1.109 | 3.008 | |
| 4.87 | 4.87 | 7118.87 | 1.110 | 3.019 | |
| 4.88 | 4.88 | 7118.88 | 1.111 | 3.030 | |
| 4.89 | 4.89 | 7118.89 | 1.113 | 3.041 | |
| 4.90 | 4.90 | 7118.90 | 1.114 | 3.053 | |

| 4.91 | 4.91 | 7032.91 | 1.797 | 5.742 | 4.91 | 4.91 | 7118.91 | 1.115 | 3.064 | |
|------|------|---------|-------|-------|----------|------|---------|-------|-------|--|
| 4.92 | 4.92 | 7032.92 | 1.799 | 5.760 | 4.92 | 4.92 | 7118.92 | 1.116 | 3.075 | |
| 4.93 | 4.93 | 7032.93 | 1.801 | 5.778 | 4.93 | 4.93 | 7118.93 | 1.117 | 3.086 | |
| 4.94 | 4.94 | 7032.94 | 1.803 | 5.796 | 4.94 | 4.94 | 7118.94 | 1.118 | 3.098 | |
| 4.95 | 4.95 | 7032.95 | 1.805 | 5.814 | 4.95 | 4.95 | 7118.95 | 1.119 | 3.109 | |
| 4.96 | 4.96 | 7032.96 | 1.807 | 5.832 | 4.96 | 4.96 | 7118.96 | 1.120 | 3.120 | |
| 4.97 | 4.97 | 7032.97 | 1.809 | 5.851 | 4.97 | 4.97 | 7118.97 | 1.121 | 3.131 | |
| 4.98 | 4.98 | 7032.98 | 1.811 | 5.869 | 4.98 | 4.98 | 7118.98 | 1.122 | 3.143 | |
| 4.99 | 4.99 | 7032.99 | 1.813 | 5.887 | 4.99 | 4.99 | 7118.99 | 1.123 | 3.154 | |
| 5.00 | 5.00 | 7033.00 | 1.815 | 5.905 | 5.00 | 5.00 | 7119.00 | 1.125 | 3.165 | |
| 5.01 | 5.01 | 7033.01 | 1.817 | 5.923 | 5.01 | 5.01 | 7119.01 | 1.126 | 3.176 | |
| 5.02 | 5.02 | 7033.02 | 1.819 | 5.941 | 5.02 | 5.02 | 7119.02 | 1.127 | 3.188 | |
| 5.03 | 5.03 | 7033.03 | 1.821 | 5.959 | 5.03 | 5.03 | 7119.03 | 1.128 | 3.199 | |
| 5.04 | 5.04 | 7033.04 | 1.823 | 5.978 | 5.04 | 5.04 | 7119.04 | 1.129 | 3.210 | |
| 5.05 | 5.05 | 7033.05 | 1.825 | 5.996 | 5.05 | 5.05 | 7119.05 | 1.130 | 3.221 | |
| 5.06 | 5.06 | 7033.06 | 1.827 | 6.014 | 5.06 | 5.06 | 7119.06 | 1.131 | 3.233 | |
| 5.07 | 5.07 | 7033.07 | 1.829 | 6.032 | 5.07 | 5.07 | 7119.07 | 1.132 | 3.244 | |
| 5.08 | 5.08 | 7033.08 | 1.831 | 6.050 | 5.08 | 5.08 | 7119.08 | 1.133 | 3.255 | |
| 5.09 | 5.09 | 7033.09 | 1.833 | 6.068 | 5.09 | 5.09 | 7119.09 | 1.134 | 3.266 | |
| 5.10 | 5.10 | 7033.10 | 1.834 | 6.087 | 5.10 | 5.10 | 7119.10 | 1.135 | 3.278 | |
| 5.11 | 5.11 | 7033.11 | 1.836 | 6.105 | 5.11 | 5.11 | 7119.11 | 1.136 | 3.289 | |
| 5.12 | 5.12 | 7033.12 | 1.838 | 6.123 | 5.12 | 5.12 | 7119.12 | 1.138 | 3.300 | |
| 5.13 | 5.13 | 7033.13 | 1.840 | 6.141 | 5.13 | 5.13 | 7119.13 | 1.139 | 3.311 | |
| 5.14 | 5.14 | 7033.14 | 1.842 | 6.159 | 5.14 | 5.14 | 7119.14 | 1.140 | 3.323 | |
| 5.15 | 5.15 | 7033.15 | 1.844 | 6.177 | 5.15 | 5.15 | 7119.15 | 1.141 | 3.334 | |
| 5.16 | 5.16 | 7033.16 | 1.846 | 6.195 | 5.16 | 5.16 | 7119.16 | 1.142 | 3.345 | |
| 5.17 | 5.17 | 7033.17 | 1.848 | 6.214 | 5.17 | 5.17 | 7119.17 | 1.143 | 3.356 | |
| 5.18 | 5.18 | 7033.18 | 1.850 | 6.232 | 5.18 | 5.18 | 7119.18 | 1.144 | 3.368 | |
| 5.19 | 5.19 | 7033.19 | 1.852 | 6.250 | 5.19 | 5.19 | 7119.19 | 1.145 | 3.379 | |
| 5.20 | 5.20 | 7033.20 | 1.854 | 6.268 | 5.20 | 5.20 | 7119.20 | 1.146 | 3.390 | |
| 5.21 | 5.21 | 7033.21 | 1.856 | 6.286 | 5.21 | 5.21 | 7119.21 | 1.147 | 3.401 | |
| 5.22 | 5.22 | 7033.22 | 1.858 | 6.304 | 5.22 | 5.22 | 7119.22 | 1.148 | 3.413 | |
| 5.23 | 5.23 | 7033.23 | 1.860 | 6.322 | 5.23 | 5.23 | 7119.23 | 1.150 | 3.424 | |
| 5.24 | 5.24 | 7033.24 | 1.862 | 6.341 | 5.24 | 5.24 | 7119.24 | 1.151 | 3.435 | |
| 5.25 | 5.25 | 7033.25 | 1.864 | 6.359 | 5.25 | 5.25 | 7119.25 | 1.152 | 3.446 | |
| 5.26 | 5.26 | 7033.26 | 1.866 | 6.377 | 5.26 | 5.26 | 7119.26 | 1.153 | 3.458 | |
| 5.27 | 5.27 | 7033.27 | 1.868 | 6.395 | 5.27 | 5.27 | 7119.27 | 1.154 | 3.469 | |
| 5.28 | 5.28 | 7033.28 | 1.870 | 6.413 | 5.28 | 5.28 | 7119.28 | 1.155 | 3.480 | |
| 5.29 | 5.29 | 7033.29 | 1.872 | 6.431 | 5.29 | 5.29 | 7119.29 | 1.156 | 3.491 | |
| 5.30 | 5.30 | 7033.30 | 1.873 | 6.450 | 5.30 | 5.30 | 7119.30 | 1.157 | 3.503 | |
| 5.31 | 5.31 | 7033.31 | 1.875 | 6.468 | 5.31 | 5.31 | 7119.31 | 1.158 | 3.514 | |
| 5.32 | 5.32 | 7033.32 | 1.877 | 6.486 | 5.32 | 5.32 | 7119.32 | 1.159 | 3.525 | |
| 5.33 | 5.33 | 7033.33 | 1.879 | 6.504 | 5.33 | 5.33 | 7119.33 | 1.160 | 3.536 | |
| 5.34 | 5.34 | 7033.34 | 1.881 | 6.522 | 5.34 | 5.34 | 7119.34 | 1.162 | 3.548 | |
| 5.35 | 5.35 | 7033.35 | 1.883 | 6.540 | 5.35 | 5.35 | 7119.35 | 1.163 | 3.559 | |
| 5.36 | 5.36 | 7033.36 | 1.885 | 6.558 | 5.36 | 5.36 | 7119.36 | 1.164 | 3.570 | |

| 4.91 | 4.91 | 7118.91 | 1.115 | 3.064 | |
|------|------|---------|-------|-------|--|
| 4.92 | 4.92 | 7118.92 | 1.116 | 3.075 | |
| 4.93 | 4.93 | 7118.93 | 1.117 | 3.086 | |
| 4.94 | 4.94 | 7118.94 | 1.118 | 3.098 | |
| 4.95 | 4.95 | 7118.95 | 1.119 | 3.109 | |
| 4.96 | 4.96 | 7118.96 | 1.120 | 3.120 | |
| 4.97 | 4.97 | 7118.97 | 1.121 | 3.131 | |
| 4.98 | 4.98 | 7118.98 | 1.122 | 3.143 | |
| 4.99 | 4.99 | 7118.99 | 1.123 | 3.154 | |
| 5.00 | 5.00 | 7119.00 | 1.125 | 3.165 | |
| 5.01 | 5.01 | 7119.01 | 1.126 | 3.176 | |
| 5.02 | 5.02 | 7119.02 | 1.127 | 3.188 | |
| 5.03 | 5.03 | 7119.03 | 1.128 | 3.199 | |
| 5.04 | 5.04 | 7119.04 | 1.129 | 3.210 | |
| 5.05 | 5.05 | 7119.05 | 1.130 | 3.221 | |
| 5.06 | 5.06 | 7119.06 | 1.131 | 3.233 | |
| 5.07 | 5.07 | 7119.07 | 1.132 | 3.244 | |
| 5.08 | 5.08 | 7119.08 | 1.133 | 3.255 | |
| 5.09 | 5.09 | 7119.09 | 1.134 | 3.266 | |
| 5.10 | 5.10 | 7119.10 | 1.135 | 3.278 | |
| 5.11 | 5.11 | 7119.11 | 1.136 | 3.289 | |
| 5.12 | 5.12 | 7119.12 | 1.138 | 3.300 | |
| 5.13 | 5.13 | 7119.13 | 1.139 | 3.311 | |
| 5.14 | 5.14 | 7119.14 | 1.140 | 3.323 | |
| 5.15 | 5.15 | 7119.15 | 1.141 | 3.334 | |
| 5.16 | 5.16 | 7119.16 | 1.142 | 3.345 | |
| 5.17 | 5.17 | 7119.17 | 1.143 | 3.356 | |
| 5.18 | 5.18 | 7119.18 | 1.144 | 3.368 | |
| 5.19 | 5.19 | 7119.19 | 1.145 | 3.379 | |
| 5.20 | 5.20 | 7119.20 | 1.146 | 3.390 | |
| 5.21 | 5.21 | 7119.21 | 1.147 | 3.401 | |
| 5.22 | 5.22 | 7119.22 | 1.148 | 3.413 | |
| 5.23 | 5.23 | 7119.23 | 1.150 | 3.424 | |
| 5.24 | 5.24 | 7119.24 | 1.151 | 3.435 | |
| 5.25 | 5.25 | 7119.25 | 1.152 | 3.446 | |
| 5.26 | 5.26 | 7119.26 | 1.153 | 3.458 | |
| 5.27 | 5.27 | 7119.27 | 1.154 | 3.469 | |
| 5.28 | 5.28 | 7119.28 | 1.155 | 3.480 | |
| 5.29 | 5.29 | 7119.29 | 1.156 | 3.491 | |
| 5.30 | 5.30 | 7119.30 | 1.157 | 3.503 | |
| 5.31 | 5.31 | 7119.31 | 1.158 | 3.514 | |
| 5.32 | 5.32 | 7119.32 | 1.159 | 3.525 | |
| 5.33 | 5.33 | 7119.33 | 1.160 | 3.536 | |
| 5.34 | 5.34 | 7119.34 | 1.162 | 3.548 | |
| 5.35 | 5.35 | 7119.35 | 1.163 | 3.559 | |
| 5.36 | 5.36 | 7119.36 | 1.164 | 3.570 | |

| 5.37 | 5.37 | 7033.37 | 1.887 | 6.577 | |
|---|---|--|--|---|--|
| 5.38 | 5.38 | 7033.37 | 1.889 | 6.595 | |
| 5.39 | 5.39 | 7033.39 | 1.891 | 6.613 | |
| 5.40 | 5.40 | 7033.40 | 1.893 | 6.631 | |
| 5.41 | 5.41 | 7033.41 | 1.895 | 6.649 | |
| 5.42 | 5.42 | 7033.42 | 1.897 | 6.667 | |
| 5.43 | 5.43 | 7033.43 | 1.899 | 6.685 | |
| 5.44 | 5.44 | 7033.44 | 1.901 | 6.704 | |
| 5.45 | 5.45 | 7033.45 | 1.903 | 6.722 | |
| 5.46 | 5.46 | 7033.46 | 1.905 | 6.740 | |
| 5.47 | 5.47 | 7033.47 | 1.907 | 6.758 | |
| 5.48 | 5.48 | 7033.47 | 1.909 | 6.776 | |
| 5.49 | 5.49 | 7033.49 | 1.911 | 6.794 | |
| 5.50 | 5.50 | 7033.50 | 1.912 | 6.813 | |
| 5.51 | 5.51 | 7033.51 | 1.914 | 6.831 | |
| 5.52 | 5.52 | 7033.51 | 1.916 | 6.849 | |
| 5.53 | 5.53 | 7033.52 | 1.918 | 6.867 | |
| 5.54 | 5.54 | 7033.54 | 1.920 | 6.885 | |
| 5.55 | 5.55 | 7033.55 | 1.922 | 6.903 | |
| 5.56 | 5.56 | 7033.56 | 1.924 | 6.921 | |
| 5.57 | 5.57 | 7033.57 | 1.926 | 6.940 | |
| 5.58 | 5.58 | 7033.57 | 1.928 | 6.958 | |
| 5.59 | 5.59 | 7033.50 | 1.930 | 6.976 | |
| 5.60 | 5.60 | 7033.60 | 1.932 | 6.994 | |
| 5.61 | 5.61 | 7033.61 | 1.934 | 7.012 | |
| 5.62 | 5.62 | 7033.62 | 1.936 | 7.030 | |
| 5.63 | 5.63 | 7033.63 | 1.938 | 7.048 | |
| 5.64 | 5.64 | 7033.64 | 1.940 | 7.067 | |
| 5.65 | 5.65 | 7033.65 | 1.942 | 7.085 | |
| 5.66 | 5.66 | 7033.66 | 1.944 | 7.103 | |
| 5.67 | 5.67 | 7033.67 | 1.946 | 7.121 | |
| 5.68 | 5.68 | 7033.68 | 1.948 | 7.139 | |
| 5.69 | 5.69 | 7033.69 | 1.950 | 7.157 | |
| 5.70 | | 7022 70 | | | |
| F 74 | 5.70 | 7033.70 | 1.951 | 7.176 | |
| 5.71 | 5.70 | 7033.70 | 1.951 1.953 | 7.176 7.194 | |
| 5.71 | | | | | |
| _ | 5.71 | 7033.71 | 1.953 | 7.194 | |
| 5.72 | 5.71 5.72 | 7033.71 7033.72 | 1.953 1.955 | 7.194 7.212 | |
| 5.72 5.73 | 5.71 5.72 5.73 | 7033.71 7033.72 7033.73 | 1.953 1.955 1.957 | 7.194 7.212 7.230 | |
| 5.72 5.73 5.74 | 5.71 5.72 5.73 5.74 | 7033.71 7033.72 7033.73 7033.74 | 1.953 1.955 1.957 1.959 | 7.194 7.212 7.230 7.248 | |
| 5.72 5.73 5.74 5.75 | 5.71 5.72 5.73 5.74 5.75 | 7033.71 7033.72 7033.73 7033.74 7033.75 | 1.953 1.955 1.957 1.959 1.961 | 7.194 7.212 7.230 7.248 7.266 | |
| 5.72 5.73 5.74 5.75 5.76 | 5.71 5.72 5.73 5.74 5.75 5.76 | 7033.71 7033.72 7033.73 7033.74 7033.75 7033.76 | 1.953 1.955 1.957 1.959 1.961 1.963 | 7.194 7.212 7.230 7.248 7.266 7.284 | |
| 5.72 5.73 5.74 5.75 5.76 5.77 | 5.71 5.72 5.73 5.74 5.75 5.76 5.77 | 7033.71 7033.72 7033.73 7033.74 7033.75 7033.76 7033.77 | 1.953 1.955 1.957 1.959 1.961 1.963 1.965 | 7.194 7.212 7.230 7.248 7.266 7.284 7.303 | |
| 5.72 5.73 5.74 5.75 5.76 5.77 5.78 | 5.71 5.72 5.73 5.74 5.75 5.76 5.77 5.78 | 7033.71 7033.72 7033.73 7033.74 7033.75 7033.76 7033.77 7033.78 | 1.953 1.955 1.957 1.959 1.961 1.963 1.965 1.967 | 7.194 7.212 7.230 7.248 7.266 7.284 7.303 7.321 | |
| 5.72 5.73 5.74 5.75 5.76 5.77 5.78 5.79 | 5.71 5.72 5.73 5.74 5.75 5.76 5.77 5.78 5.79 | 7033.71 7033.72 7033.73 7033.74 7033.75 7033.76 7033.77 7033.78 7033.79 | 1.953 1.955 1.957 1.959 1.961 1.963 1.965 1.967 | 7.194 7.212 7.230 7.248 7.266 7.284 7.303 7.321 7.339 | |

| 5.37 | 5.37 | 7119.37 | 1.165 | 3.581 | |
|---------------------|---------------------|---------------------------|-----------------------|-----------------------|--|
| 5.38 | 5.38 | 7119.37 | 1.166 | 3.593 | |
| - | | | | - | |
| 5.39 5.40 | 5.39 5.40 | 7119.39 7119.40 | 1.167 1.168 | 3.604 3.615 | |
| 5.41 | 5.41 | | | - | |
| + | | 7119.41 | 1.169 | 3.626 | |
| 5.42 | 5.42 | 7119.42 | 1.170 | 3.638 | |
| 5.43 5.44 | 5.43 5.44 | 7119.43 | 1.171 | 3.649 | |
| 5.44 5.45 | 5.44 | 7119.44 7119.45 | 1.172 1.174 | 3.660 3.671 | |
| - | | | | - | |
| 5.46 | 5.46 | 7119.46 | 1.175 | 3.683 | |
| 5.47 | 5.47 | 7119.47 | 1.176 | 3.694 | |
| 5.48 | 5.48 | 7119.48 | 1.177 | 3.705 | |
| 5.49 5.50 | 5.49 5.50 | 7119.49 | 1.178 1.179 | 3.716 3.728 | |
| + | | 7119.50 | | | |
| 5.51 | 5.51 | 7119.51 | 1.180 | 3.739 | |
| 5.52 | 5.52 | 7119.52 | 1.181 | 3.750 | |
| 5.53 | 5.53 | 7119.53 | 1.182 | 3.761 | |
| 5.54 | 5.54 | 7119.54 | 1.183 | 3.773 | |
| 5.55 | 5.55 | 7119.55 | 1.184 | 3.784 | |
| 5.56 | 5.56 | 7119.56 | 1.186 | 3.795 | |
| 5.57 | 5.57 | 7119.57 | 1.187 | 3.806 | |
| 5.58 | 5.58 | 7119.58 | 1.188 | 3.818 | |
| 5.59 | 5.59 | 7119.59 | 1.189 | 3.829 | |
| 5.60 | 5.60 | 7119.60 | 1.190 | 3.840 | |
| 5.61 | 5.61 | 7119.61 | 1.191 | 3.851 | |
| 5.62 | 5.62 | 7119.62 | 1.192 | 3.863 | |
| 5.63 | 5.63 | 7119.63 | 1.193 | 3.874 | |
| 5.64 | 5.64 | 7119.64 | 1.194 | 3.885 | |
| 5.65 | 5.65 | 7119.65 | 1.195 | 3.896 | |
| 5.66 | 5.66 | 7119.66 | 1.196 | 3.908 | |
| 5.67 | 5.67 | 7119.67 | 1.198 | 3.919 | |
| 5.68 | 5.68 | 7119.68 | 1.199 | 3.930 | |
| 5.69 | 5.69 | 7119.69 | 1.200 | 3.941 | |
| 5.70 | 5.70 | 7119.70 | 1.201 | 3.953 | |
| 5.71 | 5.71 | 7119.71 | 1.202 | 3.964 | |
| 5.72 | 5.72 | 7119.72 | 1.203 | 3.975 | |
| 5.73 | 5.73 | 7119.73 | 1.204 | 3.986 | |
| 5.74 | 5.74 | 7119.74 | 1.205 | 3.998 | |
| 5.75 | 5.75 | 7119.75 | 1.206 | 4.009 | |
| 5.76 | 5.76 | 7119.76 | 1.207 | 4.020 | |
| 5.77 | 5.77 | 7119.77 | 1.208 | 4.031 | |
| 5.78 | 5.78 | 7119.78 | 1.210 | 4.043 | |
| 5.79 | 5.79 | 7119.79 | 1.211 | 4.054 | |
| 5.80 | 5.80 | 7119.80 | 1.212 | 4.065 | |
| 5.81 | 5.81 | 7119.81 | 1.213 | 4.076 | |
| 5.82 | 5.82 | 7119.82 | 1.214 | 4.088 | |

| 5.83 | 5.83 | 7033.83 | 1.977 | 7.411 | |
|------|------|---------|-------|-------|--|
| 5.84 | 5.84 | 7033.84 | 1.979 | 7.430 | |
| 5.85 | 5.85 | 7033.85 | 1.981 | 7.448 | |
| 5.86 | 5.86 | 7033.86 | 1.983 | 7.466 | |
| 5.87 | 5.87 | 7033.87 | 1.985 | 7.484 | |
| 5.88 | 5.88 | 7033.88 | 1.987 | 7.502 | |
| 5.89 | 5.89 | 7033.89 | 1.989 | 7.520 | |
| 5.90 | 5.90 | 7033.90 | 1.990 | 7.539 | |
| 5.91 | 5.91 | 7033.91 | 1.992 | 7.557 | |
| 5.92 | 5.92 | 7033.92 | 1.994 | 7.575 | |
| 5.93 | 5.93 | 7033.93 | 1.996 | 7.593 | |
| 5.94 | 5.94 | 7033.94 | 1.998 | 7.611 | |
| 5.95 | 5.95 | 7033.95 | 2.000 | 7.629 | |
| 5.96 | 5.96 | 7033.96 | 2.002 | 7.647 | |
| 5.97 | 5.97 | 7033.97 | 2.004 | 7.666 | |
| 5.98 | 5.98 | 7033.98 | 2.006 | 7.684 | |
| 5.99 | 5.99 | 7033.99 | 2.008 | 7.702 | |
| 6.00 | 6.00 | 7034.00 | 2.010 | 7.720 | |
| 6.01 | 6.01 | 7034.01 | 2.013 | 7.743 | |
| 6.02 | 6.02 | 7034.02 | 2.015 | 7.765 | |
| 6.03 | 6.03 | 7034.03 | 2.018 | 7.788 | |
| 6.04 | 6.04 | 7034.04 | 2.020 | 7.811 | |
| 6.05 | 6.05 | 7034.05 | 2.023 | 7.833 | |
| 6.06 | 6.06 | 7034.06 | 2.025 | 7.856 | |
| 6.07 | 6.07 | 7034.07 | 2.028 | 7.879 | |
| 6.08 | 6.08 | 7034.08 | 2.030 | 7.901 | |
| 6.09 | 6.09 | 7034.09 | 2.033 | 7.924 | |
| 6.10 | 6.10 | 7034.10 | 2.035 | 7.947 | |
| 6.11 | 6.11 | 7034.11 | 2.038 | 7.969 | |
| 6.12 | 6.12 | 7034.12 | 2.040 | 7.992 | |
| 6.13 | 6.13 | 7034.13 | 2.043 | 8.014 | |
| 6.14 | 6.14 | 7034.14 | 2.045 | 8.037 | |
| 6.15 | 6.15 | 7034.15 | 2.048 | 8.060 | |
| 6.16 | 6.16 | 7034.16 | 2.050 | 8.082 | |
| 6.17 | 6.17 | 7034.17 | 2.053 | 8.105 | |
| 6.18 | 6.18 | 7034.18 | 2.056 | 8.128 | |
| 6.19 | 6.19 | 7034.19 | 2.058 | 8.150 | |
| 6.20 | 6.20 | 7034.20 | 2.061 | 8.173 | |
| 6.21 | 6.21 | 7034.21 | 2.063 | 8.196 | |
| 6.22 | 6.22 | 7034.22 | 2.066 | 8.218 | |
| 6.23 | 6.23 | 7034.23 | 2.068 | 8.241 | |
| 6.24 | 6.24 | 7034.24 | 2.071 | 8.264 | |
| 6.25 | 6.25 | 7034.25 | 2.073 | 8.286 | |
| 6.26 | 6.26 | 7034.26 | 2.076 | 8.309 | |
| 6.27 | 6.27 | 7034.27 | 2.078 | 8.332 | |
| 6.28 | 6.28 | 7034.28 | 2.081 | 8.354 | |

| 5.83 | 5.83 | 7119.83 | 1.215 | 4.099 | |
|------|------|---------|-------|-------|----------------|
| 5.84 | 5.84 | 7119.84 | 1.216 | 4.110 | |
| 5.85 | 5.85 | 7119.85 | 1.217 | 4.110 | |
| 5.86 | 5.86 | 7119.86 | 1.218 | 4.133 | |
| 5.87 | 5.87 | 7119.87 | 1.219 | 4.144 | |
| 5.88 | 5.88 | 7119.88 | 1.220 | 4.155 | |
| 5.89 | 5.89 | 7119.89 | 1.222 | 4.166 | |
| 5.90 | 5.90 | 7119.90 | 1.223 | 4.178 | |
| 5.91 | 5.91 | 7119.91 | 1.224 | 4.189 | |
| 5.92 | 5.92 | 7119.92 | 1.225 | 4.200 | |
| 5.93 | 5.93 | 7119.93 | 1.226 | 4.211 | |
| 5.94 | 5.94 | 7119.94 | 1.227 | 4.223 | |
| 5.95 | 5.95 | 7119.95 | 1.228 | 4.234 | |
| 5.96 | 5.96 | 7119.96 | 1.229 | 4.245 | |
| 5.97 | 5.97 | 7119.97 | 1.230 | 4.256 | |
| 5.98 | 5.98 | 7119.98 | 1.231 | 4.268 | |
| 5.99 | 5.99 | 7119.99 | 1.232 | 4.279 | |
| 6.00 | 6.00 | 7120.00 | 1.234 | 4.290 | Spillway / NWS |
| 6.01 | 6.01 | 7120.01 | 1.235 | 4.302 | |
| 6.02 | 6.02 | 7120.02 | 1.237 | 4.315 | |
| 6.03 | 6.03 | 7120.03 | 1.239 | 4.327 | |
| 6.04 | 6.04 | 7120.04 | 1.241 | 4.339 | |
| 6.05 | 6.05 | 7120.05 | 1.243 | 4.352 | |
| 6.06 | 6.06 | 7120.06 | 1.245 | 4.364 | |
| 6.07 | 6.07 | 7120.07 | 1.246 | 4.376 | |
| 6.08 | 6.08 | 7120.08 | 1.248 | 4.389 | |
| 6.09 | 6.09 | 7120.09 | 1.250 | 4.401 | |
| 6.10 | 6.10 | 7120.10 | 1.252 | 4.414 | |
| 6.11 | 6.11 | 7120.11 | 1.254 | 4.426 | |
| 6.12 | 6.12 | 7120.12 | 1.256 | 4.438 | |
| 6.13 | 6.13 | 7120.13 | 1.257 | 4.451 | |
| 6.14 | 6.14 | 7120.14 | 1.259 | 4.463 | |
| 6.15 | 6.15 | 7120.15 | 1.261 | 4.475 | |
| 6.16 | 6.16 | 7120.16 | 1.263 | 4.488 | |
| 6.17 | 6.17 | 7120.17 | 1.265 | 4.500 | |
| 6.18 | 6.18 | 7120.18 | 1.267 | 4.512 | |
| 6.19 | 6.19 | 7120.19 | 1.268 | 4.525 | |
| 6.20 | 6.20 | 7120.20 | 1.270 | 4.537 | |
| 6.21 | 6.21 | 7120.21 | 1.272 | 4.549 | |
| 6.22 | 6.22 | 7120.22 | 1.274 | 4.562 | |
| 6.23 | 6.23 | 7120.23 | 1.276 | 4.574 | |
| 6.24 | 6.24 | 7120.24 | 1.278 | 4.586 | |
| 6.25 | 6.25 | 7120.25 | 1.280 | 4.599 | |
| 6.26 | 6.26 | 7120.26 | 1.281 | 4.611 | |
| 6.27 | 6.27 | 7120.27 | 1.283 | 4.623 | |
| 6.28 | 6.28 | 7120.28 | 1.285 | 4.636 | |

| 6.29 | 6.29 | 7034.29 | 2.083 | 8.377 | |
|------|------|---------|-------|-------|--|
| 6.30 | 6.30 | 7034.30 | 2.086 | 8.400 | |
| 6.31 | 6.31 | 7034.31 | 2.088 | 8.422 | |
| 6.32 | 6.32 | 7034.32 | 2.091 | 8.445 | |
| 6.33 | 6.33 | 7034.33 | 2.093 | 8.467 | |
| 6.34 | 6.34 | 7034.34 | 2.096 | 8.490 | |
| 6.35 | 6.35 | 7034.35 | 2.099 | 8.513 | |
| 6.36 | 6.36 | 7034.36 | 2.101 | 8.535 | |
| 6.37 | 6.37 | 7034.37 | 2.104 | 8.558 | |
| 6.38 | 6.38 | 7034.38 | 2.106 | 8.581 | |
| 6.39 | 6.39 | 7034.39 | 2.109 | 8.603 | |
| 6.40 | 6.40 | 7034.40 | 2.111 | 8.626 | |
| 6.41 | 6.41 | 7034.41 | 2.114 | 8.649 | |
| 6.42 | 6.42 | 7034.42 | 2.116 | 8.671 | |
| 6.43 | 6.43 | 7034.43 | 2.119 | 8.694 | |
| 6.44 | 6.44 | 7034.44 | 2.121 | 8.717 | |
| 6.45 | 6.45 | 7034.45 | 2.124 | 8.739 | |
| 6.46 | 6.46 | 7034.46 | 2.126 | 8.762 | |
| 6.47 | 6.47 | 7034.47 | 2.129 | 8.785 | |
| 6.48 | 6.48 | 7034.48 | 2.131 | 8.807 | |
| 6.49 | 6.49 | 7034.49 | 2.134 | 8.830 | |
| 6.50 | 6.50 | 7034.50 | 2.137 | 8.853 | |
| 6.51 | 6.51 | 7034.51 | 2.139 | 8.875 | |
| 6.52 | 6.52 | 7034.52 | 2.142 | 8.898 | |
| 6.53 | 6.53 | 7034.53 | 2.144 | 8.920 | |
| 6.54 | 6.54 | 7034.54 | 2.147 | 8.943 | |
| 6.55 | 6.55 | 7034.55 | 2.149 | 8.966 | |
| 6.56 | 6.56 | 7034.56 | 2.152 | 8.988 | |
| 6.57 | 6.57 | 7034.57 | 2.154 | 9.011 | |
| 6.58 | 6.58 | 7034.58 | 2.157 | 9.034 | |
| 6.59 | 6.59 | 7034.59 | 2.159 | 9.056 | |
| 6.60 | 6.60 | 7034.60 | 2.162 | 9.079 | |
| 6.61 | 6.61 | 7034.61 | 2.164 | 9.102 | |
| 6.62 | 6.62 | 7034.62 | 2.167 | 9.124 | |
| 6.63 | 6.63 | 7034.63 | 2.169 | 9.147 | |
| 6.64 | 6.64 | 7034.64 | 2.172 | 9.170 | |
| 6.65 | 6.65 | 7034.65 | 2.174 | 9.192 | |
| 6.66 | 6.66 | 7034.66 | 2.177 | 9.215 | |
| 6.67 | 6.67 | 7034.67 | 2.180 | 9.238 | |
| 6.68 | 6.68 | 7034.68 | 2.182 | 9.260 | |
| 6.69 | 6.69 | 7034.69 | 2.185 | 9.283 | |
| 6.70 | 6.70 | 7034.70 | 2.187 | 9.306 | |
| 6.71 | 6.71 | 7034.71 | 2.190 | 9.328 | |
| 6.72 | 6.72 | 7034.72 | 2.192 | 9.351 | |
| 6.73 | 6.73 | 7034.73 | 2.195 | 9.373 | |
| 6.74 | 6.74 | 7034.74 | 2.197 | 9.396 | |

| 6.29 | 6.29 | 7120.29 | 1.287 | 4.648 | |
|------|------|---------|-------|-------|--|
| 6.30 | 6.30 | 7120.30 | 1.289 | 4.661 | |
| 6.31 | 6.31 | 7120.31 | 1.291 | 4.673 | |
| 6.32 | 6.32 | 7120.32 | 1.292 | 4.685 | |
| 6.33 | 6.33 | 7120.33 | 1.294 | 4.698 | |
| 6.34 | 6.34 | 7120.34 | 1.296 | 4.710 | |
| 6.35 | 6.35 | 7120.35 | 1.298 | 4.722 | |
| 6.36 | 6.36 | 7120.36 | 1.300 | 4.735 | |
| 6.37 | 6.37 | 7120.37 | 1.302 | 4.747 | |
| 6.38 | 6.38 | 7120.38 | 1.303 | 4.759 | |
| 6.39 | 6.39 | 7120.39 | 1.305 | 4.772 | |
| 6.40 | 6.40 | 7120.40 | 1.307 | 4.784 | |
| 6.41 | 6.41 | 7120.41 | 1.309 | 4.796 | |
| 6.42 | 6.42 | 7120.42 | 1.311 | 4.809 | |
| 6.43 | 6.43 | 7120.43 | 1.313 | 4.821 | |
| 6.44 | 6.44 | 7120.44 | 1.314 | 4.833 | |
| 6.45 | 6.45 | 7120.45 | 1.316 | 4.846 | |
| 6.46 | 6.46 | 7120.46 | 1.318 | 4.858 | |
| 6.47 | 6.47 | 7120.47 | 1.320 | 4.870 | |
| 6.48 | 6.48 | 7120.48 | 1.322 | 4.883 | |
| 6.49 | 6.49 | 7120.49 | 1.324 | 4.895 | |
| 6.50 | 6.50 | 7120.50 | 1.326 | 4.907 | |
| 6.51 | 6.51 | 7120.51 | 1.327 | 4.920 | |
| 6.52 | 6.52 | 7120.52 | 1.329 | 4.932 | |
| 6.53 | 6.53 | 7120.53 | 1.331 | 4.945 | |
| 6.54 | 6.54 | 7120.54 | 1.333 | 4.957 | |
| 6.55 | 6.55 | 7120.55 | 1.335 | 4.969 | |
| 6.56 | 6.56 | 7120.56 | 1.337 | 4.982 | |
| 6.57 | 6.57 | 7120.57 | 1.338 | 4.994 | |
| 6.58 | 6.58 | 7120.58 | 1.340 | 5.006 | |
| 6.59 | 6.59 | 7120.59 | 1.342 | 5.019 | |
| 6.60 | 6.60 | 7120.60 | 1.344 | 5.031 | |
| 6.61 | 6.61 | 7120.61 | 1.346 | 5.043 | |
| 6.62 | 6.62 | 7120.62 | 1.348 | 5.056 | |
| 6.63 | 6.63 | 7120.63 | 1.349 | 5.068 | |
| 6.64 | 6.64 | 7120.64 | 1.351 | 5.080 | |
| 6.65 | 6.65 | 7120.65 | 1.353 | 5.093 | |
| 6.66 | 6.66 | 7120.66 | 1.355 | 5.105 | |
| 6.67 | 6.67 | 7120.67 | 1.357 | 5.117 | |
| 6.68 | 6.68 | 7120.68 | 1.359 | 5.130 | |
| 6.69 | 6.69 | 7120.69 | 1.360 | 5.142 | |
| 6.70 | 6.70 | 7120.70 | 1.362 | 5.154 | |
| 6.71 | 6.71 | 7120.71 | 1.364 | 5.167 | |
| 6.72 | 6.72 | 7120.72 | 1.366 | 5.179 | |
| 6.73 | 6.73 | 7120.73 | 1.368 | 5.192 | |
| 6.74 | 6.74 | 7120.74 | 1.370 | 5.204 | |

| 6.75 | 6.75 | 7034.75 | 2.200 | 9.419 | |
|------|------|---------|-------|--------|--|
| 6.76 | 6.76 | 7034.76 | 2.202 | 9.441 | |
| 6.77 | 6.77 | 7034.77 | 2.205 | 9.464 | |
| 6.78 | 6.78 | 7034.78 | 2.207 | 9.487 | |
| 6.79 | 6.79 | 7034.79 | 2.210 | 9.509 | |
| 6.80 | 6.80 | 7034.80 | 2.212 | 9.532 | |
| 6.81 | 6.81 | 7034.81 | 2.215 | 9.555 | |
| 6.82 | 6.82 | 7034.82 | 2.217 | 9.577 | |
| 6.83 | 6.83 | 7034.83 | 2.220 | 9.600 | |
| 6.84 | 6.84 | 7034.84 | 2.223 | 9.623 | |
| 6.85 | 6.85 | 7034.85 | 2.225 | 9.645 | |
| 6.86 | 6.86 | 7034.86 | 2.228 | 9.668 | |
| 6.87 | 6.87 | 7034.87 | 2.230 | 9.691 | |
| 6.88 | 6.88 | 7034.88 | 2.233 | 9.713 | |
| 6.89 | 6.89 | 7034.89 | 2.235 | 9.736 | |
| 6.90 | 6.90 | 7034.90 | 2.238 | 9.759 | |
| 6.91 | 6.91 | 7034.91 | 2.240 | 9.781 | |
| 6.92 | 6.92 | 7034.92 | 2.243 | 9.804 | |
| 6.93 | 6.93 | 7034.93 | 2.245 | 9.826 | |
| 6.94 | 6.94 | 7034.94 | 2.248 | 9.849 | |
| 6.95 | 6.95 | 7034.95 | 2.250 | 9.872 | |
| 6.96 | 6.96 | 7034.96 | 2.253 | 9.894 | |
| 6.97 | 6.97 | 7034.97 | 2.255 | 9.917 | |
| 6.98 | 6.98 | 7034.98 | 2.258 | 9.940 | |
| 6.99 | 6.99 | 7034.99 | 2.260 | 9.962 | |
| 7.00 | 7.00 | 7035.00 | 2.263 | 9.985 | |
| 7.01 | 7.01 | 7035.01 | 2.266 | 10.008 | |
| 7.02 | 7.02 | 7035.02 | 2.268 | 10.030 | |
| 7.03 | 7.03 | 7035.03 | 2.271 | 10.053 | |
| 7.04 | 7.04 | 7035.04 | 2.273 | 10.076 | |
| 7.05 | 7.05 | 7035.05 | 2.276 | 10.098 | |
| 7.06 | 7.06 | 7035.06 | 2.278 | 10.121 | |
| 7.07 | 7.07 | 7035.07 | 2.281 | 10.144 | |
| 7.08 | 7.08 | 7035.08 | 2.283 | 10.166 | |
| 7.09 | 7.09 | 7035.09 | 2.286 | 10.189 | |
| 7.10 | 7.10 | 7035.10 | 2.288 | 10.212 | |
| 7.11 | 7.11 | 7035.11 | 2.291 | 10.234 | |
| 7.12 | 7.12 | 7035.12 | 2.293 | 10.257 | |
| 7.13 | 7.13 | 7035.13 | 2.296 | 10.279 | |
| 7.14 | 7.14 | 7035.14 | 2.298 | 10.302 | |
| 7.15 | 7.15 | 7035.15 | 2.301 | 10.325 | |
| 7.16 | 7.16 | 7035.16 | 2.303 | 10.347 | |
| 7.17 | 7.17 | 7035.17 | 2.306 | 10.370 | |
| 7.18 | 7.18 | 7035.18 | 2.309 | 10.393 | |
| 7.19 | 7.19 | 7035.19 | 2.311 | 10.415 | |
| 7.20 | 7.20 | 7035.20 | 2.314 | 10.438 | |

| 6.75 | 6.75 | 7120.75 | 1.372 | 5.216 | |
|------|------|---------|-------|-------|--|
| 6.76 | 6.76 | 7120.76 | 1.373 | 5.229 | |
| 6.77 | 6.77 | 7120.77 | 1.375 | 5.241 | |
| 6.78 | 6.78 | 7120.78 | 1.377 | 5.253 | |
| 6.79 | 6.79 | 7120.79 | 1.379 | 5.266 | |
| 6.80 | 6.80 | 7120.80 | 1.381 | 5.278 | |
| 6.81 | 6.81 | 7120.81 | 1.383 | 5.290 | |
| 6.82 | 6.82 | 7120.82 | 1.384 | 5.303 | |
| 6.83 | 6.83 | 7120.83 | 1.386 | 5.315 | |
| 6.84 | 6.84 | 7120.84 | 1.388 | 5.327 | |
| 6.85 | 6.85 | 7120.85 | 1.390 | 5.340 | |
| 6.86 | 6.86 | 7120.86 | 1.392 | 5.352 | |
| 6.87 | 6.87 | 7120.87 | 1.394 | 5.364 | |
| 6.88 | 6.88 | 7120.88 | 1.395 | 5.377 | |
| 6.89 | 6.89 | 7120.89 | 1.397 | 5.389 | |
| 6.90 | 6.90 | 7120.90 | 1.399 | 5.401 | |
| 6.91 | 6.91 | 7120.91 | 1.401 | 5.414 | |
| 6.92 | 6.92 | 7120.92 | 1.403 | 5.426 | |
| 6.93 | 6.93 | 7120.93 | 1.405 | 5.439 | |
| 6.94 | 6.94 | 7120.94 | 1.406 | 5.451 | |
| 6.95 | 6.95 | 7120.95 | 1.408 | 5.463 | |
| 6.96 | 6.96 | 7120.96 | 1.410 | 5.476 | |
| 6.97 | 6.97 | 7120.97 | 1.412 | 5.488 | |
| 6.98 | 6.98 | 7120.98 | 1.414 | 5.500 | |
| 6.99 | 6.99 | 7120.99 | 1.416 | 5.513 | |
| 7.00 | 7.00 | 7121.00 | 1.418 | 5.525 | |
| 7.01 | 7.01 | 7121.01 | 1.419 | 5.537 | |
| 7.02 | 7.02 | 7121.02 | 1.421 | 5.550 | |
| 7.03 | 7.03 | 7121.03 | 1.423 | 5.562 | |
| 7.04 | 7.04 | 7121.04 | 1.425 | 5.574 | |
| 7.05 | 7.05 | 7121.05 | 1.427 | 5.587 | |
| 7.06 | 7.06 | 7121.06 | 1.429 | 5.599 | |
| 7.07 | 7.07 | 7121.07 | 1.430 | 5.611 | |
| 7.08 | 7.08 | 7121.08 | 1.432 | 5.624 | |
| 7.09 | 7.09 | 7121.09 | 1.434 | 5.636 | |
| 7.10 | 7.10 | 7121.10 | 1.436 | 5.648 | |
| 7.11 | 7.11 | 7121.11 | 1.438 | 5.661 | |
| 7.12 | 7.12 | 7121.12 | 1.440 | 5.673 | |
| 7.13 | 7.13 | 7121.13 | 1.441 | 5.686 | |
| 7.14 | 7.14 | 7121.14 | 1.443 | 5.698 | |
| 7.15 | 7.15 | 7121.15 | 1.445 | 5.710 | |
| 7.16 | 7.16 | 7121.16 | 1.447 | 5.723 | |
| 7.17 | 7.17 | 7121.17 | 1.449 | 5.735 | |
| 7.18 | 7.18 | 7121.18 | 1.451 | 5.747 | |
| 7.19 | 7.19 | 7121.19 | 1.452 | 5.760 | |
| 7.20 | 7.20 | 7121.20 | 1.454 | 5.772 | |

| 7.21 | 7.21 | 7035.21 | 2.316 | 10.461 | |
|---------------------|---------------------|---------------------------|-----------------------|------------------|--|
| 7.22 | 7.22 | 7035.22 | 2.319 | 10.483 | |
| 7.23 | 7.23 | 7035.23 | 2.321 | 10.506 | |
| 7.24 | 7.24 | 7035.24 | 2.324 | 10.529 | |
| 7.25 | 7.25 | 7035.25 | 2.326 | 10.551 | |
| 7.26 | 7.26 | 7035.26 | 2.329 | 10.574 | |
| 7.27 | 7.27 | 7035.27 | 2.331 | 10.597 | |
| 7.28 | 7.28 | 7035.27 | 2.334 | 10.619 | |
| 7.29 | 7.29 | 7035.29 | 2.336 | 10.642 | |
| 7.30 | 7.30 | 7035.20 | 2.339 | 10.665 | |
| 7.31 | 7.31 | 7035.31 | 2.341 | 10.687 | |
| 7.32 | 7.32 | 7035.32 | 2.344 | 10.710 | |
| 7.33 | 7.33 | 7035.32 | 2.346 | 10.732 | |
| 7.34 | 7.34 | 7035.34 | 2.349 | 10.755 | |
| 7.35 | 7.35 | 7035.35 | 2.352 | 10.778 | |
| 7.36 | 7.36 | 7035.36 | 2.354 | 10.800 | |
| 7.37 | 7.37 | 7035.37 | 2.354 | 10.823 | |
| 7.37 | 7.37 | 7035.37 | 2.359 | 10.825 | |
| 7.39 | 7.39 | 7035.38 | 2.362 | 10.868 | |
| 7.39 7.40 | 7.39 7.40 | 7035.39 7035.40 | 2.362 2.364 | 10.808 | |
| 7.41 | 7.41 | 7035.40 | 2.367 | 10.914 | |
| 7.41 | 7.41 | | | + | |
| 7.42 | 1 | 7035.42 | 2.369 | 10.936 | |
| | 7.43 | 7035.43 | 2.372 | 10.959 | |
| 7.44 7.45 | 7.44 7.45 | 7035.44 7035.45 | 2.374 2.377 | 10.982 11.004 | |
| | | | | | |
| 7.46 | 7.46 | 7035.46 | 2.379 | 11.027 | |
| 7.47 | 7.47 | 7035.47 | 2.382 | 11.050 | |
| 7.48 | 7.48 | 7035.48 | 2.384 | 11.072 | |
| 7.49 | 7.49 | 7035.49 | 2.387 | 11.095 | |
| 7.50 | 7.50 | 7035.50 | 2.390 | 11.118 | |
| 7.51 | 7.51 | 7035.51 | 2.392 | 11.140 | |
| 7.52 | 7.52 | 7035.52 | 2.395 | 11.163 | |
| 7.53 | 7.53 | 7035.53 | 2.397 | 11.185 | |
| 7.54 | 7.54 | 7035.54 | 2.400 | 11.208 | |
| 7.55 | 7.55 | 7035.55 | 2.402 | 11.231 | |
| 7.56 | 7.56 | 7035.56 | 2.405 | 11.253 | |
| 7.57 | 7.57 | 7035.57 | 2.407 | 11.276 | |
| 7.58 | 7.58 | 7035.58 | 2.410 | 11.299 | |
| 7.59 | 7.59 | 7035.59 | 2.412 | 11.321 | |
| 7.60 | 7.60 | 7035.60 | 2.415 | 11.344 | |
| 7.61 | 7.61 | 7035.61 | 2.417 | 11.367 | |
| 7.62 | 7.62 | 7035.62 | 2.420 | 11.389 | |
| 7.63 | 7.63 | 7035.63 | 2.422 | 11.412 | |
| 7.64 | 7.64 | 7035.64 | 2.425 | 11.435 | |
| 7.65 | 7.65 | 7035.65 | 2.427 | 11.457 | |
| 7.66 | 7.66 | 7035.66 | 2.430 | 11.480 | |

| 7.21 | 7.21 | 7121.21 | 1.456 | 5.784 | |
|------|------|---------|-------|-------|--|
| 7.22 | 7.22 | 7121.22 | 1.458 | 5.797 | |
| 7.23 | 7.23 | 7121.23 | 1.460 | 5.809 | |
| 7.24 | 7.24 | 7121.24 | 1.462 | 5.821 | |
| 7.25 | 7.25 | 7121.25 | 1.464 | 5.834 | |
| 7.26 | 7.26 | 7121.26 | 1.465 | 5.846 | |
| 7.27 | 7.27 | 7121.27 | 1.467 | 5.858 | |
| 7.28 | 7.28 | 7121.28 | 1.469 | 5.871 | |
| 7.29 | 7.29 | 7121.29 | 1.471 | 5.883 | |
| 7.30 | 7.30 | 7121.30 | 1.473 | 5.895 | |
| 7.31 | 7.31 | 7121.31 | 1.475 | 5.908 | |
| 7.32 | 7.32 | 7121.32 | 1.476 | 5.920 | |
| 7.33 | 7.33 | 7121.33 | 1.478 | 5.933 | |
| 7.34 | 7.34 | 7121.34 | 1.480 | 5.945 | |
| 7.35 | 7.35 | 7121.35 | 1.482 | 5.957 | |
| 7.36 | 7.36 | 7121.36 | 1.484 | 5.970 | |
| 7.37 | 7.37 | 7121.37 | 1.486 | 5.982 | |
| 7.38 | 7.38 | 7121.38 | 1.487 | 5.994 | |
| 7.39 | 7.39 | 7121.39 | 1.489 | 6.007 | |
| 7.40 | 7.40 | 7121.40 | 1.491 | 6.019 | |
| 7.41 | 7.41 | 7121.41 | 1.493 | 6.031 | |
| 7.42 | 7.42 | 7121.42 | 1.495 | 6.044 | |
| 7.43 | 7.43 | 7121.43 | 1.497 | 6.056 | |
| 7.44 | 7.44 | 7121.44 | 1.498 | 6.068 | |
| 7.45 | 7.45 | 7121.45 | 1.500 | 6.081 | |
| 7.46 | 7.46 | 7121.46 | 1.502 | 6.093 | |
| 7.47 | 7.47 | 7121.47 | 1.504 | 6.105 | |
| 7.48 | 7.48 | 7121.48 | 1.506 | 6.118 | |
| 7.49 | 7.49 | 7121.49 | 1.508 | 6.130 | |
| 7.50 | 7.50 | 7121.50 | 1.510 | 6.142 | |
| 7.51 | 7.51 | 7121.51 | 1.511 | 6.155 | |
| 7.52 | 7.52 | 7121.52 | 1.513 | 6.167 | |
| 7.53 | 7.53 | 7121.53 | 1.515 | 6.180 | |
| 7.54 | 7.54 | 7121.54 | 1.517 | 6.192 | |
| 7.55 | 7.55 | 7121.55 | 1.519 | 6.204 | |
| 7.56 | 7.56 | 7121.56 | 1.521 | 6.217 | |
| 7.57 | 7.57 | 7121.57 | 1.522 | 6.229 | |
| 7.58 | 7.58 | 7121.58 | 1.524 | 6.241 | |
| 7.59 | 7.59 | 7121.59 | 1.526 | 6.254 | |
| 7.60 | 7.60 | 7121.60 | 1.528 | 6.266 | |
| 7.61 | 7.61 | 7121.61 | 1.530 | 6.278 | |
| 7.62 | 7.62 | 7121.62 | 1.532 | 6.291 | |
| 7.63 | 7.63 | 7121.63 | 1.533 | 6.303 | |
| 7.64 | 7.64 | 7121.64 | 1.535 | 6.315 | |
| 7.65 | 7.65 | 7121.65 | 1.537 | 6.328 | |
| 7.66 | 7.66 | 7121.66 | 1.539 | 6.340 | |

| 7.67 | 7.67 | 7035.67 | 2.433 | 11.503 | |
|----------------------|---------------------|-------------------------------|-------------------------|----------------------------|--------------------------|
| 7.68 | 7.68 | 7035.67 | 2.435 | 11.525 | |
| 7.69 | | | 2.438 | 11.548 | |
| 7.09 | 7.69 7.70 | 7035.69 7035.70 | 2.438 | 11.548 | |
| 7.71 | 7.71 | | 2.443 | | + |
| | | 7035.71 | | 11.593 | |
| 7.72 | 7.72 | 7035.72 | 2.445 | 11.616 | |
| 7.73 | 7.73 | 7035.73 | 2.448 | 11.638 | |
| 7.74 7.75 | 7.74 7.75 | 7035.74 7035.75 | 2.450 2.453 | 11.661 11.684 | |
| | | | | | |
| 7.76 | 7.76 | 7035.76 | 2.455 | 11.706 | |
| 7.77 | 7.77 | 7035.77 | 2.458 | 11.729 | |
| 7.78 | 7.78 | 7035.78 | 2.460 | 11.752 | |
| 7.79 | 7.79 | 7035.79 | 2.463 | 11.774 | |
| 7.80 | 7.80 | 7035.80 | 2.465 | 11.797 | |
| 7.81 | 7.81 | 7035.81 | 2.468 | 11.820 | |
| 7.82 | 7.82 | 7035.82 | 2.470 | 11.842 | |
| 7.83 | 7.83 | 7035.83 | 2.473 | 11.865 | |
| 7.84 | 7.84 | 7035.84 | 2.476 | 11.888 | |
| 7.85 | 7.85 | 7035.85 | 2.478 | 11.910 | |
| 7.86 | 7.86 | 7035.86 | 2.481 | 11.933 | |
| 7.87 | 7.87 | 7035.87 | 2.483 | 11.956 | |
| 7.88 | 7.88 | 7035.88 | 2.486 | 11.978 | |
| 7.89 | 7.89 | 7035.89 | 2.488 | 12.001 | |
| 7.90 | 7.90 | 7035.90 | 2.491 | 12.024 | |
| 7.91 | 7.91 | 7035.91 | 2.493 | 12.046 | |
| 7.92 | 7.92 | 7035.92 | 2.496 | 12.069 | |
| 7.93 | 7.93 | 7035.93 | 2.498 | 12.091 | |
| 7.94 | 7.94 | 7035.94 | 2.501 | 12.114 | |
| 7.95 | 7.95 | 7035.95 | 2.503 | 12.137 | |
| 7.96 | 7.96 | 7035.96 | 2.506 | 12.159 | |
| 7.97 | 7.97 | 7035.97 | 2.508 | 12.182 | |
| 7.98 | 7.98 | 7035.98 | 2.511 | 12.205 | |
| 7.99 8.00 | 7.99 8.00 | 7035.99 | 2.513 | 12.227 | Smillions Crost / NINA/S |
| | | 7036.00 | 2.516 | 12.250 | Spillway Crest / NWS |
| 8.01 | 8.01 | 7036.01 | 2.522 | 12.276 | |
| 8.02 | 8.02 | 7036.02 | 2.527 | 12.301 | |
| 8.03 | 8.03 | 7036.03 | 2.533 | 12.327 | |
| 8.04 8.05 | 8.04 8.05 | 7036.04 7036.05 | 2.538 2.544 | 12.353 12.379 | |
| | | | | | |
| 8.06 | 8.06 | 7036.06 | 2.549 | 12.404 | |
| 8.07 | 8.07 | 7036.07 | 2.555 | 12.430 | |
| 8.08 | 8.08 | 7036.08 | 2.560 | 12.456 | |
| 8.09 | 8.09 | 7036.09 | 2.566 | 12.481 | |
| 0 10 | | 7026 10 | 2 571 | 12 507 | |
| 8.10 | 8.10 | 7036.10 | 2.571 | 12.507 | |
| 8.10 8.11 8.12 | | 7036.10 7036.11 7036.12 | 2.571 2.577 2.582 | 12.507 12.533 12.558 | |

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|------|------|---------|-------|-------|--|
| 7.67 | 7.67 | 7121.67 | 1.541 | 6.352 | |
| 7.68 | 7.68 | 7121.68 | 1.543 | 6.365 | |
| 7.69 | 7.69 | 7121.69 | 1.544 | 6.377 | |
| 7.70 | 7.70 | 7121.70 | 1.546 | 6.389 | |
| 7.71 | 7.71 | 7121.71 | 1.548 | 6.402 | |
| 7.72 | 7.72 | 7121.72 | 1.550 | 6.414 | |
| 7.73 | 7.73 | 7121.73 | 1.552 | 6.427 | |
| 7.74 | 7.74 | 7121.74 | 1.554 | 6.439 | |
| 7.75 | 7.75 | 7121.75 | 1.556 | 6.451 | |
| 7.76 | 7.76 | 7121.76 | 1.557 | 6.464 | |
| 7.77 | 7.77 | 7121.77 | 1.559 | 6.476 | |
| 7.78 | 7.78 | 7121.78 | 1.561 | 6.488 | |
| 7.79 | 7.79 | 7121.79 | 1.563 | 6.501 | |
| 7.80 | 7.80 | 7121.80 | 1.565 | 6.513 | |
| 7.81 | 7.81 | 7121.81 | 1.567 | 6.525 | |
| 7.82 | 7.82 | 7121.82 | 1.568 | 6.538 | |
| 7.83 | 7.83 | 7121.83 | 1.570 | 6.550 | |
| 7.84 | 7.84 | 7121.84 | 1.572 | 6.562 | |
| 7.85 | 7.85 | 7121.85 | 1.574 | 6.575 | |
| 7.86 | 7.86 | 7121.86 | 1.576 | 6.587 | |
| 7.87 | 7.87 | 7121.87 | 1.578 | 6.599 | |
| 7.88 | 7.88 | 7121.88 | 1.579 | 6.612 | |
| 7.89 | 7.89 | 7121.89 | 1.581 | 6.624 | |
| 7.90 | 7.90 | 7121.90 | 1.583 | 6.636 | |
| 7.91 | 7.91 | 7121.91 | 1.585 | 6.649 | |
| 7.92 | 7.92 | 7121.92 | 1.587 | 6.661 | |
| 7.93 | 7.93 | 7121.93 | 1.589 | 6.674 | |
| 7.94 | 7.94 | 7121.94 | 1.590 | 6.686 | |
| 7.95 | 7.95 | 7121.95 | 1.592 | 6.698 | |
| 7.96 | 7.96 | 7121.96 | 1.594 | 6.711 | |
| 7.97 | 7.97 | 7121.97 | 1.596 | 6.723 | |
| 7.98 | 7.98 | 7121.98 | 1.598 | 6.735 | |
| 7.99 | 7.99 | 7121.99 | 1.600 | 6.748 | |
| 8.00 | 8.00 | 7122.00 | 1.602 | 6.760 | |
| 8.01 | 8.01 | 7122.01 | 1.606 | 6.776 | |
| 8.02 | 8.02 | 7122.02 | 1.611 | 6.792 | |
| 8.03 | 8.03 | 7122.03 | 1.616 | 6.808 | |
| 8.04 | 8.04 | 7122.04 | 1.620 | 6.824 | |
| 8.05 | 8.05 | 7122.05 | 1.625 | 6.840 | |
| 8.06 | 8.06 | 7122.06 | 1.630 | 6.856 | |
| 8.07 | 8.07 | 7122.07 | 1.635 | 6.872 | |
| 8.08 | 8.08 | 7122.08 | 1.639 | 6.888 | |
| 8.09 | 8.09 | 7122.09 | 1.644 | 6.904 | |
| 8.10 | 8.10 | 7122.10 | 1.649 | 6.920 | |
| 8.11 | 8.11 | 7122.11 | 1.654 | 6.936 | |
| 8.12 | 8.12 | 7122.12 | 1.658 | 6.952 | |

| 8.13 | 8.13 | 7036.13 | 2.588 | 12.584 | |
|---------------------|---------------------|---------------------------|-----------------------|-------------------------|--|
| 8.14 | 8.14 | 7036.13 | 2.593 | 12.610 | |
| 8.15 | 8.15 | 7036.15 | 2.599 | 12.636 | |
| 8.16 | 8.16 | 7036.16 | 2.604 | 12.661 | |
| 8.17 | 8.17 | 7036.17 | 2.610 | 12.687 | |
| 8.18 | 8.18 | 7036.17 | 2.615 | 12.713 | |
| 8.19 | 8.19 | 7036.19 | | 12.713 | |
| 8.20 | 8.20 | 7036.19 | 2.620 2.626 | 12.764 | |
| 8.21 | 8.21 | 7036.21 | 2.631 | 12.790 | |
| 8.22 | 8.22 | 7036.21 | 2.637 | 12.790 | |
| 8.23 | 8.23 | 7036.22 | 2.642 | | |
| | | | | 12.841 | |
| 8.24 8.25 | 8.24 8.25 | 7036.24 7036.25 | 2.648 2.653 | 12.867 12.893 | |
| | | | | | |
| 8.26 | 8.26 | 7036.26 | 2.659 | 12.918 | |
| 8.27 | 8.27 | 7036.27 | 2.664 | 12.944 | |
| 8.28 | 8.28 | 7036.28 | 2.670 | 12.970 | |
| 8.29 | 8.29 | 7036.29 | 2.675 | 12.995 | |
| 8.30 | 8.30 | 7036.30 | 2.681 | 13.021 | |
| 8.31 | 8.31 | 7036.31 | 2.686 | 13.047 | |
| 8.32 | 8.32 | 7036.32 | 2.692 | 13.072 | |
| 8.33 | 8.33 | 7036.33 | 2.697 | 13.098 | |
| 8.34 | 8.34 | 7036.34 | 2.703 | 13.124 | |
| 8.35 | 8.35 | 7036.35 | 2.708 | 13.150 | |
| 8.36 | 8.36 | 7036.36 | 2.714 | 13.175 | |
| 8.37 | 8.37 | 7036.37 | 2.719 | 13.201 | |
| 8.38 | 8.38 | 7036.38 | 2.725 | 13.227 | |
| 8.39 | 8.39 | 7036.39 | 2.730 | 13.252 | |
| 8.40 | 8.40 | 7036.40 | 2.736 | 13.278 | |
| 8.41 | 8.41 | 7036.41 | 2.741 | 13.304 | |
| 8.42 | 8.42 | 7036.42 | 2.747 | 13.329 | |
| 8.43 | 8.43 | 7036.43 | 2.752 | 13.355 | |
| 8.44 | 8.44 | 7036.44 | 2.757 | 13.381 | |
| 8.45 | 8.45 | 7036.45 | 2.763 | 13.407 | |
| 8.46 | 8.46 | 7036.46 | 2.768 | 13.432 | |
| 8.47 | 8.47 | 7036.47 | 2.774 | 13.458 | |
| 8.48 | 8.48 | 7036.48 | 2.779 | 13.484 | |
| 8.49 | 8.49 | 7036.49 | 2.785 | 13.509 | |
| 8.50 | 8.50 | 7036.50 | 2.790 | 13.535 | |
| 8.51 | 8.51 | 7036.51 | 2.796 | 13.561 | |
| 8.52 | 8.52 | 7036.52 | 2.801 | 13.586 | |
| 8.53 | 8.53 | 7036.53 | 2.807 | 13.612 | |
| 8.54 | 8.54 | 7036.54 | 2.812 | 13.638 | |
| 8.55 | 8.55 | 7036.55 | 2.818 | 13.664 | |
| 8.56 | 8.56 | 7036.56 | 2.823 | 13.689 | |
| 8.57 | 8.57 | 7036.57 | 2.829 | 13.715 | |
| 8.58 | 8.58 | 7036.58 | 2.834 | 13.741 | |

| 8.13 | 8.13 | 7122.13 | 1.663 | 6.968 | |
|------|------|---------|-------|-------|--|
| 8.14 | 8.14 | 7122.13 | 1.668 | 6.984 | |
| 8.15 | 8.15 | 7122.14 | 1.672 | 7.000 | |
| 8.16 | 8.16 | 7122.16 | 1.677 | 7.016 | |
| 8.17 | 8.17 | 7122.17 | 1.682 | 7.032 | |
| 8.18 | 8.18 | 7122.17 | 1.687 | 7.048 | |
| 8.19 | 8.19 | 7122.19 | 1.691 | 7.064 | |
| 8.20 | 8.20 | 7122.20 | 1.696 | 7.080 | |
| 8.21 | 8.21 | 7122.21 | 1.701 | 7.096 | |
| 8.22 | 8.22 | 7122.22 | 1.706 | 7.112 | |
| 8.23 | 8.23 | 7122.23 | 1.710 | 7.128 | |
| 8.24 | 8.24 | 7122.24 | 1.715 | 7.144 | |
| 8.25 | 8.25 | 7122.25 | 1.720 | 7.160 | |
| 8.26 | 8.26 | 7122.26 | 1.724 | 7.176 | |
| 8.27 | 8.27 | 7122.27 | 1.729 | 7.192 | |
| 8.28 | 8.28 | 7122.28 | 1.734 | 7.208 | |
| 8.29 | 8.29 | 7122.29 | 1.739 | 7.224 | |
| 8.30 | 8.30 | 7122.30 | 1.743 | 7.240 | |
| 8.31 | 8.31 | 7122.31 | 1.748 | 7.256 | |
| 8.32 | 8.32 | 7122.32 | 1.753 | 7.272 | |
| 8.33 | 8.33 | 7122.33 | 1.758 | 7.288 | |
| 8.34 | 8.34 | 7122.34 | 1.762 | 7.304 | |
| 8.35 | 8.35 | 7122.35 | 1.767 | 7.320 | |
| 8.36 | 8.36 | 7122.36 | 1.772 | 7.336 | |
| 8.37 | 8.37 | 7122.37 | 1.777 | 7.352 | |
| 8.38 | 8.38 | 7122.38 | 1.781 | 7.368 | |
| 8.39 | 8.39 | 7122.39 | 1.786 | 7.384 | |
| 8.40 | 8.40 | 7122.40 | 1.791 | 7.400 | |
| 8.41 | 8.41 | 7122.41 | 1.795 | 7.416 | |
| 8.42 | 8.42 | 7122.42 | 1.800 | 7.432 | |
| 8.43 | 8.43 | 7122.43 | 1.805 | 7.448 | |
| 8.44 | 8.44 | 7122.44 | 1.810 | 7.464 | |
| 8.45 | 8.45 | 7122.45 | 1.814 | 7.480 | |
| 8.46 | 8.46 | 7122.46 | 1.819 | 7.496 | |
| 8.47 | 8.47 | 7122.47 | 1.824 | 7.512 | |
| 8.48 | 8.48 | 7122.48 | 1.829 | 7.528 | |
| 8.49 | 8.49 | 7122.49 | 1.833 | 7.544 | |
| 8.50 | 8.50 | 7122.50 | 1.838 | 7.560 | |
| 8.51 | 8.51 | 7122.51 | 1.843 | 7.576 | |
| 8.52 | 8.52 | 7122.52 | 1.847 | 7.592 | |
| 8.53 | 8.53 | 7122.53 | 1.852 | 7.608 | |
| 8.54 | 8.54 | 7122.54 | 1.857 | 7.624 | |
| 8.55 | 8.55 | 7122.55 | 1.862 | 7.640 | |
| 8.56 | 8.56 | 7122.56 | 1.866 | 7.656 | |
| 8.57 | 8.57 | 7122.57 | 1.871 | 7.672 | |
| 8.58 | 8.58 | 7122.58 | 1.876 | 7.688 | |

| 8.59 | 8.59 | 7036.59 | 2.840 | 13.766 | |
|------|------|---------|-------|--------|--|
| 8.60 | 8.60 | 7036.60 | 2.845 | 13.792 | |
| 8.61 | 8.61 | 7036.61 | 2.851 | 13.818 | |
| 8.62 | 8.62 | 7036.62 | 2.856 | 13.843 | |
| 8.63 | 8.63 | 7036.63 | 2.862 | 13.869 | |
| 8.64 | 8.64 | 7036.64 | 2.867 | 13.895 | |
| 8.65 | 8.65 | 7036.65 | 2.873 | 13.921 | |
| 8.66 | 8.66 | 7036.66 | 2.878 | 13.946 | |
| 8.67 | 8.67 | 7036.67 | 2.884 | 13.972 | |
| 8.68 | 8.68 | 7036.68 | 2.889 | 13.998 | |
| 8.69 | 8.69 | 7036.69 | 2.894 | 14.023 | |
| 8.70 | 8.70 | 7036.70 | 2.900 | 14.049 | |
| 8.71 | 8.71 | 7036.71 | 2.905 | 14.075 | |
| 8.72 | 8.72 | 7036.72 | 2.911 | 14.100 | |
| 8.73 | 8.73 | 7036.73 | 2.916 | 14.126 | |
| 8.74 | 8.74 | 7036.74 | 2.922 | 14.152 | |
| 8.75 | 8.75 | 7036.75 | 2.927 | 14.178 | |
| 8.76 | 8.76 | 7036.76 | 2.933 | 14.203 | |
| 8.77 | 8.77 | 7036.77 | 2.938 | 14.229 | |
| 8.78 | 8.78 | 7036.78 | 2.944 | 14.255 | |
| 8.79 | 8.79 | 7036.79 | 2.949 | 14.280 | |
| 8.80 | 8.80 | 7036.80 | 2.955 | 14.306 | |
| 8.81 | 8.81 | 7036.81 | 2.960 | 14.332 | |
| 8.82 | 8.82 | 7036.82 | 2.966 | 14.357 | |
| 8.83 | 8.83 | 7036.83 | 2.971 | 14.383 | |
| 8.84 | 8.84 | 7036.84 | 2.977 | 14.409 | |
| 8.85 | 8.85 | 7036.85 | 2.982 | 14.435 | |
| 8.86 | 8.86 | 7036.86 | 2.988 | 14.460 | |
| 8.87 | 8.87 | 7036.87 | 2.993 | 14.486 | |
| 8.88 | 8.88 | 7036.88 | 2.999 | 14.512 | |
| 8.89 | 8.89 | 7036.89 | 3.004 | 14.537 | |
| 8.90 | 8.90 | 7036.90 | 3.010 | 14.563 | |
| 8.91 | 8.91 | 7036.91 | 3.015 | 14.589 | |
| 8.92 | 8.92 | 7036.92 | 3.021 | 14.614 | |
| 8.93 | 8.93 | 7036.93 | 3.026 | 14.640 | |
| 8.94 | 8.94 | 7036.94 | 3.031 | 14.666 | |
| 8.95 | 8.95 | 7036.95 | 3.037 | 14.692 | |
| 8.96 | 8.96 | 7036.96 | 3.042 | 14.717 | |
| 8.97 | 8.97 | 7036.97 | 3.048 | 14.743 | |
| 8.98 | 8.98 | 7036.98 | 3.053 | 14.769 | |
| 8.99 | 8.99 | 7036.99 | 3.059 | 14.794 | |
| 9.00 | 9.00 | 7037.00 | 3.064 | 14.820 | |
| 9.01 | 9.01 | 7037.01 | 3.070 | 14.846 | |
| 9.02 | 9.02 | 7037.02 | 3.075 | 14.871 | |
| 9.03 | 9.03 | 7037.03 | 3.081 | 14.897 | |
| 9.04 | 9.04 | 7037.04 | 3.086 | 14.923 | |

| 8.59 | 8.59 | 7122.59 | 1.881 | 7.704 | |
|------|------|---------|-------|-------|--|
| 8.60 | 8.60 | 7122.60 | 1.885 | 7.720 | |
| 8.61 | 8.61 | 7122.61 | 1.890 | 7.736 | |
| 8.62 | 8.62 | 7122.62 | 1.895 | 7.752 | |
| 8.63 | 8.63 | 7122.63 | 1.899 | 7.768 | |
| 8.64 | 8.64 | 7122.64 | 1.904 | 7.784 | |
| 8.65 | 8.65 | 7122.65 | 1.909 | 7.800 | |
| 8.66 | 8.66 | 7122.66 | 1.914 | 7.816 | |
| 8.67 | 8.67 | 7122.67 | 1.918 | 7.832 | |
| 8.68 | 8.68 | 7122.68 | 1.923 | 7.848 | |
| 8.69 | 8.69 | 7122.69 | 1.928 | 7.864 | |
| 8.70 | 8.70 | 7122.70 | 1.933 | 7.880 | |
| 8.71 | 8.71 | 7122.71 | 1.937 | 7.896 | |
| 8.72 | 8.72 | 7122.72 | 1.942 | 7.912 | |
| 8.73 | 8.73 | 7122.73 | 1.947 | 7.928 | |
| 8.74 | 8.74 | 7122.74 | 1.952 | 7.944 | |
| 8.75 | 8.75 | 7122.75 | 1.956 | 7.960 | |
| 8.76 | 8.76 | 7122.76 | 1.961 | 7.976 | |
| 8.77 | 8.77 | 7122.77 | 1.966 | 7.992 | |
| 8.78 | 8.78 | 7122.78 | 1.970 | 8.008 | |
| 8.79 | 8.79 | 7122.79 | 1.975 | 8.024 | |
| 8.80 | 8.80 | 7122.80 | 1.980 | 8.040 | |
| 8.81 | 8.81 | 7122.81 | 1.985 | 8.056 | |
| 8.82 | 8.82 | 7122.82 | 1.989 | 8.072 | |
| 8.83 | 8.83 | 7122.83 | 1.994 | 8.088 | |
| 8.84 | 8.84 | 7122.84 | 1.999 | 8.104 | |
| 8.85 | 8.85 | 7122.85 | 2.004 | 8.120 | |
| 8.86 | 8.86 | 7122.86 | 2.008 | 8.136 | |
| 8.87 | 8.87 | 7122.87 | 2.013 | 8.152 | |
| 8.88 | 8.88 | 7122.88 | 2.018 | 8.168 | |
| 8.89 | 8.89 | 7122.89 | 2.022 | 8.184 | |
| 8.90 | 8.90 | 7122.90 | 2.027 | 8.200 | |
| 8.91 | 8.91 | 7122.91 | 2.032 | 8.216 | |
| 8.92 | 8.92 | 7122.92 | 2.037 | 8.232 | |
| 8.93 | 8.93 | 7122.93 | 2.041 | 8.248 | |
| 8.94 | 8.94 | 7122.94 | 2.046 | 8.264 | |
| 8.95 | 8.95 | 7122.95 | 2.051 | 8.280 | |
| 8.96 | 8.96 | 7122.96 | 2.056 | 8.296 | |
| 8.97 | 8.97 | 7122.97 | 2.060 | 8.312 | |
| 8.98 | 8.98 | 7122.98 | 2.065 | 8.328 | |
| 8.99 | 8.99 | 7122.99 | 2.070 | 8.344 | |
| 9.00 | 9.00 | 7123.00 | 2.075 | 8.360 | |
| 9.01 | 9.01 | 7123.01 | 2.079 | 8.376 | |
| 9.02 | 9.02 | 7123.02 | 2.084 | 8.392 | |
| 9.03 | 9.03 | 7123.03 | 2.089 | 8.408 | |
| 9.04 | 9.04 | 7123.04 | 2.093 | 8.424 | |

| 9.05 | 9.05 | 7037.05 | 3.092 | 14.949 | |
|------|------|---------|-------|--------|--|
| 9.06 | 9.06 | 7037.06 | 3.097 | 14.974 | |
| 9.07 | 9.07 | 7037.07 | 3.103 | 15.000 | |
| 9.08 | 9.08 | 7037.08 | 3.108 | 15.026 | |
| 9.09 | 9.09 | 7037.09 | 3.114 | 15.051 | |
| 9.10 | 9.10 | 7037.10 | 3.119 | 15.077 | |
| 9.11 | 9.11 | 7037.11 | 3.125 | 15.103 | |
| 9.12 | 9.12 | 7037.12 | 3.130 | 15.128 | |
| 9.13 | 9.13 | 7037.13 | 3.136 | 15.154 | |
| 9.14 | 9.14 | 7037.14 | 3.141 | 15.180 | |
| 9.15 | 9.15 | 7037.15 | 3.147 | 15.206 | |
| 9.16 | 9.16 | 7037.16 | 3.152 | 15.231 | |
| 9.17 | 9.17 | 7037.17 | 3.158 | 15.257 | |
| 9.18 | 9.18 | 7037.18 | 3.163 | 15.283 | |
| 9.19 | 9.19 | 7037.19 | 3.168 | 15.308 | |
| 9.20 | 9.20 | 7037.20 | 3.174 | 15.334 | |
| 9.21 | 9.21 | 7037.21 | 3.179 | 15.360 | |
| 9.22 | 9.22 | 7037.22 | 3.185 | 15.385 | |
| 9.23 | 9.23 | 7037.23 | 3.190 | 15.411 | |
| 9.24 | 9.24 | 7037.24 | 3.196 | 15.437 | |
| 9.25 | 9.25 | 7037.25 | 3.201 | 15.463 | |
| 9.26 | 9.26 | 7037.26 | 3.207 | 15.488 | |
| 9.27 | 9.27 | 7037.27 | 3.212 | 15.514 | |
| 9.28 | 9.28 | 7037.28 | 3.218 | 15.540 | |
| 9.29 | 9.29 | 7037.29 | 3.223 | 15.565 | |
| 9.30 | 9.30 | 7037.30 | 3.229 | 15.591 | |
| 9.31 | 9.31 | 7037.31 | 3.234 | 15.617 | |
| 9.32 | 9.32 | 7037.32 | 3.240 | 15.642 | |
| 9.33 | 9.33 | 7037.33 | 3.245 | 15.668 | |
| 9.34 | 9.34 | 7037.34 | 3.251 | 15.694 | |
| 9.35 | 9.35 | 7037.35 | 3.256 | 15.720 | |
| 9.36 | 9.36 | 7037.36 | 3.262 | 15.745 | |
| 9.37 | 9.37 | 7037.37 | 3.267 | 15.771 | |
| 9.38 | 9.38 | 7037.38 | 3.273 | 15.797 | |
| 9.39 | 9.39 | 7037.39 | 3.278 | 15.822 | |
| 9.40 | 9.40 | 7037.40 | 3.284 | 15.848 | |
| 9.41 | 9.41 | 7037.41 | 3.289 | 15.874 | |
| 9.42 | 9.42 | 7037.42 | 3.295 | 15.899 | |
| 9.43 | 9.43 | 7037.43 | 3.300 | 15.925 | |
| 9.44 | 9.44 | 7037.44 | 3.305 | 15.951 | |
| 9.45 | 9.45 | 7037.45 | 3.311 | 15.977 | |
| 9.46 | 9.46 | 7037.46 | 3.316 | 16.002 | |
| 9.47 | 9.47 | 7037.47 | 3.322 | 16.028 | |
| 9.48 | 9.48 | 7037.48 | 3.327 | 16.054 | |
| 9.49 | 9.49 | 7037.49 | 3.333 | 16.079 | |
| 9.50 | 9.50 | 7037.50 | 3.338 | 16.105 | |

| 9.05 | 9.05 | 7123.05 | 2.098 | 8.440 | |
|------|------|---------|-------|-------|--|
| 9.06 | 9.06 | 7123.06 | 2.103 | 8.456 | |
| 9.07 | 9.07 | 7123.07 | 2.108 | 8.472 | |
| 9.08 | 9.08 | 7123.08 | 2.112 | 8.488 | |
| 9.09 | 9.09 | 7123.09 | 2.117 | 8.504 | |
| 9.10 | 9.10 | 7123.10 | 2.122 | 8.520 | |
| 9.11 | 9.11 | 7123.11 | 2.127 | 8.536 | |
| 9.12 | 9.12 | 7123.12 | 2.131 | 8.552 | |
| 9.13 | 9.13 | 7123.13 | 2.136 | 8.568 | |
| 9.14 | 9.14 | 7123.14 | 2.141 | 8.584 | |
| 9.15 | 9.15 | 7123.15 | 2.145 | 8.600 | |
| 9.16 | 9.16 | 7123.16 | 2.150 | 8.616 | |
| 9.17 | 9.17 | 7123.17 | 2.155 | 8.632 | |
| 9.18 | 9.18 | 7123.18 | 2.160 | 8.648 | |
| 9.19 | 9.19 | 7123.19 | 2.164 | 8.664 | |
| 9.20 | 9.20 | 7123.20 | 2.169 | 8.680 | |
| 9.21 | 9.21 | 7123.21 | 2.174 | 8.696 | |
| 9.22 | 9.22 | 7123.22 | 2.179 | 8.712 | |
| 9.23 | 9.23 | 7123.23 | 2.183 | 8.728 | |
| 9.24 | 9.24 | 7123.24 | 2.188 | 8.744 | |
| 9.25 | 9.25 | 7123.25 | 2.193 | 8.760 | |
| 9.26 | 9.26 | 7123.26 | 2.197 | 8.776 | |
| 9.27 | 9.27 | 7123.27 | 2.202 | 8.792 | |
| 9.28 | 9.28 | 7123.28 | 2.207 | 8.808 | |
| 9.29 | 9.29 | 7123.29 | 2.212 | 8.824 | |
| 9.30 | 9.30 | 7123.30 | 2.216 | 8.840 | |
| 9.31 | 9.31 | 7123.31 | 2.221 | 8.856 | |
| 9.32 | 9.32 | 7123.32 | 2.226 | 8.872 | |
| 9.33 | 9.33 | 7123.33 | 2.231 | 8.888 | |
| 9.34 | 9.34 | 7123.34 | 2.235 | 8.904 | |
| 9.35 | 9.35 | 7123.35 | 2.240 | 8.920 | |
| 9.36 | 9.36 | 7123.36 | 2.245 | 8.936 | |
| 9.37 | 9.37 | 7123.37 | 2.250 | 8.952 | |
| 9.38 | 9.38 | 7123.38 | 2.254 | 8.968 | |
| 9.39 | 9.39 | 7123.39 | 2.259 | 8.984 | |
| 9.40 | 9.40 | 7123.40 | 2.264 | 9.000 | |
| 9.41 | 9.41 | 7123.41 | 2.268 | 9.016 | |
| 9.42 | 9.42 | 7123.42 | 2.273 | 9.032 | |
| 9.43 | 9.43 | 7123.43 | 2.278 | 9.048 | |
| 9.44 | 9.44 | 7123.44 | 2.283 | 9.064 | |
| 9.45 | 9.45 | 7123.45 | 2.287 | 9.080 | |
| 9.46 | 9.46 | 7123.46 | 2.292 | 9.096 | |
| 9.47 | 9.47 | 7123.47 | 2.297 | 9.112 | |
| 9.48 | 9.48 | 7123.48 | 2.302 | 9.128 | |
| 9.49 | 9.49 | 7123.49 | 2.306 | 9.144 | |
| 9.50 | 9.50 | 7123.50 | 2.311 | 9.160 | |

| 9.51 | 9.51 | 7037.51 | 3.344 | 16.131 | | 9.51 | 9.51 | 7123.51 | 2.316 | 9.176 | |
|---------------------|---------------------|---------------------------|-----------------------|-------------------------|-----|---------------------|---------------------|--------------------|-----------------------|-----------------------|--|
| 9.52 | 9.52 | 7037.52 | 3.349 | 16.156 | | 9.52 | 9.52 | 7123.52 | 2.320 | 9.192 | |
| 9.53 | 9.53 | 7037.53 | 3.355 | 16.182 | • | 9.53 | 9.53 | 7123.53 | 2.325 | 9.208 | |
| 9.54 | 9.54 | 7037.54 | 3.360 | 16.208 | | 9.54 | 9.54 | 7123.54 | 2.330 | 9.224 | |
| 9.55 | 9.55 | 7037.55 | 3.366 | 16.234 | | 9.55 | 9.55 | 7123.55 | 2.335 | 9.240 | |
| 9.56 | 9.56 | 7037.56 | 3.371 | 16.259 | į į | 9.56 | 9.56 | 7123.56 | 2.339 | 9.256 | |
| 9.57 | 9.57 | 7037.57 | 3.377 | 16.285 | | 9.57 | 9.57 | 7123.57 | 2.344 | 9.272 | |
| 9.58 | 9.58 | 7037.58 | 3.382 | 16.311 | | 9.58 | 9.58 | 7123.58 | 2.349 | 9.288 | |
| 9.59 | 9.59 | 7037.59 | 3.388 | 16.336 | , | 9.59 | 9.59 | 7123.59 | 2.354 | 9.304 | |
| 9.60 | 9.60 | 7037.60 | 3.393 | 16.362 | , | 9.60 | 9.60 | 7123.60 | 2.358 | 9.320 | |
| 9.61 | 9.61 | 7037.61 | 3.399 | 16.388 | , | 9.61 | 9.61 | 7123.61 | 2.363 | 9.336 | |
| 9.62 | 9.62 | 7037.62 | 3.404 | 16.413 | | 9.62 | 9.62 | 7123.62 | 2.368 | 9.352 | |
| 9.63 | 9.63 | 7037.63 | 3.410 | 16.439 | | 9.63 | 9.63 | 7123.63 | 2.372 | 9.368 | |
| 9.64 | 9.64 | 7037.64 | 3.415 | 16.465 | | 9.64 | 9.64 | 7123.64 | 2.377 | 9.384 | |
| 9.65 | 9.65 | 7037.65 | 3.421 | 16.491 | | 9.65 | 9.65 | 7123.65 | 2.382 | 9.400 | |
| 9.66 | 9.66 | 7037.66 | 3.426 | 16.516 | , | 9.66 | 9.66 | 7123.66 | 2.387 | 9.416 | |
| 9.67 | 9.67 | 7037.67 | 3.432 | 16.542 | | 9.67 | 9.67 | 7123.67 | 2.391 | 9.432 | |
| 9.68 | 9.68 | 7037.68 | 3.437 | 16.568 | | 9.68 | 9.68 | 7123.68 | 2.396 | 9.448 | |
| 9.69 | 9.69 | 7037.69 | 3.442 | 16.593 | | 9.69 | 9.69 | 7123.69 | 2.401 | 9.464 | |
| 9.70 | 9.70 | 7037.09 | 3.448 | 16.619 | | 9.09 | 9.09 | 7123.09 | 2.401 | 9.480 | |
| 9.71 | 9.71 | 7037.70 | 3.453 | 16.645 | | 9.71 | 9.71 | 7123.70 | 2.410 | 9.496 | |
| 9.71 | 9.71 | 7037.71 | 3.453 | 16.670 | | 9.71 | 9.71 | 7123.71 | 2.410 | 9.496 | |
| 9.73 | 9.72 | 7037.72 | 3.464 | 16.696 | | 9.72 | 9.73 | 7123.72 | 2.413 | 9.528 | |
| 9.73 | 9.73 | 7037.73 | 3.404 | 16.722 | | 9.73 | 9.74 | 7123.73 | 2.425 | 9.544 | |
| 9.74 | 9.74 | 7037.74 7037.75 | 3.470 3.475 | 16.722 | | 9.74 | 9.74 | 7123.74 7123.75 | 2.425 2.429 | 9.544 | |
| 9.76 | 9.76 | 7037.76 | 3.481 | 16.773 | | 9.76 | 9.76 | 7123.76 | 2.434 | 9.576 | |
| 9.77 | 9.77 | 7037.76 | 3.486 | 16.773 | , | 9.77 | 9.77 | 7123.70 | 2.434 | 9.592 | |
| 9.78 | 9.78 | 7037.77 | 3.492 | 16.825 | | 9.77 | 9.78 | 7123.77 | 2.439 | 9.608 | |
| 9.79 | 9.78 | 7037.78 | 3.497 | 16.850 | | 9.78 | 9.79 | 7123.76 | 2.448 | 9.624 | |
| 9.79 | 9.79 | 7037.79 | 3.503 | 16.876 | , | 9.79 | 9.79 | 7123.79 | 2.448 | 9.640 | |
| 9.81 | 9.81 | 7037.80 | 3.508 | 16.902 | | 9.81 | 9.81 | 7123.81 | 2.458 | 9.656 | |
| | | | | | | 9.81 | | 7123.81 | | | |
| 9.82 | 9.82 9.83 | 7037.82 7037.83 | 3.514 3.519 | 16.927 16.953 | | 9.82 | 9.82 9.83 | 7123.82 | 2.462 2.467 | 9.672 9.688 | |
| 9.83 | 9.83 | 7037.83 | 3.519 | 16.953 | | 9.83 | 9.83 | 7123.83 | 2.467 | 9.688 | |
| 9.84 9.85 | 9.84 9.85 | 7037.84 7037.85 | 3.525 3.530 | 16.979 17.005 | | 9.84 9.85 | 9.84 9.85 | 7123.84 7123.85 | 2.472 2.477 | 9.704 9.720 | |
| | | | | | , | | | - | | | |
| 9.86 9.87 | 9.86 9.87 | 7037.86 | 3.536 3.541 | 17.030 | | 9.86 9.87 | 9.86 9.87 | 7123.86 | 2.481 2.486 | 9.736 9.752 | |
| | | 7037.87 | | 17.056 | | | | 7123.87 | | | |
| 9.88 | 9.88 | 7037.88 | 3.547 | 17.082 | | 9.88 | 9.88 | 7123.88 | 2.491 | 9.768 | |
| 9.89 | 9.89 | 7037.89 | 3.552 | 17.107 | | 9.89 | 9.89 | 7123.89 | 2.495 | 9.784 | |
| 9.90 | 9.90 | 7037.90 | 3.558 | 17.133 | , | 9.90 | 9.90 | 7123.90 | 2.500 | 9.800 | |
| 9.91 | 9.91 | 7037.91 | 3.563 | 17.159 | | 9.91 | 9.91 | 7123.91 | 2.505 | 9.816 | |
| 9.92 | 9.92 | 7037.92 | 3.569 | 17.184 | | 9.92 | 9.92 | 7123.92 | 2.510 | 9.832 | |
| 9.93 | 9.93 | 7037.93 | 3.574 | 17.210 | | 9.93 | 9.93 | 7123.93 | 2.514 | 9.848 | |
| 9.94 | 9.94 | 7037.94 | 3.579 | 17.236 | | 9.94 | 9.94 | 7123.94 | 2.519 | 9.864 | |
| 9.95 | 9.95 | 7037.95 | 3.585 | 17.262 | | 9.95 | 9.95 | 7123.95 | 2.524 | 9.880 | |

| 9.51 | 9.51 | 7123.51 | 2.316 | 9.176 | |
|------|------|---------|-------|-------|--|
| 9.52 | 9.52 | 7123.52 | 2.320 | 9.192 | |
| 9.53 | 9.53 | 7123.53 | 2.325 | 9.208 | |
| 9.54 | 9.54 | 7123.54 | 2.330 | 9.224 | |
| 9.55 | 9.55 | 7123.55 | 2.335 | 9.240 | |
| 9.56 | 9.56 | 7123.56 | 2.339 | 9.256 | |
| 9.57 | 9.57 | 7123.57 | 2.344 | 9.272 | |
| 9.58 | 9.58 | 7123.58 | 2.349 | 9.288 | |
| 9.59 | 9.59 | 7123.59 | 2.354 | 9.304 | |
| 9.60 | 9.60 | 7123.60 | 2.358 | 9.320 | |
| 9.61 | 9.61 | 7123.61 | 2.363 | 9.336 | |
| 9.62 | 9.62 | 7123.62 | 2.368 | 9.352 | |
| 9.63 | 9.63 | 7123.63 | 2.372 | 9.368 | |
| 9.64 | 9.64 | 7123.64 | 2.377 | 9.384 | |
| 9.65 | 9.65 | 7123.65 | 2.382 | 9.400 | |
| 9.66 | 9.66 | 7123.66 | 2.387 | 9.416 | |
| 9.67 | 9.67 | 7123.67 | 2.391 | 9.432 | |
| 9.68 | 9.68 | 7123.68 | 2.396 | 9.448 | |
| 9.69 | 9.69 | 7123.69 | 2.401 | 9.464 | |
| 9.70 | 9.70 | 7123.70 | 2.406 | 9.480 | |
| 9.71 | 9.71 | 7123.71 | 2.410 | 9.496 | |
| 9.72 | 9.72 | 7123.72 | 2.415 | 9.512 | |
| 9.73 | 9.73 | 7123.73 | 2.420 | 9.528 | |
| 9.74 | 9.74 | 7123.74 | 2.425 | 9.544 | |
| 9.75 | 9.75 | 7123.75 | 2.429 | 9.560 | |
| 9.76 | 9.76 | 7123.76 | 2.434 | 9.576 | |
| 9.77 | 9.77 | 7123.77 | 2.439 | 9.592 | |
| 9.78 | 9.78 | 7123.78 | 2.443 | 9.608 | |
| 9.79 | 9.79 | 7123.79 | 2.448 | 9.624 | |
| 9.80 | 9.80 | 7123.80 | 2.453 | 9.640 | |
| 9.81 | 9.81 | 7123.81 | 2.458 | 9.656 | |
| 9.82 | 9.82 | 7123.82 | 2.462 | 9.672 | |
| 9.83 | 9.83 | 7123.83 | 2.467 | 9.688 | |
| 9.84 | 9.84 | 7123.84 | 2.472 | 9.704 | |
| 9.85 | 9.85 | 7123.85 | 2.477 | 9.720 | |
| 9.86 | 9.86 | 7123.86 | 2.481 | 9.736 | |
| 9.87 | 9.87 | 7123.87 | 2.486 | 9.752 | |
| 9.88 | 9.88 | 7123.88 | 2.491 | 9.768 | |
| 9.89 | 9.89 | 7123.89 | 2.495 | 9.784 | |
| 9.90 | 9.90 | 7123.90 | 2.500 | 9.800 | |
| 9.91 | 9.91 | 7123.91 | 2.505 | 9.816 | |
| 9.92 | 9.92 | 7123.92 | 2.510 | 9.832 | |
| 9.93 | 9.93 | 7123.93 | 2.514 | 9.848 | |
| 9.94 | 9.94 | 7123.94 | 2.519 | 9.864 | |
| 9.95 | 9.95 | 7123.95 | 2.524 | 9.880 | |
| 9.96 | 9.96 | 7123.96 | 2.529 | 9.896 | |

| 9.97 9.97 7037.97 3.596 17.313 9.98 9.98 7037.98 3.601 17.339 9.99 9.99 7037.99 3.607 17.364 10.00 10.00 7038.00 3.612 17.390 10.01 10.01 7038.01 3.617 17.426 10.02 10.02 7038.02 3.623 17.462 10.03 10.03 7038.03 3.628 17.498 10.04 10.04 7038.04 3.633 17.534 10.05 10.05 7038.05 3.638 17.571 10.06 10.06 7038.06 3.644 17.607 10.07 10.07 7038.07 3.649 17.643 10.08 10.08 7038.08 3.654 17.679 10.10 10.10 7038.10 3.665 17.751 10.11 10.11 7038.11 3.676 17.823 10.12 10.12 7038.12 3.676 17.823 < | |
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| 10.02 10.02 7038.02 3.623 17.462 10.03 10.03 7038.03 3.628 17.498 10.04 10.04 7038.04 3.633 17.534 10.05 10.05 7038.05 3.638 17.571 10.06 10.06 7038.06 3.644 17.607 10.07 10.07 7038.07 3.649 17.643 10.08 10.08 7038.08 3.654 17.679 10.09 10.09 7038.09 3.660 17.715 10.10 10.10 7038.10 3.665 17.751 10.11 10.11 7038.11 3.670 17.787 10.12 10.12 7038.12 3.676 17.823 10.13 10.13 7038.13 3.681 17.859 10.14 10.14 7038.14 3.686 17.932 10.15 10.15 7038.15 3.692 17.932 10.16 10.16 7038.17 3.702 18.004 | |
| 10.03 10.03 7038.03 3.628 17.498 10.04 10.04 7038.04 3.633 17.534 10.05 10.05 7038.05 3.638 17.571 10.06 10.06 7038.06 3.644 17.607 10.07 10.07 7038.07 3.649 17.643 10.08 10.08 7038.08 3.654 17.679 10.09 10.09 7038.09 3.660 17.715 10.10 10.10 7038.10 3.665 17.751 10.11 10.11 7038.11 3.670 17.787 10.12 10.12 7038.12 3.676 17.823 10.13 10.13 7038.13 3.681 17.859 10.14 10.14 7038.14 3.686 17.895 10.15 10.15 7038.15 3.692 17.932 10.16 10.16 7038.17 3.702 18.004 | |
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| 10.12 10.12 7038.12 3.676 17.823 10.13 10.13 7038.13 3.681 17.859 10.14 10.14 7038.14 3.686 17.895 10.15 10.15 7038.15 3.692 17.932 10.16 10.16 7038.16 3.697 17.968 10.17 10.17 7038.17 3.702 18.004 | |
| 10.13 10.13 7038.13 3.681 17.859 10.14 10.14 7038.14 3.686 17.895 10.15 10.15 7038.15 3.692 17.932 10.16 10.16 7038.16 3.697 17.968 10.17 10.17 7038.17 3.702 18.004 | |
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| 10.31 10.31 7038.31 3.777 18.509 | |
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| 10.31 10.31 7038.31 3.777 18.305 10.32 10.32 7038.32 3.782 18.545 | |
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| 10.32 10.32 7038.32 3.782 18.545 10.33 10.33 7038.33 3.787 18.581 10.34 10.34 7038.34 3.793 18.617 10.35 10.35 7038.35 3.798 18.654 | |
| 10.32 10.32 7038.32 3.782 18.545 10.33 10.33 7038.33 3.787 18.581 10.34 10.34 7038.34 3.793 18.617 | |
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| 10.32 10.32 7038.32 3.782 18.545 10.33 10.33 7038.33 3.787 18.581 10.34 10.34 7038.34 3.793 18.617 10.35 10.35 7038.35 3.798 18.654 10.36 10.36 7038.36 3.803 18.690 10.37 10.37 7038.37 3.809 18.726 10.38 10.38 7038.38 3.814 18.762 | |
| 10.32 10.32 7038.32 3.782 18.545 10.33 10.33 7038.33 3.787 18.581 10.34 10.34 7038.34 3.793 18.617 10.35 10.35 7038.35 3.798 18.654 10.36 10.36 7038.36 3.803 18.690 10.37 10.37 7038.37 3.809 18.726 10.38 10.38 7038.38 3.814 18.762 10.39 10.39 7038.39 3.819 18.798 | |

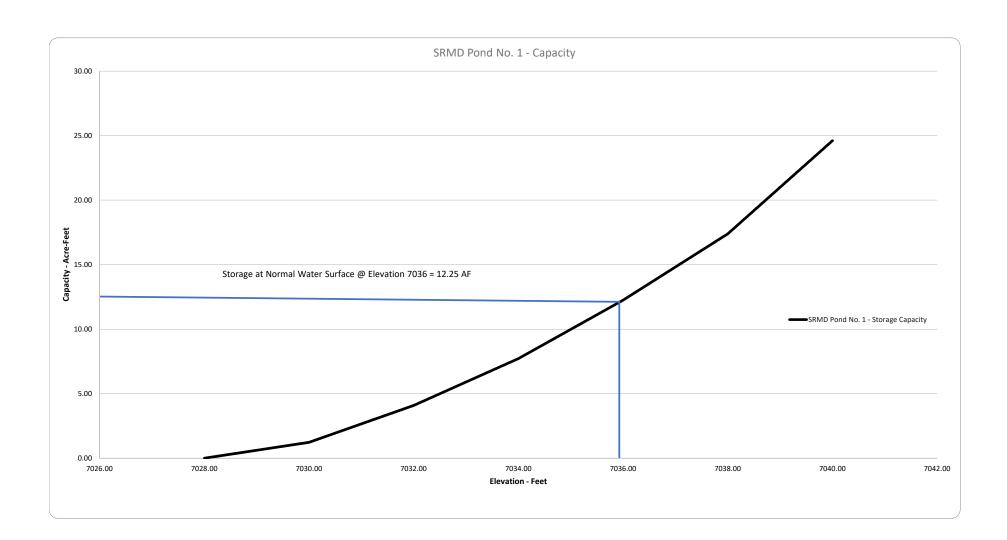
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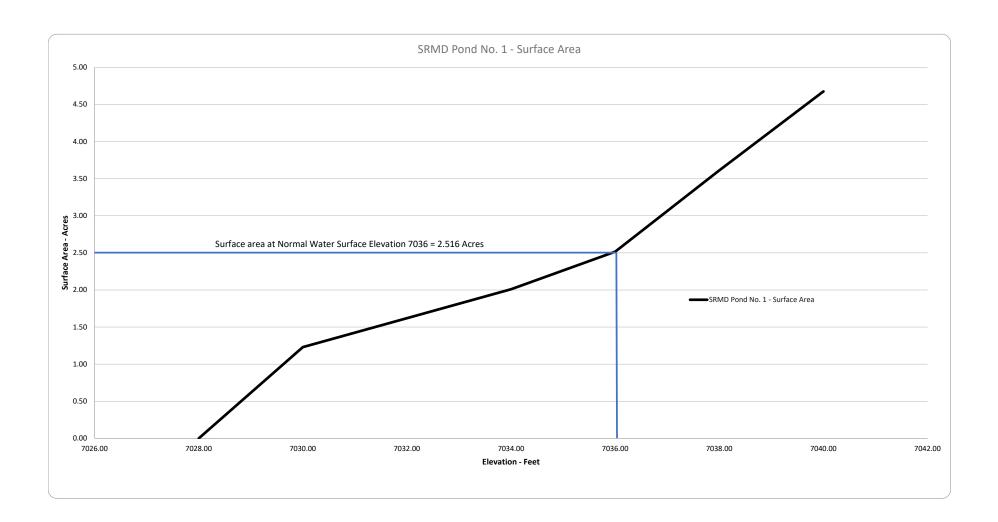
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| 10.46 | 10.46 | 7038.46 | 3.857 | 19.051 | |
| 10.47 | 10.47 | 7038.47 | 3.862 | 19.087 | |
| 10.48 | 10.48 | 7038.48 | 3.867 | 19.123 | |
| 10.49 | 10.49 | 7038.49 | 3.873 | 19.159 | |
| 10.50 | 10.50 | 7038.50 | 3.878 | 19.195 | |
| 10.51 | 10.51 | 7038.51 | 3.883 | 19.231 | |
| 10.52 | 10.52 | 7038.52 | 3.889 | 19.267 | |
| 10.53 | 10.53 | 7038.53 | 3.894 | 19.303 | |
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| 10.55 | 10.55 | 7038.55 | 3.904 | 19.376 | |
| 10.56 | 10.56 | 7038.56 | 3.910 | 19.412 | |
| 10.57 | 10.57 | 7038.57 | 3.915 | 19.448 | |
| 10.58 | 10.58 | 7038.58 | 3.920 | 19.484 | |
| 10.59 | 10.59 | 7038.59 | 3.926 | 19.520 | |
| 10.60 | 10.60 | 7038.60 | 3.931 | 19.556 | |
| 10.61 | 10.61 | 7038.61 | 3.936 | 19.592 | |
| 10.62 | 10.62 | 7038.62 | 3.942 | 19.628 | |
| 10.63 | 10.63 | 7038.63 | 3.947 | 19.664 | |
| 10.64 | 10.64 | 7038.64 | 3.952 | 19.700 | |
| 10.65 | 10.65 | 7038.65 | 3.958 | 19.737 | |
| 10.66 | 10.66 | 7038.66 | 3.963 | 19.773 | |
| 10.67 | 10.67 | 7038.67 | 3.968 | 19.809 | |
| 10.68 | 10.68 | 7038.68 | 3.974 | 19.845 | |
| 10.69 | 10.69 | 7038.69 | 3.979 | 19.881 | |
| 10.70 | 10.70 | 7038.70 | 3.984 | 19.917 | |
| 10.71 | 10.71 | 7038.71 | 3.990 | 19.953 | |
| 10.72 | 10.72 | 7038.72 | 3.995 | 19.989 | |
| 10.73 | 10.73 | 7038.73 | 4.000 | 20.025 | |
| 10.74 | 10.74 | 7038.74 | 4.006 | 20.061 | |
| 10.75 | 10.75 | 7038.75 | 4.011 | 20.098 | |
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| 10.77 | 10.77 | 7038.77 | 4.022 | 20.170 | |
| 10.78 | 10.78 | 7038.78 | 4.027 | 20.206 | |
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| 10.80 | 10.80 | 7038.80 | 4.037 | 20.278 | |
| 10.81 | 10.81 | 7038.81 | 4.043 | 20.314 | |
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| 10.83 | 10.83 | 7038.83 | 4.053 | 20.386 | |
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| 10.85 | 10.85 | 7038.85 | 4.064 | 20.459 | |
| 10.86 | 10.86 | 7038.86 | 4.069 | 20.495 | |
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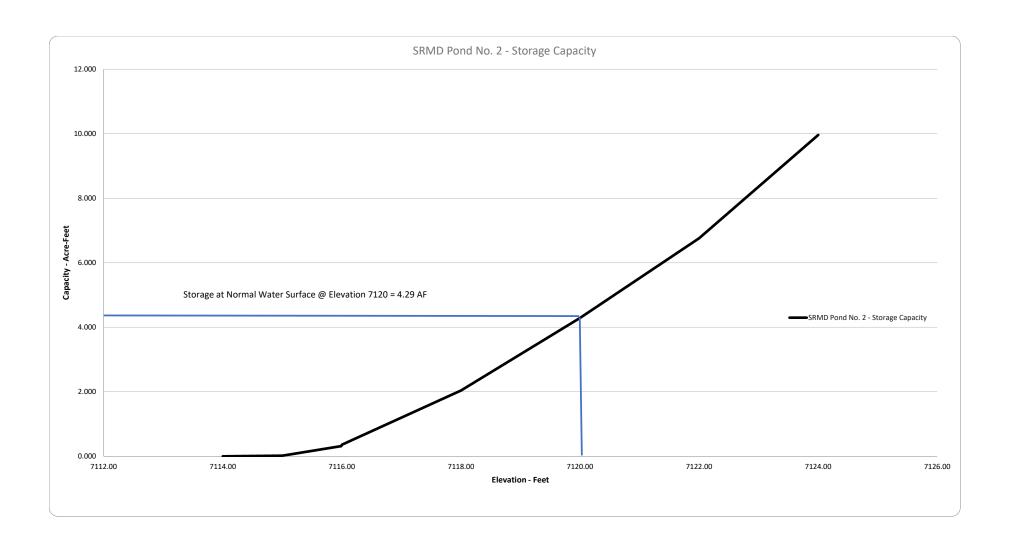
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| | | | | | |
| 10.91 | 10.91 | 7038.91 | 4.096 | 20.675 | |
| 10.92 | 10.92 | 7038.92 | 4.101 | 20.711 | |
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| 10.94 | 10.94 | 7038.94 | 4.112 | 20.783 | |
| 10.95 | 10.95 | 7038.95 | 4.117 | 20.820 | |
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| 10.97 | 10.97 | 7038.97 | 4.128 | 20.892 | |
| 10.98 | 10.98 | 7038.98 | 4.133 | 20.928 | |
| 10.99 | 10.99 | 7038.99 | 4.139 | 20.964 | |
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| 11.04 | 11.04 | 7039.04 | 4.165 | 21.144 | |
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| 11.10 | 11.10 | 7039.10 | 4.197 | 21.361 | |
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| 11.15 | 11.15 | 7039.15 | 4.224 | 21.542 | |
| 11.16 | 11.16 | 7039.16 | 4.229 | 21.578 | |
| 11.17 | 11.17 | 7039.17 | 4.234 | 21.614 | |
| 11.18 | 11.18 | 7039.18 | 4.240 | 21.650 | |
| 11.19 | 11.19 | 7039.19 | 4.245 | 21.686 | |
| 11.20 | 11.20 | 7039.20 | 4.250 | 21.722 | |
| 11.21 | 11.21 | 7039.21 | 4.256 | 21.758 | |
| 11.22 | 11.22 | 7039.22 | 4.261 | 21.794 | |
| 11.23 | 11.23 | 7039.23 | 4.266 | 21.830 | |
| 11.24 | 11.24 | 7039.24 | 4.272 | 21.866 | |
| 11.25 | 11.25 | 7039.25 | 4.277 | 21.903 | |
| 11.26 | 11.26 | 7039.26 | 4.282 | 21.939 | |
| 11.27 | 11.27 | 7039.27 | 4.288 | 21.975 | |
| 11.28 | 11.28 | 7039.28 | 4.293 | 22.011 | |
| 11.29 | 11.29 | 7039.29 | 4.298 | 22.047 | |
| 11.30 | 11.30 | 7039.30 | 4.303 | 22.083 | |
| | 11.31 | 7039.31 | 4.309 | 22.119 | |
| 11 31 | 11.51 | 7033.31 | 7.303 | | |
| 11.31 | 11 32 | 7039 32 | 4 314 | 22 155 | |
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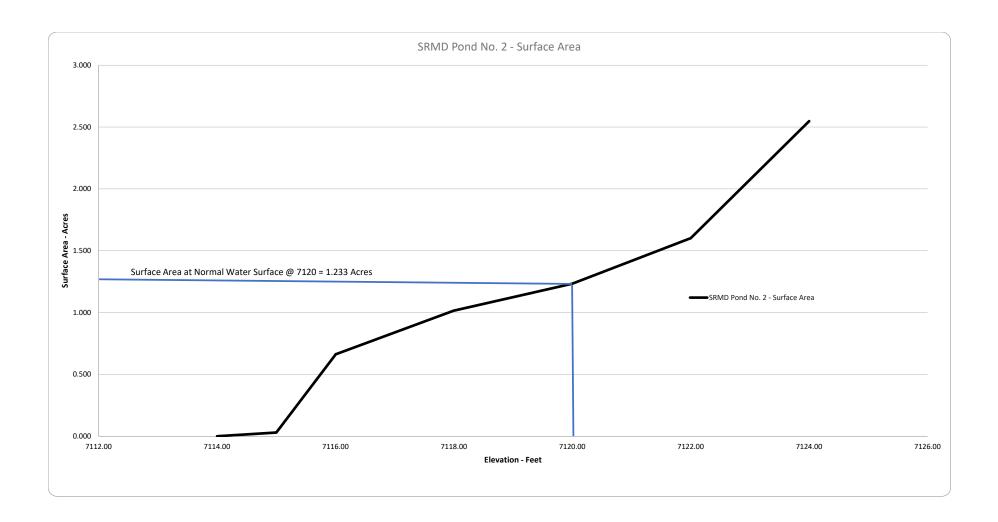
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| 11.42 | 11.42 | 7039.42 | 4.367 | 22.516 | |
| 11.43 | 11.43 | 7039.43 | 4.373 | 22.552 | |
| 11.44 | 11.44 | 7039.44 | 4.378 | 22.588 | |
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| 11.51 | 11.51 | 7039.51 | 4.415 | 22.841 | |
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| 11.56 | 11.56 | 7039.56 | 4.442 | 23.022 | |
| 11.57 | 11.57 | 7039.57 | 4.447 | 23.058 | |
| 11.58 | 11.58 | 7039.58 | 4.452 | 23.094 | |
| 11.59 | 11.59 | 7039.59 | 4.458 | 23.130 | |
| 11.60 | 11.60 | 7039.60 | 4.463 | 23.166 | |
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| 11.69 | 11.69 | 7039.69 | 4.511 | 23.491 | |
| 11.70 | 11.70 | 7039.70 | 4.516 | 23.527 | |
| 11.71 | 11.71 | 7039.71 | 4.522 | 23.563 | |
| 11.72 | 11.72 | 7039.72 | 4.527 | 23.599 | |
| 11.73 | 11.73 | 7039.73 | 4.532 | 23.635 | |
| 11.74 | 11.74 | 7039.74 | 4.538 | 23.671 | |
| 11.75 | 11.75 | 7039.75 | 4.543 | 23.708 | |
| 11.76 | 11.76 | 7039.76 | 4.548 | 23.744 | |
| 11.77 | 11.77 | 7039.77 | 4.554 | 23.780 | |
| 11.78 | 11.78 | 7039.78 | 4.559 | 23.816 | |
| 11.79 | 11.79 | 7039.79 | 4.564 | 23.852 | |
| 11.80 | 11.80 | 7039.80 | 4.569 | 23.888 | |

| 11.81 | 11.81 | 7039.81 | 4.575 | 23.924 | |
|-------|-------|---------|-------|--------|--|
| 11.82 | 11.82 | 7039.82 | 4.580 | 23.960 | |
| 11.83 | 11.83 | 7039.83 | 4.585 | 23.996 | |
| 11.84 | 11.84 | 7039.84 | 4.591 | 24.032 | |
| 11.85 | 11.85 | 7039.85 | 4.596 | 24.069 | |
| 11.86 | 11.86 | 7039.86 | 4.601 | 24.105 | |
| 11.87 | 11.87 | 7039.87 | 4.607 | 24.141 | |
| 11.88 | 11.88 | 7039.88 | 4.612 | 24.177 | |
| 11.89 | 11.89 | 7039.89 | 4.617 | 24.213 | |
| 11.90 | 11.90 | 7039.90 | 4.623 | 24.249 | |
| 11.91 | 11.91 | 7039.91 | 4.628 | 24.285 | |
| 11.92 | 11.92 | 7039.92 | 4.633 | 24.321 | |
| 11.93 | 11.93 | 7039.93 | 4.639 | 24.357 | |
| 11.94 | 11.94 | 7039.94 | 4.644 | 24.393 | |
| 11.95 | 11.95 | 7039.95 | 4.649 | 24.430 | |
| 11.96 | 11.96 | 7039.96 | 4.655 | 24.466 | |
| 11.97 | 11.97 | 7039.97 | 4.660 | 24.502 | |
| 11.98 | 11.98 | 7039.98 | 4.665 | 24.538 | |
| 11.99 | 11.99 | 7039.99 | 4.671 | 24.574 | |
| | | | | | |









DISTRICT COURT, WATER DIVISION 1, COLORADO

Case No. 03-CW-018 (85CM445)

RULING AND DECRFE OF THE WATER COURT

CONCERNING THE WATER RIGHTS OF NHK GROUP, LTD., a Colorado Limited Partnership,

Mary 11 42-55

IN THE NONTRIPUTARY DENVER, ARAPAHOE, AND LARAMIE-FOX HILLS AQUIFERS AND THE NOT NONTRIBUTARY UPPER DAWSON AQUIFER, in E! Faso County.

THIS CLAIM to amend the existing decree in Case No. 85-CW-445, entered on December 12, 1988, was filed with the Water Division Water Clerk on February 26, 1993. This ruling and decree is designed to amend such existing decree, and paragraph numbers below correspond with the paragraph numbers in the original decree. All matters contained in the application having been reviewed, and testimony having been taken where such testimony is necessary, and such corrections made as are indicated by the evidence presented herein, IT IS HEREBY THE RULING OF THE WATER REFFREE:

FINDINGS OF FACT

1. Name Address and Telephone Number of Applicant:

NHK Group, Ltd., a Colorado I mited Partnership N.B. Finley, General Partner 7111 West Alameda Avenue, Unit L. Lakewood, Colorado 80226

2. History of Case:

The Applicant is represented in this matter by Duncan, Ostrander & Dingess, P.C. (Robert E. Schween). The original application for underground water rights underlying the property described herein was filed with this Court of December 31, 1985. An amended application for under ground water rights from nontributary and not nontributary sources was filed with this Court on March 31, 1987 and published in the March 1987 Water Resume for Water Division 1. A timely statement of opposition was filed to the amended application by the City of Colorado Springs (Gregory L. Johnson). A decree in Case No 85-CW-445 was entered on December 12, 1988. An application to amend the decree was filed on February 26, 1993, by NHK Group, Ltd., (1) to change the ownership of the land and ground water rights decreed, (2) to indicate additional well sites in each achiev, and (3) to various from the decree 60 acre-feet per year of Davson aquifer ground water underlying a particular narcel. The City of Colorado Springs also filed a statement of opposition to this amended application (Wm. Kell) Dude). No other statements of

Wt. Rts. of NHK Group, Ltd. Case No. 93-CW 918 (85CW415) Page 2

opposition or motions to intervene have been filed, and the time for filing such statements of opposition has expired.

3. Subject Matter Jurisdiction:

Timely and adequate notice of the pendency of these proceedings has been given in the manner required by law. 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.

4. Aguifers and Location of Ground Water:

- a. In this proceeding, Applicant seeks an amended decree confirming all previously decreed rights to all ground water recoverable from the nontributary Denver, Arapaloie, and Laramie-Fox Hills aquifers and the not nontributary Dawson aquifer, except as stated below, underlying Applicant's property in El Paso County, Colorado. The Applicant's property is described as follows: all of Section 16; the E1/2 of SW1/4 and the SE1/4 of Section 17; the E1/2 of the E1/2 W1/2 of Section 20; the NE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21, all in Township 11 South, Range 65 West of the 6th P.M., consisting of 1840 acres, more or less. Applicant is the owner of the ground water rights underlying the above described land and no part of such land lies within a designated ground water basin. A general location map of the property is attached hereto as Exhibit "A."
- b. Applicant seeks to vacate from the decree, as amended, the rights in 60 acre-feet per year in the Dawson aquifer, which 60 acre-feet per year shall be vacated from those Dawson aquifer ground water rights underlying a specified 480 acres of land, generally described as the W1/2 and the NE 1/4 of Section 21, Township 11 South, Range 65 West of the 6th P.M. Such land area, underlying which the 60 acre-feet per year has been vacated from the decree, is shown in the attached annotated location map, Exhibit "B."

5. Specific Wells Claimed:

The legal descriptions of the wells to be constructed under this decree, as amended, are as follows. Wells and well locations originally decreed in Case No. 85-CW-445 are shown with the suffix (A), and new wells and well locations pursuant to this application to amend such decree are indicated below by the suffix (B). All well locations are in Township 11 South, Range 65 West of the 6th P.M., in El Paso County, Colorado.

Wt. Rts. of NHK Group, Ltd. Case No. 93 CW 918 (85CW445) Corrected Page 3

2 Dawson Aquifect

| Men No. | Ouarter/Ouarter | Section No. | Feet From Section Line | | |
|----------|-----------------|-------------|------------------------|--------|--|
| DA-01(A) | SW,NE | 16 | 2200 N | 2200 E | |
| DA-02(A) | NESE | 17 | 1500 S | 500 E | |
| DA-03(A) | NW,NE | 21 | 800 N | 2200 E | |
| DA-14(A) | NW,SW | 2 i | 1500 S | 400 W | |
| DA-01(B) | NW,NW | 16 | 170 N | 170 W | |
| DA-02(B) | MENE | 16 | 170 N | 170 E | |
| DA-03(E) | SW,NE | 1á | 2640 N | 2710 W | |
| DA-04(B) | 5\V;5\V | 15 | 4200 N | 170 W | |
| DA-05(B) | SESE | 16 | 3970 N | 170 E | |
| DA-06(B) | SWINE | 21 | 2310 N | 1570 E | |
| DA-07(B) | NESE | 20 | 2830 N | 170 E | |
| DA-03(B) | SESW | 21 | 270 S | 2370 W | |
| DA-09(B) | nesw | 17 | 2479 S | 1490 W | |
| DA-10(B) | SENW | 20 | 1570 N | 1670 W | |
| DA-11(B) | SE,SW | 20 | 170 S | 1570 W | |

b. Denvet Aquifer:

| Well No. | .Quarte:/Quarter | Section | Feet From Section Line | | |
|----------|------------------|---------|------------------------|--------|--|
| D-01(A) | SW,NE | 16 | 2000 N | 2150 E | |
| D-02(A) | NE.SP. | 17 | 1500 S | 450 E | |
| D-03(A) | NW,NE | 21 | 800 N | 2150 E | |
| D-04(A) | NW,SW | 21 | 1500 S | 450 W | |
| D-01(B) | NWNW | 16 | 100 N | 160 W | |
| D-02(B) | NE,NE | 16 | 100 N | 100 E | |
| D-03(B) | NESW | 16 | 2710 N | 2640 W | |
| D-04(B) | SW.SW | 16 | 4270 N | 100 W | |
| D-05(B) | NESE | 16 | 3900 N | 100 E | |
| D-06(B) | SW.NE | 21 | 2240 N | 1500 E | |
| D-07(B) | NE,SE | 20 | 2900 N | 100 E | |
| D-08(B) | SESW | 21 | 200 S | 2440 W | |
| D-09(B) | NESW | 17 | 2540 S | 1420 W | |
| D-05(B) | SELIW | 20 | 1500 N | 1600 W | |
| D-11(B) | SESW | 20 | 100 S | 1500 W | |

Wt. Rts. of NHK Group, Ltd. Case No. 93-CW-018 (85CW445) Corrected Page 4

c. Arspahes Aquifer:

| Well No. | Ouarter/Ouarter | Section | Feet From Section Line | | |
|----------|-----------------|---------|------------------------|--------|--|
| A-01(A) | SW,NE | 16 | 2050 N | 2200 E | |
| A-02(A) | NESE | 17 | 1450 S | 500 B | |
| A-03(A) | NW.NE | 21 | 850 N | 2200 E | |
| A-04(A) | NWSW | 21 | 145Ū Š | 400 W | |
| A-05(A) | SW,NB | 20 | 1500 N | 2500 B | |
| A-01(B) | NW,NW | 16 | 100 N | 170 W | |
| A-02(B) | NENE | 16 | 100 N | 170 B | |
| A-03(B) | Center Point | 16 | 2640 N | 2640 W | |
| A-04(5) | SW,SW | 16 | 4200 N | 100 W | |
| A-05(B) | NESE | 16 | 3900 N | 170 E | |
| A-06(B) | SW.NE | 21 | 2240 N | 1570 E | |
| A-07(B) | NE.SR | 20 | 2830 N | 100 E | |
| A-08(B) | SRSW | 21 | 270 S | 2440 W | |
| A-09(B) | NESW | 17 | 2540 S | 1480 W | |
| A-10(B) | SHIM MEZON | 20 | 1500 N | 1570 W | |
| A-10(B) | SE,SW | 20 | 170 S | 1500 W | |

d Laramie-Fox Hills Aquifer:

| Well No. | Ouarier/Ouarler | Section | Feet From Section Line | | |
|-------------|-----------------|---------|------------------------|---------|--|
| LFH-01(A) | SWNB | 16 | 2050 N | 2150 B | |
| 1FH-02(A) | NE.SE | 17 | 1450 S | 450 E | |
| LFH Ob(A) | NW,NE | 21 | 850 N | 2150 B | |
| 1.FH-04(A) | NWSW | 21 | 1450 S | 450 W | |
| 1FH-91(B) | WN.WN | 16 | 170 N | 100 W | |
| LFH-02(B) | NENE | 16 | 170 N | 100 B | |
| 1.F11-05(B) | WRSW | 16 | 2710 N | 2170 W | |
| 1FH-04(D) | SW,SW | 16 | 4270 N | 170 W | |
| LFH-05(B) | NE,SE | 16 | 3970 N | 100 E | |
| LFH-06(B) | SW,NE | 21 | 2310 N | 1500 E | |
| LFH-07(B) | NESE | 20 | 2910 N | 170 B | |
| LFH-06(B) | SÉ,SW | 21 | 200 S | 2370 W | |
| J.FH-09(B) | NESW | 17 | 2470 S | 1420 W | |
| LFH-10(B) | SE,NW | 30 | 1570 N | 1600 V/ | |
| LFH-11(B) | SE.SW | 20 | 100 S | 1570 W | |

7. Average Annual Amounts of Withdrawal Available:

a. Not Nontributary Dawson Aquifer:

Pursuant to the Denver Basin Rules, the ground water in the Dawson aquifer underlying Applicant's property is classified as not nontributary ground water. The hydrologic values and the average annual amount available for withdrawal from the Dawson aquifer are as follows:

Upper Dawson Aquifer

| Actrese | Sand Thickness | Specified Yield | Average Annual And. in Acta-Feet |
|---------|-------------------|-----------------|----------------------------------|
| 1840 | 490 feet | .20% | 1743° |

- (1) The above average annual amount reflects a reduction of 60 acre-feet per year from the amount indicated in the original decree. Such 60 2016-feet per year is vacated from and no longer part of this decree, as amended
- (2) By separate Stipulation, Applicant and Objector City of Colorado Springs, have agreed that any and all exempt wells which may be applied for or issued to overlying landowners shall be limited to production from the Dawson aquifer. Such Stipulation, dated July 22, 1993, is incorporated herein by this reference, and attached herein as Exhibit "C".

b. Nontributary Denver, Aranahoe, and Laramie-Fox Hills Aquifers:

Values and average annual amounts for the Denver, Arapahoe, and Laramie-Fox Hills aquifers unverlying Applicant's property remain as stated in the existing decree.

CONCLUSIONS OF LAW

16. The rights to nontributary and not nontributary ground water determined herein shall not be soministered in accordance with priority of appropriation. Such rights are not "conditional vater rights" as defined by £ 37-92-10.(6), C.R.S. The provisions of £ 37-92-301(4), C.R.S., requiring findings of reasonable diligence are not applicable to the ground water rights determined herein. The determination of ground water rights herein need not include a date of initiation of the withdrawal project. See £ 37-92-305(11), C.R.S. Ground water herein which is not nontributary shall be administered only pursuant to £3 37-90-137(4) and 37-90-137(9), C.R.S.

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Wt. Rts. of NHK GROUP, Vol. 1993 Case No. 93-CW-018 (85GW445) Rock STATE (85GW445)

17. Subject to paragraph 20 below, Applicant is entitled to permits to construct the wells described in paragraph 5 hereof which will withdraw nontributary and not nontributary ground water pursuant to § 37-90-137(4), C.R.S., and such additional wells as may be required in the future to withdraw such ground water pursuant to § 37-90-137(10), C.R.S.

IT IS THEREFORE, ORDERED, ADJUDGED, AND DECREED THAT:

22. All provisions of the original decree in this matter, Case No. 85-CW-445, remain in effect unless specifically amended hereby.

RULING ENTERED this 11thday of August , 1993

Raymond S. Liesman

Water Referee, Water Division 1

State of Colorado

THE COURT DOTH FIND THAT NO PROTEST TO THE RULING OF THE REFFREE HAS BEEN FILED. THE FOREGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

DATED: AUG 3 1 1993

BY THE COURT:

Robert K. Behrman

Water Judge, Water Division 1

State of Colorado

CENTRAL FILES

Wt. Rts. of NHK Group, 1 td. Case No. 93-CW-018 (85CW445) Page 7

APPROVED AS TO FORM AND CONTENT:

DUNCAN, OSTRANDER & DINGESS, F.C.

Date: A4. 2, 1993

Robert E. Schween, #12923 7800 East Union Avenue, Suite 200

Denver, Colorado 80237 Telephone: (303) 779-0200

ATTORNEYS FOR APPLICANT NHK GROUP, LTD.

ANDERSON, JOHNSON & GIANUNZIO

Date: July 22, 1993

By: See Manual See Alle Co. Mark T. Pither, \$12629
William Kelly Dude, \$13206
104 South Cascade Avenue, Suite 204
P. O. Box 240
Colorado Springs, Colorado 80901-0240
Telephone: (719) 632-3545

ATTORNEYS FOR OBJECTOR CITY OF COLORADO SPRINGS

a: 93-CW-018A.DEC

DISTRICT COURT, WATER DIVISION 1, COLORADO,

FERENED.

ESTRICT COUP WATER DV. I

Case No. 93-CW-018 (85-CW-445)

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AMENDED RILLING AND DECREE OF THE WATER COURT

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CONCERNING THE WATER RIGHTS OF: SHAMROCK INVESTMENTS, A WYOMING LIMITED LIABILITY COMPANY,

IN THE NONTRIBUTARY DENVER, ARAPAHOE, AND LARAMIE-FOX HILLS AQUIFERS AND THE NOT NONTRIBUTARY DAWSON AQUIFER,

IN EL PASO COUNTY.

THIS CLAIM to amend the existing decree in Case No. 65-CW-445, entered on December 12, 1988, was filed with the Water Division Water Clerk on February 26, 1993. A Motion to Amend Decree was filed on August 2, 1994, to correct the name of the owner of the decreed water rights and to vacate additional Dawson aquifer water rights. This amended ruling and decree is designed to restate such existing decree incorporating the amendments decreed in Case No. 93-CW-018 and granting the amendments requested in the Motion to Amend Decree. All matters contained to the application in Case No. 93-CW-018 and the Motion to Amend Decree having been reviewed, and testimony having been taken where such testimony is necessary, and such corrections made as are indicated by the evidence presented herein, IT IS HEREBY THE RULING OF THE WATER REFEREE:

FINDINGS OF FACT

1. Name, Address, and Telephore Number of Applicant:

Shainrock Investments, a Wyoning Limited Liability Company 432 Happy Canyon Read Castle Rock, Colorado 80104

Please direct all correspondence and inquiries to:

Robert E. Schweer, Esq.
7800 East Union Avenue, Suite 200
Denver, Colorado 80237
(303) 175-0201 (Telephene)
(303) 179-3662 (Telefax)

History of Case: 2.

Original Decree.

The Applicant is represented in this matter by Robert E. Schween. The everlying land area subject to the original decree in Case No. 85-CW-445 is the Bar X Ranch, consisting of 1840 acres, more or less, located in Sections 16, 17, 20, and 21 in Township 11 South, Range 65 West of the 6th P.M., in El Paso County, Colorado. A General Location Map of the property is attached hereto as Exhibit A. The original application for underground water rights underlying the property was filed with this Court of December 31, 1985. An amended application for under ground water rights from nontributary and not nontributary sources was filed with this Court on March 31, 1987, and published in the March 1987 Water Resume for Water Division 1. A timely statement of opposition was filed to the amended application by the City of Colorado Springs. A decree in Case No. 85-CW-445 was entered on December 12, 1988.

Amendments to the Original Decree. В.

Case No. 93-CW-018

- An application to amend the decree was filed on February 26, 1993, by NHK Group, Ltd., a specessor in interest to the original Applicants. A decree in Case No. 93-CW-018 was ontered on August 31, 1993, which docree operates to amend the original drotter for the following purposes:
- To indicate the owners of the land and ground water rights decreed (a) in Case No. 63-CW-445 was NHK Group, Ltd.;

To specify additional well sites for wells to be constructed into each **(b)**

equifice, and To vacate from the decree 60 acre-feet of Dawson aquifer water (c) underlying a specified 480 acres of land which had been conveyed to Aberdeen Investments, Inc.

Motion to Amend Decree

Change in Cwnership. In August, 1994, Shamrock Investments, a Wyoming Limited Liability Company, the successor in interest to the property and decreed water rights, moved to amend the original decree, as amended, to indicate that it is the present owner of the deep aquifer ground water underlying the 1840 acres of the original Bar X Panch, except for the 60 acre-feet in the Dawton aquifer conveyed to Aberdeen Investments, Inc., and vacated from the original decree by the decree issued in Case No. 72-CW-018.

- (3) Release of an Additional 80 Acre-Peet Per Year of Dawson Aquifer Ground Water. By deed, Movant Shamrock Investments conveyed 312 acres of its property to Aberdeen Investments, Inc., a Colorado corporation. Along with the 312 acres of land, generally described as the East 1/2 of Section 16, Range 65 West, Township 11 South of the 6th P.M., and shown on Exhibit B hereto, Shamrock Investments also conveyed to Aberdeen Investments, Inc., eighty (80) acre-feet annually of ground water from the Dawson aquifer underlying all of said Section 16. This additional 80 acre-feet per year of Dawson aquifer ground water must also be racated from the decree, as amended.
- C. Although it no longer owns the 60 acre-feet of Dawson aquifer ground water previously conveyed to Aberdeen Investments, Inc., and vacated from the decree in Case No. 93-CW-018, nor the 80 acre-feet of Dawson aquifer ground water subsequently conveyed to Aberdeen Investments, Inc., Shamrock Investments owns all remaining Dawson aquifer ground water and all other ground water in this decree underlying the entire 1840 acre Bar X Ranch property.

3. Subject Matter Invisciction:

Timely and adequate notice of the pendency of these proceedings has been given in the manner required by law. 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.

4. Aprifus and Location of Ground Water:

A. Shamrock investments seeks an amended decree confirming all previously decreed rights to all ground water recoverable from the nontributary Deover. Arepahoe, and Laramie-Fox Hills agoiffers and the not contributary Dawson aquifer, except as stated below, underlying the subject property in El Paor County, Colorado. The property is described as follows: all of Section 16; the El/2 of SW1/4 and the SE1/4 of Section 17; the El/2 of the fil/2 W1/2 of Section 20; the HE1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21, all in Township 11 South, Range 65 West of the 6th P M., consisting of 1840 acres, note or less. Shamrock Investments is the owner of the ground water rights underlying the above-described land and no part of such land lies within a designated ground water basin. See Exhibit A.

B. This amended rilling and decree will vacate from the decree the rights in a total of 140 acre-feet per year in the Dawson aquifer, of which 60 AF/Yr, shall be vacated from those Dawson aquifer ground water rights underlying a specified 480 acres of land, generally described as the W1/2 and the NE 1/4 of Section 21, and 80 AF/Yr, shall be vacated from those Dawson aquifer ground water rights underlying 640 acres of land in Section 16, both areas in Township 11 South, Range 65 West of the 6th P.M. Such land areas are shown in the attached annotated location map, Exhibit "B."

5. Specific Wells Claimed:

The legal descriptions of the wells to be constructed under this decree are as follows. Wells and well locations originally decreed in Case No. 85-CW-445 are whom with the suffix (A), and new wells and well locations decreed in Case No. 93-CW-918 are indicated below by the suffix (B). All well locations are in Township II South, Range 65 West of the 6th P.M., in El Paso County, Colorado.

A. Dawson Aquifer:

| Well life. | Quarter/Quarter | Section No. Feet From Section Line | | | |
|------------|-----------------|------------------------------------|---------|--------|--|
| DA-01(A) | SW,NE | 16 | 2200 N | 2260 E | |
| DA-02(A) | NR.SE | i7 | i500 S | 500 E | |
| DA-03(A) | NW,NE | 21 | 800 N | 2200 E | |
| DA-04(A) | WZ, WM | 21 | 1500 S | 400 W | |
| DA-01(B) | NW,NW | ló | 170 N | 170 W | |
| DA-02(B) | NE,NE | 16 | 170 N | 170 E | |
| DA-33(9) | SW, HE | 16 | 2640 N | 2710 W | |
| DA-04(B) | SW,SW | 16 | 4200 N | 179 W | |
| DA-05(P) | SE.SE | 16 | 3970 N | 1?0 E | |
| DA-06(B) | SW.NE | 21 | 2310 M | 1570 E | |
| DA-07(B) | ne,se | 29 | 2830 rt | 170 E | |
| DA-08(B) | SE,SW | 21 | 270 S | 2370 ₩ | |
| DA-09(B) | NB,SW | 17 | 2470 S | 1490 W | |
| DA-10(B) | SS,NW | 20 | 1570 N | 1670 W | |
| DA-11(B) | SE SW | 20 | 170 S | 1570 W | |

| Ď. | Denver & | lanifer: |
|----|----------|----------|
|----|----------|----------|

| Well No. | .Quarter/Quarter | Section | Feet From Section Line | |
|----------|------------------|---------|------------------------|--------|
| D-01(A) | SW,NE | 16 | 2009 N | 2150 E |
| D-02(A) | NE,SE | 17 | 1500 S | 450 E |
| D-03(A) | NW,NE | 21 | 800 N | 2150 E |
| D-04(A) | NW.SW | 21 | 1500 S | 450 W |
| D 01(B) | NW,NW | 16 | 100 N | 100 W |
| D-02(B) | - NE,NE | 16 | 100 N | 100 E |
| D-03(B) | NE,SW | 16 | 2710 H | 2640 W |
| D-04(B) | SW,SW | 16 | 4270 N | 100 W |
| D-05(B) | NE,SE | 16 | 3900 N | 100 E |
| D-06(B) | SW,NE | 21 | 2240 N | 1500 E |
| D-07(B) | NE,SB | 29 | 2900 N | 100 E |
| D 38(B) | SE,SW | 21 | 200 S | 2440 W |
| D-09(B) | NE,SW | 17 | 2540 S | 1420 W |
| D-05(B) | SE,NW | 20 | 1500 N | 1600 W |
| D-11(B) | SE,SW | 20 | 100 S | 1500 W |

C. Arapahoe Aquifer:

| Well yo. | Quener/Quarter | Section | Feet From Section Line | |
|----------|----------------|---------|------------------------|--------|
| A-01(A) | SW,NE | 16 | 2050 N | 2200 E |
| A-02(A) | NF.SE | 17 | 1450 S | 500 E |
| A-03(A) | NW,NE | 21 | 850 N | 2200 E |
| A-04(A) | W.SW | 21 | 1450 S | 400 W |
| A-05(A) | SW, NE | 20 | 1500 N | 2500 E |
| A-01(8) | WM.WM | 16 | 100 N | 170 W |
| A-02(B) | NE, NE | 16 | 100 N | 170 E |
| A-03(8) | Center Point | 16 | 2640 N | 26€0 W |
| A-04(B) | SW.SW | 16 | 4200 N | 100 W |
| A-G5(B) | NE,SE | 16 | 39XO N | 170 E |
| A-06(8) | 5W.NE | 2! | 2240 N | 1570 E |
| A-07(B) | NE,SE | 20 | 2830 N | E 001 |
| A-08(B) | SE,SW | 21 | 270 S | 2440 W |
| A-09(E) | HE.SW | 17 | 2540 S | 1480 W |
| A-10(B) | SE,NW | 20 | 1500 N | 1670 W |
| A-11(8) | SE,SW | 20 | 170 S | 1500 W |

D. Lacamie-Fox Hills Aquifer:

| Well Ho. | _Quarter/Quarter | Section | Feet From Section Line | |
|------------|------------------|---------|------------------------|--------|
| LFH-01(A) | SW,NE | 16 | 2050 N | 2150 E |
| 1 FH-02(A) | NE,SE | 17 | 1450 S | 450 E |
| LFH-63(A) | NW,NE | 21 | 850 N | 2150 E |
| LFH 04(A) | NW,SW | 21 | 1450 S | 450 W |
| LFH-01(B) | NW,NW | 16 | 170 N | 100 W |
| LFH-92(B) | NE,NE | 16 | 170 N | 100 E |
| LFH-03(B) | NE,SW | 16 | 2710 N | 2170 W |
| LFH-(4(B) | SW,SW | 16 | 4270 N | 170 W |
| LFH-65(b) | NE,SE | 16 | 3970 N | 100 E |
| LFH-06(B) | SW,NE | 21 | 2310 21 | 1500 E |
| LFH-07(B) | NE,SE | 20 | 2910 N | 170 B |
| LFH-(8(B) | SE.SW | 21 | 200 S . | 2370 W |
| LFH-09(B) | NE.SW | 17 | 24?0 S | 1420 W |
| LFH-10(B) | SE,NW | 20 | 15/0 N | 1600 W |
| J.FH-JJ(B) | SE,SW | 20 | 100 S | 1570 W |

6. Well Pemeis:

- A. Owner Shamrock Investments or any successor in interest may make application for permits for each well described herein at least 45 days in advance of such time as it is ready to construct each well or series of wells.
- B. The State Engineer shall consider the rights granted herein as valid. Because a unified manicipal water supply system is planned to serve this property, the system will be constructed pursuant to a phased development program over a considerable period of time. Each well will be drilled and completed as it is needed pursuant to such phased development program. Accordingly, the Court determines that if Applicant fails to construct any of said wells within the period of time specified in the corresponding well permits, it may reapply and the State Engineer shall promptly reissue that well permit for the amount of water determined herein with burdens no more restrictive than found herein.

7. Average Annual Amounts of Withdown Available:

A. Not Nontributary Dawson Aquifer.

Pursuant to the Denver Basin Rules, the ground water in the Dawson aquifer underlying Applicant's property is classified as not nontributary ground water. The hydrologic values and the average annual amount available for withdrawal from the Dawson aquifer are as follows:

Upper Dawson Aquifer

| Actores | Sand Thickness | Specified Yield | Average Annual Amtin Acte-Feet | |
|---------|-------------------|--------------------|--------------------------------|--|
| 1840 | 490 feet | .20% | 1663 | |

- (1) The above average annual amount figure represents the 1803 acre-feet per year originally decreed in Case No. 85-CW-445 less the 60 acre-feet vacated by the decree in Case No. 93-CW-018 and less the 80 acre-feet vacated as a result of the motion filed by Shannock inventions in August, 1994.
- (2) By separate Stipulation, Shannock Investments and Objector City of Colorado Springs, have agreed that any and all exempt wells which may be applied for or issued to overlying landowers shall be limited to production from the Dawson aquifer. Such Stipulation, dated July 22, 1993, is incorporated herein by this reference, and attached hereto as Exhibit "C".

B. Noppributary Denver, Arapaboe, and Laramie-Fox Hills Aquifers.

Pursuant to the Denver Basin Rules, the ground water in the Denver, Arapahoe, and Laramie-Fox Hills aquifers underlying Applicant's property is classified as nontributery ground water, as defined in § 37-90-103(10.5), C.R.S. The hydrologic values and the average same alamounts available for withdrawal from the Denver, Arapahoe, and Laramis-Fox Hills aguifers are as follows:

| | | Sand Specif | io Ave | rage Annual Amt. |
|----------|---------|-------------|--------|------------------|
| Aquifer | Acceage | Thickness | Yield | in Acre-Feed |
| Denver | 1840 | 435 feet | 17% | 1360 |
| Arayahoe | 1840 | 260 feet | 17% | ž13 |
| LarFH | 1840 | 200 feet | 15% | 552 |

C. The above values and amounts are consistent with the Determinations of Facts issued by the Office of the State Engineer (April 29, 1986).

8. Nominal Pumping Rates and Estimated Average Weil Depths:

| Aquiler | Combined Raie | Individual Well Rate | Well Depth .(Average). |
|-------------------|--------------------|-------------------------|---------------------------|
| Dawson | 1500 gpm (3.3 cfs) | 375 gpm (.84 cfs) | 1,040 foet |
| Denver | 1200 gpm (2.5 cfs) | | 1,930 feet |
| Arapañoe | 750 gpm (1.6 cfs) | 150 gpm (.33 cfs) | 2,450 feet |
| Laramie-Fox Hills | 480 gpm (1.0 cfs) | 120 gpm (.26 cfs) | 2,950 feet |

9. Final Average Annual Amounts of Withdrawal:

- A. Final determinations of the applicable average specified yields, saturated sand thicknesses, and resulting average annual amounts available to Applicant from each aquifer will be made pursuant to the retained jurisdiction of this Court, as described in paragraph 20 bereinbelow. In the event this decree is not reopened for a further quantitative determination, the findings herein are final and controlling.
- B. The allowed armual amount of ground water which may be withdrawn from such aquifers through the wells specified above and any additional wells, pursuant to § 37-30-137(10), C.R.S., may exceed the average annual amount of withdrawal, as long as the total volume of water middrawn through such wells and any additional wells therefor subsequent to the date of the original decree does not exceed the product of the number of years since the date of the issuance of such original decree, multiplied by the average annual amount of withdrawal, as specified above or as determined pursuant to the retained jurisdiction of the Court.

Source of Ground Water: Limitations on Consumption: Replacement Obligations and Requirements:

A. The ground water to be withdrawn from the Denver, Arapaboe, and Laramie-Fox Hills aquifers is "nontributary ground water" as defined in § 37-90-103(10.5), C.R.S., and in the Denver Basin Rules, the withdrawal of which will not, within 100 years, deplete the flow of a natural stream, including a natural steam as defined in §§ 37-82-101(2) and 37-92-102(1)(b). C.R.S., at an annual rate greater than 1/10 of 1% of the annual rate of withdrawal. The ground water to be withdrawn from the Dawson aquifer is "not nontributary ground water" as defined in the Denver Basin Rules, C.C.R. 402-6, Rule 5A.

- B. Applicant may not consume more than 98% of the annual quantity of water withdrawn from the nontributant Denver, Arapahoe, and Laramie-Fox Hills aquifers. The relinquishment of 2% of the annual arount of water withdrawn to the stream system, as required by the Denver Basin Rules, may be satisfied by any method selected by the Applicant and satisfactory to the State Engineer, so long as Applicant can demonstrate that an amount equal to 2% of such withdrawals (by volume) has been relinquished to the stream system.
- C. The ground vater to be withdrawn from the Dawson aquifer is classified as not nontributary, requiring as a condition precedent to use that Applicant obtain a judicially approved augmentation plan for the replacement of depletions to the affected stream system. Pursuant to the statutory requirement at § 37-90-137(9)(c), C.R.S., the amount of the replacement must be the actual depletive effect caused by withdrawal of the resource to the extent necessary to prevent injury.

No Material Injury:

There is unappropriated ground water available for withdrawal from each aquifer beneath the land described herein, and the vested water rights of others will not be materially injured by such withdrawals as described hereby. The minimum useful life of each of the subject aquifers is at least 100 years, assuming no substantial artificial recharge within 100 years. No material injury to vested water rights of others will result from the issuance of permits for the subject wells or the exercise of the rights and limitations specified in this decree therefor.

12. Additional Wells and Well Fields:

- A. Sharrock Investments proposes to build a unified municipal water system over the period of many years and will construct its wells as required by development. Any well drilled within 200 feet of a decreed location will be deemed to be constructed at the decreed well location pursuant to the permit and this decree.
- B. In addition to the wells described in paragraph 5 above, Applicant may construct additional and replacement wells in order to maintain levels of production, to meet municipal water supply systems demands, or to recover the entire abount of ground water in the subject aquifers underlying the subject property, as described herein. As additional wells are planned, applications shall be filed in accordance with § 37-90-137(10), C.R.S.
- C. So long as allowed annual amounts are not exceeded, the pumping rates for the wells may exceed the pumping rates specified herein in order to meet municipal water system supply requirements or to produce the full acre foct allocation of water from each aquifer. Two or incre wells constructed into the same aquifer shall be considered a well field. In effecting production of water from such well field, Applicant may produce the entire amount which may be produced hereunder from the particular aquifer through any combination of wells within the well field for that particular aquifer.

- D. In considering applications for permits for additional wells to withdraw the ground water which is the subject of this decree, the State Engineer shall be bound by this decree and shall issue said permits in accordance with provisions of § 37-90-137(4), C.R.S. Applicant shall not be required to submit any additional proof or evidence of matters finally determined herein when making application for permits for wells to withdraw the water which is the subject of this decree, except that the State Engineer may require revised land ownership or consent to use affidavits.
- In the event that the allowed average annual amounts decreed berein are adjusted pursuant to the retained jurisdiction of the Court, any existing permit(s) for any well(s) decreed herein shall be amended to reflect such adjusted average annual amounts. New permits for any wells herein shall likewise reflect any such adjustment of the average annual amounts decreed herein.

13. Proposed Uses of Water:

The water withdrawn from any well may be used, reused, and successively used and otherwise disposed of for all municipal purposes including domestic, industrial, conunercial, irrigation, stock watering, recreational, fish and wildlife, fire protection and sanitary purposes subject to the provisions of paragraph 19 herein. This water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for exchange purposes, for replacement, f depletions resulting from the use of this ground water or of water from other sources, and for augmentation purposes. Moreover, Applicant may use terum flows of this ground water to replace stream depletions under a plan for augmentation approved in compliance with applicable law.

i4. Condicions:

For each well constructed pursuant to this decree, Shannock Investments or its successors shall comply with the following conditions:

- A. A totalizing flow meter shall be installed on the well discharge prior to diverting any water therefrom. Applicant shall keep accurate records of all diversions by the well, make any calculations necessary, and submit such records to the Water Division No. 1 Engineer annually.
- B. The entire length of the open bore hole shall be geophysically surveyed prior to caring and copies of the geophysical log submitted to the Division of Water Resources. Applicant may provide a geophysical log from an adjacent well or test hole, purtuant to Rule 8F of the Statewide Rules and acceptable to the State Engineer, which fully penetrates the aquifer, in satisfaction of the above requirement.

- C. The ground water production shall be limited to the specific aquifer for which the well was designed. Plain, unperforated casing must be installed and properly grouted to prevent withdrawal from or intermingling of water from zones other than those for which the well was designed.
- D. Each well shall be permanently identified by its permit number, this Water Court Case Number, and the name of the producing aquifer on the above-ground portion of the well casing or on the pumphouse.

CONCLUSIONS OF LAW

- 15. The rights to nontributary and not nontributary ground water determined herein shall not be administered in accordance with priority of appropriation. Such rights are not "conditional water rights" as defined by § 37-92-103(6), C.R.S. The provisions of § 37-92-301(4), C.R.S., requiring findings of reasonable diligence are not applicable to the ground water rights determined herein. The determination of ground water rights herein need not include a date of initiation of the withdrawal project. See § 37-92-305(11), C.R.S. Ground water herein which is not nontributary shall be administered only pursuant to §§ 37-90-137(4) and 37-90-137(9), C.R.S.
- 16. Subject to paragraph 19 below. Shamrock Investments is entitled to permits to construct the wells described in paragraph 5 hereof which will withdraw nontributary ground water pursuant to § 37-90-137(4), C.R.S., and such additional wells as may be required in the future to withdraw such ground water pursuant to § 37-90-137(10), C.R.S. Withdrawals of not nontributary ground water may be made only pursuant to a subsequently adjudicated plan for augmentation therefor.
- 17. Shantrock Investments⁴ Mixtion to Amend Decree, incorporated herein by this reference, is granted. The Order granting such Motion is manifest in this ruling and decree.

IC IS THEREFORE, ORDERED, ADJUDGED, AND DECREED THAT:

- 18. The Findings of Fact and Conclusions of Law are incorporated into this Jerree of the Water Court.
- 19. Right to Withdraw Nontributary Utomid Water:

The property owner, Shanrock Investments, may withdraw the nontributary ground water herein through the wells listed above at the locations listed above and in the average annual amounts and at the rates of flow specified therefor, subject to the limitations herein and the retained jurisdiction by this Court.

20. Replacement Obligation for Use of Not Nontributary Ground Water Rights:

By separate application, Applicant may seek a plan for the nugmentation of depletions associated with the withdrawal of Dawson ground water subject to this decree. No such augmentation plan is granted by this ruling and decree. Judicial approval of such a plan for augmentation is a condition precedent to withdrawal and use of this resource.

21. Retained lurisdiction:

- A. The Court retains jurisdiction as necessary to adjust the average annual amounts of nontributary and not nontributary ground water available under the property to conform to actual local squifer characteristics as determined from adequate information obtained from wells, pursuant to § 37-92-305(11), C.R.S. Within 60 days after completion of any well decreed herein, or any test note(s), Applicant or any successor in interest to these water rights shall obtain a geophysical log of said well(s) or test hole(s) and shall serve such log(s) upon the State Engineer and notify each of the parties who have appeared herein that copies of the log and well completion report, if the well is completed, are available for review.
- B. At such time as adequate data are available and within four months of notice that the retained jurisdiction for such purpose has been invoked, the State Engineer shall use the information available to him to make a final determination of water rights finding. The State Engineer shall submit such finding to the Water Court and to the Applicant, and the Applicant shall serve a copy upon the other parties.
- C. If no pastest to such finding is made within 60 days, the final determination of water rights shall be incorporated into the decree by the Water Corn. In the event of a protest, or in the event the State Engineer makes no determination within four months, such final determination shall be made by the Water Court after notice and hearing.
- D. In the event Applicant fails to invoke retained jurisdiction, the State Engineer or any person may do so. In the interim, the Court retains jurisdiction in this matter pursuant to § 37-92-305(11), C.R.S.
- E. Any final determination of quantity of water in the Dawson aquifer will reflect the conveyance of a total of 140 acre-feet pur year of Shamrock Investment's water rights in such aquifer, and consequently, any final amount determined will be reduced by such 140 acre-feet per year.

22. All tights, privileges, and priorities obtained or granted by the original decree in this matter, Case No. 85-CW-445, are retained in the issuance of this amended ruling and decree.

HAVING BEEN NO OBJECTIONS, THE COURT HEREBY APPROVES THE RULING AS AMENDED.

DATED: /1266- 17 1895

BY THE COURT:

Jonathan W. Hays

Water Judge, Water Division 1

State of Colorado

APPROVED AS TO FORM AND CONTENT:

DUNCAN, OSTRANDER & DINGESS, P.C.

Date: /2 October /994

Robert E. Schween, #12923
7800 East Union Avenue, Suite 200
Denver, Colorado 80237
Telephone: (303) 779-0200

ATTORNEYS FOR APPLICANT SHAMROCK INVESTMENTS, A WYOMING LIMITED LIABILITY COMPANY

s: PICWOIS A.DEC

field of timely count

DISTRICT COURT, WATER DIVISION NO. 1, COLORADO

Case No. 85CW445

38 NOV 9 P2: 08

RULING AND DECREE OF THE WATER COURT

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CONCERNING THE APPLICATION FOR WATER RIGHTS OF ED PENDLETON AND BEVERLY C. PENDLETON

IN THE NONTRIBUTARY DENVER, ARAPAHOE, AND LARAMIE-FOX HILLS AQUIFERS AND THE NOT NONTRIBUTARY UPPER DAWSON AQUIFER, in El Paso County.

THIS CLAIM, having been originally filed with the Water Division No. 1 Water Clerk on December 31, 1985, all matters contained in the application having been reviewed, and testimony having been taken where such testimony is necessary, and such corrections made as are indicated by the evidence presented herein, IT IS HEREBY THE RULING OF THE WATER REFEREE:

FINDINGS OF FACT

1. Name, Address, and Telephone Number of Applicants:

Ed Pendleton and Beverly C. Pendleton c/o Mr. Merle McClung 8085 South Chester Street Englewood, Colorado 80012 (303) 790-1776

Applicants shall be referred to hereafter singularly as the Applicant.

2. History of Case:

The Applicant is represented by Saunders, Snyder, Ross & Dickson, P.C. (William B. Tourtillott and Robert E. Schween). The original application for underground water rights from nontributary sources was filed with this Court on December 31, 1985. An amended application for underground water rights from nontributary and not nontributary sources was filed with this Court on March 31, 1987 and published in the March 1987 Water Resume for Water Division No. 1. A timely statement of opposition was filed to the amended application by the City of Colorado Springs (Gregory L. Johnson). No other statements of opposition or motions to intervene have been filed, and the period for filing of statements of opposition has expired.

Wt. Rts. of Ed and Beverly C. Pendleton Case No. 85CW445 Page 2

3. Subject Matter Jurisdiction:

Timely and adequate notice of the pendency of these proceedings has been given in the manner required by law. 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.

4. Aquifer and Location of Ground Water:

In this proceeding, Applicant seeks a ruling and decree for rights to all ground water recoverable from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers and the not nontributary Upper Dawson aquifer underlying Applicant's property in El Paso County, Colorado. The Applicant's property, which is subject to this case, is described as follows: all of Section 16; the El/2 SW1/4 and the SE1/4 of Section 17; the El/2 and the El/2 W1/2 of Section 20; the NE 1/4 and the W1/2, except for the east 30 feet of the SW1/4, of Section 21, all in Township 11 South, Range 65 West of the 6th P.M., consisting of 1840 acres, more or less. Applicant is the owner of the ground water rights underlying the above-described land and no part of such land lies within a designated ground water basin. A general location map of the property is attached hereto as Exhibit "A."

5. Specific Wells Claimed:

The legal descriptions of the wells to be constructed under this decree are as follows:

A. <u>Upper Dawson Aquifer</u>

- (1) Bar X DA-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 2,000 feet from the North section line of said Section 16.
- (2) Bar X DA-2: NE1/4 SE1/4, Section 17, Township 11 South, Range 65 West of the 6th P.M., at a point which is 500 feet from the East Section line and 1,500 feet from the South section line of said Section 17.
- (3) Bar X DA-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 800 feet from the North section line of said Section 21.

Wt. Rts. of Ed and Beverly C. Pendleton Case No. 85CW445 Page 3

(4) Bar X DA-4: NW1/4 SW1/4, Section 21, Township 12 South, Range 65 West of the 6th P.M., at a point which is 400 feet from the West Section line and 1,500 feet from the South section line of said Section 21.

B. Denver Aquifer

- (1) Bar X D-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 2,000 feet from the North section line of said Section 16.
- (2) Bar X D-2: NE1/4 SE1/4, Section 17, Township 11 South, Range 65 West of the 6th P.M., at a point which is 450 feet from the East Section line and 1,500 feet from the South section line of said Section 17.
- (3) Bar X D-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 800 feet from the North section line of said Section 21.
- (4) Bar X D-4: NW1/4 SW1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 450 feet from the West Section line and 1,500 feet from the South section line of said Section 21.

C. Arapahoe Aquifer

- (1) Bar X A-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 2,050 feet from the North section line of said Section 16.
- (2) Bar X A-2: NEI/4 SEI/4, Section 17, Township 11 South, Range 65 West of the 6th P.M., at a point which is 500 feet from the East Section line and 1,450 feet from the South section line of said Section 17.

Wt. Rts. of Ed and Beverly C. Pendleton Case No. 85CW445 Page 4

- (3) Bar X A-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,200 feet from the East Section line and 850 feet from the North section line of said Section 21.
- (4) Bar X A-4: NW1/4 SW1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 400 feet from the West Section line and 1,450 feet from the South section line of said Section 21.
- (5) Bar X A-5: SW1/4 NE1/4, Section 20, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,500 feet from the East Section line and 1,500 feet from the North section line of said Section 20.

D. Laramie-Fox Hills Aquifer

- (1) Bar X LFH-1: SW1/4 NE1/4, Section 16, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 2,050 feet from the North section line of said Section 16.
- (2) Bar X LFH-2: NE1/4 SE1/4, Section 17, Township 11 South, Range 65 West of the 6th P.M., at a point which is 450 feet from the East Section line and 1,450 feet from the South section line of said Section 17.
- (3) Bar X LFH-3: NW1/4 NE1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 2,150 feet from the East Section line and 850 feet from the North section line of said Section 21.
- (4) Bar X LFH-4: NW1/4 SW1/4, Section 21, Township 11 South, Range 65 West of the 6th P.M., at a point which is 450 feet from the West Section line and 1,450 feet from the South section line of said Section 21.

6. Well Permits:

Applicant will make application for permits for each well described herein at such time as Applicant is ready to construct each well or series of wells.

The State Engineer shall consider the rights granted herein as valid. Because a unified municipal water supply system is planned to serve this property, the system will be constructed pursuant to a phased development program over a considerable period of time. Each well will be drilled and completed as it is needed pursuant to such phased development program. Accordingly, the Court determines that if Applicant fails to construct any of said wells within the period of time specified in the corresponding well permits, it may reapply and the State Engineer shall promptly reissue that well permit for the amount of water determined herein with burdens no more restrictive than found herein.

7. Average Annual Amounts of Withdrawal Available:

Not Nontributary Upper Dawson Aquifer:

Dawson Aquificant and Denver Basin Rules, the awson aquifer underlying Applicant values and the average annual amount available from the Upper Dawson aquifer are as follows:

Upper Dawson Aquifer

Sand

Sand

Sand

1844 Pursuant to the Denver Basin Rules, the ground water in the Upper Dawson aguifer underlying Applicant's property is classified as not nontributary ground water. The hydrologic values and the average annual amount available for withdrawal

Average Annual Amt. ____in Acre-Feet

1803

В. Nontributary Denver, Arapahoe, and Laramie-Fox Hills Aquifers:

Pursuant to the Denver Basin Rules, the ground water in the Denver, Arapahoe, and Laramie-Fox Hills aguifers underlying Applicant's property is classified as nontributary ground water, as defined in § 37-90-103(10.5), C.R.S. The hydrologic values and the average annual amounts available for withdrawal from the Denver, Arapahoe, and Laramie-Fox Hills aquifers are as follows:

| Aquifer | Acreage | Sand <u>Thickness</u> | Specific Yield | Average Annual Amt. in Acre-Feet |
|-----------------------|---------|--------------------------|-------------------|-------------------------------------|
| Denver | 1840 | 435 feet | .17% | 1360 |
| Arapahoe | 1840 | 260 feet | .17% | 813 |
| Laramie- Fox Hills | 1840 | 200 feet | .15% | 552 |

C. The above values and amounts are consistent with the Determinations of Facts issued by the Office of the State Engineer (April 29, 1986).

8. Nominal Pumping Rates and Estimated Average Well Depths:

| Aquifer | Combined | lndividual | Well Depth |
|-------------------|-------------------|------------------|------------|
| | <u>Rate</u> | <u>Well Rate</u> | (Average) |
| Upper Dawson | 1500 gpm (3.3cfs) | 375 gpm (.84cfs) | 1,040 feet |
| Denver | 1200 gpm (2.6cfs) | 300 gpm (.66cfs) | 1,930 feet |
| Arapahoe | 750 gpm (1.6cfs) | 150 gpm (.33cfs) | 2,450 feet |
| Laramie-Fox Hills | 480 gpm (1.0cfs) | 120 gpm (.26cfs) | 2,950 feet |

9. Final Average Annual Amounts of Withdrawal:

- A. Final determinations of the applicable average specific yields, saturated sand thicknesses, and resulting average annual amounts available to Applicant from each aquifer will be made pursuant to the retained jurisdiction of this Court, as described in paragraph 21 hereinbelow. In the event this decree is not reopened for a further quantitative determination, the findings herein are final and controlling.
- B. The allowed annual amount of ground water which may be withdrawn from such aquifers through the wells specified above and any additional wells, pursuant to § 37-90-137(10), C.R.S. (1985 Supp.), may exceed the average annual amount of withdrawal, as long as the total volume of water withdrawn through such wells and any additional wells therefor subsequent to the date of this decree does not exceed the product of the number of years since the date of the issuance of the well permits or the date of this decree, whichever is earliest in time, multiplied by the average annual amount of withdrawal, as specified above or as determined pursuant to the retained jurisdiction of the Court.

10. Source of Ground Water; Limitations on Consumption; Replacement Obligations and Requirements:

- A. The ground water to be withdrawn from the Denver, Arapahoe, and Laramie-Fox Hills aquifers is "nontributary ground water" as defined in § 37-90-103(10.5), C.R.S. (1985 Supp.), and in the Denver Basin Rules, the withdrawal of which will not, within 100 years, deplete the flow of a natural stream, including a natural stream as defined in §§ 37-82-101(2) and 37-92-102(1)(b), C.R.S., at an annual rate greater than 1/10 of 1% of the annual rate of withdrawal. The ground water to be withdrawn from the Upper Dawson aquifer is "not nontributary ground water" as described in the Denver Basin Rules, 2 C.C.R. 402-6, Rule 5A.
- B. Applicant may not consume more than 98% of the annual quantity of water withdrawn from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers. The relinquishment of 2% of the annual amount of water withdrawn to the stream system, as required by the Denver Basin Rules effective January 1, 1986, may be satisfied by any method selected by the Applicant and satisfactory to the State Engineer, so long as Applicant can demonstrate that an amount equal to 2% of such withdrawals (by volume) has been relinquished to the stream system.
- C. The ground water to be withdrawn from the Upper Dawson aquifer is classified as not nontributary, requiring as a condition precedent to use that Applicant obtain a judicially approved augmentation plan for the replacement of depletions to the affected stream system. Pursuant to the statutory requirement at § 37-90-137(9)(c), C.R.S. (1985 Supp.), the amount of the replacement must be the actual depletive effect caused by withdrawal of the resource to the extent necessary to prevent injury.

11. No Material Injury:

There is unappropriated ground water available for withdrawal from each aquifer beneath the land described herein, and the vested water rights of others will not be materially injured by such withdrawals as described hereby. The minimum useful life of each of the subject aquifers is at least 100 years, assuming no substantial artificial recharge within 100 years. No material injury to vested water rights of others will result from the issuance of permits for the subject wells or the exercise of the rights and limitations specified in this decree therefor.

12. Additional Wells and Well Fields:

- A. The Applicant proposes to build a unified municipal water system over the period of many years and will construct its wells as required by development. Any well drilled within 200 feet of a decreed location will be deemed to be constructed at the decreed well location pursuant to the permit and this decree.
- B. In addition to the wells described in paragraph 5 above, Applicant may construct additional and replacement wells in order to maintain levels of production, to meet municipal water supply systems demands, or to recover the entire amount of ground water in the subject aquifers underlying the subject property, as described herein. As additional wells are planned, applications shall be filed in accordance with § 37-90-137(10), C.R.S. (1985 Supp.).
- C. So long as allowed annual amounts are not exceeded, the pumping rates for the wells may exceed the pumping rates specified herein in order to meet municipal water system supply requirements or to produce the full acre foot allocation of water from each aquifer. Two or more wells constructed into the same aquifer shall be considered a well field. In effecting production of water from such well field, Applicant may produce the entire amount which may be produced hereunder from the particular aquifer through any combination of wells within the well field for that particular aquifer.
- D. In considering applications for permits for additional wells to withdraw the ground water which is the subject of this decree, the State Engineer shall be bound by this decree and shall issue said permits in accordance with provisions of § 37-90-137(4), C.R.S. (1985 Supp.). Applicant shall not be required to submit any additional proof or evidence of matters finally determined herein when making application for permits for wells to withdraw the water which is the subject of this decree, except that the State Engineer may require revised land ownership or consent to use affidavits.
- E. In the event that the allowed average annual amounts decreed herein are adjusted pursuant to the retained jurisdiction of the Court, any existing permit(s) for any well(s) decreed herein shall be amended to reflect such adjusted average annual amounts. New permits for any wells herein shall likewise reflect any such adjustment of the average annual amounts decreed herein.

13. Proposed Uses of Water:

The water withdrawn from any well may be used, reused, and successively used and otherwise disposed of for all municipal purposes including domestic, industrial, commercial, irrigation, stock watering, recreational, fish and wildlife, fire protection and sanitary purposes subject to the provisions of paragraph 20 herein. This water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for exchange purposes, for replacement of depletions resulting from the use of this ground water or of water from other sources, and for augmentation purposes. Moreover, Applicant may use return flows of this ground water to replace stream depletions under a plan for augmentation approved in compliance with applicable law.

14. Conditions:

For each well constructed pursuant to this decree, Applicant shall comply with the following conditions:

- A. A totalizing flow meter shall be installed on the well discharge prior to diverting any water therefrom. Applicant shall keep accurate records of all diversions by the well, make any calculations necessary, and submit such records to the Water Division No. 1 Engineer annually.
- B. The entire length of the open bore hole shall be geophysically surveyed prior to casing and copies of the geophysical log submitted to the Division of Water Resources. Applicant may provide a geophysical log from an adjacent well or test hole, pursuant to Rule 8F of the Statewide Rules and acceptable to the State Engineer, which fully penetrates the aquifer, in satisfaction of the above requirement.
- C. The ground water production shall be limited to the specific aquifer for which the well was designed. Plain, unperforated casing must be installed and properly grouted to prevent withdrawal from or intermingling of water from zones other than those for which the well was designed.
- D. Each well shall be permanently identified by its permit number, this Water Court Case Number, and the name of the producing aquifer on the above-ground portion of the well casing or on the pumphouse.

CONCLUSIONS OF LAW

- The Water Court has jurisdiction over this proceeding pursuant to § 37-90-137(6), C.R.S. This Court concludes as a matter of law that the application herein is one contemplated by Section 37-90-137(4), C.R.S. The application for a decree confirming Applicant's right to withdraw and use all ground water from the named nontributary and not nontributary aquifers beneath its property as described herein pursuant to § 37-90-137(4), C.R.S. (1985 Supp.), should be granted, subject to the provisions of this decree. The nature and extent of the rights to nontributary and not nontributary ground water determined herein are defined by §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1985 Supp.). The withdrawal of the ground water decreed herein in accordance with the terms of this decree will not result in material injury to vested water rights of others as a matter of law.
- 16. The rights to nontributary and not nontributary ground water determined herein shall not be administered in accordance with priority of appropriation. Such rights are not "conditional water rights" as defined by § 37-92-103(6), C.R.S. The provisions of § 37-92-301(4), C.R.S., requiring quadrennial findings of reasonable diligence are not applicable to the ground water rights determined herein. The determination of ground water rights herein need not include a date of initiation of the withdrawal project. See § 37-92-305(11), C.R.S. (1985 Supp.). Ground water herein which is not nontributary shall be administered only pursuant to §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1985 Supp.).
- 17. Subject to paragraph 20, below, Applicant is entitled to permits to construct the wells described in paragraph 5 hereof which will withdraw nontributary and not nontributary ground water pursuant to § 37-90-137(4), C.R.S., and such additional wells as may be required in the future to withdraw such ground water pursuant to § 37-90-137(10), C.R.S. (1985 Supp.).

IT IS THEREFORE, ORDERED, ADJUDGED, AND DECREED THAT:

18. The Findings of Fact and Conclusions of Law are incorporated into this decree of the Water Court.

19. Right to Withdraw Nontributary Ground Water:

The Applicant may withdraw the nontributary ground water herein through the wells listed above at the locations listed above and in the average annual amounts and at the rates of flow specified therefor, subject to the limitations herein and the retained jurisdiction by this Court.

20. Replacement Obligation for Use of Not Nontributary Ground Water Rights:

By separate application, Applicant will seek a plan for augmentation of depletions associated with the withdrawal of Upper Dawson ground water decreed hereby. No such augmentation plan is sought in this case. Judicial approval of such a plan for augmentation is a condition precedent to withdrawal and use of this resource.

21. Retained Jurisdiction:

- A. The Court retains jurisdiction as necessary to adjust the average annual amounts of nontributary and not nontributary ground water available under the property to conform to actual local aquifer characteristics as determined from adequate information obtained from wells, pursuant to § 37-92-305(11), C.R.S. (1985 Supp.). Within 60 days after completion of any well decreed herein, or any test hole(s), Applicant or any successor in interest to these water rights shall obtain a geophysical log of said well(s) or test hole(s) and shall serve such log(s) upon the State Engineer and notify each of the parties who have appeared herein that copies of the log and well completion report, if the well is completed, are available for review.
- B. At such time as adequate data are available and within four months of notice that the retained jurisdiction for such purpose has been invoked, the State Engineer shall use the information available to him to make a final determination of water rights finding. The State Engineer shall submit such finding to the Water Court and to the Applicant, and the Applicant shall serve a copy upon the other parties.
- C. If no protest to such finding is made within 60 days, the Final Determination of Water Rights shall be incorporated into the decree by the Water Court. In the event of a protest, or in the event the State Engineer makes no determination within four months, such final determination shall be made by the Water Court after notice and hearing.
- D. In the event Applicant fails to invoke retained jurisdiction, the State Engineer or any party hereto may do so. In the interim, the Court retains jurisdiction in this matter pursuant to § 37-92-305(11), C.R.S. (1985 Supp.).

RULING ENTERED this 9th day of November

1988

Raymond/S. Liesman

Water Keferee

Water Division No. 1

State of Colorado

THE COURT DOTH FIND THAT NO PROTEST TO THE RULING OF THE REFEREE HAS BEEN FILED. THE FOREGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

DATED:

December 12, 1988

Robert A. Behrman

Water Judge

Water Division No. 1

State of Colorado

THE WATER RIGHT FOR

HAS DEEN MODIFIED SER

PAGE 32 CW 2/0

APPROVED AS TO FORM AND CONTENT:

SAUNDERS, SNYDER, ROSS & DICKSON P.C.

Date: 15 Oct. 1987

William B. Tourtillott, Jr., #184 Robert E. Schween, #12923 707 17th Street Suite 3500 Denver, Colorado 80202 (303) 292-6600

ATTORNEYS FOR APPLICANT ED PENDLETON AND BEVERLY C. PENDLETON

ANDERSON, JOHNSON, & GIANUNZIO

Date: 10-15-87

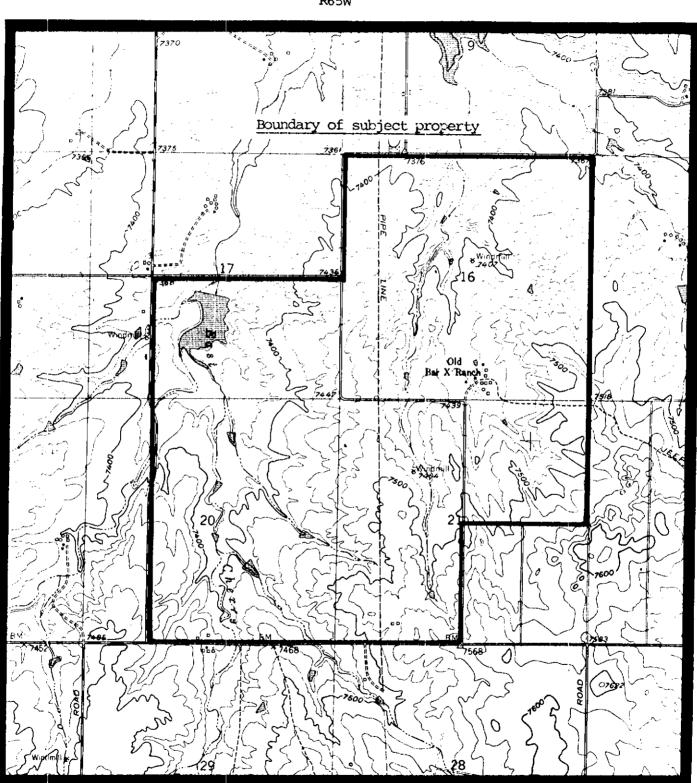
Gregory L. Johnson #448 Mark T. Pifher, #12629 104 S. Cascade Ave., Suite 204

P.O. Box 240

Colorado Springs, Colorado 80901-0240 (303) 632-3545

ATTORNEYS FOR OBJECTOR CITY OF COLORADO SPRINGS EXHIBIT A TO RULING AND DECREE CASE NO. 85CW445

R65W



T11S

Clerk, District Control of tell Division No. 2, State of

RES

DISTRICT COURT, WATER DIVISION No. 2, COLORADO

Case No. 85CW131

MAY 18 1988

DECREE OF THE WATER COURT

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ROSS & DICKSUN

CONCERNING THE APPLICATION FOR WATER RIGHTS OF PENDLETON LAND AND EXPLORATION, INC.

IN THE NONTRIBUTARY DENVER, ARAPAHOE, AND LARAMIE-FOX HILLS AQUIFERS AND THE NOT NONTRIBUTARY DAWSON, DENVER, AND ARAPAHOE AQUIFERS, in El Paso County.

THIS CLAIM, having been originally filed with the Water Division No. 2 Water Clerk on December 31, 1985, all matters contained in the application having been reviewed, and testimony having been taken where such testimony is necessary, and such corrections made as are indicated by the evidence presented herein, the Court makes the following:

FINDINGS OF FACT

1. Name, Address, and Telephone Number of Applicant:

Pendleton Land and Exploration, Inc. c/o Mr. Merle McClung 8085 S. Chester St. Englewood, Colorado 80012 (303) 790-1776

2. History of Case:

The Applicant is represented by Saunders, Snyder, Ross & Dickson, P.C. (William B. Tourtillott and Robert E. Schween). The original application for underground water rights from nontributary sources was filed with this Court on December 31, 1985. An amended application for underground water rights from nontributary and not nontributary sources was filed with this Court on April 24, 1987 and published in the May 1987 Water Resume for Water Division No. 2. Timely statements of opposition were filed to the original and amended application by the City of Colorado Springs (Gregory L. Johnson), JVRC, Inc. (Michael D. Shimmin), Upper District 10 Water Users Association (Gregory L. Johnson), and Black Forest Land Use Committee (Barbara Hosmer). No other statements of opposition or motions to intervene have been filed, and the period for filing of statements of opposition has expired

3. Subject Matter Jurisdiction:

Timely and adequate notice of the pendency of these proceedings has been given in the manner required by law. 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.

4. Aquifers and Location of Ground Water:

- A. In this proceeding, Applicant seeks a decree for rights to all ground water recoverable from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers and the not nontributary Dawson, Denver, and Arapahoe aquifers underlying Applicant's property in El Paso County, Colorado.
- B. The ground water rights are linked to different portions of Applicant's property as generally described below:

1. <u>Dawson Aquifer</u>

Applicant will withdraw not nontributary ground water from the Dawson aquifer underlying approximately 2280 acres of property as more particularly described on Exhibit "A" attached hereto and made a part hereof. A general location map of the property is attached as Exhibit "B."

2. Denver Aquifer

Applicant will withdraw not nontributary ground water from the Denver aquifer underlying approximately 2080 acres of property and nontributary ground water from the Denver aquifer underlying approximately 200 acres of property as more particularly described on Exhibit "C" attached hereto and made a part hereof. A general location map of the property designated as not nontributary and nontributary in the Denver aquifer is attached as Exhibit "D."

3. Arapahoe Aquifer

Applicant will withdraw not nontributary ground water from the Arapahoe aquifer underlying approximately 634 acres of property and nontributary ground water from the Arapahoe aquifer underlying approximately 1646 acres of property as more particularly described on Exhibit "E" attached hereto and made a part hereof. A general location map of the property designated as not nontributary and nontributary in the Arapahoe aquifer is attached as Exhibit "F"

4. Laramie-Fox Hills Aquifer

Applicant will withdraw nontributary ground water from the Laramie-Fox Hills aquifer underlying approximately 2280 acres of property as more particularly described on Exhibit "A." A general location map of the property is attached as Exhibit "B."

C. Applicant is the owner of the ground water rights underlying the above-described lands and no part of such lands lies within a designated ground water basin.

5. Specific Wells Claimed:

The legal descriptions of the wells to be constructed under this decree are as follows:

A. <u>Dawson Aquifer</u>

- (1) West DA-1: SW1/4 NW1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,000 feet from the West Section line and 2,000 feet from the North section line of said Section 26.
- (2) West DA-2: SW1/4 NW1/4, Section 25, Township 11 South, Range 66 West of the 6th P.M., at a point which is 300 feet from the West Section line and 1,500 feet from the North section line of said Section 25.
- (3) West DA-3: NW1/4 NW1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 200 feet from the West Section line and 1,000 feet from the North section line of said Section 35.
- (4) West DA-4: SE1/4 SE1/4. Section 26. Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,000 feet from the East Section line and 500 feet from the South section line of said Section 26.
- (5) West DA-5: NW1/4 SE1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 2.000 feet from the East Section line and 1,500 feet from the South section line of said Section 35.

(6) West DA-6: NEI/4 NEI/4, Section 3, Township 12 South, Range 66 West of the 6th P.M., at a point which is 1,200 feet from the East Section line and 300 feet from the North section line of said Section 3.

B. Denver Aquifer

- (1) West D-1: SW1/4 NW1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,050 feet from the West Section line and 2,000 feet from the North section line of said Section 26.
- (2) West D-2: SW1/4 NW1/4, section 25, Township 11 South, Range 66 West of the 6th P M., at a point which is 350 feet from the West line and 1500 feet from the North line of said Section 25.
- (3) West D-3: NW1/4 NW1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 250 feet from the West Section line and 1,000 feet from the North section line of said Section 35.
- (4) West D-4: SE1/4 SE1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 950 feet from the East Section line and 500 feet from the South section line of said Section 26.
- (5) West D-5: NW1/4 SE1/4, Section 35, Township ll South, Range 66 West of the 6th P.M., at a point which is 1,950 feet from the East Section line and 1,500 feet from the South section line of said Section 35.
- (6) West D-6: NE1/4 NE1/4, Section 3, Township 12 South, Range 66 West of the 6th P.M., at a point which is 1,150 feet from the East Section line and 300 feet from the North section line of said Section 3.

C. Arapahoe Aquifer

(1) West A-1: SW1/4 NW1/4, Section 26. Township ll South, Range 66 West of the 6th P M, at a point which is 1,000 feet from the West Section line and 2,050 feet from the North section line of said Section 26.

- (2) West A-2: SW1/4 NW1/4. Section 25. Township 11 South. Range 66 West of the 6th P.M., at a point which is 300 feet from the West Section line and 1,550 feet from the North section line of said Section 25.
- (3) West A-3: NW1/4 NW1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 200 feet from the West Section line and 1,050 feet from the North section line of said Section 35.
- (4) West A-4: SE1/4 SE1/4. Section 26. Township li South. Range 66 West of the 6th P.M., at a point which is 1,000 feet from the East Section line and 450 feet from the South section line of said Section 26.
- (5) West A-5: NW1/4 SE1/4, Section 35, Township 11 South, Range 66 West of the 6th P.M., at a point which is 2,000 feet from the East Section line and 1,450 feet from the South section line of said Section 35.
- (6) West A-6: NE1/4 NE1/4. Section 3. Township 12 South. Range 66 West of the 6th P.M., at a point which is 1,200 feet from the East Section line and 350 feet from the North section line of said Section 3.

D. Laramie-Fox Hills Aquifer

- (1) West LFH-1: SW1/4 NW1/4, Section 26, Township 11 South, Range 66 West of the 6th P.M., at a point which is 1,050 feet from the West Section line and 2,050 feet from the North section line of said Section 26.
- (2) West LFH-3: NW1/4 NW1/4. Section 35. Township 11 South, Range 66 West of the 6th P.M., at a point which is 250 feet from the West Section line and 1,050 feet from the North section line of said Section 35.
- (3) West LFH 4: SE1/4 SE1/4, Section 26, Township ll South, Range 66 West of the 6th P.M., at a point which is 950 feet from the East Section line and 450 feet from the South section line of said Section 26

(4) West LFH-6: NE1/4 NE1/4. Section 3. Township 12 South. Range 66 West of the 6th P M., at a point which is 1.150 feet from the East Section line and 350 feet from the North section line of said Section 3

6. Well Permits:

- A. Applicant will make application for permits for each well described herein at such time as Applicant is ready to construct each well or series of wells.
- B. The State Engineer shall consider the rights granted herein as valid. Because a unified municipal water supply system is planned to serve this property, the system will be constructed pursuant to a phased development program over a considerable period of time. Each well will be drilled and completed as it is needed pursuant to such phased development program. Accordingly, the Court determines that if Applicant fails to construct any of said wells within the period of time specified in the corresponding well permits, it may reapply and the State Engineer shall promptly reissue that well permit for the amount of water determined herein with burdens no more restrictive than found herein.

7. Average Annual Amounts of Withdrawal Available:

A. Not Nontributary Dawson, Denver, and Arapahoe Aquifers:

Pursuant to the Denver Basin Rules, the ground water in the Dawson. Denver, and Arapahoe aquifers underlying all or part of Applicant's property, as described in Paragraph 4 herein, is classified as not nontributary ground water. The hydrologic values and the average annual amounts available for withdrawal from the not nontributary Dawson, Denver, and Arapahoe aquifers are as follows:

| Aquifer | Acreage | Sand <u>Thickness</u> | Specific Yield | Ave. Ann. Amt. in Acre-Feet |
|----------|---------|--------------------------|-------------------|--------------------------------|
| Dawson | 2280 | 375 feet | 20% | 1710 |
| Denver | 2080 | 550 feet | 17% | 1945 |
| Arapahoe | 634 | 220 feet | 17% | 237 |

B. <u>Nontributary Denver, Arapahoe, and Laramie-Fox Hills</u> <u>Aquifers</u>:

Pursuant to the Denver Basın Rules, the ground water in the Denver, Arapahoe, and Laramie-Fox Hills aquifers underlying all or part of Applicant's property, as described in Paragraph 4 herein, is classified as nontributary ground water, pursuant to § 37-90-137(9)(c), C.R.S. The hydrologic values and the average annual amounts available for withdrawal from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers are as follows:

| Aquifer | Acreage | Sand <u>Thickness</u> | Specific Yield | Ave. Ann. Amt. in Acre-Feet |
|-----------------------|---------|--------------------------|-------------------|--------------------------------|
| Denver | 200 | 550 feet | 17% | 187 |
| Arapahoe | 1646 | 220 feet | 17% | 616 |
| Laramie- Fox Hills | 2280 | 200 feet | 15% | 684 |

- C. The above values and amounts are consistent with the Findings of the State Engineer issued on March 25, 1986, and supplemented on November 5, 1987.
 - 8. Final and Interim Average Annual Amounts of Withdrawal; and Allowed Amounts of Withdrawal Exceeding Average Annual Amounts:
- A. Final determinations of the applicable average saturated sand thicknesses and resulting average annual amounts available to Applicant from each aquifer will be made pursuant to the retained jurisdiction of this Court, as described in paragraph 18 hereinbelow. In the event this decree is not reopened for a further quantitative determination, the findings herein are final and controlling.
- B. The allowed annual amount of ground water which may be withdrawn from such aquifers through the wells specified above and any additional wells, pursuant to § 37-90-137(10), C.R.S. (1987 Supp.), may exceed the average annual amount of withdrawal, as long as the total volume of water withdrawn through such wells and any additional wells therefor subsequent to the date of this decree does not exceed the product of the number of years since

the date of the issuance of the well permits or the date of this decree, whichever is earliest in time, multiplied by the average annual amount of withdrawal, as specified above or as determined pursuant to the retained jurisdiction of the Court.

9. Source of Ground Water; Limitations on Consumption; Replacement Obligations and Requirements:

- A. The ground water to be withdrawn from the Laramie-Fox Hills aquifer and the described portions of the Denver and Arapahoe aquifers is "nontributary ground water" as defined in § 37-90-103(10.5), C.R.S. (1987 Supp.), and in the Denver Basin Rules, the withdrawal of which will not, within 100 years, deplete the flow of a natural stream, including a natural stream as defined in §§ 37-82-101(2) and 37-92-102(1)(b), C.R.S., at an annual rate greater than 1/10 of 1% of the annual rate of withdrawal.
- B. Applicant may not consume more than 98% of the annual quantity of water withdrawn from the nontributary Denver, Arapahoe, and Laramie-Fox Hills aquifers. The relinquishment of 2% of the annual amount of water withdrawn to the stream system, as required by the Denver Basin Rules effective January 1, 1986, may be satisfied by any method selected by the Applicant and satisfactory to the State Engineer, so long as Applicant can demonstrate that an amount equal to 2% of such withdrawals (by volume) has been relinquished to the stream system.
- C. Withdrawal of ground water from the Dawson aquifer and the described portions of the Denver and Arapahoe aquifers will, within 100 years, deplete the flow of a natural stream at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal therefrom. Such ground water is not nontributary and requires, as a condition precedent to use, that Applicant obtain a judicially approved augmentation plan for the replacement of depletions to the affected stream system, pursuant to the statutory requirements in effect at such time that the augmentation plan is prosecuted.
- D. There is unappropriated ground water available for withdrawal from each aquifer beneath the land described herein, and the vested water rights of others will not be materially injured by such withdrawals as described hereby. The minimum useful life of each of the subject aquifers is at least 100 years, assuming no substantial artificial recharge within 100 years. No

material injury to vested water rights of others will result from the issuance of permits for the subject wells or the exercise of the rights and limitations specified in this decree therefor.

10. Additional Wells and Well Fields:

- A. The Applicant proposes to build a unified municipal water system over the period of many years and will construct its wells as required by development. Any well drilled within 200 feet of a decreed location will be deemed to be constructed at the decreed well location pursuant to the permit and this decree.
- B. In addition to the wells described in paragraph 5 above, Applicant may construct additional and replacement wells in order to maintain levels of production, to meet municipal water supply systems demands or to recover the entire amount of ground water in the subject aquifers underlying the subject property, as described herein. As additional wells are planned, applications shall be filed in accordance with § 37-90-137(10), C.R.S. (1987 Supp.).
- C. The pumping rates for the wells may exceed the pumping rates specified in the State Engineer's Findings in order to meet municipal water supply requirements or to produce the full acre foot allocation of water from each aquifer. Two or more wells constructed into the same aquifer shall be considered a well field. Applicant may produce the entire amount which may be produced hereunder from the particular aquifer through any combination of wells within the well field for that particular aquifer; except that wells constructed in the land area overlying not nontributary ground water may produce only such not nontributary ground water. Moreover, Applicant's augmentation plan will have to separately account for nontributary and not nontributary ground water withdrawals from each aquifer.
- D. In considering applications for permits for additional wells to withdraw the ground water which is the subject of this decree, the State Engineer shall be bound by this decree and shall issue said permits in accordance with provisions of \$37-90-137(10), C.R.S. (1987 Supp.). Applicant shall not be required to submit any additional proof or evidence of matters finally determined herein when making application for permits for wells to withdraw the water which is the subject of this decree, except that the State Engineer may require revised land ownership or consent to use affidavits and may require such additional information as specified in the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.

E. In the event that the allowed average annual amounts decreed herein are adjusted pursuant to the retained jurisdiction of the Court, any existing permit(s) for any well(s) decreed herein shall be amended to reflect such adjusted average annual amounts. New permits for any wells herein shall likewise reflect any such adjustment of the average annual amounts decreed herein.

11. Proposed Uses of Water:

The water withdrawn from any well may be used, reused, and successively used and otherwise disposed of for all municipal purposes including domestic, industrial, commercial, irrigation, stock watering, recreational, fish and wildlife, fire protection and sanitary purposes subject to the provisions of paragraph 20 herein. This water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for exchange purposes, for replacement of depletions resulting from the use of this ground water or of water from other sources, and for augmentation purposes. Moreover, Applicant may use return flows of this ground water to replace stream depletions under a plan for augmentation approved in compliance with applicable law.

12. Conditions:

For each well constructed pursuant to this decree, Applicant shall comply with the following conditions:

- A. A totalizing flow meter shall be installed on the well discharge prior to diverting any water therefrom. Applicant shall keep accurate records of all diversions by the well, make any calculations necessary, and submit such records to the Water Division No. 2 Engineer annually.
- B. The entire length of the open bore hole shall be geophysically surveyed prior to casing and copies of the geophysical log submitted to the Division of Water Resources. Applicant may provide a geophysical log from an adjacent well or test hole, pursuant to Rule 9A of the Statewide Rules and acceptable to the State Engineer, which fully penetrates the aquifer, in satisfaction of the above requirement.
- C. The ground water production shall be limited to the specific aquifer for which the well was designed. Plain, unperforated casing must be installed and properly grouted to prevent withdrawal from or intermingling of water from zones other than those for which the well was designed.

D. Each well shall be permanently identified by its permit number, this Water Court Case Number, and the name of the producing aquifer on the above-ground portion of the well casing or on the pumphouse.

CONCLUSIONS OF LAW

- 13. The Water Court has jurisdiction over this proceeding pursuant to § 37-90-137(6), C.R.S. This Court concludes as a matter of law that the application herein is one contemplated by law. Section 37-90-137(4), C.R.S. The application for a decree confirming Applicant's right to withdraw and use all ground water from the named nontributary and not nontributary aquifers beneath its property as described herein pursuant to § 37-90-137(4), C.R.S. (1987 Supp.), should be granted, subject to the provisions of this decree. The nature and extent of the rights to nontributary and not nontributary ground water determined herein are defined by §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1987 Supp.). The withdrawal of the ground water decreed herein in accordance with the terms of this decree will not result in material injury to vested water rights of others.
- 14. The rights to nontributary and not nontributary ground water determined herein shall not be administered in accordance with priority of appropriation. Such rights are not "conditional water rights" as defined by § 37-92-103(6), C.R.S. The provisions of § 37-92-301(4), C.R.S., requiring quadrennial findings of reasonable diligence are not applicable to the ground water rights determined herein. The determination of ground water rights herein need not include a date of initiation of the withdrawal project. See § 37-92-305(11), C.R.S. (1987 Supp.). Ground water herein which is not nontributary shall be administered only pursuant to §§ 37-90-137(4) and 37-90-137(9), C.R.S. (1987 Supp.).

IT IS THEREFORE, ORDERED, ADJUDGED, AND DECREED THAT:

15. The Findings of Fact and Conclusions of Law are incorporated into this decree of the Water Court.

16. Right to Withdraw Nontributary Ground Water:

The Applicant may withdraw the nontributary ground water herein through the wells listed above at the locations listed above and in the average annual amounts and at the rates of flow specified therefor, subject to the limitations herein and the retained jurisdiction by this Court.

17. Replacement Obligation for Use of Not Nontributary Ground Water Rights:

By separate application, Applicant will seek a plan for augmentation of depletions associated with the withdrawal of not nontributary Dawson, Denver, and Arapahoe ground water as described in Paragraph 7A herein and decreed hereby. No such augmentation plan is sought in this case. Judicial approval of such a plan for augmentation is a condition precedent to withdrawal and use of these resources.

18. Retained Jurisdiction:

- A. The Court retains jurisdiction as necessary to adjust the average annual amounts of nontributary and not nontributary ground water available under the property to conform to actual local aquifer characteristics as determined from adequate information obtained from wells, pursuant to § 37-92-305(11), C.R.S. (1987 Supp.). Within 60 days after completion of any well decreed herein, or any test hole(s), Applicant or any successor in interest to these water rights shall obtain a geophysical log of said well(s) or test hole(s) and shall serve such log(s) upon the State Engineer and notify each of the parties who have appeared herein that copies of the log and well completion report, if the well is completed, are available for review.
- B. At such time as adequate data are available and within four months of notice that the retained jurisdiction for such purpose has been invoked, the State Engineer shall use the information available to him to make a final determination of water rights finding. The State Engineer shall submit such finding to the Water Court and to the Applicant, and the Applicant shall serve a copy upon the other parties.
- C. If no protest to such finding is made within 60 days, the Final Determination of Water Rights shall be incorporated into the decree by the Water Court. In the event of a protest, or in the event the State Engineer makes no determination within four months, such final determination shall be made by the Water Court after notice and hearing.
- D. In the event Applicant fails to invoke retained jurisdiction, the State Engineer or any party hereto may do so. In the interim, the Court retains jurisdiction in this matter pursuant to § 37-92-305(11), C.R.S. (1987 Supp.).
- 19. Upon obtaining an augmentation for the required replacement of not nontributary withdrawals, Applicant is entitled to permits

to construct the wells described in paragraph 5 hereof which will withdraw not nontributary ground water pursuant to § 37-90-137(4), C.R.S.. and such additional wells as may be required in the future to withdraw such ground water pursuant to § 37-90-137(10), C.R.S. (1985 Supp.). With the entry of this decree, Applicant is entitled to permits to construct such wells which will withdraw nontributary ground water.

DECREE ENTERED this 18 day of May

John R. Tracey

Water Judge

Water Division No. 2 State of Colorado

APPROVED AS TO FORM AND CONTENT:

SAUNDERS, SNYDER, ROSS & DICKSON, P.C.

Date: 8 Fc3. 1988

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Denver, Colorado 80202

(303) 292-6600

ATTORNEYS FOR APPLICANT - PENDLETON LAND AND EXPLORATION, INC.

ANDERSON, JOHNSON, & GIANUNZIO

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Colorado Springs, Colorado 80901-02
(303) 632-3545

ATTORNEYS FOR CITY OF COLORADO SPRINGS and UPPER DISTRICT 10 WATER USERS ASSOCIATION

VRANESH AND RAISCH

Date: Jan 4, 1988

Michael D. Shimmin, #9182 P.O. Box 871

Boulder, Colorado 80306 (303) 443-6151

ATTORNEYS FOR JVRC, INC.

Date.____

By______Barbara Hosmer,

Committee Member 11755 Timberland Court Colorado Springs, Colorado 80908 (303) 495-3948

REPRESENTATIVE OF BLACK FOREST LAND USE COMMITTEE

ANDERSON, JOHNSON, & GIANUNZIO

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| Date:_ | Tel 11 | 1920 |

Gregory L. Johnson, #448
Mark T./Pifher, #12629
104 S. Cascade Ave., Suite 204
P.O. Box 240
Colorado Springs, Colorado 80901-02
(303) 632-3545

ATTORNEYS FOR CITY OF COLORADO SPRINGS and UPPER DISTRICT 10 WATER USERS ASSOCIATION

VRANESH AND RAISCH

| Date:_ | Jan. | 4, | 1988 |
|--------|------|----|------|
| _ | | | |

By Michael D. Shimmin, #9182 P.O. Box 871 Boulder, Colorado 80306 (303) 443-6151

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| Date: |
|-------|
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Committee Member
11755 Timberland Court
Colorado Springs, Colorado 80908
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VRANESH AND RAISCH

| Date: |
|-------|
|-------|

Michael D. Shimmin, #9182 P.O. Box 871 Boulder, Colorado 80306 (303) 443-6151

ATTORNEYS FOR JVRC, INC.

Date : 05-13-88

Barbara Hosmer,

Committee Member

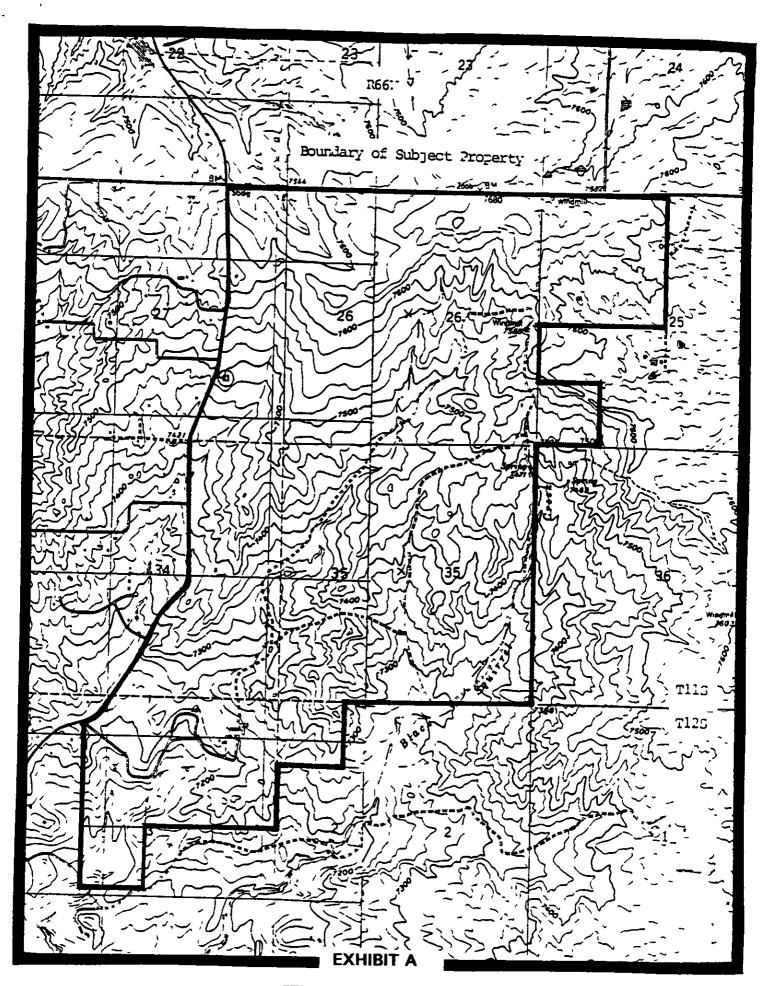
11755 Timberland Court

Colorado Springs, Colorado 80908

(303) 495-3948

REPRESENTATIVE OF BLACK FOREST LAND USE COMMITTEE

xc: Robert E. Schween
Michael D. Shimmin
Black Forest Land Use Committee, pro se
Gregory L. Johnson
Division Engineer
State Engineer



GENERAL LOCATION MAP

Colorado Department of Natural Resources golorado Divialon of Colorado's Well Permit Search THIS PAGE IS NOT THE ACTUAL PERMIT The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. (Full Disclaimer) Permit Issued; Completion Status Unknown Help Last Refresh: 12/6/2016 12:03:01 AM Receipt: 3628088A Division: Permit #: 1689-BD -Water District: 1 Well Name / #: County: EL PASO Designated Basin: KIOWA-BIJOU **Management District:** Case Number: WDID: [-] Imaged Documents - Permit File **Date Imaged Annotated** Findings & Order for Determination 05/21/2009 [-] Applicant/Contact Applicant/Contact Name **Mailing Address** City/State/Zip MCCUNE GEORGE F & EVELYN 17480 MERIDIAN RD ELBERT, CO 80106-8916 [-] Location Information Approved Well Location: Q40 Q160 Section Township Range PM Footage from Section Lines 24 11.05 65.0W Sixth Northing (UTM y): 4325550.5 Easting (UTM x): 533176.3 Location Accuracy: Spotted from quarters **Subdivision Name** Filing Block Lot Parcel ID: Acres in Tract: 900,52 [-] Permit Details Date Issued: 06/25/2008 **Date Expires:** Uses (See Imaged Documents for more infomation) General Use(s): COMMERCIAL Aquifer(s): LARAMIE FOX HILLS DOMESTIC Special Use: Area which may be irrigated: Annual volume of appropriation: Cross Reference Permit(s): Permit Number Comments: DETER ISSUED [-] Construction/Usage Details Well Construction Date: Pump Installation Date: Well Plugged: 1st Beneficial Use: Elevation Depth Perforated Casing (Top) Perforated Casing (Bottom) Static Water Level Pump Rate [-] Application/Permit History Permit Issued 06/25/2008 Application Received 04/17/2008

Disclaimer

*The information contained on this page is a symmery of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.

This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate. The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).

Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn

Colorado.gov Contact Us

State of Colorado Water Resources - View Well Details: Receipt 3628088A Page 2 of 2

more about well permitting in Colorado, please visit <u>DWR's Well Permitting Page</u>. If you have any questions about this well permit file, please contact the <u>DWR Ground Water Information Desk</u>.

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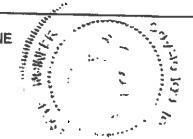
COLORADO GROUND WATER COMMISSION FINDINGS AND ORDER

IN THE MATTER OF AN APPLICATION FOR DETERMINATION OF WATER RIGHT TO ALLOW THE WITHDRAWAL OF GROUND WATER IN THE KIOWA-BIJOU DESIGNATED GROUND WATER BASIN

APPLICANT: GEORGE F. MCCUNE AND EVELYN MCCUNE

AQUIFER: LARAMIE-FOX HILLS

DETERMINATION NO.: 1689-BD



In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Laramie-Fox Hills Aquifer.

FINDINGS

- The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
- 2. The applicant requests a determination of rights to designated ground water in the Laramie-Fox Hills Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
- 3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
- 4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter "Commission") has jurisdiction.
- 5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
- 6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 26300 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

Applicant: George F. McCune and Evelyn McCune

Aquifer: Laramie-Fox Hills Determination No.: 1689-BD

- a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 15 percent.
- b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 195 feet.
- 7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
- 8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal pursuant to the data in the paragraphs above for the 900.52 acres of overlying land claimed by the applicant is 263 acre-feet.
- A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
- 10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
- 11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
- 12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural steam or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
- 13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
- 14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

Aquifer: Laramie-Fox Hills Determination No.: 1689-BD

- 15. In accordance with Sections 37-90-107(7) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on May 8 and May 15, 2008.
- 16. No objections to the determination of water right and proposed allocation of ground water were received within the time limit set by statute.
- 17. In order to prevent unreasonable impairment to the existing water rights of others within the Kiowa-Bijou Designated Ground Water Basin it is necessary to impose conditions on the determination of water right and proposed allocation of ground water. Under conditions as stated in the following Order, no unreasonable impairment of existing water rights will occur from approval of this determination of water right or from the issuance of well permits for wells to withdraw the authorized amount of allocated ground water from the aquifer.

ORDER

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, the Colorado Ground Water Commission orders that the application for determination of rights to designated ground water in the Laramie-Fox Hills Aquifer underlying 900.52 acres of land, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, is approved subject to the following conditions:

- 18. The allowed average annual amount of withdrawal of ground water from the aquifer shall not exceed 263 acre-feet. The allowed maximum annual amount of withdrawal may exceed the allowed average annual amount of withdrawal as long as the total volume of water withdrawn does not exceed the product of the number of years since the date of approval of this determination times the allowed average annual amount of withdrawal.
- 19. To conform to actual aquifer characteristics, the Commission may adjust the allowed average annual amount of ground water to be withdrawn from the aquifer based on analysis of geophysical logs or other site-specific data if such analysis indicates that the initial estimate of the volume of water in the aquifer was incorrect.
- 20. The applicant may pump the allowed average annual amount of withdrawal and the allowed maximum annual amount of withdrawal from one or more wells of a well field in any combination, so long as the total combined withdrawal of the wells does not exceed the amounts described in this Order.
- 21. No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.
- 22. The use of ground water from this allocation shall be limited to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The place of use shall be limited to the above described 900.52 acre land area.

Applicant: George F. McCune and Evelyn McCune

Aquifer: Laramie-Fox Hills Determination No.: 1689-BD

- 23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county in which the claimed overlying land is located notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient, and the date of transfer.
- 24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:
 - a. The wells shall be located on the above described 900.52 acre overlying land area.
 - b. The wells must be constructed to withdraw water from only the Laramie-Fox Hills Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.
 - c. The entire depth of each well must be geophysically logged <u>prior</u> to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.
 - d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.
 - e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.
 - f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.
- 25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Dated this 25-12 day of June, 2008.

Dick Wolfe, P.E Executive Director

Colorado Ground Water Commission

Keith Vander Horst, P.E. Water Resource Engineer

Prepared by: JPM

92GWS 1 03/2005

EXHIBIT A

1689-BD

Page 1 of 2

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

1313 Sherman St. Room 821 **Denver, CO 80203**

(303) 866-3581 Fax (303) 866-3589

RECEIVED

APR 1 7 2008

| NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT |
|---|
| (We) George F. McCune and Evelyn McCune (Name(s)) |
| claim and say that I (we) am (are) the owner(s) of the following described property consisting of 900,52 acres in the County of El Paso State of Colorado: |
| (Insert the property legal description) |
| SW/4SW/4 Section 18 and W/2 of the W/2 Section19, T11S, R64W, and S/2SE/4 Section 13 and All of Section 24, T11S R65W, 6 th PM, El Paso County, 900.52 acres |
| See attached Quitclaim Deed dated November 29, 1976, and map. |
| |

and, that the ground water sought to be withdrawn from the Laramie-Fox Hills aquifer underlying the above-described land has not been conveyed or reserved to another, nor has consent been given to its withdrawal by another.

Further, I (we) claim and say that I (we) have read the statements made herein; know the contents hereof; and that the same are true to my (our) knowledge. Signature Signature Date

Evelyn In McCune
Date

Date

INSTRUCTIONS:

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word processing means. See additional information on the reverse side.

EXHIBIT A est Copy Available 1689-BD Page 2 of 2 QUITCEAIM DEED APR 1 7 2008 RAY C. McCUNE and GRETA C. McCUNE, as imband and wife, of the County of El Paso and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLOMBER good and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. McCLINE and EVELYN M. McCUNE, husband and wife, in joint tenancy, of the County of Elbett and State of Colorado, a one-half interest in and to all minerals underlying the following described property, including oil and gas, said property lying and being in the County of El Paro and State of Colorado, to wit: The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Shay-four; the West half of the West half of Section Nineteen, Township Eleven, Range Shay-four; the South half of the Southeast Quarter of Section Thirteen, Township Eleven, Range Shay-five; All of Section Twenty-four, Township Eleven, Range Shay-five; continuing in all Nine hundred and filty-time hundred its (900:52) acres, more or less, according to Government with all its appurtenances. Nο DATED and signed this 22 day of Nov. Consideration NOV 2 9 1976 STATE OF GOLORADO. COUNTY OF EL PASO) The foregoing instrument was acknowledged before me this allow. 1976, by Ray C. McCurie and Genta Co McCurie.

COLORADO GROUND WATER COMMISSION DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 Sherman St, Room 818, Denver, CO 80203

RECEIVED

APR 1 7 2008

COLOR.

APPLICATION FOR DETERMINATION OF WATER RIGHT WITHIN A DESIGNATED GROUND WATER BASIN PURSUANT TO SECTION 37-90-107(7), C.R.S.

Please note: This application may only be used to apply for a determination of rights to ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer underlying land areas located within a Designated Ground Water Basin. Review the instructions on the reverse of this form. This form must be completed, signed, dated and submitted to the Ground Water Commission with a non-refundable \$60 filing fee. A separate form must be used for each aquifer determination. Type or print in black ink.

| 1. APPLICANT INFORMATION | | | | |
|--|--|--|--|--|
| Name of Applicant | | | | |
| George F. McCune and Evelyn McCune Applicant Mailing Address | | | | |
| *** Private William Publicas | | | | |
| 17480 Meridian Road, Elbert, CO 80106-8916 | | | | |
| c/o Colorado Water Plans, P O Box 1955, Elbert, CO 80106-8916 | | | | |
| | | | | |
| Applicant Telephone Number (include alea code) | | | | |
| 303 648 9090 Contact 303 646-4201 719-495-2562 | | | | |
| 2. AMOUNT OF OVERLYING LAND – the total and area claimed and described by the applicant in Item #8 below, | Fox Hills NT | | | |
| 900.52 acres. | | | | |
| 4. EXISTING WELLS Are there any wells located on the claimed and described overlying is | | | | |
| The contract of the property of the contract o | A do this annit | | | |
| 5. ANNOAL AMOUN! OF GROUND WATER - 10 FOURT | | | | |
| Tiease specify one of the for | ses, from the aquifer underlying the | | | |
| Maximum allowable | m allowable annual acre-feet, excluding | | | |
| annual acre-test | more from from that are | | | |
| 6. USE OF GROUND WATER - description of intended beneficial uses of the ground water in All water withdrawa will be reused, successively used leaved sold on the property of the ground water in the property water in the p | | | | |
| All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the foindustrial, commercial, irrigation, augmentation, stock watering measurements and a second seco | flowing hereficial man domestic | | | |
| square feet and wildlife. The water will be and the water feet and water regular ponds as | ed piscatorial habitat less than 1900 | | | |
| uses, for replacement of depletion's from the use of water from other sources and for all other augme | ge and subsequent application to said | | | |
| | | | | |
| 7. PLACE OF USE - of the ground water shall be considered to be that overlying land area class term #8 below, unless a legal description or accurate scale map is provided which describes | imed and described by the population | | | |
| Item #8 below, unless a legal description or accurate scale map is provided which describes a | an alternate/additional place of use. | | | |
| THE STORED LANDOWNERSHIP IN CHIMENTATION TO STORE STORES | | | | |
| Ground Water Landownership Statement (form Child a) on his basis of ownership of overlying land. For this reason, a Nontributary | | | | |
| description of the overlying land area subject to this determination, must be submitted as an attachment to the application. | | | | |
| S. SIGNATURE OF APPLICANT - must be original discrete | | | | |
| second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(1. herein, know the contents thereof, and state that they are true to making of false statemen | ts herein constitutes perjury in the | | | |
| | 3)(a). I have read the statements | | | |
| Signature Sunge 7 Mc Cune | 1 | | | |
| Care in a male. | | | | |
| - print name and title George F. McCune and Evelyn McCune, Owners | | | | |
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George F. McCune and Evelyn McCune Subsurface Water Rights

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sw. /

APR 1 7 2008

WATER RESOURCES STATE ENGINEER CCLO.

Post Copy Available Subsurface water rugits

SW/4SW/4 Section 18 and W/2 of the W/2 Section 19, T115, R64W, and S/2SE/4 Section 13 and All of Section 24, T115 R65W, 6th PM,

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| BISON MEADOWS LLC 84 BD |
| CRESCENTI MARK'S 81959 175713 172196 |
| OLSON BOB 188955-141577 111472 C030 153962 |
| 138238 (3888) 17 7159144 2e |

THERE ARE NO WATER WELLS ON THE PROPERTY

LOCATION MAP from CDSS

RECEIVED



Box: 1955 / Elizabeth / Colorado / 80107





COLORADO WATER PLANS

Water Consultants

Colorado Ground Water Commission Division of Water Resources Department Of Natural Resources 1313 Sherman Street - Room 818 Denver, Colorado 80203

Re: Application for Determination of Water Right Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

| dansferred or distributed to me from other person or entity. | |
|--|------------------|
| Client: | |
| By: Len 7 mcp 10 | |
| By: Leng 7 McCom + Evelyn m, Ing | Sine |
| Ву: | |
| Date: 4-14-08 | |
| Colorado Water Plans LLC | |
| Craig L. Curl | |
| Dr. W. Jerry Koch | |
| Lisa S. Weinstein, Dsq. #35688 | |
| By: | |
| Date: 4-14-60 | and the state of |
| Date: 4-14-68 | |

DETERMINATION OF WATER RIGHT SECTION 37-90-107(7)

APPLICANT:

George F. McCune and Evelyn McCune

BASIN:

Kiowa-Bijou

COUNTY:

El Paso

AQUIFER:

Laramie-Fox Hills

RECEIPT NO.

3628088A

NUMBER OF ACRES IN TRACT: 900.52 acres

GENERAL LOCATION: SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6th PM,

S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6th PM.

AQUIFER DATA

AMOUNT AVAILABLE FOR APPROPRIATION:

(195 feet SS)(900.52 Acres)(0.15 SY) = 26340 AF

263.4 AFyr

ADJUSTMENTS:

None

ANNUAL AMOUNT:

263.4 AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: N/A

OVERLAP AREA:

N/A

AREA CHECKED:

Sections 18, 19, and 30, T11S, R64W

Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: N/A

REPLACEMENT WATER STATUS OF CLAIMED LAND AREA:

Nontributary

REPLACEMENT PLAN REQUIRED:

Not Required

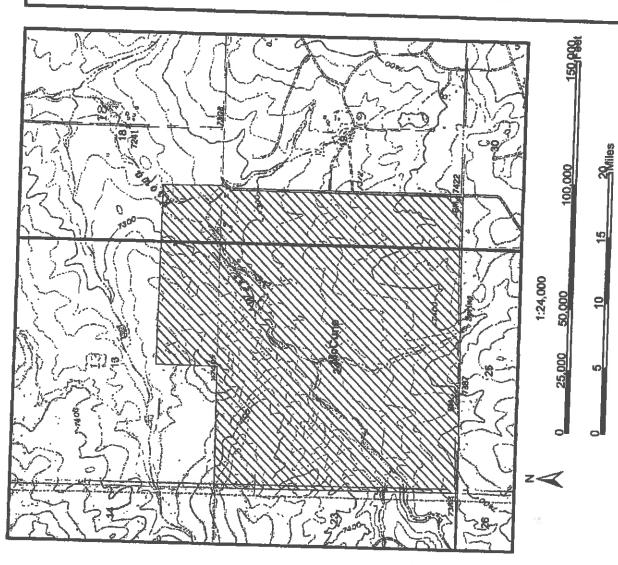
AQUIFER INTERVAL (CENTRAL DATA POINT):

2620 feet to 2940 feet below ground surface

COMMENTS: The SS was considered 195 feet based on the SS map for the Laramie-Fox Hills aquifer.

Evaluated by: Justina Mickelson, Ground Water Commission Staff

Reviewed by C66



DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088A Applicant: George F. McCune and Evelyn McCune Basin: Kiowa-Bijou

GWMD:

Aquifer. Laramie-Fox Hills

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

Area claimed: 900.52 acres 897 acres measured Perimeter = 7,963 m

Legend

Township Section

2 jpm_wark



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DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088A
Applicant: George F. McCune
and Evelyn McCune
Basin: Kiowa-Bijou

GWMD:

Aquifer: Laramie-Fox Hills

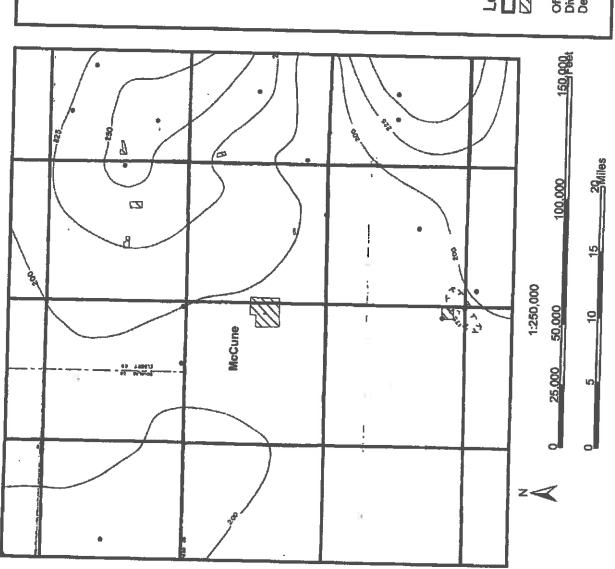
Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

Area claimed: 900.52 acres 897.22 acres measured. Perimeter = 7,963 m

Tributary Status NT

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DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088A Applicant: George F. McCune and Evelyn McCune Basin: Klowa-Bijou

GWMD:

Aquifer. Laramie-Fox Hills

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

Area claimed: 900.52 acres 897.22 acres measured Perimeter = 7,963 m

Saturated Sands

Legend

Township Jpm_work





DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

Bill Ritter, Jr. Governor Harris D. Sherman **Executive Director** Dick Wolfe, P.E. Director

May 1, 2008

George F. McCune and Evelyn McCune c/o Colorado Water Plans P.O. Box 1955 Elizabeth, CO 80107

Applications for Determinations of Water Right to Appropriate Ground Water from the RE: Laramie-Fox Hills, Arapahoe, Denver, and Dawson Aquifers Underlying a 900.52-Acre

Receipt Nos. 3628088A-D

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the legal notice to be published in the Ranchland News newspaper as required for the above described applications. If you find any errors or omissions in the notice, please contact this office by phone as soon as possible so that corrections may be made prior to publication. This office will bill you at a later time for the actual cost of this publication.

If you have any questions concerning these applications, please contact me at this office.

Justina Mickelson

Physical Science Researcher Scientist

Designated Basins Branch

Enclosures: a/s

cc: George and Evelyn McCune

Office of the State Engineer

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589

www.water.state.co.us

OFFICE OF THE STATE ENGINEER

Division of Water Resources – Department of Natural Resources 1313 Sherman St, Room 818, Denver, Colorado 80203 Phone 303-866-3581 – FAX 303-866-3589 – www.water.state.co.us

May 1, 2008

Ranchland News PO Box 307 Simla, CO 80835

Applicant: George F. McCune and Evelyn McCune

-EMAIL- DOCUMENT TRANSFER-

Please publish the enclosed legal notice in your editions of May 8, 2008 and May 15, 2008, or as close to these dates as possible. Please single-space all the enclosed material in your standard single column legal notice format. Font size shall not be less than six-point type and not more than nine-point in size.

Prior to publishing the legal notice, a proof copy must be submitted to this office for approval. The Ground Water Commission staff will inspect the proof copy and a reply as to its correctness will be made immediately by phone to your office. The proof copy must be directed to the attention of Justina Mickelson, Colorado División of Water Resource at the above address, or by email justina.mickelson@state.co.us or fax 303-866-3589.

The state Controller and the State Purchasing Agent require that four copies of the billing and four copies of the proof of publication affidavit must be received in order to process billing invoices for legal notice publications. Two copies of the proof of publication must be notarized.

Since we must re-bill the applicant prior to the official action concerning their application request, please transmit the billing copies together with the proofs of publication as soon as possible.

Should you have any questions concerning publication of this notice, please contact this office.

Sincerely.

Justina Mickelson Physical Science Researcher Scientist Designated Basins Branch

Enclosure (a/s)

cc: Robert R. Loose, Commission Member

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BEFORE THE COLORADO GROUND WATER COMMISSION

KIOWA-BIJOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY

TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCune and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th PM. The applicant claims ownership of this land and control of the ground water in the above-described aquifers under this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The maximum allowable annual amount of ground water in each aquifer underlying the described property will be allocated.

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, the Colorado Ground Water Commission shall allocate ground water from the above-described aquifers based on ownership of the overlying land and an aquifer life of one hundred years. A preliminary evaluation of the applications by the Commission Staff finds the annual amount of water available for allocation from each of the described aquifers underlying the above-described property to be as follows: 263.4 acre-feet for the Laramie-Fox Hills, 398.0 acre-feet for the Arapahoe, 528.2 acre-feet for the Denver, and 819.5 for the Dawson subject to final staff evaluation. The estimated available annual acre-feet allocation amount for each aquifer indicated above may be increased or decreased by the Commission to conform to the actual aquifer characteristics, based upon site specific data.

In accordance with Rule 5.3.6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement status for the above aquifers underlying the above-described property to be as follows: nontributary for the Laramie-Fox Hills, nontributary for the Arapahoe, nontributary for the Denver, and not-nontributary (actual impact replacement) for the Dawson.

Upon Commission approval of these determinations of water right, well permits for wells to withdraw the allowed allocation from a specific aquifer shall be available upon application, subject to the conditions of the determination and the Designated Basin Rules and subject to approval by the Commission. Such wells must be completed in the specified aquifer and located on the above described 900.52 acre property. Well permits for wells to withdraw ground water from the Dawson aquifer would also be subject to the conditions of a replacement plan to be approved by the Commission.

Any person wishing to object to the approval of these determinations of water right must do so in writing, briefly stating the nature of the objection and indicating the above applicant, property description and the specific aquifers that are the subject of the objection. The objection must be accompanied by a \$10 per aquifer fee and must be received by the Commission Staff, Colorado Ground Water Commission, 818 Centennial Building, 1313 Sherman Street, Denver, Colorado 80203, by June 16, 2008.

PUBLISHER'S AFFIDAVIT

STATE OF COLORADO COUNTY OF ELBERT

I. Susan Lister, do solemnly affirm that I am the Publisher of RANCHLAND NEWS; that the same is a weekly newspaper published at Simia, County of Elbert, State of Colorado, and has a general circulation therein; that said newspaper has been continuously and uninterruptedly published in said County of Elbert for a period of at least 52 consecutive weeks next prior to the first publication of the annexed notice, that said newspaper is entered in the post office at Calhan, Colorado as second class mall matter and that said newspaper is a newspaper within the meaning of the Act of the General Assembly of the State of Colorado, approved March 30, 1923, and entitled "Legal Notices and Advertisements," with other Acts relating to the printing and publishing of legal notices and advertisements. That the annexed notice was published in the regular and entire issue of said newspaper, once each week for two successive weeks; that the first publication of said notice was in the Issue of said newspaper dated:

2008

and the last publication of said notice was in the issue of said newspaper dated:

as 800.

and that copies of each number of said paper in which said notice and/or list was published were delivered by carriers or transmitted by mail to each of the subscribers of said newspaper, Ranchland News, according to the accustomed mode of busiques in this office.

Publisher

The above certificate of publication was subscribed and affirmed to before me, a Nolary Public, to-be the identical person described in the above certificate, on the

2008 Notary Public

My Notary Public Commission Expiration Date)

Determinations of Water

Right BEFORE THE COLORADO GROUND WATER COMMISSION KIOWA-BIJOU DESIGNATED GROUND

WATER BASIN- EL PASO COUNTY TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCune and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Laramio-Fox Hills, Atapahoe, Denver, and Dawson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2. of the SEL/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th PM. The applicant claims ownership of fais land and control of the ground water in the above-described equifers under this property. The ground water allocations from these squifers will be used on the described property for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The maximum allowable annual amount of ground water in each

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First Publication May 8, 2008 Pinal Publication May 15, 2008 In Ranchland News Legal No. 12,936

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MAY 1 9 2008

WATER RESOURCES COLO.

PUBLISHER'S AFFIDAVIT

STATE OF COLORADO COUNTY OF ELBERT

i, Susan Lister, do solemnly affirm that I am the Publisher of RANCHLAND NEWS; hat the same is a weekly newspaper pubished at Simia, County of Elbert, State of Colorado, and has a general circulation herein; that said newspaper has been coninvously and uninterruptedly published in said County of Elbert for a period of at least 52 consecutive weeks next prior to the first pubication of the annexed notice, that said newspaper is entered in the post office at Calhan, Colorado as second class mail matter and that said newspaper is a newspaper within the neaning of the Act of the General Assembly of the State of Colorado, approved March 30, 923, and entitled "Legal Notices and Adverisements," with other Acts relating to the printng and publishing of legal notices and ad-'ertisements. That the annexed notice was sublished in the regular and entire issue of aid newspaper, once each week for 1400 uccessive weeks; that the first publication of aid notice was in the Issue of said newspaer dated:

2008

nd the last publication of said notice was in ie issue of said newspaper dated:

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nd that copies of each number of said paper which said notice and/or list was published ere delivered by carriers or transmitted by rail to each of the subscribers of said newsaper, Ranchland News, according to the ocustomed mode of business in this office.

Publisher

The above certificate of publication was abscribed and affirmed to before me, a Nory Public, to be the identical person deribed in the above certificate, on the

Notary Public

ly Notary Public Commission Expiration Date)

Determinations of Water

Right BEFORE THE COLORADO GROUND WATER COMMISSION

KIOWA-BLIOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY TAKE NOTICE that purpusuit to Section 37-90-107(7), C.R.S., George F. McCone and Evelyn McCune (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Laramic-Fox Hills, Asapahoe, Denver, and Dawson aquifers underlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the \$1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th PM. The applicant claims ownership of this land and control of the ground water in the above described aquifers under this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: domestic, industrial, commercial, irrigation,

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First Publication May 8, 2008 Final Publication May 15, 2008 In Ranchiand News Legal No. 12,936

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加 Colorado Ground Water Commission 1313 Sherman Street, Room 818 Denver CO 80203

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DEPARTMENT OF NATURAL RESOURCES

JUN. 0 2 2008

DIVISION OF WATER RESOURCES

WATER RESOURCES STATE ENGINEER COLO.

Bill Ritter, Jr. Governor

Harris D. Sherman Executive Director

Dick Wolfe, P.E. Director

George F. McCune and Evelyn McCune c/o Colorado Water Plans P.O. Box 1955 Elizabeth, CO 80107

Invoice No. 08-PUB-220

INVOICE

May 21, 2008

Pursuant to Section 37-90-116, C.R.S., applicants are required to pay for the actual expense of publication for determinations of water right, well permit and change of water right applications.

Your application for determinations of water right to appropriate ground water from the Laramie-Fox Hills, Arapahoe, Denver, and Dawson aquifers was published in the Ranchland News newspaper on May 8 and May 15, 2008.

\$74.68

The following cost was incurred:

1. Actual cost of publication:

2. Additional fees: none

\$74.68

Your application cannot be considered for approval until the charges are paid.

Please return the enclosed copy of this invoice with remittance within thirty (30) days.

(A copy of the publication affidavit is enclosed for your records.)

Sincerely,

PAYABLE TO: DIVISION OF WATER RESOURCES

Justina P. Mickelson

Physical Science Researcher Scientist

Designated Basins Branch

Trans Number: 3629687 6/2/2008 9:32:21 AM Debbie Gorzales (20) Total Trans Amt: \$231,58

CHECK

Check Number: 9784 Check Amount: \$231.58

Enclosures (a/s)



DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

June 27, 2008

Bill Ritter, Jr. Governor

Harris D. Sherman Executive Director

Dick Wolfe, P.E. Director

George F. and Evelyn McCune 17480 Meridian Road Elbert, CO 80106-8916

RE: Determination of Water Right

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1689-BD, for the allocation of ground water in the Laramie-Fox Hils aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county – in which the overlying land is located – so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

Sincerely,

Justina P. Mickelson

Physical Science Researcher Scientist

Gustino P. Micail

Designated Basins Branch

Endosures: a/s

Colorado Department of Natural Resources

Colorado.gov | Contact Us

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Colorado's Well Permit Search

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| Well Name / #; | County: | EL PASO | | |
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| [-] Imaged Documents - Perm | ilt File | | | |
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| Findings & Order for Determination | | | | |
| [-] Applicant/Contact | | | | |
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| MCCUNE GEORGE F & EVELYN | 17480 MERIDIAN RI | ELBER | , CO 80106-8916 | |
| [-] Location Information | | | | |
| Approved Well Location: | | | | |
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| [-] Permit Details | | | | |
| | te Expires: | | | |
| Uses (See <u>Imaged Documents</u> for m General Use(s): COMMERCIAL DOMESTIC | | quifer(s): ARAPAHOE | | |
| Special Use: | | | | |
| Area which may be irrigated: Annual volume of appropriation: | | | | |
| Statute: | | | | |
| Cross Reference Permit(s): Perm | nit Number Receipt | | | |
| Comments: DETER ISSUED | | | | |
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| Well Construction Date: Well Plugged: | Pump Installation Da 1st Beneficial Use: | nte: | | |
| Elevation Depth Perforated Cash | | Bottom) Static Wate | Level Pump Rate | |
| [-] Application/Permit History | | | | |
| Permit Issued 06/25/200 | 08 | <u> </u> | | |
| Application Received 04/17/200 | | | | |
| Disclaimer | | | | |
| *The information contained on thi | s page is a summary of the pe | rmit file and may not | reflect all | |
| details of the well permit. THIS P | | | | |
| This page should not be used as a the well, to determine construction | D information, or to determine | the terms and condi | ione undor | |
| which the well can operate. The co | omplete well permit file should be | viewed to obtain details | on the allowed | |

uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).

Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn

more about well permitting In Colorado, please visit <u>DWR's Well Permitting Page</u>. If you have any questions about this well permit file, please contact the <u>DWR Ground Water Information Desk</u>.

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COLORADO GROUND WATER COMMISSION FINDINGS AND ORDER

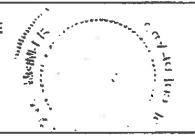
IN THE MATTER OF AN APPLICATION FOR DETERMINATION OF WATER RIGHT TO ALLOW THE WITHDRAWAL OF GROUND WATER IN THE KIOWA-BIJOU DESIGNATED GROUND WATER BASIN

APPLICANT: GEORGE F. MCCUNE AND EVELYN MCCUNE

AQUIFER: ARAPAHOE

1

DETERMINATION NO.: 1690-BD



In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Arapahoe Aquifer.

FINDINGS

- 1. The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
- 2. The applicant requests a determination of rights to designated ground water in the Arapahoe Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
- 3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
- 4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter "Commission") has jurisdiction.
- 5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
- 6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 39800 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

Aquifer: Arapahoe

Determination No.: 1690-BD

- a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 17 percent.
- b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 260 feet.
- 7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
- 8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal by the applicant is 398 acre-feet.
- A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
- 10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
- 11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
- 12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural steam or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
- 13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
- 14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

Applicant: George F. McCune and Evelyn McCune Page 3

Aquifer: Arapahoe

Determination No.: 1690-BD

15. In accordance with Sections 37-90-107(7) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on May 8 and May 15, 2008.

- 16. No objections to the determination of water right and proposed allocation of ground water were received within the time limit set by statute.
- 17. In order to prevent unreasonable impairment to the existing water rights of others within the Kiowa-Bijou Designated Ground Water Basin it is necessary to impose conditions on the determination of water right and proposed allocation of ground water. Under conditions as stated in the following Order, no unreasonable impairment of existing water rights will occur from approval of this determination of water right or from the issuance of well permits for wells to withdraw the authorized amount of allocated ground water from the aquifer.

ORDER

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, the Colorado Ground Water Commission orders that the application for determination of rights to designated ground water in the Arapahoe Aquifer underlying 900.52 acres of land, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, is approved subject to the following conditions:

- 18. The allowed average annual amount of withdrawal of ground water from the aquifer shall not exceed 398 acre-feet. The allowed maximum annual amount of withdrawal may exceed the allowed average annual amount of withdrawal as long as the total volume of water withdrawn does not exceed the product of the number of years since the date of approval of this determination times the allowed average annual amount of withdrawal.
- 19. To conform to actual aquifer characteristics, the Commission may adjust the allowed average annual amount of ground water to be withdrawn from the aquifer based on analysis of geophysical logs or other site-specific data if such analysis indicates that the initial estimate of the volume of water in the aquifer was incorrect.
- 20. The applicant may pump the allowed average annual amount of withdrawal and the allowed maximum annual amount of withdrawal from one or more wells of a well field in any combination, so long as the total combined withdrawal of the wells does not exceed the amounts described in this Order.
- 21. No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.
- 22. The use of ground water from this allocation shall be limited to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The place of use shall be limited to the above described 900.52 acre land area

Applicant: George F. McCune and Evelyn McCune

Aquifer: Arapahoe

Determination No.: 1690-BD

and the date of transfer.

23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county - in which the claimed overlying land is located - notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient,

- 24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:
 - a. The wells shall be located on the above described 900.52 acre overlying land area.
 - b. The wells must be constructed to withdraw water from only the Arapahoe Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.
 - c. The entire depth of each well must be geophysically logged <u>prior</u> to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.
 - d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.
 - e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.
 - f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.
- 25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Page 4

Aquifer: Arapahoe

Determination No.: 1690-BD

Page 5

Dated this 25th day of June 2008.

Dick Wolfe, P.E

Executive Director

Colorado Ground Water Commission

Keith Vander Horst, P.E.

Water Resource Engineer

Prepared by: JPM

92GWS 1 03/2005

EXHIBIT A

1690-BD

Page 1 of 2

STATE OF COLORADO

OFFICE OF THE STATE ENGINEER DIVISION OF WATER RESOURCES

1313 Sherman St. Room 821 Denver, CO 80203

(303) 866-3581 Fax (303) 866-3589

RECEIVED

APR 1 7 2008

WATER RESOURCES STATE ENGINEER COLO.

NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT

| (We) George F. McCune and Eve | olyn McCune (Name(s)) | | |
|---|--------------------------|--|--|
| claim and say that I (we) am (are) the 900.52 acres in the County of EI Postate of Colorado: | ne owner(s) of | f the following described property consisting of | |
| (Insert the property legal description |) | | |
| SW/4SW/4 Section 18 and W/2 of the W/2 Section19, T11S, R64W, and S/2SE/4 Section 13 and All of Section 24, T11S R65W, 6 th PM, El Paso County, 900.52 acres | | | |
| | | Li raso county, soc.32 acres | |
| See attached Quitclaim Deed da | ated Novem | rber 29, 1976, and map. | |
| and, that the ground water sought to be withdrawn from the <u>Arapahoe</u> aquifer underlying the above-described land has not been conveyed or reserved to another, nor has consent been given to its withdrawal by another. | | | |
| Further, I (we) claim and say that I (we) have read the statements made herein; know the contents hereof; and that the same are true to my (our) knowledge. | | | |
| | Signature | Glorge 7 Mc Cum & Date Eulyn M. Mc Cun | |
| | Signature | Evelyn Mr. Mc Ceene Date | |
| *************************************** | | | |

INSTRUCTIONS:

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word processing means. See additional information on the reverse side.

EXHIBIT A 1690-BD Page 2 of 2 Best Copy Available QUITCLAIM DEED APR 1 7 2008 RAY C. McCLINE and GRETA C. McCLINE, as husband and wife, of the County warm new of El Pisso and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLO MARIE COLO M grand and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. McCLINE and EVELYN M. McCLINE, husband and wife, in Joint senancy, of the County of Elbert and State of Colorado, a one-half interest in and to all minerals underlying the following described property, including all and gas, said property lying and being in the County of El Paro and State of Colorado, to wit: The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Shity-four; the West half of the West half of Section Nineteen, Township Eleven, Range Shity-four; the South half of the Southeast Quarter of Section Thisteen, Township Eleven, Range Shity-five; All of Section Twenty-four, Township Eleven, Range Shity-five, containing in all Nine hundred and (My-two hundredths (900:32) acres, more or less, according to Government No DATED and signed this 22 day of Nov. Consideration NOV 29 1976 STATE OF COLORADO) COUNTY OF EL PASO) The foregoing instrument was admowledged before me this 22

COLORADO GROUND WATER COMMISSION DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 Sherman St. Room 818, Denver, CO 80203

RECEIVED

APPLICATION FOR DETERMINATION OF WATER RIGHT WITHIN A DESIGNATED GROUND WATER BASIN PURSUANT TO SECTION 37-90-107(7), C.R.S.

APR 1 7 2008

WATER REQUIRCES STATE ENGINEER COLO.

Please note: This application may only be used to apply for a determination of rights to ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer underlying land areas located within a Designated Ground Water Basin. Review the instructions on the reverse of this form. This form must be completed, signed, dated and submitted to the Ground Water Commission with a non-refundable \$60 filing fee. A separate form must be used for each aquifer determination. Type or print in black ink.

| Type | or print in black ink. |
|--|--|
| 1. APPLICANT INFORMATION | |
| Name of Applicant | |
| George F. McCune and Evelyn McCune | |
| Applicant Mailing Address | |
| 17480 Meridian Road, Elbert, CO 80106-8916 c/o Colorado Water Plans, P O Box 1955, Elbert, CO 80106 | |
| Applicant Telephone Number (include area code) | |
| -203 648-9999 Contact 303 646-4201 719-495-2562 | |
| AMOUNT OF OVERLYING LAND — the total and area claimed and described by the applicant in Item #8 below, consisting of 900.52 acres. | |
| 4. EXISTING WELLS - Are there any wells located on the claimed and described overlying land? Yes | s No X |
| If yes, provide a complete list of all wells located on the overlying land area as an attachment to this ap- | plication. |
| 5. ANNUAL AMOUNT OF GROUND WATER — to be withdrawn, for intended beneficial uses, from the described land area claimed by the applicant in Item #8 below. Please specify one of the following: | ne aquifer underlying the |
| annual acre-feetacre-f | le annual acre-feet, excluding leet from that amount |
| 6. USE OF GROUND WATER - description of intended beneficial uses of the ground water to be withd | rawn from the aquifer |
| All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the following be industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscator square feet and wildlife. The water will be produced for immediate application to said uses, for storage and sul uses, for replacement of depletion's from the use of water from other sources and for all other augmentation pu | ial habitat less than 1000 Sequent application to said repotes |
| 7. PLACE OF USE — of the ground water shall be considered to be that overlying land area claimed and Item #8 below, unless a legal description or accurate scale map is provided which describes an alternat | e/additional place of use. |
| 8. REQUIRED LANDOWNERSHIP DOCUMENT ATION - The Ground Water Commission shall alloc Dawson, Deriver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying land. Fo Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim (description of the overlying land area subject to this determination, must be submitted as an attachment | or this reason, a Nontributary form GWS-48), including a to the application. |
| 9. SIGNATURE OF APPLICANT - must be original signature - The making of false statements herein | constitutes perjury in the |
| second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I hat herein, know the contents thereof, and state that they are true to my knowledge. | ve read the statements |
| signature George 7 Mc Cine + Evelynan mc Cine Date april; | 14,2008 |
| - print name and title George F. McCune and Evelyn McCune, Owners | |
| | Trans Number: 3628088 / |
| FOR OFFICE USE ONLY | 4/17/2006 1:34:24 PM Geoff Devis (21) Total Trans And: \$240.00 CHECK |
| DIV 8 CO WD BASIN MD | Check Number: (62724) Check Number: (62724) |



APR 1 7 2008

SAME CONTRACTOR

COLORADO WATER PLANS

Water Consultants

Colorado Ground Water Commission Division of Water Resources Department Of Natural Resources 1313 Sherman Street - Room 818 Denver, Colorado 80203

Re: Application for Determination of Water Right Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

| Client: | |
|--------------------------------|--------------------|
| By: Lang 7 mc Com + 7 | Evelyn mr. Inc ame |
| Ву: | _ |
| Date: 4-14-08 | |
| Colorado Water Plans LLC | |
| Craig L. Curl | |
| Dr. W. Jerry Koch | |
| Lisa S. Weinsteln, Bsq. #35688 | |
| By: | |

P.O. Box 1955 / Elizabeth / Colorado / 80107 Office: 303/646-3895 Fax: 303/646-9655

DETERMINATION OF WATER RIGHT SECTION 37-90-107(7)

APPLICANT:

George F. McCune and Evelyn McCune

BASIN: -

Kiowa-Bijou

COUNTY:

El Paso

AQUIFER:

Arapahoe

RECEIPT NO.

3628088B

NUMBER OF ACRES IN TRACT: 900.52 acres

GENERAL LOCATION: SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6th PM.

S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6th PM.

AQUIFER DATA

AMOUNT AVAILABLE FOR APPROPRIATION:

(260 feet SS)(900.52 Acres)(0.17 SY) = 39803 AF

398.0 AFyr

ADJUSTMENTS:

None

ANNUAL AMOUNT:

398.0 AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: N/A

OVERLAP AREA:

AREA CHECKED:

Sections 18, 19, and 30, T11S, R64W

Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: N/A

REPLACEMENT WATER STATUS OF CLAIMED LAND AREA:

Nontributary

REPLACEMENT PLAN REQUIRED:

Not Required

AQUIFER INTERVAL (CENTRAL DATA POINT):

1810 feet to 2310 feet below ground surface

COMMENTS: The SS was considered 260 feet based on the SS map for the Arapahoe aquifer.

Evaluated by: Justina Mickelson, Ground Water Commission Staff

Reviewed by CBG

1:24,000 50,000 25,000

DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088B

Applicant: George F. McCune and Evelyn McCune

Basin: Kiowa-Bijou GWMD:

Aquifer. Arapahoe

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W

Meridian: 6

Area claimed: 900.52 acres 897 acres measured Perimeter = 7,963 m

Legend

☐ Township

Section | Section |



This area not insid Designated Ground 0 100,000 15 1:100,000 50,000 9 McCune ÷ z<

DIVISION OF WATER RESOURCES STATE OF COLORADO

Applicant: George F. McCune and Evelyn McCune Basin: Kiowa-Bijou Receipt Number: 3628088B

GWMD:

Aquifer: Arapahoe

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

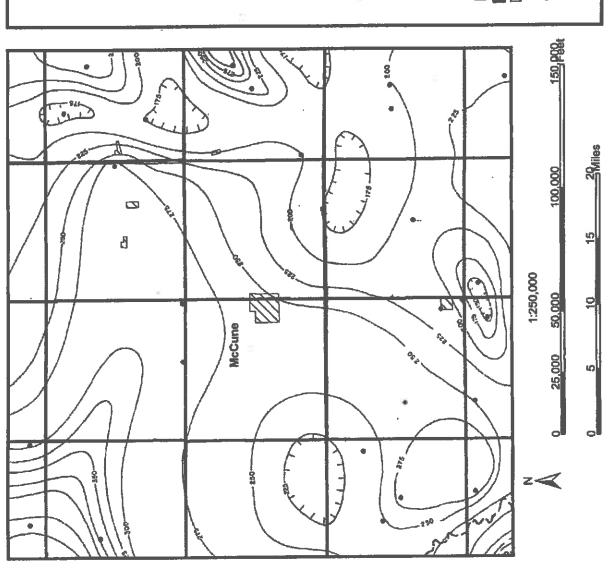
Area claimed: 900.52 acres 897.22 acres measured Perimeter = 7,963 m

Tributary Status NT

Legend

D jpm_work Township





DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088B
Applicant: George F. McCune
and Evelyn McCune
Basin: Kiowa-Bijou

Aquifer: Arapahoe

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W

Meridian: 6

Area claimed: 900.52 acres 897.22 acres measured Perimeter = 7,963 m

Saturated Sands

Legend

Township Township

Department of Natural Resources Office of the State Engineer Division of Water Resources



PUBLISHER'S AFFIDAVIT

COUNTY OF ELBERT

I, Susan Lister, do solemnly affirm that I m the Publisher of RANCHLAND NEWS; rat the same is a weekly newspaper pubshed at Simia, County of Elbert, State of clorado, and has a general circulation nereln; that said newspaper has been connuously and uninterruptedly published in said ounty of Elbert for a period of at least 52 onsecutive weeks next prior to the first pubcation of the annexed notice, that said newsaper is entered in the post office at Calhan, olorado as second class mail matter and that aid newspaper is a newspaper within the reaning of the Act of the General Assembly the State of Colorado, approved March 30, 923, and entitled "Legal Notices and Adversements," with other Acts relating to the printg and publishing of legal notices and adartisements. That the annexed notice was ablished in the regular and entire issue of ald newspaper, once each week for 1400 accessive weeks; that the first publication of aid notice was in the Issue of said newspaar dated:

May 8, 2008

nd the last publication of said notice was in a issue of said newspaper dated:

May 15, 2008

nd that copies of each number of said paper which said notice and/or list was published are delivered by carriers or transmitted by ail to each of the subscribers of said newsper, Ranchland News, according to the xusterned mode of busiques in this office.

Susan Frotes
Publisher

The above certificate of publication was ibscribed and affirmed to before me, a Nory Public, to be the identical person deribed in the above certificate, on the

day of 2008
Notary Public

y Notary Public Commission Expiration Date)

Determinations of Water

Right
BEFORE THE COLORADO GROUND
WATER COMMISSION

KIOWA-BLIOU DESIGNATED GROUND WATER BASIN- EL PASO COUNTY

TAKE NOTICE that pursuant to Section 37-90-107(7), C.R.S., George F. McCone and Evelyn McCane (haroinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Lammie-Fox Hills, Ampahos, Denver, and Dawson aquifors underlying 900.52 some generally described as the SW1/4 of the SW1/4, Section 14, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 15 and all of Section 24, Township 11 South, Range 65 West of the 6" PM. licent chiese dwienship of this land and control of the ground water in the above describ aquifers under this property. The ground water allocations from these aquifers will be used on the described property for the fallowing beneficial mes: domestic, industrial, commercial, irriga sugmentation, stock watering: recreational w sture ponds and piscutorial habitat loss than 1000 square feet and wildlife, replacement and all other augmentation purposes. The testimum allowable amount amount of ground water in each aquifer underlying the described property will be allocated'

in accordance with Section 37-90-107(7), C.R.S., and the Designated Bosin Rules, 2 CCR 410-1, the Colorado Ground Water Commission shall allocate ground water from the above-described. aquifus based on ownership of the overlying land and an aquifor life of one hundred years. A preliminary evaluation of the applications by the Commission Staff-finds the annual amount of water available, for allocation from each of the described squifers underlying the abovedescribed property to be as follows: 263.4 acrofeet for the Larence-Fox Hills, 398.0 acre-feet for the Arapahoe, 528.2 acre-feet for the Denver. and 819.5 for the Detriton subject to final staff evaluation. The estimated available annual acro-feet allocation amount for each, aquifte indicated above may be increased or decreased by the Commission to conform to the actual aquifer characteristics, bused upon site specific data.

In accordance with Rule 5.3.6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement status for the above aquiferi underlying the above described property to be as follows: nontributary for the Laramie-Fox Hills, nontributary for the Arapaboe, nontributary for the Desver, and not-mountibutary (actual impact replacement) for the Device.

Davison.

Upon Commission approval of, these determinations of water right, well permits for wells to withdraw the allowed allocation from a specific aquifier shall be available upon application, subject to the conditions of the determination and the Designated Basin Rules and subject to approved by the Commission. Such wells must be completed in the specified aquifer and located on the above described 900.52 acre property. Well paralist for wells to withdraw ground water from the Davison aquifer would also be achieve to the conditions of a replacement plan to be approved by the Commission.

Any person wishing to object to the approval of these determinations of water right must do so in writing, briefly stating the name of the objection and indicating the above applicant, property description and the specific equifiers that are the subject of the objection. The objection must be accompanied by, a \$10 per aquifier for and must be received by the Commission Staff, Colorado (Ground Water Commission, \$18 Centennial Bullding, 1313 Sherman Street, Deuver, Colorado (\$0203, by June 16, 2008.

First Publication May 8, 2008
Final Publication May 15, 2008
in Ranchland News
Lagal No. 12,936

RECEIVED

MAY 1 9 2008

WATER PROJURCES



DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

June 27, 2008

Bill Ritter, Jr. Governor

Harris D. Sherman , Executive Director

Dick Wolfe, P.E.

George F. and Evelyn McCune 17480 Meridian Road Elbert, CO 80106-8916

RE: Determination of Water Right

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1690-BD, for the allocation of ground water in the Arapahoe aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county – in which the overlying land is located – so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

Sincerely.

Justina P. Mickelson

Physical Science Researcher Scientist

Jutus P.Micso

Designated Basins Branch

Enclosures: a/s

Colorado Department of Natural Resources

Colorado.gov | Contact Us

to acteivid olegacied

Colorado's Well Permit Search

THIS PAGE IS NOT THE ACTUAL PERMIT

The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. (full biodismet) Last Refresh: 12/6/2016 12:03:01 AM Permit Issued; Completion Status Unknown Division: 3628088C 1 Water District: 1691-BD -Permit #: Well Name / #: County: EL PASO **Management District:** Designated Basin: KIOWA-BIJOU Case Number: [-] Imaged Documents - Permit File **Date Imaged Annotated Document Name** Findings & Order for Determination 05/21/2009 [-] Applicant/Contact City/State/Zip **Mailing Address Applicant/Contact Name** ELBERT, CO 80106-8916 17480 MERIDIAN RD MCCUNE GEORGE F & EVELYN [-] Location Information **Approved Well Location: Footage from Section Lines** Q40 Q160 Section Township Range PM 11.0S 65.0W Sixth Easting (UTM x): 533176.3 4325550.5 Northing (UTM y): Location Accuracy: Spotted from quarters **Subdivision Name** Filing Block Lot Acres in Tract: 900.52 Parcel ID: [-] Permit Details Date Issued: 06/25/2008 **Date Expires:** Uses (See Imaged Documents for more Infomation) Aquifer(s): DENVER General Use(s): COMMERCIAL DOMESTIC Special Use: Area which may be irrigated: Annual volume of appropriation: Cross Reference Permit(s): Permit Number Comments: DETER ISSUED [-] Construction/Usage Details **Pump Installation Date: Well Construction Date:** 1st Beneficial Use: Well Plugged: Elevation Depth Perforated Casing (Top) Perforated Casing (Bottom) Static Water Level Pump Rate [-] Application/Permit History 06/25/2008 Permit Issued 04/17/2008 Application Received

Disclaimer

*The information contained on this page is a summary of the permit file and may not reflect all details of the well permit. THIS PAGE IS NOT THE ACTUAL PERMIT.

This page should not be used as a basis for any legal consideration, to determine the allowed uses of the well, to determine construction information, or to determine the terms and conditions under which the well can operate. The complete well permit file should be viewed to obtain details on the allowed uses and other relevant information. A complete copy of this file is available in the "Imaged Documents" section of this page, and can be viewed by opening all of the documents listed under that section (documents will open as pdf files).

Note that all of the terms and conditions under which a well can operate, particularly for non-exempt wells, may not be specified on the well permit. Wells may also be subject to relevant statutes, rules and decrees. To learn

State of Colorado Water Resources - View Well Details: Receipt 3628088C Page 2 of 2

more about well permitting in Colorado, please visit <u>DWR's Well Permitting Page</u>. If you have any questions about this well permit file, please contact the <u>DWR Ground Water Information Desk</u>.

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COLORADO GROUND WATER COMMISSION FINDINGS AND ORDER

IN THE MATTER OF AN APPLICATION FOR DETERMINATION OF WATER RIGHT TO ALLOW THE WITHDRAWAL OF GROUND WATER IN THE KIOWA-BIJOU DESIGNATED GROUND WATER BASIN

APPLICANT: GEORGE F. MCCUNE AND EVELYN MCCUNE

AQUIFER: [

R: DENVER

DETERMINATION NO.:

1691-BD



In compliance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, 2 CCR 410-1, George F. McCune and Evelyn McCune (hereinafter "applicant") submitted an application for determination of water right to allow the withdrawal of designated ground water from the Denver Aquifer.

FINDINGS

- The application was received complete by the Colorado Ground Water Commission on April 17, 2008.
- 2. The applicant requests a determination of rights to designated ground water in the Denver Aquifer (hereinafter "aquifer") underlying 900.52 acres, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, in El Paso County. According to a signed statement dated April 17, 2008, the applicant owns the 900.52 acres of land, as further described in said affidavit which is attached hereto as Exhibit A, and claims control of the ground water in the aquifer underlying this land area.
- 3. The proposed annual amount of ground water to be allocated and withdrawn from the aquifer for intended beneficial uses is the maximum allowable amount.
- 4. The above described land area overlying the ground water claimed by the applicant is located within the boundaries of the Kiowa-Bijou Designated Ground Water Basin. The Colorado Ground Water Commission (hereinafter "Commission") has jurisdiction.
- 5. The applicant intends to apply the allocated ground water to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The applicant's proposed place of use of the allocated ground water is the above described 900.52 acre land area.
- 6. The quantity of water in the aquifer underlying the 900.52 acres of land claimed by the applicant is 52800 acre-feet. This determination was based on the following as specified in the Designated Basin Rules:

Applicant: George F. McCune and Evelyn McCune

Aquifer: Denver

Determination No.: 1691-BD

a. The average specific yield of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 17 percent.

- b. The average thickness of the saturated permeable material of the aquifer underlying the land under consideration that could yield a sufficient quantity of water that may be extracted and applied to beneficial use is 345 feet.
- 7. At this time, there is no substantial artificial recharge that would affect the aquifer within a one hundred year period.
- 8. Pursuant to Section 37-90-107(7), C.R.S., and in accordance with the Designated Basin Rules, the Commission shall allocate ground water in the aquifer based on ownership of the overlying land and an aquifer life of one hundred years. Therefore, the maximum allowed average annual amount of ground water in the aquifer that may be allocated for withdrawal pursuant to the data in the paragraphs above for the 900.52 acres of overlying land claimed by the applicant is 528 acre-feet.
- A review of the records in the Office of the State Engineer has disclosed that none of the water in the aquifer underlying the land claimed by the applicant has been previously allocated or permitted for withdrawal.
- 10. Pursuant to Section 37-90-107(7)(c)(III), C.R.S., an approved determination of water right shall be considered a final determination of the amount of ground water so determined; except that the Commission shall retain jurisdiction for subsequent adjustment of such amount to conform to the actual local aquifer characteristics from adequate information obtained from well drilling or test holes.
- 11. The ability of wells permitted to withdraw the authorized amount of water from this non-renewable aquifer may be less than the one hundred years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.
- 12. In accordance with Rule 5.3.6 of the Designated Basin Rules, it has been determined that withdrawal of ground water from the aquifer underlying the land claimed by the applicant will not, within one hundred years, deplete the flow of a natural steam or its alluvial aquifer at an annual rate greater than one-tenth of one percent of the annual rate of withdrawal and, therefore, the ground water is nontributary ground water as defined in Rule 4.2.19 of the Designated Basin Rules. No more than 98% of the amount of ground water withdrawn annually shall be consumed, as required by the Designated Basin Rules.
- 13. In accordance with Section 37-90-107(7), C.R.S., upon Commission approval of a determination of water right, well permits for wells to withdraw the authorized amount of water from the aquifer shall be available upon application, subject to the conditions of this determination and the Designated Basin Rules and subject to approval by the Commission.
- 14. The Commission Staff has evaluated the application relying on the claims to control of the ground water in the aquifer made by the applicant.

Page 2

Applicant: George F. McCune and Evelyn McCune

Aquifer: Denver

Determination No.: 1691-BD

15. In accordance with Sections 37-90-107(7) and 37-90-112, C.R.S., the application was published in the Ranchland News newspaper on May 8 and May 15, 2008.

Page 3

- 16. No objections to the determination of water right and proposed allocation of ground water were received within the time limit set by statute.
- 17. In order to prevent unreasonable impairment to the existing water rights of others within the Kiowa-Bijou Designated Ground Water Basin it is necessary to impose conditions on the determination of water right and proposed allocation of ground water. Under conditions as stated in the following Order, no unreasonable impairment of existing water rights will occur from approval of this determination of water right or from the issuance of well permits for wells to withdraw the authorized amount of allocated ground water from the aguifer.

ORDER

In accordance with Section 37-90-107(7), C.R.S., and the Designated Basin Rules, the Colorado Ground Water Commission orders that the application for determination of rights to designated ground water in the Denver Aquifer underlying 900.52 acres of land, generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the NW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th PM and the S1/2 of the SE1/4, Section 13 and all of Section 24, Township 11 South, Range 65 West of the 6th Principal Meridian, is approved subject to the following conditions:

- 18. The allowed average annual amount of withdrawal of ground water from the aquifer shall not exceed 528 acre-feet. The allowed maximum annual amount of withdrawal may exceed the allowed average annual amount of withdrawal as long as the total volume of water withdrawn does not exceed the product of the number of years since the date of approval of this determination times the allowed average annual amount of withdrawal.
- 19. To conform to actual aquifer characteristics, the Commission may adjust the allowed average annual amount of ground water to be withdrawn from the aquifer based on analysis of geophysical logs or other site-specific data if such analysis indicates that the initial estimate of the volume of water in the aquifer was incorrect.
- 20. The applicant may pump the allowed average annual amount of withdrawal and the allowed maximum annual amount of withdrawal from one or more wells of a well field in any combination, so long as the total combined withdrawal of the wells does not exceed the amounts described in this Order.
- 21. No more than 98% of the ground water withdrawn annually shall be consumed. The Commission may require well owners to demonstrate periodically that no more than 98% of the water withdrawn is being consumed.
- 22. The use of ground water from this allocation shall be limited to the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature ponds and piscatorial habitat less than 1000 square feet and wildlife, replacement and all other augmentation purposes. The place of use shall be limited to the above described 900.52 acre land area.

Applicant: George F. McCune and Evelyn McCune

Aquifer: Denver

Determination No.: 1691-BD

Page 4

- 23. The applicant, or subsequent persons controlling this water right, shall record in the public records of the county in which the claimed overlying land is located notice of transfer of any portion of this water right to another within sixty days after the transfer, so that a title examination of the above described 900.52 acre land area, or any part thereof, shall reveal the changes affecting this water right. Such notice shall consist of a signed and dated deed which indicates the determination number, the aquifer, a description of the above described land area, the annual amount of ground water (acre-feet) transferred, name of the recipient, and the date of transfer.
- 24. Subject to the above conditions, well permits for wells to withdraw the allocated annual amount of water from the aquifer shall be available upon application subject to approval by the Commission and the following conditions:
 - a. The wells shall be located on the above described 900.52 acre overlying land area.
 - b. The wells must be constructed to withdraw water from only the Denver Aquifer. Upon application for a well permit to construct such a well, the estimated top and base of the aquifer at the proposed well location will be determined by the Commission and indicated on the approved well permit. Plain non-perforated casing must be installed, grouted and sealed to prevent diversion of ground water from other aquifers and the movement of ground water between aquifers.
 - c. The entire depth of each well must be geophysically logged <u>prior</u> to installing the casing as set forth in Rule 9 of the Statewide Nontributary Ground Water Rules, 2 CCR 402-7.
 - d. Each well shall be constructed within 200 feet of the location specified on the approved well permit, but must be more than 600 feet from any existing large-capacity well completed in the same aquifer.
 - e. A totalizing flow meter or other Commission approved measuring device shall be installed on each well and maintained in good working order by the well owner. Annual diversion records shall be collected and maintained by the well owner and submitted to the Commission upon their request.
 - f. The well owner shall mark the well in a conspicuous place with the permit number and the name of the aquifer. The well owner shall take necessary means and precautions to preserve these markings.
- 25. A copy of this Findings and Order shall be recorded by the applicant in the public records of the county in which the claimed overlying land is located so that a title examination of the above described 900.52 acre overlying land area, or any part thereof, shall reveal the existence of this determination.

Applicant: George F. McCune and Evelyn McCune

Aquifer: Denver

Determination No.: 1691-BD

Page 5

Dated this . 25 12 day of June

Dick Wolfe, P.E

Executive Director

Colorado Ground Water Commission

Keith Vander Horst, P.E.

Water Resource Engineer

Prepared by: JPM

92GWS 1 03/2005

EXHIBIT A

1691-BD

Page 1 of 2

STATE OF COLORADO
OFFICE OF THE STATE ENGINEER
DIVISION OF WATER RESOURCES
1313 Sherman St. Room 821
Denver, CO 80203
(303) 866-3581 Fax (303) 866-3589

RECEIVED

APR 1 7 2008

STATE COLONIES

NONTRIBUTARY GROUND WATER LANDOWNERSHIP STATEMENT

| I (We) George F. McCune and Evelyn McCune (Name(s)) | |
|--|---------------------------------------|
| claim and say that I (we) am (are) the owner(s) of the followance of the County of Figure 1 Paso State of Colorado: | ving described property consisting of |
| (Insert the property legal description) | |
| SW/4SW/4 Section 18 and W/2 of the W/2 Section1 | |
| and All of Section 24, T11S R65W, 6 th PM, El Paso | County, 900.52 acres |
| See attached Quitclaim Deed dated November 29, | 1976, and map. |
| and, that the ground water sought to be withdrawn from the aquifer underlying the above-described land has not been consent been given to its withdrawal by another. | |
| Further, I (we) claim and say that I (we) have read the state hereof; and that the same are true to my (our) knowledge. | ments made herein; know the contents |
| Y. | ogl 4 mc Cone Date |
| Signature | Date |
| Signature Signature | yn M. Mc ("Line") Date |
| INSTRUCTIONS: | ************************************ |

Please type or print neatly in black or blue ink. This form may be reproduced by photocopy or word processing means. See additional information on the reverse side.

EXHIBIT A 1691-BD Page 2 of 2 CUTTELAIM DEED BOOK COPY Available APR 1 7 2008 RAY C. McCUNE and GRETA C. McCUNE, as husband and wife, of the County

WAYER RESOURCES

Of El Paso and State of Colorado, for the consideration of One Dollar (\$1.00) and other COLO good and valuable consideration, in hand paid, hereby sell and quit claim to GEORGE F. McCLINE and EVELYN M. McCUNE, husband and wife, in joint tenancy, of the County of Elbert and State of Colorado, a ane-half interest in and to all minerals underlying the following described property, including oil and gas, said property lying and being in the County of El Pano and State of Colorado, to wit: The Southwest quarter of the Southwest quarter of Section Eighteen, Township Eleven, Range Shiry-fair; the West half of the West half of Section Nineteen, Township Eleven, Range Shiry-fair; the South half of the Southeast Quarter of Section Thirteen, Township Eleven, Range Shiry-five; All of Section Twenty-fair, Township Eleven, Range Shiry-five, continuing in all Nine hundred and filty-time hundredths (900:52) acres, more or less, according to Government Serious. DATED and signed this 22 day of Nov. Consideration NOV 2 9 1928 STATE OF COLORADO.) COUNTY OF EL PASO The foregoing instrument was admouledged before on this 22.

COLORADO GROUND WATER COMMISSION DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 Sherman St, Room 818, Denver, CO 80203

BECEIVED

APR 1 7 2008

WATER RESOURCES STATE ENGINEER COLO.

APPLICATION FOR DETERMINATION OF WATER RIGHT WITHIN A DESIGNATED GROUND WATER BASIN PURSUANT TO SECTION 37-90-107(7), C.R.S.

Please note: This application may only be used to apply for a determination of rights to ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer underlying land areas located within a Designated Ground Water Basin. Review the instructions on the reverse of this form. This form must be completed, signed, dated and submitted to the Ground Water Commission with a non-refundable \$60 filing fee. A separate form must be used for each aquifer determination. Type or print in black ink.

| Type or pant at become | |
|---|---|
| 1. APPLICANT INFORMATION Name of Applicant | |
| George F. McCune and Evelvn McCune | |
| Applicant Mailing Address | |
| | |
| 17480 Meridian Road, Elbert, CO 80106-8916 c/o Colorado Water Plans, P O Box 1956, Elbert, CO 80106 | |
| Applicant Telephone Number (Include area code) | |
| -303 648-9090- Contact 303 646-4201 719- 495-2562 | |
| AMOUNT OF OVERLYING LAND – the total and area claimed and described by the applicant in Item #8 below, consisting of 900.52 acres. 3. AQUIFER Denver NT | |
| 4. EXISTING WELLS — Are there any wells located on the claimed and described overlying land? Yes No _X If yes, provide a complete list of all wells located on the overlying land area as an attachment to this application. | |
| 5. ANNUAL AMOUNT OF GROUND WATER — to be withdrawn, for intended beneficial uses, from the aquifer underlying the described land area claimed by the applicant in Item #8 below. Please specify one of the following: | |
| Maximum allowable annual acre-feet annually Maximum allowable annual acre-feet, excluding acre-feet from that amount | 9 |
| 6. USE OF GROUND WATER - description of intended beneficial uses of the ground water to be withdrawn from the aquifer | _ |
| All water withdrawn will be reused, successively used, leased, sold or otherwise disposed of for the following beneficial uses: domestic, industrial, commercial, irrigation, augmentation, stock watering, recreational water feature pends and piscatorial habitat less than 1000 square feet and wildlife. The water will be produced for immediate application to said uses, for storage and subsequent application to said uses, for replacement of depletion's from the use of water from other sources and for all other augmentation purposes | |
| 7. PLACE OF USE — of the ground water shall be considered to be that overlying land area claimed and described by the applicant in item #8 below, unless a legal description or accurate scale map is provided which describes an alternate/additional place of use. | |
| 8. REQUIRED LANDOWNERSHIP DOCUMENTATION - The Ground Water Commission shall allocate ground water from the Dawson, Denver, Arapahoe or Laramie-Fox Hills aquifer on the basis of ownership of overlying land. For this reason, a Nontributary Ground Water Landownership Statement (form GWS-1) or Nontributary Ground Water Consent Claim (form GWS-48), including a description of the overlying land area subject to this determination, must be submitted as an attachment to the application. | |
| 9. SIGNATURE OF APPLICANT - must be original signature - The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104(13)(a). I have read the statements | |
| herein, know the contents thereof, and state that they are true to my knowledge | |
| Signature George 7 Mc Cure Date | |
| Euclim In Mo Cury | |
| - print name and title George F. McCune and Evelyn McCune, Owners | - |
| Terror N | |
| Anthonis 1242 File | |
| FOR OFFICE USE ONLY Geoff Davis (21) Total Trans Amt: \$240.00 CHECK | |
| DIV 8 CO WD BASIN MD Check Number: 8724 | 0 |

APR 1 7 200



STATE COLOR

COLORADO WATER PLANS

Water Consultants

Colorado Ground Water Commission Division of Water Resources Department Of Natural Resources 1313 Sherman Street - Room 818 Denver, Colorado 80203

Re: Application for Determination of Water Right Client: George F. McCune and Evelyn McCune

Agent: Colorado Water Plans LLC

Colorado Water Plans LLC has prepared the Application for Determination of Water Right with my permission as Signatory and Landowner. Colorado Water Plans LLC shall have full representational power as "Agent" in regards to this Application for Determination of Water Right, water issues, water facts, water calculations, submittals to governmental agencies, reporting forms, newspaper public notifications, applications, or any other needs within the confines of the Contract for Services. This document shall authorize my "Agent" Colorado Water Plans LLC to manage and conduct all affairs and to exercise all my rights and powers within the enclosed Application for Determination of Water Right.

Colorado Water Plans has no rights, implied or warranted outside the affairs of this agreement, and subject to other provisions of this document, disclaim any interest which might otherwise be transferred or distributed to me from other person or entity.

| Client: | |
|---------------------------------|-------------------|
| By: Deag 7 Mc Come + & | selyn gn, Ing ame |
| Ву: | • |
| Date: 4-14-08 | |
| Colorado Water Plans LLC | |
| Craig L. Curl | |
| Dr. W. Jerry Koch | |
| Lisa S. Weinstelft, Dsq. #35688 | |
| Rv. Carlotte | |

P.O. Box 1955 / Elizabeth / Colorado / 80107 Office: 303/646-3895 Fax: 303/646-9655

DETERMINATION OF WATER RIGHT SECTION 37-90-107(7)

APPLICANT:

George F. McCune and Evelyn McCune

BASIN:

Kiowa-Bijou

COUNTY:

El Paso

AQUIFER:

Denver

RECEIPT NO.

3628088C

NUMBER OF ACRES IN TRACT: 900.52 acres

GENERAL LOCATION: SW/4SW/4, Section 18 and W/2NW/4, W/2SW/4, Section 19, T11S, R64W, 6th PM,

S/2SE/4, Section 13 and All of Section 24, T11S, R65W, 6th PM.

AQUIFER DATA

AMOUNT AVAILABLE FOR APPROPRIATION:

(345 feet SS)(900.52 Acres)(0.17 SY) = 52816 AF

528.2 AFyr

ADJUSTMENTS:

None

ANNUAL AMOUNT:

528.2 AFyr

PRE.NOV.19, 1973 WELLS (COMPLETED IN AQUIFER) IN VICINITY: N/A

OVERLAP AREA:

N/A

AREA CHECKED:

Sections 18, 19, and 30, T11S, R64W

Sections 13, 14, 23, 24, 25, and 26, T11S, R65W

SMALL-CAPACITY WELLS (COMPLETED IN AQUIFER) LOCATED ON CLAIMED TRACT: N/A

REPLACEMENT WATER STATUS OF CLAIMED LAND AREA:

Nontributary

REPLACEMENT PLAN REQUIRED:

Not Required

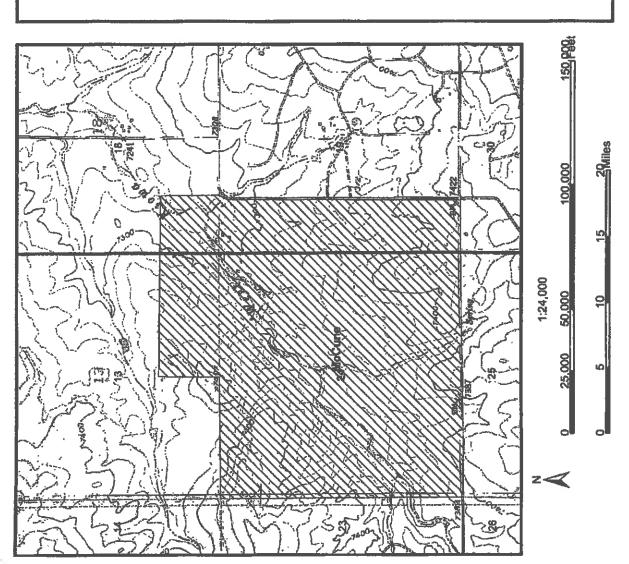
AQUIFER INTERVAL (CENTRAL DATA POINT):

970 feet to 1770 feet below ground surface

COMMENTS: The SS was considered 345 feet based on the SS map for the Denver aquifer.

Evaluated by: Justina Mickelson, Ground Water Commission Staff

Reviewed by C86



DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088C
Applicant: George F. McCune
and Evelyn McCune
Basin: Kiowa-Bijou

Aquifer: Denver GWMD:

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

Area claimed: 900.52 acres 897 acres measured Perimeter = 7,963 m

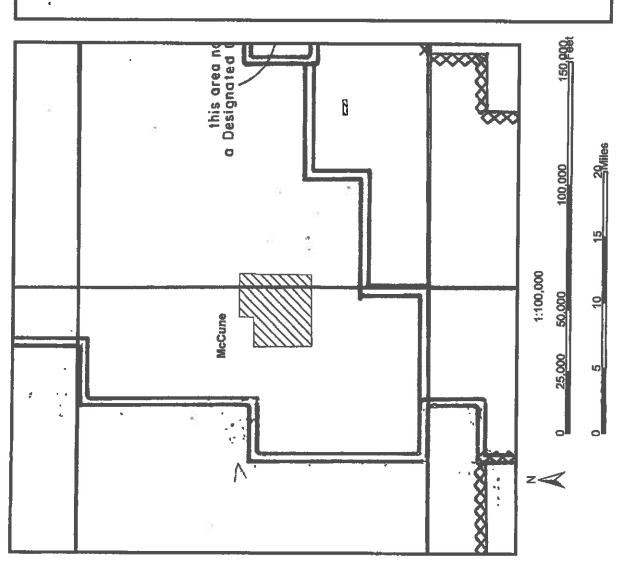
Legend

Township Section

D jpm_work

Office of the State Engineer
Division of Water Resources
Department of Natural Resources





DIVISION OF WATER RESOURCES STATE OF COLORADO

Applicant: George F. McCune and Evelyn McCune Basin: Kiowa-Bijou Receipt Number: 3628088C

GWMD:

Aquifer: Denver

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W Meridian: 6

Area claimed: 900.52 acres 897.22 acres measured

Perimeter = 7,963 m

Tributary Status NT

Legend

[Z] jpm_work ☐ Township

Department of Natural Resources Office of the State Engineer Division of Water Resources



150 PSQ1 32 8. 1:250,000 50,000 0 MCCUA 25,000 S 1000

DIVISION OF WATER RESOURCES STATE OF COLORADO

Receipt Number: 3628088C Applicant: George F. McCune and Evelyn McCune

Basin: Klowa-Bijou

GWMD:

Aquifer: Denver

Sections: 13 and 24, T11S, R65W Sections: 18 and 19, T11S, R64W

Meridian: 6

Area claimed: 900.52 acres

897.22 acres measured Perimeter = 7,963 m

Saturated Sands

Legend

[2] jpm_work Township

Office of the State Engineer
Division of Water Resources
Department of Natural Resources



PUBLISHER'S AFFIDAVIT

COUNTY OF ELBERT

I, Susan Lister, do solemnly affirm that I m the Publisher of RANCHLAND NEWS: lat the same is a weekly newspaper pubshed at Simla, County of Elbert, State of clorado, and has a general circulation rerein; that said newspaper has been connuously and uninterruptedly published in said ounty of Elbert for a period of at least 52 onsecutive weeks next prior to the first pubcation of the annexed notice, that said newsaper is entered in the post office at Calhan, olorado as second class mall matter and that aid newspaper is a newspaper within the leaning of the Act of the General Assembly I the State of Colorado, approved March 30. 923, and entitled "Legal Notices and Adversements," with other Acts relating to the printg and publishing of legal notices and adartisements. That the annexed notice was ablished in the regular and entire issue of aid newspaper, once each week for two accessive weeks; that the first publication of aid notice was in the issue of said newspaer dated:

May 8, 2008

nd the last publication of said notice was in e issue of said, newspaper dated;

May 15 2008

nd that copies of each number of said paper which said notice and/or list was published ere delivered by carriers or transmitted by all to each of the subscribers of said newsper, Ranchland News, according to the sustepned mode of business in this office.

Susan Rister

The above certificate of publication was bscribed and affirmed to before me, a Nory Public, to be the identical person deribed in the above certificate, on the

day of 2008
Notary Public

y Notary Public Commission Expiration Date)

Determinations of Water Right

BEFORE THE COLORADO GROUND WATER COMMISSION

WATER COMMISSION
WATER BASIN- EL PASO COÚNTY,

TAKR NOTICE that purasent to Section 37-90-107(7), C.R.S., George F. McCume and Evelya McCume (hereinafter "applicant") have applied for determinations of water right to allow the withdrawal of designated ground water from the Lummie-Feat Hills, Arapalme, Denver, and Dawacii squifers miderlying 900.52 acres generally described as the SW1/4 of the SW1/4, Section 18, the W1/2 of the SW1/4 and the W1/2 of the SW1/4, Section 19, Township 11 South, Range 64 West of the 6th FM and the 51/2 of the SB1/4, Section 19 such all of Section 24, Township 11 South, Range 65 West of the 6th PM. The applicant chains ownership of this land and control of the ground water in the above described applican takes this property. The ground water allocations from these aquifers will be used on the described property for the following beneficial uses: decreated, industrial, commercial, irrigation, segmentation, stock watering, recreational water feature pendic and pisemerial labelet less than 1600 aquere foot and wildlife, replacement and all other augmentation purposes. The accrimentallocated.

In accordance with Section 37-90-107(7), C.R.s. and the Designated Busin Rules, 2 CCR 410-1, the Columno Ground Water Commission shall allocate ground water from the above-described aquifers based on ownership of the overlying land and an aquifer life of one hundred years. A periminary evaluation of the applications by the Commission Staff-finds the annual emount of water available, for allocation from each of the described aquifers underlying the above-described apoperty to be as follows: 263.4 acrafts: the Laramie-Fox Hills, 398.0 acrafts for the Arapshos, 528.2 acra-fact for the Denver, and 819.5 for the Denver, and 819.5 for the Denver subject to final staff verbinated. The estimated available, annual acra-fact, allocation mounts for each squifer indicated above may be increased or decreased by the Commission to conform to the actual aquifer characteristics, based upon site apositio date.

In accordance with Rule 5.3,6 of the Designated Basin Rules, the Commission Staff's preliminary evaluation of the applications finds the replacement water requirement gates for the above aquifers underlying the above-described property to be as follows: houterbutery for the Learnie-Pos Hills, nounflutery for the Aragaboe, nourisbutery for the Denver, and actangularly (actual impact replacement) for the Dawson.

Upon Commission approval of these determinations of water right, well permits for wells to wishdraw the allowed allocation from a specificaquifer shall be available upon application, subject to the conditions of the determination and the Designated Basin Ruise and subject to approval by the Commission. Such wells areas be completed in the specified aquifer and located on the above described 900.52 acre property. Well permits for wells to withdraw ground water from the Dawson aquifer would also be subject to the conditions of a replacement plan to be approved by the Commission.

Any person wishing to object to the approval of these determinations of water right must do so in writing, briefly stating the astone of the objection and indicating the above applicant, property description and the specific aquifers that are the subject of the objection. The objection must be accompanied by a \$10 per aquifer fee and must be received by the Commission Staff, Colorado Ground Water Commission, \$18 Centernial Building, 1313 Sheiman Street, Denver, Colorado 30203, by June 16, 2008.

First Publication May 8, 2008 Final Publication May 15, 2008 Final Publication May 15, 2008 In Ranchland News Legal No. 12,936 RECEIVED

MAY 1 9 2008

WATER COORDINACES



DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

June 27, 2008

Bill Ritter, Jr. Governor

Harris D. Sherman Executive Director

Dick Wolfe, P.E.

George F. and Evelyn McCune 17480 Meridian Road Elbert, CO 80106-8916

RE: Determination of Water Right

Dear Mr. and Mrs. McCune:

Enclosed is a copy of the Colorado Ground Water Commission's Findings and Order for Determination of Water Right No. 1691-BD, for the allocation of ground water in the Denver aquifer. This Findings and Order is the Commission's approval of your application for determination of right to ground water in the above stated aquifer. This document contains important information about your water right and should be reviewed and retained for your records.

As indicated in the Order, a copy of this determination must be recorded by the applicant in the public records of the county — in which the overlying land is located — so that a title examination of the overlying land claimed in the application, or any part thereof, shall reveal this determination. An additional copy of the Findings and Order is enclosed for this purpose.

If you have any questions, please contact this office.

Sincerely,

Justina P. Mickelson

Physical Science Researcher Scientist

Julio P.Midalo

Designated Basins Branch

Enclosures: a/s

APPENDIX D

WELL PERMITS





Form No. **GWS-25**

OFFICE OF THE STATE ENGINEER COLORADO DIVISION OF WATER RESOURCES 818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

(303) 866-3581

| | LIC |
|--|-----|
| | |
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| | |
| | |

| ΔP | PΙ | IC.A | TN |
|----|----|------|----|

WELL PERMIT NUMBER 77785 -F DIV. 2 WD 10 DES. BASIN MD

EL PASO COUNTY

MORLEY-BENTLEY INVESTMENTS LLC 20 BOULDER CRESCENT ST

NE 1/4 NW 1/4 Section 27 Township 12 S Range 65 W Sixth P.M.

UTM COORDINATES (Meters, Zone: 13, NAD83)

DISTANCES FROM SECTION LINES

324 Ft. from North Section Line 2632 Ft. from West

APPROVED WELL LOCATION

Section Line

(719) 491-3024

PERMIT TO CONSTRUCT A WELL

Easting: Northing: ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has 2) been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- Approved pursuant to CRS 37-90-137(4) and the decree granted in case no. 86CW19 Division 2 Water Court. The operation of this well is 3) subject to the terms and conditions of said decree.
- 4) The use of ground water from this well is limited to municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, augmentation, livestock watering and agricultural uses.
- The pumping rate of this well shall not exceed 150 GPM. 5)

COLORADO SPRINGS, CO 80903-

- 6) The average annual amount of ground water to be appropriated shall not exceed 539 acre-feet.
- 7) Production is limited to the Laramie-Fox Hills aquifer which is located 2,345 feet below land surface and extends to a depth of 2,630 feet. Plain casing must be installed and grouted to prevent the withdrawal of ground water from other aquifers and the movement of ground water between aquifers
- The entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules prior to 8) installing casing.
- 9) The owner shall mark the well in a conspicuous place with well permit number(s), name of the aquifer, and court case number(s) as appropriate. The owner shall take necessary means and precautions to preserve these markings.
- A totalizing flow meter must be installed on this well and maintained in good working order. Permanent records of all diversions must be 10) maintained by the well owner (recorded at least annually) and submitted to the Division Engineer upon request.
- This well shall be constructed at least 600 feet from any existing well, completed in the same aquifer, that is not owned by the applicant. 11)
- 12) This well shall be constructed not more than 200 feet from the location specified on this permit.
- Pursuant to CRS 37-90-137(9)(b) and the Denver Basin Rules, no more than 98% of the nontributary ground water withdrawn annually shall 13) be consumed and the well owner shall demonstrate to the reasonable satisfaction of the State Engineer that no more than 98% of the water withdrawn will be consumed.
- 14) This well is subject to administration by the Division Engineer in accordance with applicable decrees, statutes, rules, and regulations. NOTE: The ability of this well to withdraw its authorized amount of water from this non-renewable aquifer may be less than the 100 years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.

NOTE: To ensure a maximum productive life of this well, perforated casing should be set through the entire producing interval of the approved zone or aquifer indicated above.

NOTE: This permit will expire on the expiration date unless the well is constructed and a pump is installed by that date. A Well Construction and Test Report (GWS-31) and Pump Installation and Test Report (GWS-32) must be submitted to the Division of Water Resources to verify the well has been constructed and the pump has been installed. A one-time extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: http://www.water.state.co.us

APPROVED

Receipt No. 3662756

IDC

State Engineer

DATE ISSUED 12-19-2013 Du aui Cil

EXPIRATION DATE

12-19-2014

Form No. **GWS-25**

OFFICE OF THE STATE ENGINEER COLORADO DIVISION OF WATER RESOURCES 818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203

(303) 866-3581

LIC

| WELL! | PERMIT NUMBER | 77786 | <u>-F -</u> | |
|-------|---------------|------------|-------------|--|
| DIV. | 2 WD 10 | DES. BASIN | MD | |

APPLICANT

APPROVED WELL LOCATION

EL PASO COUNTY

NE 1/4 NW 1/4 Section 27

Township 12 S Range 65 W Sixth P.M.

DISTANCES FROM SECTION LINES

304 Ft. from North

Section Line Section Line

2632 Ft. from West

(719) 491-3024

PERMIT TO CONSTRUCT A WELL

20 BOULDER CRESCENT ST

COLORADO SPRINGS, CO 80903-

MORLEY-BENTLEY INVESTMENTS LLC

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting:

Northing:

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has 2) been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- Approved pursuant to CRS 37-90-137(4) and the decree granted in case no. 86CW18 Division 2 Water Court. The operation of this well is 3) subject to the terms and conditions of said decree.
- 4) The use of ground water from this well is limited to municipal, domestic, commercial, fire protection, industrial, residential, recreation, irrigation, augmentation, livestock watering and agricultural uses.
- 5) The pumping rate of this well shall not exceed 150 GPM.
- 6) The average annual amount of ground water to be appropriated shall not exceed 575 acre-feet.
- 7) Production is limited to the Arapahoe aquifer which is located 1,585 feet below land surface and extends to a depth of 2,070 feet. Plain casing must be installed and grouted to prevent the withdrawal of ground water from other aquifers and the movement of ground water between aquifers
- 8) The entire length of the hole shall be geophysically logged as required by Rule 9 of the Statewide Nontributary Ground Water Rules prior to installing casing.
- 9) The owner shall mark the well in a conspicuous place with well permit number(s), name of the aquifer, and court case number(s) as appropriate. The owner shall take necessary means and precautions to preserve these markings.
- A totalizing flow meter must be installed on this well and maintained in good working order. Permanent records of all diversions must be maintained by the well owner (recorded at least annually) and submitted to the Division Engineer upon request.
- 11) This well shall be constructed at least 600 feet from any existing well, completed in the same aquifer, that is not owned by the applicant.
- This well shall be constructed not more than 200 feet from the location specified on this permit.
- 13) Pursuant to CRS 37-90-137(9)(b) and the Denver Basin Rules, no more than 98% of the nontributary ground water withdrawn annually shall be consumed and the well owner shall demonstrate to the reasonable satisfaction of the State Engineer that no more than 98% of the water withdrawn will be consumed.
- 14) This well is subject to administration by the Division Engineer in accordance with applicable decrees, statutes, rules, and regulations. NOTE: The ability of this well to withdraw its authorized amount of water from this non-renewable aguifer may be less than the 100 years upon which the amount of water in the aquifer is allocated, due to anticipated water level declines.

NOTE: To ensure a maximum productive life of this well, perforated casing should be set through the entire producing interval of the approved zone or aquifer indicated above.

NOTE: This permit will expire on the expiration date unless the well is constructed and a pump is installed by that date. A Well Construction and Test Report (GWS-31) and Pump Installation and Test Report (GWS-32) must be submitted to the Division of Water Resources to verify the well has been constructed and the pump has been installed. A one-time extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: http://www.water.state.co.us

APPROVED

Receipt No. 3662757

IDC

State Engineer

DATE ISSUED

12-19-2013

EXPIRATION DATE

12-19-2014

U COURCE

APPENDIX E

WATER QUALITY FROM STERLING EXISTING WELLS





WQCD - Drinking Water CAS 4300 Cherry Creek Drive South, Denver, CO 80246-1530 Inorganic Chemicals Certified Laboratory Report Form

Revised 6/13/2014

Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us

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| PWSID#: CO-0121724 | | | | Laboratory ID: CO 0015 | THE PARTY AND TH | | |
| System Name: LFH-1 | LFH-1 | | | Laboratory Name: Colorado Analytical Laboratory | ytical Laboratory | | |
| Contact Person: Mark Volle | : Mark Voll | ၁ | Phone #: 719-227-0072 | Contact Person: Customer Service | Phone: 303-659-2313 | 559-2313 | |
| Comments: | | | Do Samples Need to be Composited BY THE LAB? | Comments: | | | |
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| | | | Section III (Supplied or Comp. | I (Supplied or Completed by Public Water System) | | | |
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mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A less than (<) may also used.

170217005-01

| (Subcon | PHASE I, II, V Drinking Water Analyses (check analysis) | | 170217005 |
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| www.coloradolab.co | Compliance Samples: Yes No 2 | Email: jansatu 3870 achton | Email: Myolle@jdshydro.com Email: jmorte 9870000,com Compliance |
| Fax: 303-659-2315 | County: El Paso | Phone: Fax: | Phone: 19-337-007drax; |
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| Brighton Lab | PWSID: (0-012)724 | | Contact Names Mark |
| LABORATORIES, INC. | State Form / Project Information | ort.10) | Company Name: |

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Dr, Suite 100A 1228

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Colorado Analytical

Brighton Lab 240 South Main Street Brighton, CO 80601

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

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com

It's state forms

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Inorganic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS

Submit Online at http://www.wqcdcompliance.com/login

IOC

Revised 4/13/2015

(mg/L) 0.002 0.015 BDL BDL BDL 0.001 BDL Section II (Supplied or Completed by Certified Laboratory) 100000 0.001 0.001 0.001 0.001 0.001 0.00 Phone: 303-659-2313 Certified Laboratory Information (mg/L) 0.004 0.005 0.002 0.0 0.1 Sample Pt ID (On Schedule): Laboratory Name: Colorado Analytical Laboratory EPA 200.8 EPA 200.8 EPA 200.8 **EPA 200.8** EPA 200.8 EPA 200.8 **EPA 200.8** Method Contact Person: Customer Service Section IV Inorganic Chemicals (Completed by Certified Laboratory) Section III (Supplied or Completed by Public Water System) Laboratory ID: CO 0015 7740-36-0 7440-43-9 7440-47-3 7439-97-6 7440-39-3 7440-41-7 7440-38-2 CAS No Comments: Do Samples Need to be Composited BY THE LAB? Collector: Stephanie Schwe [Facility ID (On Schedule); Analyte Name Boryllium Chromium Barium Cadmium Antimony Arsenic Mercury Section I (Supplied or Completed by Public Water System) Phone #: Public Water System Information 170217005-01A 170217005-01A 170217005-01A 170217005-01A 170217005-01A 170217005-01A 170217005-01A Lab Sample II) ab Analysis Contact Person: Mark Volle 2/22/17 2/22/17 2/22/17 2/22/17 2/22/17 2/22/17 2/22/17 PWSID#: CO-0121724 System Name: LFH-1 Sample Date: 2/16/17 Lab Receipt Comments: 71/11/2 2/17/17 2/17/17 2/17/17 2/17/17 71/11/2 71/11/2 Date

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

Lab MRI.: Laboratory Minimum Reporting Level BDI.: Below Laboratory MRL. A less than (<) may also used.

NT: Not Tested

3/6/17 170217005-01A

0.001 BDI, 142.7 BDL

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EPA 200.8 EPA 200.7 EPA 200.8

7782-49-2

Selenium Sodium Thallium

Nickel

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7440-23-5

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EPA 200.8

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| 170217005 | Sampler Name: Se Channe Schwenke PONO: | Email: MYOLLE JAShyldro, Com Email: jmorthy 9870 God, Compliance Samples: Yes Myor | Phone: 119-337-007drax: Ph | City CS StateCOZID 80903 CI | | 2X Ave | - | Company Name: UDS-Hudro co | |
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| PIASSI, I | No.: | will: j markly 28 70 adv.com | Phone: Fax: | City ColoSassane Cozip 80903 | | Address: 20 Boulder (RESCONST NOT 1/4 NW1/4 527 | Contact Name: Jim (Therless | Company Name: SK-Waster | Bill To Information (If different from report to) State Form / Project Information |
| PHASE I, II, V Drinking Water Analyses (check analysis) | Send Forms to State: Yes ZNo XI | 7 | County: El Paso | City Lob Sers Smill zingo 90% | TIDS EGSW 1 HAY | NE 1/4 Nw 1/4 527 | System Name: | PWSID: 60-0121724 | State Form / Project Information |
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ABORATORIES, INC.

hton <u>Lab</u> South Main Street hton, CO 80601

vgod Lab W. Cedar Dr, Suite 100A vood CO 80228

e: 303-659-2313 303-659-2315

coloradolab.com

| SUVA, UV 254 (Circle) |
|-----------------------|
| Metals |
| Gross Alpha/Beta |
| |

Date | Time

Client Sample ID / EP Code

No. of Containers

Residual Chlorine (mg/L) P/A Samples Only

Total Coliform P/A

504.1 EDB/DBCP 505 Pests/PCBs 515.4 Herbicides 524.2 VOCs

525.2 SOCs-Pest

531.1 Carbamates 547 Glyphosate 548.1 Endothall 549.2 Diquat 524.2 TTHMs 552.2 HAA5s

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Nitrate Nitrite

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Subcontract Analyses 11 11 PERS 1913 - 11 1.12

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| | PO No.: | Email: jmortey@3570@aol.com | Phone: Fax: | City Colo 265 State Co Zip 60903 | | SHS E. BYES PEAK AND Address: 20 BOWLDER CRESCENT ST NEW NOW 527 | Contact Name: JTM MORLEY | Company Name: SR WATER | Bill To information (if different from report to) |
| | Send Forms to State: Yes TNO N Terries | Compliance Samples: Yes X No 12 | County: EL PASO | City COLO SPGS State CO Zip (0708) | TIDS RUSED CT PM | Address AND 4 527 | System Name: | rwsid: Co-0121724 | State Form / Project Information |
| • | S. A. | 14 | _ | | | | | | |

Colorado Analytical

Brighton Lab 240 South Main Street Brighton, CO 80601

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

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com

Prepresults state forms

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| | | tions: | | 31.14 | 21-15 | 8 | X.44 | 27.0 | 03.1 | いたが | 17.00 | 7:50 | 200 | Time | ARF | 170217005 | CAL Task No. |
| 916/17/19:50 | Date | | | 年1日 | 418 | 1 = 1 | # 6 | | | #15 | する | | | Clien | | | |
| To the | | 25(47 |) | É | بسب | | - | | | _ | U | W | w | | f Containers | | |
| 511 | | SOYBlank | | | | 2 . | | | | | | | | Resid | ual Chlorine | 1 | |
| 20 5 | | K | | | _ | | · · · | \vdash | | + | | _ | | - | Coliform P/A EDB/DBCP | - | |
| 2/17/11 | | | | | | | _ | | | | | | | | Pests/PCBs | 1 | |
| G. | _ | | | | | | <u>X</u> | | | | | | | 515.4 | Herbicides : | 7. | |
| B | Vol | + | | X | | | | | | | | | | 374 | WOCE GOV | 1 | H |
| | Deli | C/S Infa | | | | | | | | | | | | 525.2 | SOCs-Pest | ֓֞֟֝֟֝֟֝֟֝֟֝֓֓֓֓֓֟֟֟֝֓֓֓֟֟֟ | |
| eling | vered | O. | | | | | | | | | | | | 531.1 | Carbamates | 7 | = |
| Tush Tush | Delivered Via: | 7 | | | | | | | | T | | | | 547 C | lyphosate | | |
| Relinquished By: | الح ا | _ | | | T | | | | | | | | | 548.1 | Endothall | 1 | PHASE I II V Drintin |
| y: | 6 | | | | × | | | | | T | | | | 549.2 | Diquat | 0.0 | a |
| | 7 | `[| | | | | | | | 1 | | | | 524.2 | TTHMs | WAVE AUGISTS (CHECK MINISSES) | V |
| | | | | | | | | | | T | | | | 552,2 | HAA5s | ֓֞֞֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֡֓֓֡֡֡֓֓֓֡֡֝֡֓֡֡֡֡֡֡ | |
| Date/Time: | C/S Charge [| | | | П | | | | Γ | T | | | | Lead/ | Copper | | |
| Tin | harge | | | | | $ \top $ | | | | T | | | | Nitrat | | | |
| <u></u> | | ſ | Ī | | | \exists | | | | | | | | Nitrite | ; | | |
| | Temp. | Se | | | | X | | | | T | | | \neg | Fluori | Drineina de Waler ID | | |
| Received By: | e J | Seals Present Yes | | | | | | | | | | | | lnorga | | Ty. | |
| ived | 9 | sent | | | | | \exists | | | | | \neg | | | ang. Index | 5 | |
| Ву: | °C /Ice | <u>8</u> | | | | | | | | T | | \neg | | | DOC (Circle) | 1 | |
| | _ | S | | | T | | | | | T | 1 | | | | UV 254 (Circle) | | |
| | S | | 3 | | | | | | | | | ×. | | 1,4 | Dioxane | | |
| | nple | cads | | | | | * | X | | | | | | Gross | Alpha/Beta | S. | • |
| Date/Time | Pres | Jace 1 | | | | | | | | | | | × | Radiu | | DCOL | |
| | S S | No Headspace Yes | | | \int | | \int | | | | | , | × | Radiu | n 228 | tract | |
| 4 | Sample Pres. Yes XINo | No. | | | | | | | × | | | | | Raden | Cyamide | Subcontract Analyses | |
| | | | | | | T | I | | | | T | | \top | Uraniu | - | yses | |
| | | | | | | | | | | ì. | 1. | | | المال | age 3 of 3 | <u>.</u> . | |



Lab Control ID: B16917 Received: Feb 17, 2017 Reported: Mar 20, 2017 Purchase Order No.

None Received

Customer ID: 20040H Account ID: Z01034 Project #: 009-616

ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

| L | ab San | ple ID | B16917-001 | | | | | |
|--------------------|---------|--------|------------|----------------|-----------|-----------------|----------------|---------|
| Custom | ner Sam | ple ID | 170217005- | 01 - Lfh-1 - F | PWSID: CO | 0121724 - LFH-1 | | |
| | wenke | | | | | | | |
| | | | | Precision* | Detection | | Analysis | |
| Parameter | | Code | Result | +/- | Limit | Method | Date / Time | Analyst |
| Gross Alpha | | | 0.0 | 0.0 | 1.5 | SM 7110 B | 3/2/17 @ 0840 | LD |
| Gross Beta | pCI/L | Т | 0.0 | 2.1 | 2.2 | SM 7110 B | 3/2/17 @ 0840 | LD |
| | pCI/L | T | 0.0 | 0.2 | 0.1 | SM 7500-Ra B | 3/3/17 @ 0825 | LD |
| | pCi/L | T | 0.0 | 0.8 | 8.0 | EPA Ra-05 | 3/14/17 @ 1257 | JR |
| Radon | pCi/L | Т | 345 | 25 | 13.9 | SM 7500-Rn B | 2/17/17 @ 1500 | AN |

Certification ID's: CO/EPA CO00008; CT PH-0152; KS E-10265; NJ CO008; NYSELAP (NELAC Certified) 11417; RI LAO00284; WI 998376610, TX T104704256-15-6

Codes: (T) = Total (D) = Dissolved (S) = Susspended (R) = Total Residual (PD) = Potentially Dissolved <= Less Than

[&]quot;Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.



Radionuclides Certified Laboratory Report Form

WQCD - Drinking Water CAS

4300 Cherry Creek Drive South; Denver, CO 80246-1530 Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us



Revision 6/13/2014

| ACA CONSOCIALITY | | * | 100 (coc) vo | 1 ms. (202) 120-1270, capine mining waitingstate co.us | arca (astarc.co. as | | | | |
|------------------------------------|---------------------|--|---|--|--|----------------------------------|-----------------------|-------------|------------|
| | Section | Section I (Supplied or Completed by Public | blic Water System) | | Section II (Supplied or Completed by Certified Laboratory) | d or Completed | by Certified L | aboratory) | |
| | A. | Public Water System Information | | | Certified La | Certified Laboratory Information | ration | | |
| PWS ID: C00121724 | 1724 | | | Laboratory ID: CO 00008 | \$0000 C | ļ | | | |
| System Name: Lfh-1 | h-1 | | | Laboratory Name | Laboratory Name: Hazen Research, Inc. | | | | |
| Contact Person: | | | Phone #: | Contact Person: Jessica Axen | essica Axen | | Phone #: 303-279-4501 | 279-4501 | |
| Comments: | | | Do Samples Need to be Composited BY THE LAB? | AB? Comments: | | | | | · |
| | | | | | | | | | |
| | | | Section III (Su | Section III (Supplied or Completed by Public Water System) | Public Water System) | | | | |
| Sample Date: 02/16/2017 | 2/16/2017 | Collector: Stephanie Schwenke Facility ID (On Schedule): | Facility ID (On Sche | | Sample Pt ID (On Schedule): | | | | |
| | | | Section IV Radionuc | ides (Supplied or Comp | Section IV Radionuclides (Supplied or Completed by Certified Laboratory) | ory) | | | |
| Lab Receipt Lab Analysis Date Date | ab Analysis Date | Lab Sample ID | Analyte Na | Analyte Name (Code) | CAS No. | Analytical Method | MCL | Lab MRL | Result |
| 2 2100/11/00 | 7100/2012 | R16917_001 | Gross Alpha Including Uranium (4002) | ing Uranium (4002) | 12587-46-1 | SM 7110 B | Z/A | 1.5 | 0.0(=0.0) |
| | 170770000 | | Combined Ur | Combined Uranium (4006) | 7440-61-1 | D2907-97 | 30 ng/L | | |
| 02/17/2017 | 03/03/2017 | B16917-001 | Radium -2 | Radium -226 (4020) | 13982-63-3 | SM 7500-Ra B | N/A | 0.1 | 0.0(±0.2) |
| 02/17/2017 | 03/14/2017 | B16917-001 | Radium -2 | Radium -228 (4030) | 15262-20-1 | EPA Ra-05 | N/A | 8.0 | 0.0(±0.8) |
| 02/17/2017 | 03/02/2017 | B16917-001 | Gross Be | Gross Beta (4100) | 12587-47-2 | SM 7110 B | 50 pCi/L* | 2.2 | 0.0(±2.1) |
| | | | Total Dissolve | Total Dissolved Solids (1930) | | EPA 160.3 | NA | | |
| *The MCL for | Gross Beta F | *The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern. | r. Since there is no sir | nple conversion betwe | en mrem/year and pCi/L | EPA considers 5 | 50 pCi/L to be | e the level | f concern. |
| | | | Section V Calculated Values | ated Values | | | | | |
| | | ▼ /N | Gross Alpha Excluding Uranium (4000) | ling Uranium (4000) | Calculated Value | afue | 15 pCi/L | N/A | |
| | .7 | Δ); | Combined Radium { | Combined Radium {-226 & -228} (4010) | Calculated Value | alue | 5 pCi/L | N/A | |

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

BDL: Below Laboratory MRL. A less than sign (<) may also be used

ug/L: Micrograms per Liter

pCi/L: Picocuries per Liter

MCL: Maximum Contaminant Level

| Report To Information | Bill To Information (If different from report to) | State Form / Project Information |
|--------------------------------------|---|--|
| Company Name: Colorado Analytical | Company Name: Same As Report To | PWSID: C00121724 |
| Confact Name: Stuart Nielson | Contact Name: | System Name: Lfh-1 |
| Address: 240 S. Main St. | Address: | System Address: No. 1/4 Nw. 1/4 527 |
| City: Brighton State: CO Zip: 80601 | City: State: Zip: | T125 R65w 6th Pm City: Colorado Spgs State: CO Zip: 80908 |
| Phone:303-659-2313 Fax:303-659-2315 | Phone: Fax: | County: El Paso |
| Email: stuartnielson@coloradolab.com | Email: | Compliance Samples: Yes ⊠ No □ |
| Sampler Name: Stephanic Schwenke | PO No.: | Send Forms to State: Yes No 🛛 |

| | Colorado Analo |
|----|----------------|
| -5 | J.C. |

Brighton Lab 240 South Main Street Brighton, CO 80601 Lakewood Lab
12860 W. Cedar Dr, Suite 101
Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315

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|------|------------------|---|---------|--|---|---|--|--|-----|---|---------|--------------------|----------------------------|-------------------------------------|-------------|---|
| | Acanagua | ~ × | | Instruc | | | | | | | | 02/16/17 | Date | | Task | |
| | Alalan | | | ions:Pleas | | | | | | | 7 7 | 0906 | Time | | Task Number | |
| - | 4 | | | e print on s | | | | | | | MCM | | Client S | | | |
| 2011 | 2/17/16 | | | Instructions:Please print on state forms but do not submit to CDPHE. Thanks! | | : | | | 140 | | BOTTLES | 170217005-01 LFH-1 | Client Sample ID / EP Code | | | |
| | Received By: | | | ot submit | | | | | | | | | ode | · | | |
| | d Ву: | | | т С | | | | | | | | 6 | No. o | f Containers | | |
| | | | | DPHE. Th | | | | | | | | | Resid (mg/l P/A S | ival Chlorino _) iamples Only | | |
| | | | | anks | | | | | | | | | Tota | l Coliform P/ | A | |
| | | | | | | | | | | | | | 504. | EDB/DBCF | • | |
| | Date/ | | | | | | | | | | | | 505 | Pests/PCBs | _ | |
| | Date/lime: | | | | | | | | | | | | 515.4 | Herbicides | | PH |
| | | | | | | | | | | | | | 524,2 | 2 VOCs | | PHASE I, II, V Drinking Water Analyses (check analysis) |
| | | Deli | | C/S Info: | | | | | | | | | 525.2 | 2 SOCs-Pest | | I, I |
| | Keli | Delivered Via: | | Info; | | | | | | | | | 531.1 | l Carbamates | | V |
| | Relinquished By: | Via: | | | | | | | | | | | 547 (| Glyphosate | | Di |
| | hed k | Fede | 4:01 | | | | | | | | | | 548. | Endothall | | King |
| | ÿ: | ×3,7 | | | | | | | | | | | 549.2 | 2 Diquat | | W |
| | | CIS X | A. Mary | | | | | | | | | | 524.2 | 2 TTHMs | | ater |
| | | | (| | | | | | | | | | 552.2 | 2 HAA5s | | Ama |
| | Dat | C/S/C | | | | | | | | | | | Lead | /Copper | | lyse |
| | Date/Lime: | C/S Charge | | | | | | | | | | | Nitra | te | | टि |
| | E | | | | | | | | | | | | Nitri | te | | eck |
| | | Temp. | 4 | Sea | O | | | | | | | | Fluo | ride | | |
| | 24 | ģ | D | ls Pre | P | | | | | | | | Inorg | ganics | | ysis) |
| | 11/2 | °C /Ice | 1 | Seals Present Yes | 7 | | | | | | | | Alk./ | Lang, Index | | |
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| | 9 | 문 | 公 | H | | | | | | | | | | | | : |
| 1 | 02/ | Sample Pres. Yes 🗌 No 🗌 | (2) | Headspace Yes | | | | | | | | X | Gros | s Alpha/Beta | | Subc |
| | 7 Da | S C |) # | ace Y | | | | | | | | X | Radi | um 226 | | ontr |
| | Date/Time: | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 42 | | 山 | | | | | | | X | Radi | um 228 | | act A |
| | Date/Time: 430 | - | 12 | Ö | 6 | | | | | | | X | Rado | n | | Subcontract Analyses |
| | O.Z. | | / | J | | | | | | | | | Uran | ium | | 2 |



Analytical Results

TASK NO: 170217005

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

Bill To: Jim Morley

Company: SR Water

20 Boulder Crescent St.

Colorado Springs CO 80903

Task No.: 170217005

Client PO:

Client Project: LFH-1 CO-0121724

Date Received: 2/17/17

Date Reported: 3/6/17

Matrix: Water - Drinking

Customer Sample ID LFH-1
Sample Date/Time: 2/16/17

Lab Number: 170217005-01

| Test | Result | Method | ML | Date Analyzed | Analyzed By |
|------------------------|---------------------|-------------|------|---------------|-------------|
| Bicarbonate | 155.5 mg/L as CaCO3 | SM 2320-B | 0.1 | 2/20/17 | VDB |
| Calcium as CaCO3 | 6.3 mg/L | SM 3111-B | 0.1 | 2/24/17 | MBN |
| Carbonate | 4.0 mg/L as CaCO3 | SM 2320-B | 0.1 | 2/20/17 | VDB |
| Langelier Index | -0.43 units | SM 2330-B | | 2/24/17 | SAN |
| рН | 8.44 units | SM 4500-H-B | 0.01 | 2/17/17 | MBN |
| Temperature | 20 °C | SM 4500-H-B | 1 | 2/17/17 | MBN |
| Total Alkalinity | 159.5 mg/L as CaCO3 | SM 2320-B | 0.1 | 2/20/17 | VDB |
| Total Dissolved Solids | 456 mg/L | SM 2540-C | 5 | 2/23/17 | ISG |

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

Bill To Information (If different from report to) State Form / Project Information

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240 South Main Street Brighton, CO 80601 Brighton Lab

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

Phone: 303-659-2313

AFax: 303-659-2315

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| .1 | 1-14 | • | | |

Sampler Name: Storan Shuxak PONO.

Email: Myolle @ Jashydro, Com

Phone: 719-227-007drax:

Phone:

Fax:

County: El Paso

Cr

State OZip Sto903

City ColoSocissine Cozin 80903

City bas Seps smile zigo 90%

TIDS RESW 6#AH

Address: 20 Beauther Crescentst

Ne 1/4 Nw 1/4

027

Contact Name: Jim Morley

PWSID: Co. DI 21724 System Name: LFH-1

Company Name: SP Waster

Address S45 E. Piles Real Air

Suite 200

Contact Name | LOVE Volle

Company Name: JDS-Hydro

Report To Information

| | | Relinanthy | Instructions: | 8.5.8 | M5.60 | × S | 2000 | 0000 | | , , o , o , o , o , o , o , o , o , o , | TOOCH | 3:30 | 100 | -1.51 | | CAL Task No. |
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| | Date Ime: 19-180 | | | # | 4 | # 00 | # | 46 | = 0 | - 1 | 2 6 | ∯± (V) | #2 | 4 | Client Sample ID / EP Code | |
| 8 | W S W | | | | | O. | 7 | | | | | | | Č. | | |
| | Date/Time: | | | | × | | | | | | | | × | × | Total Coliform P/A 504.1 EDB/DBCP 505 Pests/PCBs | |
| | Relinquished By: | Delivered Via: Delivered | C/S Info: | × | | * | | | | | | ς . | | | 525.2 SOCs-Pest 531.1 Carbamates 547 Glyphosate 548.1 Endothall 549.2 Diquat | PHASE I, II, V Drinking We |
| | Date/Timek | C/S Charge N T | > | | | | | | ×.×. | | | | | | 524.2 TTHMs 552.2 HAA5s Lead/Copper Nitrate Nitrite | ing Water Analyses (check analysis) |
| | - | Temp. A °C/Ice 4 | Scals Present Yes No W | | | | × | , | × | | | | | | TOO DOC (Circle) SUVA, UV 254 (Circle) | malysis) |
| | 9 | Sample Pres. Yes No No | Headspace Yes No | | | | | X | | | | | | | Gross Alpha/Beta Radium 226 Radium 228 Radon Uranium | Subcontract Analysis |

| | CAL Task No. 170217005 | Sampler Name: STEPH SCHWENKE | Email: Bar Myalle @ joshydra, con Email: jmorley@ 3870@gol.com Compliance Samples: Yes X No | Phone: 719-227-0072 Fax: | CityCas SP65 State Co Zip \$0903 | SUCTE 300 | SHS F. BYES PEAK AND | Address: | Company Name: UDS HYDRO | Report To Information |
|--------------------------|---------------------------------|------------------------------|---|--------------------------|------------------------------------|------------|--|--------------------------|-------------------------|---|
| iners | | PO No.: | Email: | Phone: | City COLO Stass State COZip (OP 03 | | Address: Add | Contact Name: 3747 MOKIE | Company Name: SR WATER | Bill To Information (If different from report to) |
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| rides ; -Pest mates sate | PHASE I, II, V Drinking | © | S | 0 | 0 | | 겨 | | ļ., | CO. |
| sate | / Dr | Send Forms to | ompl | County: 2 | ity O | T 125 | Zig Zig | System Name: | PWSID: CC | State Form / Pr |
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Colorado
Analytical
LABORATORIES, INC.

Brighton Lab
240 South Main Street
Brighton, CO 80601

<u>Lakewood Lab</u> 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com

It's state forms

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|------------------|--------------|-----|--|--------------|---------|--------------|--------------|------|--------------|----------|--------------|----------|------|-----------|---------|----------------------------|-----------------|--------------|----------------------|------------------------------------|
| 3 | Relinquished | | | Instructions | | | | | 116 | <u>.</u> | | | | 1 | 3 | Date | | | 170 |) <u>\$</u> |
| | |) | | tions: | 100 | 215 | 3 | 8.44 | 04.0 | 2 27 | C.,,2 | 27.7 | 7550 | 200 | 3.7 | Time | ARF | | 170217005 | TE LOSK NO. |
| 2/10/17 | Data/Times | | | | #19 | 81# | ار 4 | 914 | # 0 | 41 | | サンツ | 40 | # | A 11 | Client Sample ID / ED Code | | | | |
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| | | 1 | SOYBlank | | | | | | | | | | - | | (mg | /L) | Chlor ples C | | | |
| <i>U</i> = | , | | F | L | _ | | | | | | \downarrow | \dashv | | \perp | Tot | al Co | olifor | m P/A | ↲ | |
| 2/17/11 | : | | | | | | | _ | | L | \downarrow | \dashv | | ┡ | 504 | 1.1 E | DB/D | BCP | 1 | |
| 77 e: | | | | <u> </u> | | | | - | | - | 1 | 4 | | _ | + | , . | sts/PC | | | |
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| 8 | V | Oβ | | - | X | | | | | L | + | | | | +- | MG 15, 17 | - | 621 | 1 | PHASE I. II. V Drinkin |
| Re | elive | | C/S Info | _ | | | | | | | ╀ | \dashv | | _ | | | OCs-l | | 4 | |
| Relinquished By: | elivered Via | سرا | ئ | - | | | | - | | | - | \dashv | | | 531 | .1 C | arban | nates | | E۷ |
| ishe | 19: | 2 | | _ | | _ | _ | | | | - | 4 | _ | _ | 547 | Gly | phose | ite | 4 | |
| d Ву: | 1 | 5 | and the same of th | | | | _ | | | _ | | _ | | _ | 548 | .1 Er | doth | ali | 4 | <u> </u> |
| •• | 4 | E | , | | | × | | | | _ | L | 4 | _ | | 549 | .2 Di | quat | | 100 | ng Water Analyses (check analysis) |
| | | ۷. | | | | \dashv | _ | | | | L | 4 | | | 524 | .2 T1 | 'HM | S | | |
| | Q | | | | _ | _ | _ | _ | | _ | L | 1 | _ | | 552 | .2 H/ | AA5s | | | A |
| Date/Time: | C/S Charge | | | | 4 | _ | | | | | L | 1 | | | Lea | d/Co | pper | | ١ | Ve |
| [ime | rge | | | | | | | _ | | | | _ | | | Nitr | ate | | | 3 | 2 0 |
| | | | | | _ | _ | _ | | | | L | 1 | _ | | Nitr | ite | | | | 2 |
| | Temp. | | Seals | | | | X | | | | | 1 | | | Fluc | ride | NA. | ina krto | \$ | |
| Received By: | 0 | 2 | Pres | | | 4 | | | | | | 1 | | | | ganio | | | You | E/Oil |
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| Y. | °C /lee | | 2 | | _ | 4 | 4 | _ | | | L | 1 | | | TOC | , DC | C (C | Circle) | | |
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| | Sam | | E | 3 | _ | 4 | | _ | \Box | | | ♪ | K | | 1,4 | IP | 0)4 | ine | | |
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| te/T | res. Y | | ace Y | _ | \perp | 4 | \perp | 4 | _ | | | 1 | | \succeq | Radi | um 2 | 26 | | COUR | |
| Date/Timg: | g` BC | | Seals Present Yes 🗌 No 闪 Headspace Yes 🗎 No 🗎 | \dashv | \perp | _ | \downarrow | | \downarrow | | | 1 | _ | * | Radi | | | | Subcontract Analyses | |
| | Z | • | 2 | _ | _ | \downarrow | \perp | _ | | X | | \perp | _ | | Rade | <u> </u> | yaı | سنكو | | |
| | <u></u> | | | | | | | | | | | | 1 | | Uran | | - | | yses | |
| | | | | | | | | - | | | | 1. | | | الما | Rag | ٩٨ | o <u>f</u> 3 | | |
| | | | | | | | | | | | | | | | | | | | | |

Nitrate and Nitrite as Nitrogen Certified Laboratory Report Form WQCD - Drinking Water CAS Submit Online at http://www.wqcdcompliance.com/login

NOX

Revised 4/13/2015

| ATTA EZIMICONICON | | | | | | | | | | | |
|----------------------------|--|-----------------------------|---------------|--------------|-----------|--|--|---------------|---------------------|--------------|--------|
| Sect | Section I (Supplied or Completed by Public Water System) | ed by Public W | (ater System) | | | Section II (S | Section II (Supplied or Completed by Certified Laboratory) | pleted by Cer | ified Lab | hratory | |
| | Public Water System Information | em Informatio | n | | | | Certified Laboratory Information | atory Inform | nation | A MANAGE A L | |
| PWSID#: CO-0121724 | 1724 | | | | Laborato | Laboratory ID: CO 0015 | | | | | |
| System Name: LFH-1 | H-1 | | i | | Laborato | Laboratory Name: Colorado Analytical Laboratory | ido Analytical Li | aboratory | | | |
| Contact Person: Mark Volle | fark Volle | I | Phone #: 719 | 719-227-0072 | Contact J | Contact Person: Customer Service | r Service | Phone: 3 | Phone: 303-659-2313 | 113 | |
| Comments: | | | | | Comments: | ıts: | : | | | | |
| Section III (S | Section III (Supplied or Completed by Public Water System) | ublic Water Sy | stem) | | Sec | Section IV (Supplied or Completed by Certified Laboratory) | or Completed b | v Certified L | aboratory | | |
| Sample Collector | н Facifity ID On Schedule | Sample Pt II) Confirmation? | Confirmation? | 世 | Lab Analy | Laboratory | Analyte | Analytical | MCL | Lab MRI. | Result |
| 7/16/17 | | Cili Sciledime | | Date | CARC | Nample ID # | | Method | (mg/L) | (mg/L) | (mg/L) |
| 2/10/1/ cpnanic schwenk | WCTIK | | | 2/17/17 | 2/17/17 | 170217005-01 | Nitrate Nitrogen | EPA 300.0 | 01 | 0.1 | BDL |
| 2/16/17 tephanie Schwenk | wenk | | | 2/17/17 | 71/11/2 | 170217005-01 | Nitrite Nitrogen | EPA 300.0 | _ | 0.1 | BDL |

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

NT: Not Tested Lah MRI.: Laboratory Minimum Reporting Level BDL: Below Laboratory MRI. A less than (<) may also used.

3/6/17 170217005-01

| 170217005 | Sampler Name: Se prome Shusente PONO. | Email: Myolle@jdshydro.com Email: jmortly 3070 achtom compliance Samples: Yes 1 No. | Phone: 119-227-007drax: | City CS StanCOzip 80903 | Suit 200 | SHS E. P. Ves Peak Ave | Contact Names BAC VOLK | Company Name: UDS-Hudro | |
|---|---------------------------------------|---|-------------------------|---------------------------------|------------------|---|---------------------------|-------------------------|---|
| | PO No.: | Email: j markly 38 20 achton | Phone: Fax: | City ColoSpession Cozip S0903 | | Address: 20 Bentler (resents) Address: 14 NW1/4 527 | Contact Name: J. M Marley | Company Name: Skubler | Bull To Information (If different from report to) |
| PHASE I, II, V Drinking Water Analyses (check analysis) | Send Forms to State: Yes No X | Y | | City ledo Seris Sunt D zigo 90% | TIDS BESW 1 TOWN | Address; /4 Nw /4 527 | System Name: | rwsid: Co. DI 21724 | State Form Project Information |
| ilysis) | 14°C | www.colorad | AFax: 303-659- | Phone: 303-6 | 12860 W. Cec | Lakewood La | Brighton, CO | Brighton Lab | LABORATORIES, |

<u>Ab</u> Main Street CO 80601

Lab Cedar Dr, Suite 100A CO 80228

-659-2313 59-2315

dolab.com

| | Fluoride | |
|---|---------------------------------------|--------|
| | Inorganics | an You |
| | Alk./Lang. Index | ٤ |
| 4 | TOC DOC (Circle) | |
| | SUVA, UV 254 (Circle) | |
| | metals | |
| | Gross Alpha/Beta | CMC |
| | Radium 226 | 200 |
| | Radium 228 | Sam. |
| | Radon | 7.00 |
| ╗ | · · · · · · · · · · · · · · · · · · · | |

Date | Time

Client Sample ID / EP Code

No. of Containers

Residual Chlorine (mg/L) P/A Samples Only

Total Coliform P/A

504.1 EDB/DBCP 505 Pests/PCBs 515.4 Herbicides 524.2 VOCs

525.2 SOCs-Pest

531.1 Carbamates 547 Glyphosate 548.1 Endothall 549.2 Diquat 524.2 TTHMs 552.2 HAA5s

Lead/Copper

Nitrate Nitrite

5 3 7 C

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1253 60

4 アカス 五十

#1

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Received By: °C /Ice Sample Pres. Yes N Date/Time **₽** Scals Present Yes | No | No

Headspace Yes | No |

date Time:

Delivered Via:

Relinquished By:

Date/Time

C/S Info:

Instructions:

N5%6 € 50 E 4032

X

7 1PRIS 3 913 C. 12

Uranium

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|-------------------|-------|--|
| LABORATO | Produ | |
| ABORATORIES, INC. | ticol | |

| Webort to information | Bill To information (If different from report to) | State Form / Project Information |
|--|--|-----------------------------------|
| Company Name: JDS HNDRO | Company Name: SR WATER | וניבורוס מל |
| Contact Name: MARK VOLLE | Contact Name: OTA MORLEY | System Name: |
| A 3.5 | COURSE NAME: CAT TOO TO | TTE-1 |
| SYS E. BYEN PEAK AND | SHS E. PEAK AND Address 20 BOWLDER CRESCENT ST NEW NOW 527 | NEW NOW S27 |
| SUSTR- 300 | | T 125 RGSW 6T PM |
| CityCon SP65 State COZip \$0903 | City Colo 365 State Cozip 60903 | CityCOLO SPGS StateCO Zip (10908) |
| Phone: 719-227-0072 Fax: | Phone: Fax: | County: EL PASO |
| Email: Bar Myalle & jobshydro, con Email: jmorley@ 3870@acl.compliance Samples: Yes X No | Email: jmorley@3870@ach.com | Compliance Samples: Yes X No |

Brighton Lab
240 South Main Street
Brighton, CO 80601

Lakewood Lab
12860 W. Cedar Dr., Suite 100A

Phone: 303-659-2313 Fax: 303-659-2315 Lakewood CO 80228

www.coloradolab.com

please the share forms

Send Forms to State: Yes No X

Sampler Name: STEPH SCHWENKE

| | | Instructions: | M. Cho | £15.5 | 1 kg | 8:44 | JIP 8340 | £175 E | 3,75 | 9:50 | 2 6 5 3 | Date Time | ARF | 200717005 | CAL Task No. |
|--------------------|----------------------|------------------------|--------|-------|------|------|----------|--------|------|------|---------|----------------------------|---|-----------|---|
| 1/6/17 3:50 | | | 年/9 | | L!# | 416 | #15 | 1年 | 中 | 412 | # | Client Sample ID / EP Code | | | |
| Son Reported By: | 1 | 211 +) SOUBLAND | فن | | | | | _ | v | W | w | No. o | f Containers | | |
| 2/17/11 | | lank | | | | • | | | | | | P/A S Total 504.1 | amples Only Coliform F EDB/DBC Pests/PCBs | P/A | |
| OGO Relinquished B | Vo A Delivered Via: | C/S Info | × | | | | | | | | | 525.2 531.1 | Herbicides VOCs 6 SOCs-Pest Carbamate | 24 | PHASE I, II, V |
| ished By: | 5 | | | × | | | | | | | | 548.1 549.2 524.2 | Endothall Diquat TTHMs | | PHASE I, II, V Drinking Water Analyses (check analysis) |
| Date/Time: | C/S Charge | | | | | | | | | | | Lead/ Nitrat | e Decoration | | Analyses (check |
| Received By: | Temp. O °C/lee \ | Seals Present Yes 🗌 No | | | X | | | | | | | Inorga Alk./I | المعادر | le) | analysis) |
| Date/Time: | Sample Pres. Yes 10 | No N Headspace Yes No | | | | • | × | × | | ×. | × | Gross Radiu Radiu | Alpha/Beta m 226 m 228 | | Subcontract Analyses |
| | | 2 | | | | | | X | 1 | | | Urani | um age 3,01 | | nalyses |

Organic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS

Submit Online at http://www.wqcdcompliance.com/login

VOC/SOC

Revised 4/13/2015

| | ection I (Sumfie | Section I (Sumiled or Completed by Public Water System) | w Woter Crestom) | Confine II (Conse | A section of the sect | | | |
|----------------------------|----------------------|---|--|---|--|---------------|-------|---------|
| | Public | Public Water System Information | nation | Section 1 Library | Certified Laboratory Information | Ition Laboral | (Alig | |
| PWSID#: CO-0121724 | | | | Laboratory ID: CO 00063 | AND THE PERSON AND TH | | | |
| System Name: LFH-1 | LFH-1 | | | Laboratory Name: Colorado Analytical Laboratory | nalytical Laboratory | | | |
| Contact Person: Mark Volle | : Mark Volle | | Phone #: 719-227-0072 | Contact Person: Customer Service | Phone: | 303-659-2313 | | |
| Comments: | | | Do Samples Need to be | Comments: | -1 -0 -0 -0 -0 -0 -0 | | | |
| | · | | Composited BY THE LAB? | | | | | |
| PWSID#: CO-0121724 | 21724 | | Section V (Supplied or Compl | (Supplied or Completed by Public Water System) | | | | |
| Sample Date: 2/16/17 | | Collector: Stephanie Sc | | Sample | Sample Pt ID (On Schedule): | | | |
| | | Section VJ S | Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory) | plied or Completed by Certified | Laboratory) | | | |
| Lab Receipt Date | Lab Analysis Date | Lab Sample ID | Analyte Name | CAS No. | ical | | WRL | Result |
| 2/17/17 | 2/24/17 | 170217005-01E | Dibromochloropropane | 96-12-8 | EPA 504.1 0.2 | (1007) | 12 | (ug/L.) |
| 2/17/17 | 3/1/17 | 170217005-01G | 2,4,-D | 94-75-7 | | | | BDL |
| 2/17/17 | 3/1/17 | 170217005-01G | 2,4,5.TP | 93-72-1 | EPA 515.4 50 | | 2 | BDL |
| 21/1/1/2 | 2/23/17 | 170217005-01H | Alachlor | 15972-60-8 | EPA 525.2 2 | 0.2 | 2 | BDI. |
| 2/17/17 | 3/2/17 | 170217005-011 | Aldicarb | 116-06-3 | EPA 531.1 N/A | A 0.6 | 9 | BDL |
| 2/17/17 | 3/2/17 | 170217005-011 | Aldicarb sulfone | 1646-88-4 | EPA 531.1 N/A | - | | BDL |
| 2/1/71/2 | 3/2/17 | 170217005-011 | Aldicarb suffoxide | 1646-87-3 | EPA 531.1 N/A | A 0.7 | 7 | BDL |
| 2/17/17 | 2/23/17 | 170217005-0111 | Atrazine | 1912-24-9 | EPA 525.2 3 | 1.0 | 1 | BDI. |
| 2/17/17 | 2/23/17 | 170217005-01H | Benzo(a)pyrene | 50-32-8 | EPA 525.2 0.2 | 0.02 | 12 | BDL |
| 2/17/17 | 3/2/17 | 170217005-011 | Carbofuran | 1563-66-2 | EPA 531.1 40 | 6.0 | 6 | BDL |
| 2/1//17 | 2/24/17 | 170217005-01F | Chlordane | 57-74-9 | | 0.2 | 2 | BDI. |
| 71//1/2 | 3/1/17 | 170217005-01G | Dalapon | 75-99-0 | | 1 | | BDL |
| 71/1/17 | 2/23/17 | 170217005-0111 | Di(2-ethylhexyl)adipate | 103-23-1 | EPA 525.2 400 | 0.0 | 9 | BDL |
| 2/1//1/2 | 2/23/17 | 170217005-01H | Di(2-ethylhexyl)phthalate | 117-81-7 | | 0.6 | 9 | BDI. |
| 71//1/2 | 3/1/17 | 170217005-01G | Dinosch | 85-85-7 | EPA 515.4 | 0.2 | 2 | BDL |
| 2/17/17 | 2/23/17 | 170217005-01K | Diquat | 85-00-7 | | 0.4 | 4 | BDL |
| 11//1/2 | 2/23/17 | 170217005-013 | Endothall | 145-73-3 | EPA 548.1 100 | 6 0 | | BDL |
| 2/11/1/2 | 2/24/17 | 170217005-01F | Endrin | 72-20-8 | EPA 505 2 | 0.01 | 10 | BDL |
| 71//1/2 | 2/24/17 | 170217005-01E | Ethylene dibromide | 106-93-4 | EPA 504.1 0.05 | 5 0.01 | = | BDI. |
| 11/11/7 | 2/23/17 | 170217005-01H | Heptachlor | 76-44-8 | EPA 525.2 0.4 | 0.04 | 4 | BDL |
| 2/17/17 | 2/24/17 | 170217005-01F | Heptachlor epoxide | 1024-57-3 | EPA 505 0.2 | 0.02 | 12 | BDL |

NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also be used.

170217005-01

1/2 3/6/17

| | Γ | | | | | Γ | Τ | Г | Γ | Τ | Г | Т | Γ | Т |
|--|-----------------------------------|--|---------------|---------|-------------------|---------------------------|---------------|---------------|---------------|-------------------|---------------|----------------------------|---------------|---------------|
| | | | Result | (ug/L) | BDL | BDL | BDL | BDL | BDL | RDL | BDL | BDL | BDI. | BDI |
| | | | Lab MRL | (ng/L,) | 0.1 | 0.1 | 0.02 | 0.1 | 1 | 0.04 | 0.1 | 0.1 | 0.07 | - |
| | L | | MCL | (mg/l.) | I | 50 | 0.2 | 40 | 200 | - | 200 | 0.5 | 4 | 3 |
| | Sample Pt ID (On Schedule): | aboratory) | Analytical | Method | EPA 505 | EPA 505 | EPA 505 | EPA 505 | EPA 531.1 | EPA 515.4 | EPA 515.4 | EPA 505 | EPA 525.2 | EPA 505 |
| blic Water System) | Sample Pt | ompleted by Certified L | CAS No | | 118-74-1 | 77-47-4 | 58-89-9 | 72-43-5 | 23135-22-0 | 87-86-5 | 1918-02-1 | 1336-36-3 | 122-34-9 | 8001-35-2 |
| Section V (Supplied or Completed by Public Water System) | chwenk Facility ID (On Schedule): | Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory) | Analyte Name | | Hexachlorobenzene | Hexachlorocyclopentadiene | Lindane | Methoxychlor | Oxamyl | Pentachlorophenol | Picloram | Polychlorinated biphenyl's | Simazine | Toxaphene |
| | Collector: Stephanie Schwenk Faci | Section VI S | Lab Sample ID | | 170217005-01F | 170217005-01F | 170217005-01F | 170217005-01F | 170217005-011 | 170217005-01G | 170217005-01G | 170217005-01F | 170217005-01H | 170217005-01F |
| 1724 | 6/17 | | Lab Analysis | Date | 2/24/17 | 2/24/17 | 2/24/17 | 2/24/17 | 3/2/17 | 3/1/17 | 3/1/17 | 2/24/17 | 2/23/17 | 2/24/17 |
| PWSID#: CO-0121724 | Sample Date: 2/16/17 | | Lab Receipt | Date | 2/17/17 | 21/11/2 | 2/17/17 | 2/17/17 | 2/17/17 | 21/117 | 2/17/17 | 2/17/17 | 2/17/17 | 2/17/17 |

| 170217005 | Sampler Name: Se Craine Schwenke PONO: | Email: Myolle@jdshydro, com Email: jmorthy 38 10000, com Compliance Samples: Yes Ming | Phone: 119-227-007drax: | City CS Stant Ozip 80903 | Wit 300 | THIS E. P. Vas Peak Ave | | 0 | |
|---|--|---|-------------------------|-------------------------------|-----------------|---|-----------------------------|------------------------|---|
| | PONo.: | Email: j mortly 28 10 ach con | Phone: Fax: | city ColoSpession COZip 80903 | | Address: 20 Denuber (resentst Address: Address: | Contact Name: Jim Markey | Company Name: SP Waker | But To Information (If different from report to) State Form / Project Information |
| PHASE I, II, V Drinking Water Analyses (check analysis) | Send Forms to State: Yes No 31 | Y | | W " | TIDS PASK LATER | Address: | System Name: | PWSID: 10-012111 | State Form / Project Information |
| \$15) | v | e www.colorad | AFax: 303-659 | Phone: 303-6 | 12860 W. Ce | Lakewood La | 240 South M Brighton, CC | Brighton Lal | LABORATORIES, |

LABORATORIES, INC.

Main Street

Lab Cedar Dr, Suite 100A CO 80228

-659-2313 59-2315 dolab.com

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|-----------------------|------|
| Alk./Lang. Index | ٤ |
| TOC DOC (Circle) | |
| SUVA, UV 254 (Circle) | |
| metals | |
| Gross Alpha/Beta | |
| Radium 226 | 2000 |
| Radium 228 | |
| Radon | Alla |
| Uranium | Vec |

1 PROR 1914

Date | Time

Client Sample ID / EP Code

No. of Containers

Residual Chlorine (mg/L) P/A Samplés Only

Total Coliform P/A

504.1 EDB/DBCP 505 Pests/PCBs 515.4 Herbicides 524.2 VOCs

525.2 SOCs-Pest

531.1 Carbamates 547 Glyphosate 548.1 Endothall 549.2 Diquat **524.2 TTHMs** 552.2 HAA5s

Lead/Copper

Nitrate Nitrite

Fluoride

Inorganics

ARF

Instructions:

Date/Time:

Date Time:

Delivered Via:

Relinquished By:

Date/Time

Received By:

°C/Ice

Sample Pres. Yes No |

C/S Info:

Seals Present Yes | No |

Headspace Yes No

HS%

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Bill To information (If different from report to)

State Form / Project Information

Report To Information

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|------------------------------|----------------|------------------------|----------|----------|---------|----------|----------|--------------|--------------|----------|----------|---------------|---|-----------------|-------------------------------------|--------------|--------------------------------|--|-------------------------|---------------------------------|--|--------------|---|------------------|
| | D | Instructions: | | | | | | 1 | 2 | | | 1 | Date | .[| . 17 | CA | Sample | Email: @ | Phone | CilyCo | | | Address | Comp |
| y N N N | | tions: | | b) (b) | 4 P.S | 3 | 87.44 | 334C | 243 | 3,7 | Sil | 2,31 | Time | ARF | 170217005 | CAL Task No. | Sampler Name: | 7 | 719-22 | CityCon SP65 | JUST TO | , 5HS | Name: | |
| Date ime: 2: Kp Received by: | | 1 112 | | #19 | 81# | トーサー | #6 | 15 | 中一工 | 中ツ | 中の | # | Client Sample ID / EP Code | | | | STEPH SCHOOLS | mualle @ jolshydra. com | Phone: 719-227-0072Fax: | State Co Zip \$ 0903 | 300 | (4) | THAKK VOLCE | |
| Žį. | | 2 | | ÉÜ | سد | - | | | _ | U | W | 63 | No. of | f Containers | \dashv | | PO No.: | Emai | Phone: | City | | Address: 20 | Con | Com |
| 1 _{1.8} | - | 7 | | | ;÷ | | _ | | | | | 3 | | | \dashv | | 0.: | 15 | Ē | 5 | | 8.00 | act N | pany |
| * | , | SOYBLANG | | | | | | | | | | | Residual Chlorine (mg/L) P/A Samples Only | | | | | Email: jmorley@3870@aol.compliance Samples: Yes X No | | City Colo 365 State Co Zip | | 0 30 | Contact Name: JY | Company Name: SR |
| 7 0 | | F | | | | _ | | | | | | | Total | Coliform P/A | | | | M. | | Stat | | BOULDER | 3 | - 1 |
| Date/Time: | | | \dashv | | | _ | | | \dashv | _ | _ | | | EDB/DBCP | _ | | | W | | 6 | | S | Z. | WATER |
| | | - | \dashv | \dashv | | \dashv | X | _ | \dashv | | | - | - | Pests/PCBs | - | | | ध्य | Fax: | | | Q | MOKIEY Y | 20 |
| 9 | VOA | _ | | × | - | \dashv | | \dashv | - | \dashv | - | \dashv | | Herbicides : | | | | P | | %0903 | | 200 | 2 | |
| | | | | | _ | - | \dashv | \dashv | \dashv | | \dashv | | | SOCs-Pest | LASE I | 20 | | 5 | | 03 | | CRESCENT ST | | |
| Relinquished By: | Delivered | C/S Info: | | | | 7 | | 1 | | + | | \dashv | | Carbamates | ┧┋ | | | E | | | <u> </u> | | | |
| quist | SY | 7 | | | | 1 | | \neg | \dashv | | \dashv | 7 | | lyphosate | Ⅎ⋖ | | Send | Com | Cou | City | H | ZAd | System Name: | PW |
| led B | <u></u> | | | | | | | | | 7 | | | | Endothall | - Prink | | Send Forms to State: Yes TNo M | Plianc | County: 6 | CityCOLO 5P65 StateCO Zip (0708 | T 125 | Address Work | T P | |
| Υ. | SE SE | | | | × | | | | | | | | 549.2 | Diquat | ing Water Analyses (check analysis) | | s to S | e San | ľ | 4 | 20 | Z | <u>اة</u> | 5 |
| | | ` [| _ | \perp | | | | | | | | | 524.2 | TTHMs | Vate | | tate: | nples: | PASO | 55 | BG5W | 5 | | Ĭ, |
| | 2 | | \perp | | _ | | | | | | | | 552.2 | HAA5s | À | | ře. | ž, | Ø | State | E' | i I | | 1724 |
|)ate/ | 3 | | | 4 | 4 | \perp | \perp | \perp | | | \perp | \perp | Lead/(| Copper | alys | | 2 | S. | | 6 | 6.1 | 527 | | |
| Date/Time: | C/S Charge | | \perp | | \perp | | | | _ | \perp | | \perp | Nitrate | ; | 8 | | Z · | | | Zip % | Md. | 41 | 9 | ັນ |
| | | _ | 4 | _ | \perp | _ | _ | _ | \perp | _ | \perp | | Nitrite | | heck | | 4 | i | ı | Ogo. | | | | - |
| | | Scals Present Yes No V | \bot | _ | -> | <u> </u> | \perp | \perp | \downarrow | _ | \perp | 1 | Fluoric | Drinking | \$ 2 | 1 | Trepit L | | | 00 | | | | - |
| Received By: | ر _د | Pres | - | + | \perp | _ | | \downarrow | \perp | \perp | _ | _ | Inorga | | lysis | | \$ 6 | | | | | | | |
| 64 B | , 5 | M Ye | 4 | _ | _ | + | _ | 1 | _ | \perp | \bot | 4 | Alk./L | ang. Index | ` | | Su | 14 | _ | _ | | | | - |
| d By: | Î | <u></u> | + | \dashv | + | + | + | _ | + | + | | - | | OOC (Circle) | | | 表 | WW | 20 | hon | ake | ake | Brig! | Brighton Lab |
| - | 4 | 6 | _ | + | + | + | + | + | + | | - | \rightarrow | | JV 254 (Circle) | 1 | | (y) | .colo | 303- | e: 30 | WOO! | WOO | out! | hton |
| 0 | | Hea | + | + | + | + | | | + | - 2 | 4 | _ | | Dicxane | - | - | 1 | rado | Fax: 303-659-2315 | 3 65 | | akewood Lab | 240 South Main Street Brighton, CO 80601 | Lab |
| Date | 7 | Headspace Yes No | + | + | + | - | + | + | + | +- | + | | | Alpha/Beta | Subci | | 2 | www.coloradolab.com | 2315 | Phone: 303-659-2313 | 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228 | 10 | in S | |
| /Tim | | e Yes | + | + | + | - | + | + | + | +- | + | | Radium | | ontra | | garden and | MO. | - | Ü | 28 28 | | ireet | |
| Date/Time: | 5 | | + | + | + | + | +- | > | < | + | - | \top | Radium | 1 | ict A | | 5 | | | | lite : | | | |
| |] | | + | + | + | + | + | - | + | + | + | - | Radon | Cyanyde | Subcontract Analyses | | | | | | 100A | | | |
| | | | L | 丄 | | \perp | | \perp | Ļ | | | \perp | Uraniui | m | 2 | 1 | | | | | | | | |

INDEADE AND 4

Colorado Analytical



Analytical Results

TASK NO: 170217005

Report To: Mark Voile

Company: JDS Hydro Consultants 545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

Bill To: Jim Morley

Company: SR Water

20 Boulder Crescent St.

Colorado Springs CO 80903

Task No.: 170217005

Client PO:

Client Project: LFH-1 CO-0121724

Date Received: 2/17/17

Date Reported: 3/6/17

Matrix: Water - Drinking

Customer Sample ID LFH-1 Sample Date/Time: 2/16/17

Lab Number: 170217005-01

| Test | Result | Method | ML | Date Analyzed | Analyzed By |
|----------------------|-------------------|-----------|-------------------|---------------|-------------|
| Chloride | 5.8 mg/L | EPA 300.0 | 0.1 mg/L | 2/17/17 | LJG |
| Cyanide-Free | < 0.005 mg/L | EPA 335.4 | 0.005 mg/L | | VDB |
| E-Coli | < 1 mpn/100ml | Colilert | 1 mpn/100mi | | VDB |
| Sulfate | · | EPA 300.0 | 0.1 mg/L | | ЫG |
| Total Coliform | 142.1 mg/L | Colliert | 1 mpn/100ml | | VDB |
| | 93 mpn/100ml | | • | | ISG |
| Total Organic Carbon | 0.8 mg/L | SM 5310-C | 0.5 mg/L | | |
| Turbidity | 2.49 NTU | SM 2130-B | 0.01 NTU | 2/17/17 | MBN |
| <u>Total</u> | | | | | |
| Aluminum | 0.053 mg/L | EPA 200.8 | 0.001 mg/L | 2/22/17 | TCD |
| Calcium | 2.5 mg/L | EPA 200.7 | 0.1 mg/L | 2/22/17 | MBN |
| Соррег | 0.0026 mg/L | EPA 200.8 | 0.0008 mg/L | | TCD |
| Iron | 0.602 mg/L | EPA 200.7 | 0.005 mg/L | | MBN |
| Lead | 0.0005 mg/L | EPA 200.8 | 0.0001 mg/L | | TCD |
| Magnesium | 0.39 mg/L | EPA 200.7 | 0.02 mg/L | | MBN |
| Manganese | 0.0259 mg/L | EPA 200.8 | 0.0008 mg/L | | TCD |
| Potassium | 1.6 mg/L | EPA 200.7 | 0.1 mg/L | | MBN |
| Silver | < 0.0001 mg/L | EPA 200.8 | 0.0001 mg/L | | TCD |
| Strontium | 0.037 mg/L | EPA 200.8 | 0.005 mg/L | | TCD |
| Total Hardness | 7.7 mg/L as CaCO3 | SM 2340-B | 0.1 mg/L as CaCO3 | | MBN |
| Uranium | < 0.0002 mg/L | EPA 200.8 | 0.0002 mg/L | | TCD |
| Zinc | 0.002 mg/L | EPA 200.8 | 0.001 mg/L | | TCD |

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY



Analytical Results

TASK NO: 170217005

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

Bill To: Jim Morley Company: SR Water

20 Boulder Crescent St.

Colorado Springs CO 80903

Task No.: 170217005

Client PO:

Client Project: LFH-1 CO-0121724

Date Received: 2/17/17

Date Reported: 3/6/17

Matrix: Water - Drinking

Customer Sample ID LFH-1
Sample Date/Time: 2/16/17

Lab Number: 170217005-01

| Test | Result | Method | ML. | Date Analyzed | Analyzed By |
|--------------|------------|-----------|------------|---------------|-------------|
| <u>Total</u> | | | | | |
| Zinc | 0,005 mg/L | EPA 200.8 | 0.001 mg/L | . 2/22/17 | TCD |

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

Bill To Information ([fillferent from report to) State Form / Project Information

| < | | Relinguished By | THE WEST WEST OFF | Janet State of the | 6 | | 2 | 71 | | 1 | | | | Date | ARF | 770217005 | CAL Task No. | Sampler Name: | Email: D | Phone: | City | | 7 | Contact | Company Name: | - |
|--------------|-------------------|------------------|-------------------|--|-----------|----------|------------|-----------|--------------|--------------|--------------|--------------|--------------|----------------------|------------------------|------------------------------------|--------------|-----------------------|------------------------------|--------------------|---------------------|--|--|---|---------------|--|
| 8 | | | 3. | S. S. A | NS.56 | 100 E | 4622 | 600 | 7253 | 35.84 | 7.30 | 3 6 | 16.7 | | 7 | 7005 | isk No. | Varme: | avolle | -66-M | | trans. | 1.354 | Contact Name D/K | y Name: | |
| 11 | DINICO INICO | Dota/Time: | | # | # 0 | # 00 | 4 | 40 | の一年の | 工 | (V) | #2 | | Client Sample ID / E | | | • | chance Sch | Email: Myolle@jdshydro, com | 19-997-काक्षेत्रः | 1 | | E. Pilas Peak P | | DS-Hydro | 上の大変 をというがと かい |
| | | | | | | | | | | | | | | ID / EP Code | | | | Chusened PO No.: | - | ļ | CO008 | | The state of the s | | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |
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| \checkmark | ン ^三 | | | | | | | | | <i>c</i> ; , | | | | Residi | ial Chlorine | | | •• | Email: jms/thy 98 10000, con | | 00 | | (Q) | Contact Name: | Company Name: | COUNT OF UNION |
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| | e: | | | | \dashv | \dashv | \dashv | \dashv | + | _ | \dashv | × | | | Pests/PCBs | | | | 20 | Fax: | Zip | | 5 | Merley | كمحطرا | mon 1 |
| | 8 | | | H | | \dashv | - | - | \dashv | \dashv | | | | | Herbicides | - ; | | | 6 | | X | 1 | rescent St | 7 | 5 | repor |
| | | _ | | | \dashv | × | \dashv | - | \dashv | \dashv | | | | | VOCs | | | | 6 | | 20903 | | 5 | 4 | | 5 |
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| | By: | 8 | | | \forall | \dashv | \dashv | + | \top | + | | | | 549.2 | | 뎚 | | | ice Sa | T. | SARY S | 4 | Address: /4 Nw 1/4 | System Name: | > | State Form - Project Total stan |
| | | 4 | 5 | \dashv | + | \top | + | \top | + | \dashv | | - | \dashv | | TTHMs | ng Water Analyses (check analysis) | | to State: Valley No M | e Samples: Yes X No. | Paso | 5 | P6SW | 2 | | | 1 |
| L | | | | | | 1 | \top | \dagger | _ | \top | T | | 1 | | HAA5s | | | | :: Yes | K | State | Y S | 1/4 | | 0 0 | |
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| \vdash | | Temp. | Sea | | | | | > | × | | | | \Box | Fluoric | le | 8 | 1 | | 9.0 | | 0 0 | <u> </u> | | | | |
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| | ved | - | Sent | | \perp | \perp | | > | <u>د</u> | | · | | | Alk/L | ang. Index | ۳ | | N. | 1 2 | \mathcal{B} | | | | | | |
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| | 1 | 4 | Z 2 | | \perp | \perp | | | _ | \downarrow | \perp | | | SUVA, L | IV 254 (Circle) | | | | ₩.col | AFax: 303-659-2315 | Phone: 303-659-2313 | [2860 W. Cedar Dr. [Lakewood CO 80228 | lakewood Lab | 240 South Main Stri Brighton, CO 80601 | Brighton Lab | |
| | | San 2 | | 1 | _ | \perp | \perp | \perp | _ 2 | < | \perp | _ | | met | als | | | : | orac | 659 | 3 | 6 C | 2 | ς N S | n La | į |
| | Da | ple P | adsba | 4 | _ | \perp | | \perp | \downarrow | 1 | _ | _ | \perp | Gross A | Alpha/Beta | SIL | | | olab | 231 | 9 | 0 8 C | 8 | ain S | 0 | - |
| | Date/Time | Sample Pres, Yes | nce ¥t | _ | _ | + | 4 | _ | _ | \perp | \downarrow | _ | \perp | Radium | 226 | contr | | | www.coloradolab.com | Un i | 313 | Dr., 1 | | 240 South Main Street Brighton, CO 80601 | | |
| | | | Headspace Yes No | + | - | + | | | _ | 4 | - | _ | \downarrow | Radium | 228 | Subcontract Analyses | | | 100 | | | 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228 | | * | | |
| | | 2 | 8 | + | + | + | \ <u>\</u> | 4 | + | \downarrow | 4 | \downarrow | _ | Radon | | la di | | | | | | 100 | | | | |
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Colorado Analytical

Drinking Water Chain of Custody

| Email: Mar Myalle & jobshydor, con Email: jmorley@3870@aol.compliance Sa | Phone: 719-227-0072Fax: | CityCoa 5P65 State COZip \$0903 | SWEETE 300 | SHS F. BYEN PEAK AND | Address: | Company Name: JDS HNDRO | Report To Information |
|--|-------------------------|----------------------------------|-----------------|--|----------------------------|-------------------------|---|
| Email: jmorley@3870@gol.com | Phone: Fax: | City Colo 365 State Cozip 20903 | | SYS E. PINES PEAK AND Address 20 BOWLDER CRESCENT ST NEW NOW 527 | Contact Name: 33-77 MORLEY | Company Name: SR WATTER | Bill To Information (If different from report to) |
| mples: Yes X No | County: EL PASO | CityCOLO SPGS StateCO Zip (10708 | T125 RGSW GT PM | NEW NOW 527 | LEH-1 | PWSID: CO-0121724 | State Form / Project Information |
| 40 | | _ | | a lawa | | . 1 | - |

Colorado Analytical

Brighton Lab 240 South Main Street Brighton, CO 80601

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

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com

Presidents state forms

Send Forms to State: Yes TNo X

Sampler Name: STEPH SCHWENKE

CAL Task No.

| 8 | [, | D. | | Inote | | | | | - | - | | | (). | Date | | | |
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| | 200 | Vo. Della | | | × | | | | | | | | | 3914 | SOCs-Pe | 224 | PHASE I, |
| | Relinquished By: | Delivered Via: | C/S Info: | | | | | | | | | | | 547 G | Carbamat lyphosate | | PHASE I, II, V Drink |
| | By: | 2 | 5 | | | × | | | | | | + | | 549.2 | Endothall Diquat TTHMs | | iking Wat |
| | Date | C/S C | | | | | | | | | | | | 552,2 | HAA5s Copper | | er Analy: |
| | Date/Time: | C/S Charge | | | | | | | | | | 1 | | Nitrate Nitrite | 2 | | ses (checi |
| | Recei | Temp 2 | Scals Present Yes | | | | X | | | | | + | | Eluori Inorga | nics | 70 | ing Water Analyses (check analysis) |
| | Received By: | °C/Ice | | | | | | | | _ | | | | тос, | ang. Index | cle) | ٦ |
| | | Samp | No N Head | 5 | + | + | + | • | × | $\frac{1}{1}$ | | ×. | | 1,4 | UV 254 (Circ | e | GO. |
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| L | | | | | | | | | | ŀ | \ | | | | ige Api | | 7/ |

Billings, MT 800.735.4489 • Casper, WY 888.235.0515

College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

ANALYTICAL SUMMARY REPORT

March 02, 2017

Colorado Analytical Laboratories inc PO Drawer 507 Brighton, CO 80601

Work Order:

C17020566

Quote ID: C4542 - 624, 625, 1,4-Dioxane

Project Name:

170217005 LFH-1 CO-0121724

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 2/21/2017

for analysis.

| Lab ID | Client Sample ID | Collect Date | Receive Date | Matrix | Test |
|---------------|--------------------|---------------|--------------|----------------|---|
| C17020566-001 | 170217005-01 LFH-1 | 02/16/17 0:00 | 02/21/17 | Drinking Water | Azeotropic Distilation Separatory Funnel Liquid-Liquid Ext Semi-Volatile Organic Compounds 624-Purgeable Organics Volatile Compounds by Azeotropic Distillation |

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

Digitally signed by Randy Horton

Date: 2017.03.02 10:49:28 -07:00

Billings, MT 800.735.4489 • Casper, WY 888.235.0515

College Station, TX 888.690.2218 - Gillette, WY 866.686.7175 - Helena, MT 877.472.0711

CLIENT: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

Report Date: 03/02/17

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project:

170217005 LFH-1 CO-0121724

Lab ID:

C17020566-001

Client Sample ID: 170217005-01 LFH-1

Report Date: 03/02/17

Collection Date: 02/16/17 DateReceived: 02/21/17

Matrix: Drinking Water

| Analyses | Result | Units Q | ualifiers RL | MCL/ QCL | Method | Analysis Date / By |
|--|--------------------|------------------|---------------------------|----------------|----------------|------------------------|
| VOCS BY AZEOTROPIC DISTILLATIO | N | | | | | |
| 1,4-Dioxane | ND | ug/L | 1.0 | | SW8260M | 02/27/17 11:16 / eli-b |
| Analysis by direct aqueous injection of the sar quantitate the 1,4-Dioxane and account for any | nple distillate. A | deuterated versi | on of 1,4-Dioxane wation. | as added to th | e sample prior | |
| VOLATILE ORGANIC COMPOUNDS | | | | | | |
| Acetone | ND | ug/L | 20 | | E624 | 02/24/17 19:19 / eli-b |
| Acetonitrile | ND | ug/L | 20 | | E624 | 02/24/17 19:19 / eli-b |
| Acrolein | ND | ug/L | 20 | | E624 | 02/24/17 19:19 / eli-b |
| Acrylonitrile | ND | ug/L | 20 | | E624 | 02/24/17 19:19 / eli-b |
| Benzene | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Bromobenzene | ND | ug/L | 1.0 | | E624 | 02/24/17 19:19 / ell-b |
| Bromochioromethane | ND | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Bromodichloromethane | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Bromoform | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Bromomethane | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Carbon disulfide | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Carbon tetrachloride | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Chlorobenzene | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Chlorodibromomethane | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Chloroethane | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| 2-Chloroethyl vinyl ether | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Chloroform | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Chloromethane | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| 2-Chlorotoluene | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| 4-Chlorotoluene | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| 1.2-Dibromoethane | | ug/L | 1.0 | | E624 | |
| Dibromomethene | | _ | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| 1,2-Dichlorobenzene | | ug/L | | | E624 | 02/24/17 19:19 / eli-b |
| 1,3-Dichlorobenzene | | ug/L | 1.0 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| 1,4-Dichlorobenzene | | ug/L | | | | 02/24/17 19:19 / eli-b |
| Dichlorodiflucromethane | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| 1.1-Dichloroethane | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| 1.2-Dichloroethane | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| 1,1-Dichloroethene | | ug/L | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| cls-1,2-Dichloroethene | | ug/L | 1.0 | | ≘624 | 02/24/17 19:19 / ell-b |
| trans-1,2-Dichloroethene | ND I | | 1.0 | | =624 | 02/24/17 19:19 / eli-b |
| 1,2-Dichloropropane | ND t | | 1.0 | | 624 | 02/24/17 19:19 / eli-b |
| 1,3-Dichloropropane | ND (| _ | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| 2,2-Dichloropropane | ND t | | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| 1,1-Dichloropropene | ND t | - | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| cis-1,3-Dichloropropene | ND (| _ | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| trans-1,3-Dichloropropene | ND (| - | 1.0 | | E624 | 02/24/17 19:19 / eli-b |
| Ethylbenzene | ND (| ug/L | 1.0 | E | E624 | 02/24/17 19:19 / eli-b |

RL - Analyte reporting limit.

Report Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc 170217005 LFH-1 CO-0121724

Project: Lab ID:

C17020566-001

Client Sample ID: 170217005-01 LFH-1

Report Date: 03/02/17

Collection Date: 02/16/17 DateReceived: 02/21/17

Matrix: Drinking Water

| Amalueae | Dani. M | Haita | Qualifica | D it | MCL/ QCL Method | Analysis Data / De- |
|--------------------------------|---------|--------------|------------|-------------|--------------------|------------------------|
| Analyses | Result | Units | Qualifiers | RL. | QCL Method | Analysis Date / By |
| VOLATILE ORGANIC COMPOUNDS | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | ug/L | 2 | 2.0 | E624 | 02/24/17 19:19 / eli-l |
| Methyl ethyl ketone | ND | ug/L | : | 20 | E624 | 02/24/17 19:19 / eli-l |
| Methyl isobutyl ketone | ND | ug/L | | 10 | E624 | 02/24/17 19:19 / eli-t |
| Methylene chloride | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-l |
| Naphthallene | ND | ug/L | 0 | .50 | E624 | 02/24/17 19:19 / eli-l |
| Styrene | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-t |
| Tetrachloroethene | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-l |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-b |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / ell-t |
| Toluene | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / ell-b |
| Trichioroethene | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-t |
| 1,1,1-Trichloroethane | ND | ug/L | | 1.0 | E624 | 02/24/17 19:19 / eli-b |
| 1,1,2-Trichloroethane | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-b |
| Frichlorofluoromethane | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-b |
| 1,2,3-Trichloropropane | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-t |
| /inyl Acetate | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-t |
| /inyl chloride | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-b |
| n+p-Xylenes | ND | ug/L | 1 | 1.0 | E624 | 02/24/17 19:19 / eli-b |
| -Xylene | ND | ug/L | | 1.0 | E624 | 02/24/17 19:19 / eli-t |
| Kylenes, Total | | ug/L | | 1.0 | E624 | 02/24/17 19:19 / eli-b |
| Surr: 1,2-Dichloroethane-d4 | | %REC | | -139 | E624 | 02/24/17 19:19 / eli-b |
| Surr: p-Bromofluorobenzene | | %REC | | -127 | E624 | 02/24/17 19:19 / eli-b |
| Surr: Toluene-d8 | 94.0 | %REC | 80- | -123 | E624 | 02/24/17 19:19 / eli-b |
| SEMI-VOLATILE ORGANIC COMPOU | NDS | | | | | |
| Acenaphthene | ND | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| Acenaphthylene | ND | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| Anthracene | ND | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| Zobenzene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| Benzidine | | ug/L | | 10 | E625 | 02/28/17 13:13 / eli-b |
| Benzo(a)anthracene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| Benzo(a)pyrene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| Benzo(b)fluoranthene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| Benzo(g,h,i)perylene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| Benzo(k)fluoranthene | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| -Bromophenyl phenyl ether | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| Butylbenzyiphthalate | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| -Chloro-3-methylphenol | | ug/L ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| is(-2-chloroethoxy)Methane | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| pis(-2-chloroethyl)Ether | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| vis(2-chloroisopropyl)Ether | | ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| 2-Chloronaphthaiene | | ug/L ug/L | | 10 | E625 | 02/27/17 19:27 / eli-b |
| OTHER REPUBLISHED | ND | ωB⊁ ⊏ | | i V | E020 | 02121111 18.21 1 ell-0 |

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.



College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project:

170217005 LFH-1 CO-0121724

Lab ID:

C17020566-001

Client Sample ID: 170217005-01 LFH-1

Report Date: 03/02/17 Collection Date: 02/16/17 DateReceived: 02/21/17

Matrix: Drinking Water

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL Me | thod | Analysis Date / By |
|-----------------------------|--------|-------|------------|--------|----------------|------|------------------------|
| SEMI-VOLATILE ORGANIC COMPO | PUNDS | | | | _ | | - |
| 4-Chlorophenyl phenyl ether | ND. | ug/L | | 10 | E6: | 25 | 02/27/17 19:27 / eli-b |
| Chrysene | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-t |
| Diethyl phthalate | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-t |
| Di-n-butyl phthalate | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| 1,2-Dichlorobenzene | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-k |
| 1,3-Dichlorobenzene | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / ell-t |
| 1.4-Dichlorobenzene | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-t |
| 3,3'-Dichlorobenzidine | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| 2,4-Dichlorophenol | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / ell-b |
| Dimethyl phthalate | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| Di-n-octyl phthalate | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-t |
| Dibenzo(a,h)anthracene | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| 2,4-Dimethylphenol | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-t |
| 4,6-Dinitro-2-methylphenol | ND | ug/L | | 50 | E6: | | 02/27/17 19:27 / eli-b |
| 2,4-Dinitrophenol | ND | ug/L | | 50 | E6: | | 02/27/17 19:27 / eli-b |
| 2.4-Dinitrotoluene | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / ell-b |
| 2,6-Dinitrotoluene | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / e(i-k |
| pis(2-ethylhexyl)Phthalate | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-t |
| Fluoranthene | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| Fluorene | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| Hexachlorobenzene | ND | ug/L | | 10 | E62 | | 02/27/17 19:27 / eli-b |
| -lexachlorobutadiene | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| Hexachlorocyclopentadiene | ND | ug/L | | 10 | E62 | | 02/27/17 19:27 / eli-b |
| Hexachloroethane | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| ndeno(1,2,3-cd)pyrene | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| sophorone | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| n-Nitrosodimethylamine | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| n-Nitroso-di-n-propylamine | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| -Nitrosodiphenylamine | ND | ug/L | | 10 | E62 | | 02/27/17 19:27 / eli-b |
| 2-Nitrophenol | ND | ug/L | | 10 | E6: | | 02/27/17 19:27 / eli-b |
| 4-Nitrophenol | ND | ug/L | | 50 | E62 | | 02/27/17 19:27 / eli-b |
| Naphthalene | ND | ug/L | | 10 | E62 | | 02/27/17 19:27 / eli-b |
| Vaprataiono | ND | ug/L | | 10 | E62 | | 02/27/17 19:27 / eli-b |
| Pentachiorophenol | ND | ug/L | | 50 | E62 | | 02/27/17 19:27 / eli-b |
| Phenanthrene | | ug/L | | 10 | E62 | | 02/27/17 19:27 / eli-b |
| Phenol | | ug/L | | 10 | E62 | | 02/27/17 19:27 / eli-b |
| Pyrene | | ug/L | | 10 | E62 | | 02/27/17 19:27 / eli-b |
| 1.2.4-Trichiorobenzene | | ug/L | | 10 | E62 | | 02/27/17 19:27 / eli-b |
| 2,4,6-Trichlorophenol | | ug/L | | 10 | E62 | | 02/27/17 19:27 / eli-b |
| Surr: 2-Fluorobiphenyi | | %REC | | 28-107 | E62 | | 02/27/17 19:27 / eli-b |
| Surr: 2-Fluorophenol | | %REC | | 20-56 | E62 | | 02/27/17 19:27 / eli-b |
| Surr: Nitrobenzene-d5 | | %REC | | 32-94 | E62 | | 02/27/17 19:27 / eli-b |
| Surr: Phenol-d5 | | %REC | | 19-45 | E62 | | 02/27/17 19:27 / eli-b |

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project: Lab ID: 170217005 LFH-1 CO-0121**724** C17020566-001

Client Sample ID: 170217005-01 LFH-1

470047005 04 | 51

Report Date: 03/02/17

Collection Date: 02/16/17 DateReceived: 02/21/17

Matrix: Drinking Water

| Analyses | Result Units | Qualifiers I | MCL/ RL QCL Method | Analysis Date / By |
|-----------------------------|--------------|--------------|-----------------------|--|
| SEMI-VOLATILE ORGANIC COMPO | DUNDS | | | |
| | | | | |
| Surr: Terphenyl-d14 | 69.0 %REC | 32 | 122 E625 | 02/27/17 19:27 / eli-b |
| | | | 122 E625 130 E625 | 02/27/17 19:27 / eli-b 02/27/17 19:27 / eli-b |

Report Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories inc Project: 170217005 LFH-1 CO-0121724 Report Date: 03/02/17
Work Order: C17020566

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|---------------|-----------------|-----------------|------|-----------|------------|-----|---------------|------------|
| Method: E624 | ··· | | | | | | An | alytical Run: | R275391 |
| Lab ID: ccv022417 | Continuing Ca | ilibration Veri | fication Standa | ırd | | | | 02/24 | l/17 09:51 |
| Acetone | 40.8 | ug/L | 20 | 82 | 70 | 130 | | | |
| Acetonitrile | 60.0 | ug/L | 20 | 120 | 70 | 130 | | | |
| Acrolein | 59.2 | ug/L | 20 | 118 | 70 | 130 | | | |
| Acrylonitrile | 46.4 | ug/L | 20 | 93 | 70 | 130 | | | |
| Benzene | 4.80 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| Bromobenzene | 4,56 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| Bromochloromethane | 4.64 | ug/L | 0.50 | 93 | 70 | 130 | | | |
| Bromodichloromethane | 4.08 | ug/L | 0.50 | 62 | 70 | 130 | | | |
| Bromoform | 4.08 | ug/L | 0.50 | 82 | 70 | 130 | | | |
| Bromomethane | 5.56 | ug/L | 0.50 | 111 | 70 | 130 | | | |
| Carbon disulfide | 4.80 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| Carbon tetrachloride | 3.70 | ug/L | 0.50 | 74 | 70 | 130 | | | |
| Chiorobenzene | 4.80 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| Chlorodibromomethane | 4.32 | ug/L | 0.50 | 86 | 70 | 130 | | | |
| Chloroethane | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 2-Chloroethyl vinyl ether | 3.07 | ug/L | 1.0 | 61 | 70 | 130 | | | S |
| Chloroform | 4.36 | ug/L | 0.50 | 87 | 70 | 130 | | | |
| Chloromethane | 4.60 | ug/L | 0.50 | 92 | 70 | 130 | | | |
| 2-Chlorotoluene | 4.84 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| 4-Chlorotoluene | 4.80 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| 1,2-Dibromoethane | 4.40 | ug/L | 0.50 | 88 | 70 | 130 | | | |
| Dibromomethane | 4.60 | ug/L | 0.50 | 92 | 70 | 130 | | | |
| 1,2-Dichlorobenzene | 4.72 | ug/L | 0.50 | 94 | 70 | 130 | | | |
| 1,3-Dichlorobenzene | 4.84 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| 1,4-Dichlorobenzene | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| Dichlorodifluoromethane | 3.87 | ug/L | 0.50 | 77 | 70 | 130 | | | |
| 1,1-Dichloroethane | 4.40 | ug/L | 0.50 | 88 | 70 | 130 | | | |
| 1,2-Dichloroethane | 3.78 | ug/L | 0.50 | 76 | 70 | 130 | | | |
| 1,1-Dichloroethene | 4.20 | ug/L | 0.50 | 84 | 70 | 130 | | | |
| cis-1,2-Dichloroethene | 4.72 | ug/L | 0.50 | 94 | 70 | 130 | | | |
| trans-1,2-Dichloroethene | 4.64 | ug/L | 0.50 | 93 | 70 | 130 | | | |
| 1,2-Dichioropropane | 5.20 | ug/L | 0.50 | 104 | 70 | 130 | | | |
| 1,3-Dichloropropane | 4.64 | ug/L | 0.50 | 93 | 70 | 130 | | | |
| 2,2-Dichloropropane | 3.92 | ug/L | 0.50 | 78 | 70 | 130 | | | |
| 1,1-Dichloropropene | 4.40 | ug/L | 0.50 | 88 | 70 | 130 | | | |
| cis-1,3-Dichloropropene | 4.56 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| trans-1,3-Dichloropropene | 4.04 | ug/L | 0.50 | 81 | 70 | 130 | | | |
| Ethylbenzene | 4.84 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 3.68 | ug/L | 0.50 | 74 | 70 | 130 | | | |
| Methyl ethyl ketone | 42.8 | ug/L | 20 | 86 | 70 | 130 | | | |
| Methyl isobutyl ketone | 45.6 | ug/L | 20 | 91 | 70 | 130 | | | |
| Methylene chloride | 5.44 | ug/L | 0.50 | 109 | 70 | 130 | | | |
| Naphthalene | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Work Order: C17020566

Project: 170217005 LFH-1 CO-0121724

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------|-------------------|---------------|---------------------|-------------|------|------------|-------------|-----|----------------|-----------|
| Method: | E624 | | | | | | | Ar | nalytical Run: | R275391 |
| Lab ID: | ccv022417 | Continuing Ca | alibration Verifica | tion Standa | ard | | | | 02/24 | /17 09:51 |
| Styrene | | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| Tetrachloro | ethene | 4.60 | ug/L | 0.50 | 92 | 70 | 130 | | | |
| 1, 1, 1, 2-Tetr | achloroethane | 4.24 | ug/L | 0.50 | 85 | 70 | 130 | | | |
| 1, 1,2,2-Tetr | achloroethane | 4.96 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| Toluene | | 4.96 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| Trichloroeth | ene | 4.80 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| 1,1,1-Trichle | proethane | 3.75 | ug/L | 0.50 | 75 | 70 | 130 | | | |
| 1,1,2-Trichle | proethane | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| Trichlorofluc | promethane | 3.34 | ug/L | 0.50 | 67 | 70 | 130 | | | S |
| 1,2,3-Trichic | oropropane | 4.20 | ug/L | 0.50 | 84 | 70 | 130 | | | |
| Vinyl Acetat | le | 4.56 | ug/L | 1.0 | 91 | 70 | 130 | | | |
| Vinyl chlorid | le | 4.84 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| m+p-Xylene | \$ | 9.76 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| o-Xylene | | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| Xylenes, To | tal | 14.5 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| Surr: 1,2- | Dichloroethane-d4 | | | 0.50 | 74 | 71 | 139 | | | |
| Surr: p-Bi | romofluorobenzene | | | 0.50 | 88 | 80 | 127 | | | |
| Surr: Tolu | lene-d8 | | | 0.50 | 92 | 80 | 123 | | | |
| Method: | E624 | | | | | | | | Batch: | R275391 |
| Lab ID: | cs022417 | Laboratory Co | ntroi Sample | | | Run: 5971/ | A.I_170224A | | 02/24 | /17 10:31 |
| Acetone | | 41.6 | ug/L | 20 | 83 | 55 | 144 | | | |

| Method: E624 | | | | | | | Batch: R275391 |
|--------------------------|----------------|---------------|------|-----|---------------|---------|----------------|
| Lab ID: cs02241 | 7 Laboratory C | ontroi Sample | | F | Run: 5971A.l_ | 170224A | 02/24/17 10:31 |
| Acetone | 41.6 | ug/L | 20 | 83 | 55 | 144 | |
| Acetonitrile | 60.4 | ug/L | 20 | 121 | 54 | 142 | |
| Acrolein | 49.6 | ug/L | 20 | 99 | 16 | 233 | |
| Acrylonitrile | 46.0 | ug/L | 20 | 92 | 76 | 127 | |
| Benzene | 4.96 | ug/L | 0.50 | 99 | 73 | 122 | |
| Bromobenzene | 4.76 | ug/L | 0.50 | 95 | 74 | 129 | |
| Bromochloromethane | 4.64 | ug/L | 0.50 | 93 | 66 | 120 | |
| Bromodichloromethane | 4.44 | ug/L | 0.50 | 89 | 74 | 128 | |
| Bromoform | 4.36 | ug/L | 0.50 | 87 | 66 | 128 | |
| Bromomethane | 5.76 | ug/L | 0.50 | 115 | 51 | 123 | |
| Carbon disulfide | 4.92 | ug/L | 0.50 | 98 | 46 | 145 | |
| Carbon tetrachloride | 3.80 | ug/L | 0.50 | 76 | 75 | 125 | |
| Chiorobenzene | 4.92 | u g /L | 0.50 | 98 | 80 | 123 | |
| Chlorodibromomethan | 4.64 | u g /L | 0.50 | 93 | 74 | 125 | |
| Chloroethane | 5.04 | ug/L | 0.50 | 101 | 59 | 142 | |
| 2-Chloroethyl vinyl ethe | 2.74 | ug/L | 1.0 | 55 | 36 | 144 | |
| Chloroform | 4.40 | ug/L | 0.50 | 88 | 68 | 124 | |
| Chloromethane | 4.64 | ug/L | 0.50 | 93 | 53 | 146 | |
| 2-Chiorotoluene | 5.04 | ug/L | 0.50 | 101 | 75 | 131 | |
| 4-Chlorotoluene | 4.68 | ug/L | 0.50 | 94 | 74 | 129 | |
| 1,2-Dibromoethane | 4.40 | ug/L | 0.50 | 88 | 76 | 124 | |
| Dibromomethane | 4.76 | ug/L | 0.50 | 95 | 77 | 125 | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17
Work Order: C17020566

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|---------------|--------------|------|------|------------|-------------|-----|----------|-----------|
| Method: E624 | · · · · · | | | | | | | Batch: | R275391 |
| Lab ID: 1cs022417 | Laboratory Co | ntrol Sample | | | Run: 5971 | A.I_170224A | | 02/24 | /17 10:31 |
| 1,2-Dichlorobenzene | 4.80 | ug/L | 0.50 | 96 | 74 | 124 | | | |
| 1,3-Dichlorobenzene | 5.00 | ug/L | 0.50 | 100 | 77 | 122 | | | |
| 1,4-Dichlorobenzene | 4.80 | ug/L | 0.50 | 96 | 76 | 126 | | | |
| Dichlorodifluoromethane | 4.36 | ug/L | 0.50 | 87 | 56 | 146 | | | |
| 1,1-Dichloroethane | 4.56 | ug/L | 0.50 | 91 | 74 | 133 | | | |
| 1,2-Dichloroethane | 3.76 | ug/L | 0.50 | 75 | 75 | 129 | | | |
| 1,1-Dichloroethene | 4.28 | ug/L | 0.50 | 86 | 74 | 132 | | | |
| cis-1,2-Dichloroethene | 4.76 | ug/L | 0.50 | 95 | 81 | 122 | | | |
| trans-1,2-Dichloroethene | 5.08 | ug/L | 0.50 | 102 | 79 | 143 | | | |
| 1,2-Dichloropropane | 5.20 | ug/L | 0.50 | 104 | 75 | 126 | | | |
| 1,3-Dichloropropane | 4.32 | ug/L | 0.50 | 86 | 71 | 136 | | | |
| 2,2-Dichloropropane | 4.00 | ug/L | 0.50 | 80 | 68 | 142 | | | |
| 1,1-Dichloropropene | 4.16 | ug/L | 0.50 | 83 | 70 | 131 | | | |
| cis-1,3-Dichloropropene | 4.12 | ug/L | 0.50 | 82 | 74 | 135 | | | |
| trans-1,3-Dichloropropene | 3.96 | ug/L | 0.50 | 79 | 76 | 149 | | | |
| Ethylbenzene | 4.92 | ug/L | 0.50 | 98 | 72 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 3.71 | ug/L | 0.50 | 74 | 72 | 120 | | | |
| Methyl ethyl ketone | 45.2 | ug/L | 20 | 90 | 45 | 130 | | | |
| Methyl isobutyl ketone | 49.2 | ug/L | 20 | 98 | 58 | 135 | | | |
| Methylene chloride | 5.64 | ug/L | 0.50 | 113 | 66 | 142 | | | |
| Naphthalene | 5.44 | ug/L | 0.50 | 109 | 69 | 124 | | | |
| Styrene | 4.84 | ug/L | 0.50 | 97 | 80 | 124 | | | |
| Tetrachloroethene | 4.68 | ug/L | 0.50 | 94 | 72 | 131 | | | |
| 1,1,1,2-Tetrachioroethane | 4.16 | ug/L | 0.50 | 83 | 78 | 124 | | | |
| 1,1,2,2-Tetrachioroethane | 4.72 | ug/L | 0.50 | 94 | 68 | 137 | | | |
| Toluene | 5.16 | ug/L | 0.50 | 103 | 72 | 135 | | | |
| Trichloroethene | 4.80 | ug/L | 0.50 | 96 | 85 | 126 | | | |
| 1,1,1-Trichloroethane | 3.73 | ug/L | 0.50 | 75 | 63 | 120 | | | |
| 1,1,2-Trichloroethane | 4.68 | ug/L | 0.50 | 94 | 78 | 124 | | | |
| Trichiorofluoromethane | 3.30 | ug/L | 0.50 | 66 | 72 | 120 | | | s |
| 1,2,3-Trichloropropane | 4.04 | ug/L | 0.50 | 81 | 64 | 138 | | | • |
| Vinyl Acetate | 4.08 | ug/L | 1.0 | 82 | 31 | 124 | | | |
| Vinyl chloride | 5.12 | ug/L | 0.50 | 102 | 58 | 140 | | | |
| m+p-Xylenes | 9.84 | ug/L | 0.50 | 98 | 67 | 139 | | | |
| o-Xylene | 4.84 | ug/L | 0.50 | 97 | 74 | 135 | | | |
| Xylenes, Total | 14.7 | ug/L | 0.50 | 98 | 70 | 137 | | | |
| Surr: 1,2-Dichloroethane-d4 | | | 0.50 | 72 | 71 | 139 | | | |
| Surr: p-Bromofluorobenzene | | | 0.50 | 87 | 80 | 127 | | | |
| Surr: Toluene-d8 | | | 0.50 | 92 | 80 | 123 | | | |
| Lab ID: bik022417 | Method Blank | | | | Run: 5971A | .l_170224A | | 02/24/ | 17 11:30 |
| Acetone | ND | ug/L | 20 | | | _ | | | |
| Acetonitrile | ND | ug/L | 20 | | | | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

College Station, TX 888.690.2218 - Gillette, WY 866.686.7175 - Helena, MT 877.472.0711

QA/QC Summary Report Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

| Analyte | | | | | | | | | | |
|--|---------------|-----------------|--------------|-------|------|----------------|------------|-----|----------|-----------|
| Lab ID: blk022417 Method Blank Quf. 20 | Analyte | | Result | Units | RL | %REC Low Limit | High Limit | RPD | RPDLimit | Qual |
| Activatifies | Method: | E624 | | | | | | | Batch: | R275391 |
| Acytomitrite ND ug/L 0.50 Benzene ND ug/L 0.50 Bromochioromethane ND ug/L 0.50 Bromochioromethane ND ug/L 0.50 Bromochioromethane ND ug/L 0.50 Bromoform ND ug/L 0.50 Bromoformethane ND ug/L 0.50 Carbon disulfide ND ug/L 0.50 Carbon tetrachloride ND ug/L 0.50 Chlorodibromomethane ND ug/L 0.50 Chlorodibromomethane ND ug/L 0.50 Chlorodibromomethane ND ug/L 0.50 Chlorodomy (my) ether ND ug/L 0.50 Chlorotofuren ND ug/L 0.50 2-Chlorotofuren ND ug/L 0.50 2-Chlorotofuren ND ug/L 0.50 1,2-Dichiorothane ND ug/L 0.50 1,2-Dichiorothane < | Lab ID: | blk022417 | Method Blank | | | Run: 5971A. | I_170224A | | 02/24 | /17 11:30 |
| Benzene ND ug/L 0.50 Bromobenzene ND ug/L 0.50 Bromodichloromethane ND ug/L 0.50 Bromodichloromethane ND ug/L 0.50 Bromodichloromethane ND ug/L 0.50 Bromodisulfide ND ug/L 0.50 Carbon disulfide ND ug/L 0.50 Chlorobenzene ND ug/L 0.50 Chloromethane ND ug/L 0.50 L,2-Dibromoethane ND ug/L 0.50 Dibromomethane ND ug/L 0.50 L,2-Dichiorobenzene ND ug/L< | Acrolein | | ND | ug/L | 20 | | | | | |
| Bromochinormethane ND | Acrylonitrile | 8 | ND | ug/L | 3.0 | | | | | |
| Bromochloromethane ND ug/L 0.50 Bromoclohloromethane ND ug/L 0.50 Bromodom ND ug/L 0.50 Bromodisunfide ND ug/L 0.50 Carbon laterabloride ND ug/L 0.50 Chlorodenzene ND ug/L 0.50 Chlorodelioromomethane ND ug/L 0.50 Chlorodelioromomethane ND ug/L 0.50 Chlorodelioromomethane ND ug/L 0.50 Chloroform ND ug/L 0.50 Chloroformethane ND ug/L 0.50 L,2-Dichlorobenzane ND ug/L 0.50 L,4-Dichlorobenzane ND | Benzene | | ND | ug/L | 0.50 | | | | | |
| Bromodichloromethane | Bromobenz | zene | ND | ug/L | 0.50 | | | | | |
| Bromoform ND ug/L 0.50 Bromomethane ND ug/L 0.50 Carbon disulfide ND ug/L 0.50 Carbon tetrachloride ND ug/L 0.50 Chiorodibromomethane ND ug/L 0.50 Chloroethy in viryl ether ND ug/L 0.50 Chloroethy living ether ND ug/L 0.50 Chloroethy living ether ND ug/L 0.50 Chloroethy living ether ND ug/L 0.50 Chloroethy living ether ND ug/L 0.50 Chloroethy living ether ND ug/L 0.50 Chloroethy living ether ND ug/L 0.50 Chloroethy living ether ND ug/L 0.50 Chloroethy living ether ND ug/L 0.50 Chloroethy living ether ND ug/L 0.50 Labor living ether ND ug/L 0.50 Labor living ether ND ug/L 0 | Bromochlo | romethane | ND | ug/L | 0.50 | | | | | |
| Bromomethane | Bromodich | loromethane | ND | ug/L | 0.50 | | | | | |
| Carbon disulfide ND ug/L 0.50 Carbon tetrachioride ND ug/L 0.50 Chlorodibromomethane ND ug/L 0.50 Chlorodibromomethane ND ug/L 0.50 Chloroform ND ug/L 1.0 Chloroform ND ug/L 0.50 Chloroform ND ug/L 0.50 Chloroformethane ND ug/L 0.50 Chlorofoluene ND ug/L 0.50 4-Chlorotoluene ND ug/L 0.50 4-Chlorotoluene ND ug/L 0.50 4-Chlorotoluene ND ug/L 0.50 1,2-Dishomeethane ND ug/L 0.50 1,2-Dishorotebane ND ug/L 0.50 1,3-Dishorotebaneae ND ug/L 0.50 Dichlorotebane ND ug/L 0.50 1,1-Dishorotebane ND ug/L 0.50 1,1-Dishorotebane ND | Bromoform | 1 | ND | ug/L | 0.50 | | | | | |
| Carbon tetrachloride ND ug/L 0.50 Chloroderazene ND ug/L 0.50 Chloroethyne ND ug/L 0.50 Chloroethyne ND ug/L 0.50 2-Chloroethyl vinyl ether ND ug/L 0.50 Chloromethane ND ug/L 0.50 Chlorotoluene ND ug/L 0.50 2-Chlorotoluene ND ug/L 0.50 4-Chlorotoluene ND ug/L 0.50 1,2-Dibromethane ND ug/L 0.50 1,2-Dibriorobenzene ND ug/L 0.50 1,2-Dichlorobenzene ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzen | Bromometi | hane | ND | ug/L | 0.50 | | | | | |
| Chloroberzene ND ug/L 0.50 Chlorodibromomethane ND ug/L 0.50 Chlorodibrane ND ug/L 0.50 2-Chloroform ND ug/L 0.50 Chloroform ND ug/L 0.50 Chlorotoluene ND ug/L 0.50 4-Chlorotoluene ND ug/L 0.50 4-Chlorotoluene ND ug/L 0.50 4-Chlorotoluene ND ug/L 0.50 1,2-Dibromoethane ND ug/L 0.50 1,2-Dichlorotehane ND ug/L 0.50 1,2-Dichlorotehane ND ug/L 0.50 1,3-Dichlorotehane ND ug/L 0.50 1,1-Dichlorotehane ND ug/L 0.50 1,1-Dichlorotehane ND ug/L 0.50 taran-1,2-Dichlorotehane ND ug/L 0.50 taran-1,2-Dichlorotehane ND ug/L 0.50 taran-1,2-Dichloropropane | Carbon dis | ulfide | ND | ug/L | 0.50 | | | | | |
| Chlorodibromomethane ND ug/L 0.50 Chloroethane ND ug/L 0.50 2-Chloroethyl vinyl ether ND ug/L 0.50 Chloroform ND ug/L 0.50 Chloroethane ND ug/L 0.50 2-Chlorotoluene ND ug/L 0.50 4-Chlorotoluene ND ug/L 0.50 1,2-Dibromoethane ND ug/L 0.50 Dibromoethane ND ug/L 0.50 1,2-Dichlorobenzene ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 trans-1,2-Dichloroeth | Carbon tetr | rachloride | ND | | 0.50 | | | | | |
| Chlorodibromomethane ND ug/L 0.50 Chloroethane ND ug/L 0.50 2-Chloroethyl vinyl ether ND ug/L 0.50 Chloroform ND ug/L 0.50 Chlorobluene ND ug/L 0.50 2-Chlorobluene ND ug/L 0.50 4-Chlorobluene ND ug/L 0.50 1,2-Dibromethane ND ug/L 0.50 Dibromomethane ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 1,4-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,2-Dichloroethene ND ug/L 0.50 trans-1,2-Dichloroethene ND ug/L 0.50 1,2-Dichloropropa | Chlorobenz | zene | ΝD | ug/L | 0.50 | | | | | |
| Chloroethane ND ug/L 0.50 2-Chlorotothy vinyl ether ND ug/L 1.0 Chloromethane ND ug/L 0.50 Chloromethane ND ug/L 0.50 2-Chlorotoluene ND ug/L 0.50 4-Chiorotoluene ND ug/L 0.50 1,2-Dibromoethane ND ug/L 0.50 Dibromomethane ND ug/L 0.50 1,2-Dichlorobenzene ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 Dichlorodfluoromethane ND ug/L 0.50 1,1-Dichlorobenzene ND ug/L 0.50 1,1-Dichlorocthane ND ug/L 0.50 1,1-Dichlorocthane ND ug/L 0.50 1,2-Dichlorocthene ND ug/L 0.50 1,2-Dichloro | Chlorodibro | omomethane | ND | | 0.50 | | | | | |
| 2-Chloroethyl vinyl ether ND ug/L 1.0 Chloroform ND ug/L 0.50 Chlorotoluene ND ug/L 0.50 2-Chlorotoluene ND ug/L 0.50 1,2-Dibromoethane ND ug/L 0.50 1,2-Dibromoethane ND ug/L 0.50 1,2-Dichlorobenzene ND ug/L 0.50 1,2-Dichlorobenzene ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 1,4-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,3-Dich | Chloroetha | ne | | _ | | | | | | |
| Chloroform ND ug/L 0.50 Chloromethane ND ug/L 0.50 2-Chlorotoluene ND ug/L 0.50 4-Chlorotoluene ND ug/L 0.50 1,2-Dibromoethane ND ug/L 0.50 Dibromomethane ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,3-Dichlorothane ND ug/L 0.50 1,4-Dichlorothane ND ug/L 0.50 1,1-Dichlorothane ND ug/L 0.50 1,2-Dichlorothane ND ug/L 0.50 1,2-Dichlorothane <t< td=""><td>2-Chloroeth</td><td>nyl vinyl ether</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | 2-Chloroeth | nyl vinyl ether | | | | | | | | |
| Chloromethane ND ug/L 0.50 2-Chlorotoluene ND ug/L 0.50 4-Chlorotoluene ND ug/L 0.50 1,2-Dibromoethane ND ug/L 0.50 Dibromomethane ND ug/L 0.50 1,2-Dichlorobenzene ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 Dichlorodifluoromethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 trans-1,2-Dichloroethane ND ug/L 0.50 trans-1,2-Dichloroethane ND ug/L 0.50 trans-1,2-Dichloropropane ND ug/L 0.50 1,1-Dichloropropane ND ug/L 0.50 | | | | | | | | | | |
| 2-Chlorotoluene ND ug/L 0.50 4-Chlorotoluene ND ug/L 0.50 1,2-Dibromoethane ND ug/L 0.50 Dibromomethane ND ug/L 0.50 1,2-Dichlorobenzene ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroptopane ND ug/L 0.50 1,2-Dichloroptopane ND ug/L 0.50 1,1-Di | Chlorometh | nane | | | | | | | | |
| 4-Chlorotoluene ND ug/L 0.50 1,2-Dibromoethane ND ug/L 0.50 Dibromomethane ND ug/L 0.50 1,2-Dichlorobenzene ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethene ND ug/L 0.50 1,2-Dichloroethene ND ug/L 0.50 1,2-Dichloroethene ND ug/L 0.50 1,2-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.30 1,1-Dichloropropene ND ug/L 0.30 1,1-Dichloropropene ND ug/L 0.50 1 | 2-Chlorotol | uene | | _ | | | | | | |
| 1,2-Dibromoethane ND ug/L 0.50 Dibromomethane ND ug/L 0.50 1,2-Dichlorobenzene ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 Dichlorodifluoromethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,2-Dichloropropane ND ug/L 0.50 1,2-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.30 trans-1,3-Dichloropropane ND ug/L 0.30 | 4-Chlorotol | uene | | | | | | | | |
| Dibromomethane ND ug/L 0.50 1,2-Dichlorobenzene ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 Dichlorodifluoromethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,2-Dichloropropene ND ug/L 0.50 1,2-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.30 trans-1,3-Dichloropropane ND ug/L 0.30 Ethylbenzene ND ug/L 0.50 | | | | | | | | | | |
| 1,2-Dichlorobenzene ND ug/L 0.50 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 Dichlorodifluoromethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 cis-1,2-Dichloroethane ND ug/L 0.50 trans-1,2-Dichloroethane ND ug/L 0.50 trans-1,2-Dichloropropane ND ug/L 0.50 1,2-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 cls-1,3-Dichloropropane ND ug/L 0.50 cls-1,3-Dichloropropane ND ug/L 0.30 trans-1,3-Dichloropropane ND ug/L 0.30 trans-1,3-Dichloropropane ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl isobutyl ketone ND ug/L | | | | | | | | | | |
| 1,3-Dichlorobenzene ND ug/L 0.50 1,4-Dichlorobenzene ND ug/L 0.50 Dichlorodifluoromethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,1-Dichloroethene ND ug/L 0.50 cis-1,2-Dichloroethene ND ug/L 0.50 trans-1,2-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 cls-1,3-Dichloropropane ND ug/L 0.50 cls-1,3-Dichloropropane ND ug/L 0.30 trans-1,3-Dichloropropane ND ug/L 0.30 trans-1,3-Dichloropropane ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl isobutyl ketone ND ug/L 0.50 Methylene chloride ND ug/L | 1,2-Dichlore | obenzene | | | | | | | | |
| 1,4-Dichlorobenzene ND ug/L 0.50 Dichlorodiffuoromethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,1-Dichloroethene ND ug/L 0.50 trans-1,2-Dichloroethene ND ug/L 0.50 1,2-Dichloroptopane ND ug/L 0.50 1,2-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 2,2-Dichloropropane ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.50 cls-1,3-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.30 Ethylbenzene ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl stohure ND ug/L 20 Methyl stohure ND ug/L 20 Methyl stohure ND ug/L 20 | - | | | | | | | | | |
| Dichlorodifiuoromethane ND ug/L 0.50 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,1-Dichloroethene ND ug/L 0.50 cis-1,2-Dichloroethene ND ug/L 0.50 1,2-Dichloropthane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 2,2-Dichloropropane ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.30 Ethylbenzene ND ug/L 0.50 Methyl ether (MTBE) ND ug/L 0.50 Methyl tethologide ND ug/L 20 Methylene chloride ND ug/L 0.50 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | | | | | |
| 1,1-Dichloroethane ND ug/L 0.50 1,2-Dichloroethane ND ug/L 0.50 1,1-Dichloroethene ND ug/L 0.50 cis-1,2-Dichloroethene ND ug/L 0.50 1,2-Dichloropthene ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 2,2-Dichloropropane ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.50 cls-1,3-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl setone ND ug/L 20 Methyl ketone ND ug/L 0.50 ND | | | | | | | | | | |
| 1,2-Dichloroethane ND ug/L 0.50 1,1-Dichloroethene ND ug/L 0.50 cis-1,2-Dichloroethene ND ug/L 0.50 trans-1,2-Dichloroethene ND ug/L 0.50 1,2-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 2,2-Dichloropropane ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.50 cls-1,3-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl sobutyl ketone ND ug/L 20 Methyl isobutyl ketone ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| 1,1-Dichloroethene ND ug/L 0.50 cis-1,2-Dichloroethene ND ug/L 0.50 trans-1,2-Dichloroethene ND ug/L 0.50 1,2-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 2,2-Dichloropropene ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.30 cls-1,3-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 20 Methyl isobutyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| cis-1,2-Dichloroethene ND ug/L 0.50 trans-1,2-Dichloroptopane ND ug/L 0.50 1,2-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 2,2-Dichloropropane ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.30 cls-1,3-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl tetr-butyl ether (MTBE) ND ug/L 20 Methyl isobutyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| trans-1,2-Dichloroethene ND ug/L 0.50 1,2-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 2,2-Dichloropropane ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.50 cls-1,3-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.50 Methyl benzene ND ug/L 0.50 Methyl tetr-butyl ether (MTBE) ND ug/L 0.50 Methyl isobutyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| 1,2-Dichloropropane ND ug/L 0.50 1,3-Dichloropropane ND ug/L 0.50 2,2-Dichloropropane ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.50 cis-1,3-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.50 Methyl benzene ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl sethyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| 1,3-Dichloropropane ND ug/L 0.50 2,2-Dichloropropane ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.50 cls-1,3-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.50 Methyl benzene ND ug/L 0.50 Methyl etert-butyl ether (MTBE) ND ug/L 0.50 Methyl sethyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | _ | | | | | | |
| 2,2-Dichloropropane ND ug/L 0.50 1,1-Dichloropropene ND ug/L 0.50 cls-1,3-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.50 Ethylbenzene ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl ethyl ketone ND ug/L 20 Methyl isobutyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | • • | | | | | | | | |
| 1,1-Dichloropropene ND ug/L 0.50 cls-1,3-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.30 Ethylbenzene ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl sethyl ketone ND ug/L 20 Methyl isobutyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| cis-1,3-Dichloropropene ND ug/L 0.30 trans-1,3-Dichloropropene ND ug/L 0.30 Ethylbenzene ND ug/L 0.50 Methyl ether (MTBE) ND ug/L 0.50 Methyl ethyl ketone ND ug/L 20 Methyl isobutyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | - Jr Jr | | _ | | | | | | |
| trans-1,3-Dichloropropene ND ug/L 0.30 Ethylbenzene ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl ethyl ketone ND ug/L 20 Methyl isobutyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| Ethylbenzene ND ug/L 0.50 Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl ethyl ketone ND ug/L 20 Methyl isobutyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| Methyl tert-butyl ether (MTBE) ND ug/L 0.50 Methyl ethyl ketone ND ug/L 20 Methyl isobutyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| Methyl ethyl ketone ND ug/L 20 Methyl isobutyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | - | | | | | | | | | |
| Methyl isobutyl ketone ND ug/L 20 Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| Methylene chloride ND ug/L 0.50 Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| Naphthalene ND ug/L 0.50 Styrene ND ug/L 0.50 | | | | | | | | | | |
| Styrene ND ug/L 0.50 | - | | | | | | | | | |
| | - | • | | | | | | | | |
| TIP ASIE U.UU | _ | ethene | | | | | | | | |
| | . 304311010 | | 110 | «Aır | | | | | | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

al Laboratories inc

Report Date: 03/02/17
Work Order: C17020566

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--|---|-----------------------|--------------------|-------------|-----------|-----------------|-----------------|----------|----------------|------------|
| Method: | E624 | | <u></u> | | | | | | Batch: | R27539 |
| Lab ID: | blk022417 | Method Blank | | | | Run: 5971/ | A.i_170224A | | 02/24 | l/17 11:30 |
| 1,1,1,2-Tel | trachloroethane | ND | ug/L | 0.50 | | | | | | |
| 1, 1,2,2-Tet | trachloroethane | ND | ug/L | 0.50 | | | | | | |
| Toluene | | ND | ug/L | 0.50 | | | | | | |
| Trichloroet | hene | ND | ug/L | 0.50 | | | | | | |
| i,1,1-Trich | loroethane | ND | ug/L | 0.50 | | | | | | |
| 1,1,2-Trich | loroethane | ND | ug/L | 0.50 | | | | | | |
| Frichloroflu | roromethane | ND | ug/L | 0.50 | | | | | | |
| 1,2,3-Trich | ioropropane | ND | ug/L | 0.50 | | | | | | |
| /inyl Aceta | ate | ND | ug/L | 1.0 | | | | | | |
| /inyl chlori | ide | ND | ug/L | 0.40 | | | | | | |
| n+p-Xylen | es | ND | ug/L | 0.50 | | | | | | |
| -Xylene | | ND | ug/L | 0.50 | | | | | | |
| (ylenes, T | otal | ND | ug/L | 0.50 | | | | | | |
| Surr: 1,2 | 2-Dichloroethane-d4 | | | 0.50 | 74 | 71 | 139 | | | |
| Surr: p-E | Bromofluorobenzene | | | 0.50 | 90 | 80 | 127 | | | |
| Surr: To | luene-d8 | | | 0.50 | 94 | 80 | 123 | | | |
| ab ID: | b17021110-001bms | Sample Matrix | Spike | | | Run: 5971 | A.I_170224A | | 02/24 | /17 20:47 |
| crolein | | ND | ug/L | 20 | 0 | 16 | 233 | | | S 1 |
| crylonitrile | ė | 48.8 | ug/L | 20 | 98 | 76 | 127 | | | |
| -Chloroeti | hyl vinyl ether | 3.44 | ug/L | 1.0 | 69 | 36 | 144 | | | |
| Surr: 1,2 | l-Dichloroethane-d4 | | | 0.50 | 80 | 71 | 139 | | | |
| Surr: p-E | Bromofluorobenzene | | | 0.50 | 95 | 80 | 127 | | | |
| Surr: Tol | luene-d8 | | | 0.50 | 100 | 80 | 123 | | | |
| | s a known very reactive compour mple matrix. | nd. The recovery of t | his compound was n | ormal in th | e Laborat | ory Control Sar | mple (LCS). The | compound | appears to hav | ve reacted |
| .ab ID: | b17021110-001bmsd | Sample Matrix | Spike Duplicate | | | Run: 5971A | \.[_170224A | | 02/24 | /17 21:16 |
| \crolein | | ND | ug/L | 20 | 0 | 16 | 233 | | 20 | S 1 |
| crylonitriie | 9 | 48.8 | ug/L | 20 | 98 | 76 | 127 | 0.0 | 20 | |
| -Chloroett | nyl vinyl ether | 3.66 | ug/L | 1.0 | 73 | 36 | 144 | 6.1 | 20 | |
| Surr: 1,2 | -Dichloroethane-d4 | | | 0.50 | 81 | 71 | 139 | | | |
| Surr. p-E | 3romofluorobenzene | | | 0.50 | 96 | 80 | 127 | | | |
| Surr: Tol | uene-d8 | | | 0.50 | 99 | 80 | 123 | | | |
| 1 = This is with the sar | s a known very reactive compour mple matrix. | nd. The recovery of t | his compound was n | ormal in th | e Laborat | ory Control Sar | nple (LCS). The | compound | appears to hav | e reacted |
| ab ID: | b17021110-001bms | Sample Matrix | Spike | | | Run: 5971A | 170224A | | 02/24 | /17 18:21 |
| cetone | | 40.4 | ug/L | 20 | 81 | 55 | 144 | | | |
| Acetonitrile | 1 | 66.0 | ug/L | 20 | 132 | 54 | 142 | | | |
| Benzene | | 4.60 | ug/L | 0.50 | 92 | 73 | 122 | | | |
| Bromobenz | | 4.60 | ug/L | 0.50 | 92 | 74 | 129 | | | |
| Bromochlo | romethane | 4.56 | u g /L | 0.50 | 91 | 66 | 120 | | | |
| اطمئامه مسمد | loromethane | 4,36 | ug/L | 0.50 | 87 | 74 | 128 | | | |
| N OF HOUSE | | | | | | | | | | |
| Bromoform | | 4.40 | ug/L | 0.50 | 88 | 66 | 128 | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Quai |
|---------------|--------------------|--------------|---------|------|------|-----------|-------------|-----|----------|-----------|
| Method: | E624 | | | | | - | | | Batch: | R275391 |
| Lab ID: | b17021110-001bms | Sample Matri | k Spike | | | Run: 5971 | A.I_170224A | | 02/24 | /17 18:21 |
| Carbon dis | ulfide | 5.12 | ug/L | 0.50 | 102 | 46 | 145 | | | |
| Carbon tet | rachloride | 3.59 | ug/L | 0.50 | 72 | 75 | 125 | | | s |
| Chlorobena | zene | 4.52 | ug/L | 0.50 | 90 | 80 | 123 | | | |
| Chlorodibre | omomethane | 4.52 | ug/L | 0.50 | 90 | 74 | 125 | | | |
| Chloroetha | ne | 5.40 | ug/L | 0.50 | 108 | 59 | 142 | | | |
| Chloroform | 1 | 4.68 | ug/L | 0.50 | 82 | 68 | 124 | | | |
| Chlorometi | nane | 4.64 | ug/L | 0.50 | 93 | 53 | 146 | | | |
| 2-Chlorotol | uene | 4.88 | ug/L | 0.50 | 98 | 75 | 131 | | | |
| 4-Chlorotol | uene | 4.68 | ug/L | 0.50 | 94 | 74 | 129 | | | |
| 1,2-Dibrom | oethane | 4.16 | ug/L | 0.50 | 83 | 76 | 124 | | | |
| Dibromome | ethane | 4.64 | ug/L | 0.50 | 93 | 77 | 125 | | | |
| 1,2-Dichlor | obenzene | 4.64 | ug/L | 0.50 | 93 | 74 | 124 | | | |
| 1,3-Dichlor | obenzene | 4.88 | ug/L | 0.50 | 98 | 77 | 122 | | | |
| 1,4-Dichlor | obenzene | 4.76 | ug/L | 0.50 | 91 | 76 | 126 | | | |
| Dichlorodif | luoromethane | 4.32 | ug/L | 0.50 | 86 | 56 | 146 | | | |
| 1,1-Dichlor | oethane | 4.24 | ug/L | 0.50 | 85 | 74 | 133 | | | |
| 1,2-Dichlor | oethane | 3.48 | ug/L | 0.50 | 70 | 75 | 129 | | | S |
| 1,1-Dichlor | oethene | 4.12 | ug/L | 0.50 | 82 | 74 | 132 | | | |
| cis-1,2-Dicl | hloroethene | 4.48 | ug/L | 0.50 | 90 | 81 | 122 | | | |
| trans-1,2-D | ichloroethene | 4.64 | ug/L | 0.50 | 93 | 79 | 143 | | | |
| 1,2-Dichlor | opropane | 4.92 | ug/L | 0.50 | 98 | 75 | 126 | | | |
| 1,3-Dichlor | opropane | 4.24 | ug/L | 0.50 | 85 | 71 | 136 | | | |
| 2,2-Dichlor | opropane | 3.60 | ug/L | 0.50 | 72 | 68 | 142 | | | |
| 1,1-Dichlor | opropene | 4.04 | ug/L | 0.50 | 81 | 70 | 131 | | | |
| cis-1,3-Dict | nloropropene | 4.08 | ug/L | 0.50 | 82 | 74 | 135 | | | |
| trans-1,3-D | ichloropropene | 3.97 | ug/L | 0.50 | 79 | 76 | 149 | | | |
| Ethylbenze | ne | 4.64 | ug/L | 0.50 | 93 | 72 | 130 | | | |
| Methyl tert- | butyl ether (MTBE) | 3.63 | ug/L | 0.50 | 73 | 72 | 120 | | | |
| Methyl ethy | | 44.4 | ug/L | 20 | 89 | 45 | 130 | | | |
| Methyl isob | utyl ketone | 51.2 | ug/L | 20 | 102 | 58 | 135 | | | |
| Methylene o | chloride | 5.44 | ug/L | 0.50 | 109 | 66 | 142 | | | |
| Naphthalen | е | 4.84 | ug/L | 0.50 | 97 | 69 | 124 | | | |
| Styrene | | 4.56 | ug/L | 0.50 | 91 | 80 | 124 | | | |
| Tetrachloro | ethene | 4.44 | ug/L | 0.50 | 89 | 72 | 131 | | | |
| 1,1,1,2-Tetr | achloroethane | 3.95 | ug/L | 0.50 | 79 | 78 | 124 | | | |
| | achloroethane | 4.88 | ug/L | 0.50 | 98 | 68 | 137 | | | |
| Toluene | | 4.88 | ug/L | 0.50 | 98 | 72 | 135 | | | |
| Trichloroeth | | 4.56 | ug/L | 0.50 | 91 | 85 | 126 | | | |
| 1,1,1-Trichi | | 3.51 | ug/L | 0.50 | 70 | 63 | 120 | | | |
| 1,1,2-Trichle | | 4.52 | ug/L | 0.50 | 90 | 78 | 124 | | | |
| | oromethane | 3.29 | ug/L | 0.50 | 66 | 72 | 120 | | | S |
| | oropropane | 3.90 | ug/L | 0.50 | 78 | 64 | 138 | | | |
| Vinyl Acetal | te | 4.00 | ug/L | 1.0 | 80 | 31 | 124 | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 **Work Order:** C17020566

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------|---------------|-----------------|------|------|-----------|-------------|-----|----------|----------|
| Method: E624 | | | | | | | | Batch: | R27539 |
| Lab ID: b17021110-001bms | Sample Matrix | Spike | | | Run: 5971 | A.I_170224A | | 02/24 | /17 18:2 |
| /inyl chloride | 5.12 | ug/L | 0.50 | 102 | 58 | 140 | | | |
| n+p-Xylenes | 9.32 | ug/L | 0.50 | 93 | 67 | 139 | | | |
| p-Xylene | 4.44 | ug/L | 0.50 | 89 | 74 | 135 | | | |
| Kylenes, Total | 13.8 | ug/L | 0.50 | 92 | 70 | 137 | | | |
| Surr: 1,2-Dichloroethane-d4 | | _ | 0.50 | 80 | 71 | 139 | | | |
| Surr: p-Bromofluorobenzene | | | 0.50 | 94 | 80 | 127 | | | |
| Surr: Toluene-d8 | | | 0.50 | 101 | 80 | 123 | | | |
| _ab ID: b17021110-001bmsd | Sample Matrix | Spike Duplicate | | | Run: 5971 | A.I_170224A | | 02/24 | /17 18:5 |
| Acetone | 44.0 | ug/L | 20 | 88 | 55 | 144 | 8.5 | 20 | |
| Acetonitrile | 65.6 | ug/L | 20 | 131 | 54 | 142 | 0.6 | 20 | |
| Benzene | 5.04 | ug/L | 0.50 | 101 | 73 | 122 | 9.1 | 20 | |
| Bromobenzene | 4.96 | ug/L | 0.50 | 99 | 74 | 129 | 7.5 | 20 | |
| 3romochioromethane | 4.80 | ug/L | 0.50 | 96 | 66 | 120 | 5.1 | 20 | |
| Bromodichloromethane | 4.60 | ug/L | 0.50 | 92 | 74 | 128 | 5.4 | 20 | |
| iromoform | 4.80 | ug/L | 0.50 | 96 | 66 | 128 | 8.7 | 20 | |
| romomethane | 6.00 | ug/L | 0.50 | 120 | 51 | 123 | 2.0 | 20 | |
| arbon disulfide | 5.20 | ug/L | 0.50 | 104 | 46 | 145 | 1.6 | 20 | |
| arbon tetrachloride | 3.97 | ug/L | 0.50 | 79 | 75 | 125 | 10 | 20 | |
| Chlorobenzene | 4.88 | ug/L | 0.50 | 98 | 80 | 123 | 7.7 | 20 | |
| chlorodibromomethane | 4.76 | ug/L | 0.50 | 95 | 74 | 125 | 5.2 | 20 | |
| hloroethane | 5.32 | ug/L | 0.50 | 106 | 59 | 142 | 1.5 | 20 | |
| Chloroform | 4.96 | ug/L | 0.50 | 87 | 68 | 124 | 5.8 | 20 | |
| Chloromethane | 4.88 | ug/L | 0.50 | 98 | 53 | 146 | 5.0 | 20 | |
| -Chlorotoluene | 5.20 | ug/L | 0.50 | 104 | 75 | 131 | 6.3 | 20 | |
| -Chlorotoluene | 5.04 | ug/L | 0.50 | 101 | 74 | 129 | 7.4 | 20 | |
| ,2-Dibromoethane | 4.52 | ug/L | 0.50 | 90 | 76 | 124 | 8.3 | 20 | |
| Dibromomethane | 4.88 | ug/L | 0.50 | 98 | 77 | 125 | 5.0 | 20 | |
| ,2-Dichlorobenzene | 5.04 | ug/L | 0.50 | 101 | 74 | 124 | 8.3 | 20 | |
| ,3-Dichlorobenzene | 5.20 | ug/L | 0.50 | 104 | 77 | 122 | 6.3 | 20 | |
| ,4-Dichlorobenzene | 5.12 | ug/L | 0.50 | 98 | 76 | 126 | 7.3 | 20 | |
| Dichlorodifluoromethane | 4.36 | ug/L | 0.50 | 87 | 56 | 146 | 0.9 | 20 | |
| ,1-Dichloroethane | 4.68 | ug/L | 0.50 | 94 | 74 | 133 | 9.9 | 20 | |
| ,2-Dichloroethane | 3.76 | ug/L | 0.50 | 75 | 75 | 129 | 7.8 | 20 | |
| ,1-Dichloroethene | 4.44 | ug/L | 0.50 | 89 | 74 | 132 | 7.5 | 20 | |
| is-1,2-Dichloroethene | 4.88 | ug/L | 0.50 | 98 | 81 | 122 | 8.5 | 20 | |
| ans-1,2-Dichioroethene | 5.12 | ug/L | 0.50 | 102 | 79 | 143 | 9.8 | 20 | |
| ,2-Dichloropropane | 5.24 | ug/L | 0.50 | 105 | 75 | 126 | 6.3 | 20 | |
| ,3-Dichloropropane | 4.64 | ug/L | 0.50 | 93 | 71 | 136 | 9.0 | 20 | |
| ,2-Dichloropropane | 3.96 | ug/L | 0.50 | 79 | 68 | 142 | 9.6 | 20 | |
| ,1-Dichloropropene | 4.44 | ug/L | 0.50 | 89 | 70 | 131 | 9.4 | 20 | |
| is-1,3-Dichloropropene | 4.40 | ug/L | 0.50 | 88 | 74 | 135 | 7.5 | 20 | |
| rans-1,3-Dichloropropene | 4.24 | ug/L | 0.50 | 85 | 76 | 149 | 6.6 | 20 | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17

Project: 170217005 LFH-1 CO-0121724

Work Order: C17020566

| Analyte | Result U | nits RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|-------------------|--------------|------|-----------|-------------|-----|----------|-----------|
| Method: E624 | | | | | | | Batch: | R275391 |
| Lab ID: b17021110-001bmsd | Sample Matrix Spi | ke Duplicate | | Run: 5971 | A.I_170224A | | 02/24 | /17 18:50 |
| Ethylbenzene | 5.00 սջ | J/L 0.50 | 100 | 72 | 130 | 7.5 | 20 | |
| Methyl tert-butyl ether (MTBE) | 3.83 სე | J/L 0.50 | 77 | 72 | 120 | 5.5 | 20 | |
| Methyl ethyl ketone | 46.0 ug | J/L 20 | 92 | 45 | 130 | 3.5 | 20 | |
| Methyl isobutyl ketone | 51.2 ևջ | J/L 20 | 102 | 58 | 135 | 0.0 | 20 | |
| Methylene chloride | 5.72 ug | /L 0.50 | 114 | 66 | 142 | 5.0 | 20 | |
| Naphthalene | 5.56 นรู | J/L 0.50 | 111 | 69 | 124 | 14 | 20 | |
| Styrene | 4.84 կջ | J/L 0.50 | 97 | 80 | 124 | 6.0 | 20 | |
| Tetrachloroethene | 4.72 ug | y/L 0.50 | 94 | 72 | 131 | 6.1 | 20 | |
| 1,1,1,2-Tetrachioroethane | 4.20 ug | /L 0.50 | 84 | 78 | 124 | 6.1 | 20 | |
| 1,1,2,2-Tetrachloroethane | 5.20 นอ | /L 0.50 | 104 | 68 | 137 | 6.3 | 20 | |
| Toluene | 5.12 ug | /L 0.50 | 102 | 72 | 135 | 4.8 | 20 | |
| Trichloroethene | 4.80 ug | /L 0.50 | 96 | 85 | 126 | 5.1 | 20 | |
| 1,1,1-Trichloroethane | 3.94 ug | /L 0.50 | 79 | 63 | 120 | 12 | 20 | |
| 1,1,2-Trichloroethane | 4.76 ug | /L 0.50 | 95 | 78 | 124 | 5.2 | 20 | |
| Trichlorofluoromethane | 3.36 სე | /L 0.50 | 67 | 72 | 120 | 2.3 | 20 | S |
| 1,2,3-Trichloropropane | 4.20 ug | /L 0.50 | 84 | 64 | 138 | 7.4 | 20 | |
| Vinyl Acetate | 4.20 ug | /L 1.0 | 84 | 31 | 124 | 4.9 | 20 | |
| Vinyl chloride | 5.08 นธ | /L 0.50 | 102 | 58 | 140 | 8.0 | 20 | |
| m+p-Xylenes | 9.92 ug | /L 0.50 | 99 | 67 | 139 | 6.2 | 20 | |
| o-Xylene | 4.80 ug | /L 0.50 | 96 | 74 | 135 | 7.8 | 20 | |
| Xylenes, Total | 14.7 ug | /L 0.50 | 98 | 70 | 137 | | | |
| Surr: 1,2-Dichloroethane-d4 | | 0.50 | 81 | 71 | 139 | | | |
| Surr: p-Bromofluorobenzene | | 0.50 | 94 | 80 | 127 | | | |
| Surr: Toluene-d8 | | 0.50 | 100 | 80 | 123 | | | |

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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

| Method: E625 Lab ID: MB-107004 Acenaphthene Acenaphthylene Anthracene Azobenzene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether | Method Blank ND | | | | | | Batch | n: 107004 |
|--|--------------------|---------------|----------|---------|------------------|---|-------|-----------|
| Acenaphthene Acenaphthylene Anthracene Azobenzene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether | | | | | | | | |
| Acenaphthylene Anthracene Azobenzene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethyl)Ether | ND | | | Run: SV | 5973N2.I_170227E | 3 | 02/27 | /17 18:24 |
| Anthracene Azobenzene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethyl)Ether | | ug/L | 10 | | _ | | | |
| Azobenzene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| Benzo(g,h,i)perylene Benzo(k)fluoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| Benzo(k)fiuoranthene 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| 4-Bromophenyl phenyl ether Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| Butylbenzylphthalate 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| bis(-2-chloroethoxy)Methane bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| bis(-2-chloroethyl)Ether | ND | ug/L | 10 | | | | | |
| | ND | ug/L | 10 | | | | | |
| bis(2-chloroisopropyl)Ether | ND | ug/L | 10 | | | | | |
| 2-Chloronaphthalene | ND | ug/L | 10 | | | | | |
| 2-Chlorophenol | ND | ug/L | 10 | | | | | |
| 4-Chlorophenyl phenyl ether | ND | ug/L | 10 | | | | | |
| Chrysene | ND | ug/L | 10 | | | | | |
| Diethyl phthalate | ND | ug/L | 10 | | | | | |
| Di-n-butyl phthalate | ND | ug/L | 10 | | | | | |
| 1,2-Dichlorobenzene | ND | ug/L | 10 | | | | | |
| 1,3-Dichlorobenzene | ND | ug/L | 10 | | | | | |
| 1,4-Dichtorobenzene | ND | ug/L | 10 | | | | | |
| 3,3'-Dichiorobenzidine | ND | ug/L | 10 | | | | | |
| 2,4-Dichiorophenol | ND | ug/L | 10 | | | | | |
| Dimethyl phthalate | ND | ug/L | 10 | | | | | |
| Di-n-octyl phthalate | ND | ug/L | 10 | | | | | |
| Dibenzo(a,h)anthracene | ND | ug/L | 10 | | | | | |
| 2,4-Dimethylphenol | ND | ug/L | 10 | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | ug/L | 50 | | | | | |
| 2,4-Dinitrophenol | ND | ug/L | 50 | | | | | |
| 2,4-Dinitrotoluene | ND | ug/L | 10 | | | | | |
| 2,6-Dinitrotoluene | ND | ug/L | 10 | | | | | |
| bis(2-ethylhexyl)Phthalate | ND | ug/L | 10 | | | | | |
| Fluoranthene | ND | ug/L | 10 | | | | | |
| Fluorene | ND | ug/L | 10 | | | | | |
| Hexachlorobenzene | ND | ug/L | 10 | | | | | |
| Hexachlorobutadiene | ND | ug/L | 10 | | | | | |
| Hexachlorocyclopentadiene | ND | ug/L | 10 | | | | | |
| Hexachioroethane | ND | ug/L | 10 | | | | | |
| Indeno(1,2,3-cd)pyrene | 170 | α A ι∟ | 10 | | | | | |
| | | | 10 | | | | | |
| Isophorone | ND ND | ug/L ug/L | 10 10 | | | | | |

Qualiflers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17 Work Order: C17020566

| Analyte | Result U | Jnits . | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|---|-------------------|------------|----------|----------|-----------|------------------------|-----|----------|----------|
| Method: E625 | | | | | | | | Batch | : 107004 |
| Lab ID: MB-107004 | Method Blank | | | | Run: SV59 | 73N2.I_170227B | | 02/27/ | 17 18:24 |
| n-Nitrosodimethylamine | ND u | ıg/L | 10 | | | | | | |
| n-Nitroso-di-n-propylamine | ND t | ıg/L | 10 | | | | | | |
| n-Nitrosodiphenylamine | ND L | g/L | 10 | | | | | | |
| 2-Nitrophenol | ND L | g/L | 10 | | | | | | |
| 4-Nitrophenol | ND u | g/L | 50 | | | | | | |
| Naphthalene | ND u | g/L | 10 | | | | | | |
| Nitrobenzene | | g/L | 10 | | | | | | |
| Pentachlorophenol | | g/L | 50 | | | | | | |
| Phenanthrene | | g/L | 10 | | | | | | |
| Phenol | | g/L | 10 | | | | | | |
| Pyrene | | g/L | 10 | | | | | | |
| 1.2.4-Trichlorobenzene | | g/L | 10 | | | | | | |
| 2,4,6-Trichlorophenol | | g/L | 10 | | | | | | |
| Surr: 2-Fluorobiphenyl | | • | 10 | 55 | 28 | 107 | | | |
| Surr: 2-Fluorophenol | | | 10 | 36 | 20 | 56 | | | |
| Surr: Nitrobenzene-d5 | | | 10 | 58 | 32 | 94 | | | |
| Surr: Phenol-d5 | | | 10 | 35 | 19 | 45 | | | |
| Surr: Terphenyl-d14 | | | 10 | 77 | 32 | 122 | | | |
| Surr: 2,4,6-Tribromophenol | | | 10 | 58 | 21 | 130 | | | |
| Lab ID: LCS-107004 | Laboratory Contro | l Sample | | | Run: SV59 | 73N2.I_1 70227B | | 02/27/ | 17 18:55 |
| Acenaphthene | 81.2 u | g/L | 10 | 81 | 58 | 99 | | | |
| Acenaphthylene | 76.5 u | g/L | 10 | 77 | 57 | 96 | | | |
| Anthracene | 79.5 u | g/L | 10 | 80 | 60 | 107 | | | |
| Azobenzene | | g/L | 10 | 79 | 56 | 100 | | | |
| Benzo(a)anthracene | | g/L | 10 | 84 | 62 | 114 | | | |
| Benzo(a)pyrene | | g/L | 10 | 80 | 62 | 108 | | | |
| Benzo(b)fluoranthene | | g/L | 10 | 89 | 48 | 127 | | | |
| Benzo(g,h,i)perylene | | g/L | 10 | 82 | 62 | 121 | | | |
| Benzo(k)fluoranthene | | g/L | 10 | 79 | 55 | 111 | | | |
| 4-Bromophenyl phenyl ether | | g/L | 10 | 83 | 58 | 105 | | | |
| Butylbenzylphthalate | | g/L | 10 | 92 | 60 | 113 | | | |
| 4-Chloro-3-methylphenol | | g/L | 10 | 66 | 53 | 92 | | | |
| bls(-2-chloroethoxy)Methane | | g/L | 10 | 74 | 50 | 92 | | | |
| bis(-2-chloroethyl)Ether | | g/L | 10 | 63 | 44 | 82 | | | |
| bis(2-chioroisopropyl)Ether | | g/L | 10 | 61 | 56 | 87 | | | |
| 2-Chloronaphthalene | | g/L | 10 | 75 | 56 | 95 | | | |
| 2-Chlorophenol | | g/L | 10 | 60 | 47 | 76 | | | |
| 4-Chlorophenyl phenyl ether | | g/L | 10 | 76 | 58 | 99 | | | |
| | | g/L | 10 | 82 | 63 | 106 | | | |
| Chrysene | | e· — | | | | | | | |
| Chrysene Diethyl phthalate | | n/L | 10 | 79 | 58 | 103 | | | |
| Chrysene Diethyl phthalate Dl-n-butyl phthalate | 78.6 u | g/L g/L | 10 10 | 79 88 | 58 61 | 103 110 | | | |

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170217005 LFH-1 CO-0121724 Report Date: 03/02/17
Work Order: C17020566

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------|---------------|---------------|----|------|------------|----------------|-----|----------|-----------|
| Method: E625 | | | | | | - | | Batcl | n: 107004 |
| Lab ID: LCS-107004 | Laboratory Co | ntrol Sample | | | Run: SV59 | 73N2.I_170227B | | 02/27 | /17 18:55 |
| 1,3-Dichlorobenzene | 60.2 | ug/L | 10 | 60 | 41 | 79 | | | |
| 1,4-Dichlorobenzene | 61.4 | ug/L | 10 | 61 | 42 | 79 | | | |
| 3,3'-Dichlorobenzidine | 68.6 | ug/L | 10 | 69 | 51 | 93 | | | |
| 2,4-Dichlorophenol | 64.7 | ug/L | 10 | 65 | 49 | 90 | | | |
| Dimethyl phthalate | 76.4 | ug/L | 10 | 76 | 58 | 104 | | | |
| Di-n-octyl phthalate | 88.3 | ug/L | 10 | 88 | 56 | 110 | | | |
| Dibenzo(a,h)anthracene | 80.4 | ug/L | 10 | 80 | 61 | 111 | | | |
| 2,4-Dimethylphenol | 61.8 | ug/L | 10 | 62 | 45 | 89 | | | |
| 4,6-Dinitro-2-methylphenol | 48.2 | ug/L | 50 | 48 | 37 | 105 | | | |
| 2,4-Dinitrophenol | 39.7 | ug/L | 50 | 40 | 27 | 81 | | | |
| 2,4-Dinitrotoluene | 87.7 | ug/L | 10 | 88 | 63 | 110 | | | |
| 2,6-Dinitrotoluene | 75.5 | ug/L | 10 | 76 | 60 | 107 | | | |
| bis(2-ethylhexyl)Phthalate | 88.6 | ug/L | 10 | 89 | 56 | 108 | | | |
| Fluoranthene | 83.8 | ug/L | 10 | 84 | 63 | 110 | | | |
| Fluorene | 77.4 | ug/L | 10 | 77 | 60 | 99 | | | |
| Hexachlorobenzene | 78.2 | ug/L | 10 | 78 | 57 | 103 | | | |
| Hexachlorobutadiene | 67.5 | ug/L | 10 | 67 | 39 | 83 | | | |
| Hexachlorocyclopentadiene | 68.4 | ug/L | 10 | 68 | 39 | 91 | | | |
| Hexachloroethane | 59.6 | ug/L | 10 | 60 | 37 | 75 | | | |
| Indeno(1,2,3-cd)pyrene | 82.0 | ug/L | 10 | 82 | 59 | 109 | | | |
| Isophorone | 67.1 | ug/L | 10 | 67 | 42 | 102 | | | |
| n-Nitrosodimethylamine | 36.9 | ug/L | 10 | 37 | 20 | 45 | | | |
| n-Nitroso-di-n-propylamine | 71.5 | ug/L | 10 | 71 | 49 | 98 | | | |
| n-Nitrosodiphenylamine | 90.0 | u g /L | 10 | 90 | 61 | 108 | | | |
| 2-Nitrophenol | 68.0 | ug/L | 10 | 68 | 51 | 96 | | | |
| 4-Nitrophenol | 18.3 | ug/L | 50 | 18 | 15 | 36 | | | |
| Naphthalene | 71.6 | ug/L | 10 | 72 | 48 | 96 | | | |
| Nitrobenzene | 65.0 | ug/L | 10 | 65 | 51 | 91 | | | |
| Pentachiorophenol | 70.6 | ug/L | 50 | 71 | 53 | 109 | | | |
| Phenanthrene | 80.5 | u g/ L | 10 | 81 | 58 | 104 | | | |
| Phenol | 35.4 | ug/L | 10 | 35 | 27 | 45 | | | |
| Pyrene | 89.3 | ug/L | 10 | 89 | 64 | 108 | | | |
| 1,2,4-Trichlorobenzene | 67.3 | ug/L | 10 | 67 | 49 | 85 | | | |
| 2,4,6-Trichlorophenol | 64.9 | ug/L | 10 | 65 | 47 | 99 | | | |
| Surr: 2-Fluorobiphenyl | | | 10 | 63 | 28 | 107 | | | |
| Surr: 2-Fluorophenol | | | 10 | 35 | 20 | 56 | | | |
| Surr: Nitrobenzene-d5 | | | 10 | 68 | 32 | 94 | | | |
| Surr: Phenol-d5 | | | 10 | 42 | 19 | 45 | | | |
| Surr: Terphenyl-d14 | | | 10 | 87 | 32 | 122 | | | |
| Surr: 2,4,6-Tribromophenol | | | 10 | 70 | 21 | 130 | | | |
| Lab ID: B17021688-001CMS | Sample Matrix | Spike | | | Run: SV597 | 3N2.I_170227B | | 02/27/ | 17 20:29 |
| Acenaphthene | 86.4 | ug/L | 10 | 86 | 58 | 99 | | | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Report Date: 03/02/17 Project: 170217005 LFH-1 CO-0121724 Work Order: C17020566

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|---------------|-------------------|------------------|---------|----|------|-----------|----------------|-----|----------|------------|
| Method: | E625 | | | | | | | | Batc | h: 107004 |
| Lab ID: | B17021688-001CMS | Sample Matrix | k Spike | | | Run: SV59 | 73N2.i_170227B | | 02/27 | 7/17 20:29 |
| Acenaphth | ylene | 83.0 | ug/L | 10 | 83 | 57 | 96 | | | |
| Anthracene | ? | 86.4 | ug/L | 10 | 86 | 60 | 107 | | | |
| Azobenzen | e | 84.3 | ug/L | 10 | 84 | 56 | 100 | | | |
| Benzo(a)ar | nthracene | 90.3 | ug/L | 10 | 90 | 62 | 114 | | | |
| Benzo(a)py | /rene | 80.9 | ug/L | 10 | 81 | 62 | 108 | | | |
| Benzo(b)flu | ıoranthene | 80.4 | ug/L | 10 | 80 | 48 | 127 | | | |
| Benzo(g,h,i | i)peryiene | 80.5 | ug/L | 10 | 81 | 62 | 121 | | | |
| Benzo(k)flu | oranthene | 83.5 | ug/L | 10 | 83 | 55 | 111 | | | |
| 4-Bromoph | enyl phenyl ether | 80.4 | ug/L | 10 | 80 | 58 | 105 | | | |
| Butylbenzy | iphthalate | 99.7 | ug/L | 10 | 100 | 60 | 113 | | | |
| 4-Chioro-3- | -methylphenol | 77.0 | ug/L | 10 | 77 | 53 | 92 | | | |
| bis(-2-chlor | roethoxy)Methane | 77.3 | ug/L | 10 | 77 | 50 | 92 | | | |
| bls(-2-chlor | oethyl)Ether | 66.7 | ug/L | 10 | 67 | 44 | 82 | | | |
| bis(2-chlore | oisopropyi)Ether | 66.6 | ug/L | 10 | 67 | 56 | 87 | | | |
| 2-Chlorona | phthalene | 79.8 | ug/L | 10 | 80 | 56 | 95 | | | |
| 2-Chloroph | enol | 64.1 | ug/L | 10 | 64 | 47 | 76 | | | |
| 4-Chloroph | enyl phenyl ether | 84.5 | ug/L | 10 | 85 | 58 | 99 | | | |
| Chrysene | | 85.9 | ug/L | 10 | 86 | 63 | 106 | | | |
| Diethyl phth | halate | 85.4 | ug/L | 10 | 85 | 58 | 103 | | | |
| Di-n-butyl p | hthalate | 96.0 | ug/L | 10 | 96 | 61 | 110 | | | |
| 1,2-Dichlor | obenzene | 66.1 | ug/L | 10 | 66 | 43 | 81 | | | |
| 1,3-Dichlore | obenzene | 61.9 | ug/L | 10 | 62 | 41 | 79 | | | |
| 1,4-Dichlore | obenzene | 61.8 | ug/L | 10 | 62 | 42 | 79 | | | |
| 3,3'-Dichlor | robenzidine | 69.1 | ug/L | 10 | 69 | 51 | 93 | | | |
| 2,4-Dichlor | opheno! | 68.4 | ug/L | 10 | 68 | 49 | 90 | | | |
| Dimethyl ph | nthalate | 81.4 | ug/L | 10 | 81 | 58 | 104 | | | |
| Di-n-octyl p | hthalate | 90.6 | ug/L | 10 | 91 | 56 | 110 | | | |
| Dibenzo(a,i | h)anthracene | 80.0 | ug/L | 10 | 80 | 61 | 111 | | | |
| 2,4-Dimethy | ylphenol | 69.2 | ug/L | 10 | 69 | 45 | 87 | | | |
| 4,6-Dinitro- | 2-methylphenol | 58.9 | ug/L | 50 | 59 | 37 | 105 | | | |
| 2,4-Dinitrop | henol | 5 4.8 | ug/L | 50 | 55 | 27 | 81 | | | |
| 2,4-Dinitrote | oluene | 82.5 | ug/L | 10 | 83 | 63 | 110 | | | |
| 2,6-Dinitrote | cluene | 80.8 | ug/L | 10 | 81 | 60 | 107 | | | |
| bis(2-ethylh | exyl)Phthalate | 92.0 | ug/L | 10 | 92 | 56 | 108 | | | |
| Fluoranther | ne | 88.0 | ug/L | 10 | 88 | 63 | 110 | | | |
| Fluorene | | 80.1 | ug/L | 10 | 80 | 60 | 99 | | | |
| Hexachloro | benzene | 82.5 | ug/L | 10 | 83 | 57 | 103 | | | |
| Hexachioro | butadiene | 69.0 | ug/L | 10 | 69 | 39 | 83 | | | |
| Hexachloro | cyclopentadiene | 68.1 | ug/L | 10 | 68 | 39 | 91 | | | |
| Hexachioro | ethane | 65.6 | ug/L | 10 | 66 | 37 | 75 | | | |
| Indeno(1,2, | 3-cd)pyrene | 82.3 | ug/L | 10 | 82 | 59 | 109 | | | |
| Isophorone | ** * | 71.3 | ug/L | 10 | 71 | 42 | 102 | | | |
| | methylamine | 41.5 | ug/L | 10 | 41 | 20 | 45 | | | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 03/02/17
Work Order: C17020566

Project: 170217005 LFH-1 CO-0121724

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--|-------------------|---------------|----------|----------|-----------|----------------|-----|----------|-----------|
| Method: E625 | | · | | | | | | Batch | : 107004 |
| Lab ID: B17021688-00 | 1CMS Sample Matri | x Spike | | | Run: SV59 | 73N2.I_170227B | | 02/27/ | /17 20:29 |
| n-Nitroso-di-n-propylamine | 76.9 | u g/ L | 10 | 77 | 49 | 98 | | | |
| n-Nitrosodiphenylamine | 93.7 | ug/L | 10 | 94 | 61 | 108 | | | |
| 2-Nitrophenol | 69.9 | ug/L | 10 | 70 | 51 | 96 | | | |
| 4-Nitrophenol | 24.6 | ug/L | 50 | 25 | 15 | 36 | | | |
| Naphthalene | 76.0 | ug/L | 10 | 76 | 48 | 96 | | | |
| Nitrobenzene | 72.5 | ug/L | 10 | 73 | 51 | 91 | | | |
| Pentachlorophenol | 89.2 | ug/L | 50 | 89 | 53 | 109 | | | |
| Phenanthrene | 85.1 | ug/L | 10 | 85 | 58 | 104 | | | |
| Phenol | 36.7 | ug/L | 10 | 37 | 27 | 45 | | | |
| Pyrene | 89.8 | ug/L | 10 | 90 | 64 | 108 | | | |
| 1,2,4-Trichlorobenzene | 70.9 | ug/L | 10 | 71 | 49 | 85 | | | |
| 2,4,6-Trichlorophenol | 67.7 | ug/L | 10 | 68 | 47 | 99 | | | |
| Surr: 2-Fluorobiphenyl | | | 10 | 62 | 28 | 107 | | | |
| Surr: 2-Fluorophenol | | | 10 | 39 | 20 | 56 | | | |
| Surr: Nitrobenzene-d5 | | | 10 | 72 | 32 | 94 | | | |
| Surr: Phenol-d5 | | | 10 | 35 | 19 | 45 | | | |
| Surr: Terphenyl-d14 | | | 10 | 87 | 32 | 122 | | | |
| Surr: 2,4,6-Tribromopheno | ol . | | 10 | 75 | 21 | 130 | | | |
| Lab ID: B17021688-003 | • | - | | | | 73N2.I_170227B | | 02/27/ | 17 21:31 |
| Acenaphthene | 89.8 | ug/L | 10 | 90 | 58 | 99 | | | |
| Acenaphthylene | 82.2 | ug/L | 10 | 82 | 57 | 96 | | | |
| Anthracene | 73.2 | ug/L | 10 | 73 | 60 | 107 | | | |
| Azobenzene | 80.2 | ug/L | 10 | 80 | 56 | 100 | | | |
| Benzo(a)anthracene | 85.1 | ug/L | 10 | 85 | 62 | 114 | | | |
| Benzo(a)pyrene | 77.0 | ug/L | 10 | 77 | 62 | 108 | | | |
| Benzo(b)fluoranthene | 73.3 | ug/L | 10 | 73 | 48 | 127 | | | |
| Benzo(g,h,i)perylene | 78.5 | ug/L | 10 | 79 | 62 | 121 | | | |
| Benzo(k)fluoranthene | 83.1 | ug/L | 10 | 83 | 55 | 111 | | | |
| 4-Bromophenyl phenyl ether | 78.1 | ug/L | 10 | 78 | 58 | 105 | | | |
| Butylbenzylphthalate | 92.9 | ug/L | 10 | 93 | 60 | 113 | | | |
| 4-Chioro-3-methylphenol | 69.5 | ug/L | 10 | 69 | 53 | 92 | | | |
| bis(-2-chloroethoxy)Methane | 69.6 | ug/L | 10 | 70 | 50 | 92 | | | |
| bis(-2-chloroethyl)Ether | 58.4 | ug/L | 10 | 58 | 44 | 82 | | | |
| bis(2-chloroisopropyl)Ether | 57.7 | ug/L | 10 | 58 | 56 | 87 | | | |
| 2-Chloronaphthalene | 77.7 | ug/L | 10 | 78 | 56 | 95 | | | |
| 2-Chlorophenol | 56.6 | ug/L | 10 | 57 | 47 | 76 | | | |
| 4-Chlorophenyl phenyl ether | 82.9 | ug/L | 10 | 83 | 58 | 99 | | | |
| Chrysene | 82.0 | ug/L | 10 | 82 | 63 | 106 | | | |
| Diethyl phthalate | 80.2 | ug/L | 10 | 80 | 58 | 103 | | | |
| | 86.9 | ug/L | 10 | 87 | 61 | 110 | | | |
| Di-n-butyl phthalate | | - | | | | | | | |
| Di-n-butyl phthalate 1,2-Dichlorobenzene 1,3-Dichlorobenzene | 61.5 59.3 | ug/L ug/L | 10 10 | 62 59 | 43 41 | 81 79 | | | |

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17
Work Order: C17020566

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--|---------------|--------------|----------|----------|------------|-------------------|-----|----------|-----------|
| Method: E625 | | | | | | | | Batch | n: 107004 |
| Lab ID: B17021688-003CMS | Sample Matrix | Spike | | | Run: SV59 | 73N2.I_170227E | 3 | 02/27 | /17 21:31 |
| 1,4-Dichlorobenzene | 57.9 | ug/L | 10 | 58 | 42 | 79 | | | |
| 3,3'-Dichlorobenzidine | 52.9 | ug/L | 10 | 53 | 51 | 93 | | | |
| 2,4-Dichlorophenol | 61.5 | ug/L | 10 | 62 | 49 | 90 | | | |
| Dimethyl phthalate | 74.3 | ug/L | 10 | 74 | 58 | 104 | | | |
| Di-n-octyl phthalate | 82.5 | ug/L | 10 | 83 | 56 | 110 | | | |
| Dibenzo(a,h)anthracene | 75.9 | ug/L | 10 | 76 | 61 | 111 | | | |
| 2,4-Dimethylphenol | 60.0 | ug/L | 10 | 60 | 45 | 87 | | | |
| 4,6-Dinitro-2-methylphenol | 41.6 | ug/L | 50 | 42 | 37 | 105 | | | |
| 2,4-Dinitrophenol | 30.1 | ug/L | 50 | 30 | 27 | 81 | | | |
| 2,4-Dinitrotoluene | 86.9 | ug/L | 10 | 87 | 63 | 110 | | | |
| 2,6-Dinitrotoluene | 75.9 | ug/L | 10 | 76 | 60 | 107 | | | |
| bis(2-ethylhexyl)Phthalate | 81.5 | ug/L | 10 | 82 | 56 | 108 | | | |
| Fluoranthene | 82.0 | ug/L | 10 | 82 | 63 | 110 | | | |
| Fluorene | 81.9 | ug/L | 10 | 82 | 60 | 99 | | | |
| Hexachlorobenzene | 75.8 | ug/L | 10 | 76 | 57 | 103 | | | |
| Hexachlorobutadiene | 69.3 | ug/L | 10 | 69 | 39 | 83 | | | |
| Hexachlorocyclopentadiene | 69.5 | ug/L | 10 | 70 | 39 | 91 | | | |
| Hexachloroethane | 57.7 | ug/L | 10 | 58 | 37 | 75 | | | |
| Indeno(1,2,3-cd)pyrene | 73.4 | ug/L | 10 | 73 | 59 | 109 | | | |
| Isophorone | 68.4 | ug/L | 10 | 68 | 42 | 102 | | | |
| n-Nitrosodimethylamine | 27.8 | ug/L | 10 | 28 | 20 | 45 | | | |
| n-Nitroso-di-n-propylamine | 68.7 | ug/L | 10 | 69 | 49 | 98 | | | |
| n-Nitrosodiphenylamine | 84.0 | ug/L | 10 | 84 | 61 | 108 | | | |
| 2-Nitrophenol | 61.8 | ug/L | 10 | 62 | 51 | 96 | | | |
| 4-Nitrophenol | 27.7 | ug/L | 50 | 28 | 15 | 36 | | | |
| Naphthalene | 72.4 | ug/L | 10 | 72 | 48 | 96 | | | |
| Narobenzene | 69.7 | ug/L | 10 | 70 | 51 | 91 | | | |
| Pentachiorophenol | 66.8 | ug/L | 50 | 67 | 53 | 109 | | | |
| Phenanthrene | 79.7 | ug/L ug/L | 10 | 80 | 58 | 109 | | | |
| Phenol | 33.9 | _ | 10 | 34 | 27 | 45 | | | |
| | | ug/L | 10 | | | | | | |
| Pyrene | 81.2 | ug/L | | 81 71 | 64 | 108 | | | |
| 1,2,4-Trichlorobenzene | 71.3 | ug/L | 10 | | 49 | 85 | | | |
| 2,4,6-Trichlorophenol | 63.8 | ug/L | 10 | 64 | 47 | 99 | | | |
| Surr: 2-Fluorobiphenyl | | | 10 | 45 | 28 | 107 | | | |
| Surr: 2-Fluorophenol | | | 10 | 37 | 20 | 56 | | | |
| Surr: Nitrobenzene-d5 | | | 10 | 62 | 32 | 94 | | | |
| Surr: Phenol-d5 | | | 10 | 31 | 19 | 45 | | | |
| Surr: Terphenyl-d14 Surr: 2,4,6-Tribromophenol | | | 10 10 | 64 55 | 32 21 | 122 130 | | | |
| Lab ID: MB-107004 | Method Blank | | | | | 73N2.I_170228A | | 02/29 | 17 12:11 |
| Benzidine | ND ND | ual | 40 | | Null. 5759 | 1 0142.1_11 0220A | | UZ1Z0/ | 17 12.11 |
| Derizatife | מא | ug/L | 10 | | | | | | |

Qualifiers:

RL - Analyte reporting limit.

College Station, TX 888.690.2218 • Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170217005 LFH-1 CO-0121724 Report Date: 03/02/17
Work Order: C17020566

| Analyte | | Result Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------|------------------|--|----|------|-----------------|-----------------------|-----|----------|-----------|
| Method: | E825 | | | | | | | Batcl | h: 107004 |
| Lab ID: Benzidine | LCS-107004 | Laboratory Control Sample 63.4 ug/L | 10 | 63 | Run: SV59 10 | 73N2.I_170228A 100 | | 02/28 | /17 12:42 |
| Lab ID: Benzidine | B17021688-001CMS | Sample Matrix Spike 25.8 ug/L | 20 | 26 | Run: SV59 10 | 73N2.I_170228A 100 | | 02/28 | /17 14:16 |
| Lab ID: Benzidine | B17021688-003CMS | Sample Matrix Spike 28.5 ug/L | 20 | 28 | Run: SV59 10 | 73N2.l_170228A 100 | | 02/28 | /17 15:18 |

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170217005 LFH-1 CO-0121724 Report Date: 03/02/17

Work Order: C17020566

| CV_2 Continuing Ca 75.7 75.2 78.7 79.8 78.0 78.0 78.6 75.3 73.2 74.4 84.4 77.2 98 79.4 80.8 77.8 70.3 80.3 72.9 | alibration Verifug/Lug/Lug/Lug/Lug/Lug/Lug/Lug/Lug/Lug/L | 10 10 10 10 10 10 10 10 10 10 10 10 | 101 100 105 106 104 104 105 100 98 99 113 103 106 108 | 80 80 80 80 80 80 80 80 80 | 120 120 120 120 120 120 120 120 120 120 | An | nalytical Run: 02/27 | R275528 /17 15:18 |
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| r 72.9 | | | 94 | 80 | 120 | | | |
| | | 10 | 107 | 80 | 120 | | | |
| | ug/L | 10 | 97 | 80 | 120 | | | |
| 75.0 | ug/L | 10 | 100 | 80 | 120 | | | |
| 75.7 | ug/L | 10 | 101 | 80 | 120 | | | |
| 81.6 | ug/L | 10 | 109 | 80 | 120 | | | |
| 72.7 | ug/L | 10 | 97 | 80 | 120 | | | |
| 77.8 | ug/L | 10 | 104 | 80 | 120 | | | |
| 74.9 | ug/L | 10 | 100 | 80 | 120 | | | |
| 75,8 | ug/L | 10 | 101 | 80 | 120 | | | |
| 74.8 | ug/L | 10 | 100 | 80 | 120 | | | |
| 75.3 | ug/L | 10 | 100 | 80 | 120 | | | |
| 83.5 | ug/L | 10 | 111 | 80 | 120 | | | |
| 74.8 | ug/L | 10 | 100 | 80 | 120 | | | |
| 73.0 | ug/L | 10 | 97 | 80 | 120 | | | |
| 71.3 | ug/L | 50 | 95 | 80 | 120 | | | |
| 69.4 | - | | 93 | | | | | |
| 79.4 | _ | | 106 | | | | | |
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Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170217005 LFH-1 CO-0121724

Report Date: 03/02/17

Work Order: C17020566

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD RI | PDLimit | Qual |
|----------------------------|---------------|------------------|---------------|------|-----------|------------|--------|------------|------------|
| Method: E625 | | | | | | | Analy | tical Run: | R27552 |
| Lab ID: 27-Feb-17_CCV_2 | Continuing Ca | libration Vertfi | cation Standa | ırd | | | | 02/27 | 7/17 15:18 |
| n-Nitrosodimethylamine | 75.3 | ug/L | 10 | 100 | 80 | 120 | | | |
| n-Nitroso-di-n-propylamine | 77.8 | ug/L | 10 | 104 | 80 | 120 | | | |
| n-Nitrosodiphenylamine | 78.9 | ug/L | 10 | 105 | 80 | 120 | | | |
| 2-Nitrophenol | 75.8 | ug/L | 10 | 101 | 80 | 120 | | | |
| 4-Nitrophenol | 69.6 | ug/L | 50 | 93 | 80 | 120 | | | |
| Naphthalene | 79.8 | ug/L | 10 | 106 | 80 | 120 | | | |
| Nitrobenzene | 76.8 | ug/L | 10 | 102 | 80 | 120 | | | |
| Pentachiorophenol | 73.3 | ug/L | 50 | 98 | 80 | 120 | | | |
| Phenanthrene | 74.0 | ug/L | 10 | 99 | 80 | 120 | | | |
| Phenoi | 79.2 | ug/L | 10 | 106 | 80 | 120 | | | |
| Pyrene | 75.2 | ug/L | 10 | 100 | 80 | 120 | | | |
| 1,2,4-Trichlorobenzene | 72.8 | ug/L | 10 | 97 | 80 | 120 | | | |
| 2,4,6-Trichlorophenol | 73.6 | ug/L | 10 | 98 | 80 | 120 | | | |
| Surr: 2-Fluorobiphenyi | | | 10 | 100 | 80 | 120 | | | |
| Surr: 2-Fluorophenol | | | 10 | 113 | 80 | 120 | | | |
| Surr: Nitrobenzene-d5 | | | 10 | 105 | 80 | 120 | | | |
| Surr: Phenol-d5 | | | 10 | 121 | 80 | 120 | | | S |
| Surr: Terphenyl-d14 | | | 10 | 101 | 80 | 120 | | | |
| Surr: 2,4,6-Tribromophenol | | | 10 | 102 | 80 | 120 | | | |
| Method: E625 | | | | | | | Analy | tical Run: | R275577 |
| Lab ID: 28-Feb-17_CCV_2 | Continuing Ca | libration Verifi | cation Standa | rd | | | | 02/28 | /17 11:39 |
| Benzidine | 89.5 | ug/L | 10 | 119 | 80 | 120 | | | |

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc **Project:** 170217005 LFH-1 CO-0121724

Report Date: 03/02/17
Work Order: C17020566

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|------------------------|-------------------|-----------------------|-------------------------|-----------|------|-----------------|-----------------------|-----|----------------------|------------------|
| Method: | SW8260M | | | | | | | | Analytical Rur | 1: 107003 |
| Lab ID: | CCV-107003 | Continuing Cal | bration Verification | on Standa | ırd | | | | | /17 08:30 |
| 1,4-Dioxane | | 105 | ug/L | 1.0 | 105 | 80 | 120 | | | |
| Method: | SW8260M | | | | _ | | | | Batch | : 107003 |
| Lab ID: 1,4-Dioxane | LCS-107003 | Laboratory Con 106 | itrol Sample ug/L | 1.0 | 106 | Run: VOA5 70 | 973A.I_170227A 130 | | 02/27 | 17 09:22 |
| Lab ID: 1,4-Dioxane | MB-107003 | Method Blank ND | ug/L | 1.0 | | Run: VOA5 | 973A.I_170227A | | 02/27 | 17 09:44 |
| Lab ID: 1,4-Dioxane | C17020566-001BMS | Sample Matrix | Spike ug/L | 2.0 | 100 | Run: VOA5 | 973A.I_170227A 130 | | 02/27/ | 17 11:3 7 |
| Lab ID: 1,4-Dioxane | C17020566-001BMSD | Sample Matrix 9 | Spike Duplicate ug/L | 2.0 | 103 | Run: VOA5 | 973A.I_170227A 130 | 3.0 | 02/27 / 20 | 17 11:59 |

Work Order Receipt Checklist

Colorado Analytical Laboratories Inc C17020566

| Login completed by: | Dorian Quis | | Dat | e Received: 2/21/2017 | |
|---|---------------------------------|----------------|------|------------------------|--|
| Reviewed by: | Kasey Vidick | | F | Received by: dcq | |
| Reviewed Date: | 2/21/2017 | | C | arrier name: Ground | |
| Shipping container/cooler in | good condition? | Yes 🗸 | No 🔲 | Not Present | |
| Custody seals intact on all s | hipping container(s)/cooler(s)? | Yes 🗌 | No 🗌 | Not Present 🗸 | |
| Custody seals intact on all sa | ample bottles? | Yes 🗌 | No 🔲 | Not Present ✓ | |
| Chain of custody present? | | Yes 🗸 | No 🔲 | | |
| Chain of custody signed who | en relinquished and received? | Yes 🗸 | No 🗌 | | |
| Chain of custody agrees with | sample labels? | Yes 🗸 | No 🗌 | | |
| Samples in proper container | bottle? | Yes 🗸 | No 🔲 | | |
| Sample containers intact? | | Yes 🔽 | No 🗌 | | |
| Sufficient sample volume for | indicated test? | Yes 🔽 | No 🗌 | | |
| All samples received within h (Exclude analyses that are co such as pH, DO, Res CI, Sul | insidered field parameters | Yes 🔽 | No 🗀 | | |
| Temp Blank received in all sh | nipping container(s)/cooler(s)? | Yes 🗌 | No 🗹 | Not Applicable | |
| Container/Temp Blank temps | rature: | 6.8°C Blue ica | | | |
| Water - VOA vials have zero | headspace? | Yes 🗸 | No 🗌 | No VOA viats submitted | |
| Water - pH acceptable upon i | receipt? | Yes | No 🗌 | Not Applicable | |
| Standard Danasti | - Dragadona | | | | |

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

None

Chain of Custody Form

| Report To Information | Bill To Information (If different from report to) | Project Name |
|--------------------------------------|---|-----------------------------|
| Company Name: Colorado Analytical | Company Name: Same As Report To | 170217005 |
| Contact Name: Stuart Niclson | Contact Name: | Lfb-1 Co-0121724 |
| Address: 240 S. Main St. | Address: | Task Number (Lab Use Only) |
| | | |
| City Brighton State CQ Zip80601 | City_State_Zip | |
| Phone: 3036592313 Fax: 3036592315 | Phone: Fax: | |
| Email: stuartnielson@coloradolab.com | Email: | Disposal Date(Lab Use Only) |
| Sample Collector: Stephanic Schwenke | PO No.: | |
| | | |

| Colorado Analytical | 240 South Main Street Brighton, CO 80601 |
|---------------------|---|
|---------------------|---|

240 South Main Street
Brighton, CO 80601
Lakewood Lab
12860 W. Cedar Dr., Suite 100A
Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 WWW.coloradolab.com

| 1 1940 CUE | | | | | | | | Senis Present Yes II No FEO | Received By: Date/Time: | 12000 Julius 2/21/17 1150 |
|--|--|--|--|--|--|--|---|-----------------------------|--------------------------|---------------------------|
| | 625 SOCs 1,4 Dioxane | | | | | | | | CS Charge Date/Time: | - { |
| | No. of Containers Grab or (Check One Only) Composite Composite | \[\textsquare \te | | | | | | | Relinguished By: | |
| | Water | | | | | | C/K Tudos | | Deliver | |
| The second second second | Plant Tissue Other Drinking Water | | | | | | | | Date/Time: | |
| The same of the last | 000 | | | | | | | | Received By: | |
| Contract Con | Soli Sludge Compost | 170217005-01 LFH-1 | | | | | nergy Labs | | Date/Filme: | 1600 |
| | Waste Water Ground Water Gurface Water | 17021 | | | | | Instructions: Send via UPS to Energy Lahs | | hed By: | |
| National Property lies | Wash Groun Surfa | 2/16/17 | | | | | Instructi | 6 | Relingui | |

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Inorganic Chemicals Certified Laboratory Report Form

Revised 6/13/2014

| Odorado Departement of Parking Fleath and Envisorment | | 430(Fa | WQCD - Drinking Water CAS 4300 Cherry Creek Drive South, Denver, CO Fax: (303) 758-1398; cdphe.drinkingwater@ | WQCD - Drinking Water CAS 300 Cherry Creek Drive South, Denver, CO 80246-1530 Fax: (303) 758-1398; cdphe.drinkingwater@state.co.us | | | | IOC |
|---|---|--|---|--|--|---------------------|-----------|--------|
| | Section I (Supplied | Section I (Supplied or Completed by Public Water System) Public Water System Information | ic Water System) | Section JI (Supplied | Section II (Supplied or Completed by Certified Laboratory) | rified La | horatory) | |
| PWSID#: C00121724 | | | | Laboratory ID: CO 0015 | Cel tinet trabel attity timefiliation | Папоп | | |
| System Name: | System Name: Sterling Ranch MD | Q1 | | Laboratory Name: Colorado Analytical Laboratory | lytical Laboratory | | ļ. | |
| Contact Person: Mark Volle | 1: Mark Volle | | Phone #: 719-227-0072 | Contact Person: Customer Service | | Phone: 303-659-2313 | 2313 | |
| Comments: | | | Do Samples Need to be Composited BY THE LAB? | Coroments: | | | | |
| | | | | | | | | |
| | | | Section III (Supplied or Comp | I (Supplied or Completed by Public Water System) | | | | |
| Sample Date: 3/23/17 | | Collector: Stephanie Schwe Facility [] | e Facility ID (On Schedule): New Well | | Sample Pt ID (On Schedule): | New Well | ell | |
| | | Se | ection IV Inorganic Chemicals (C | Section IV Inorganic Chemicals (Completed by Certified Laboratory) | | | | |
| Lab Receipt Date | Lab Analysis Date | Lab Sample ID | Analyte Name | CAS No. | Analytical Method | MCL (ms/l.) | Lab MRI. | Result |
| 3/24/17 | 3/24/17 | 170324007-01 | Fluoride | 7681-49-4 | | 4 | 0.09 | 1.22 |
| | | | | | | | - | - |

mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A less than (<) may also used.

4/21/17 170324007-01 1/1

Sampler Name: Report To Informati Company Name: Contact Name: Addressi46 E. Phone: 19-33 Email: MV5/ 3

| Colorado Analytical | | Brighton Lab | 240 South Main Street | Brighton, CO 80601 | Lakewood Lab | 12860 W. Cedar Dr. Suite 100A | | | www.coloradolab.com | |
|---------------------------------|---|---|--------------------------|--------------------|--|---|------------------------------------|-----------------|--|--------------------------------|
| page lot 2 | State Form / Project Information | EVEID: O O TO | System Name: | STRALTING RANCH MD | Address: 20 ROLL For CRESCELE | Carlo | City Spice State Co Zip (1908) | County: El Paso | Compliance Samples: Yes M No | Send Forms to State: Yes No 12 |
| Drinking Water Chain of Custody | Bill To Information (if different from report to) | Company Name: 5R WATER | Contact Name: 575 MORLEY | 1 | Address: 20 BOLLDER CRESSELY 20 ROLLDER CRESSELY | Total Control of the | City 28 POLICE State Cozin 8080 \$ | Phone: Fax: | 126 Whydre from Emili imorter 3870 and com | |
| | ition | 1 DS-Hydro Condultaris company Name: 5R | Mark Volle | | Phles Pear LANG | inte 300 | State SC963 | 97-0079m | Ha which and me | Rechange Schwenke RONG. |

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Drinking Water Chain of Custody

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Address: State ZipSUPUZ page 2052 Email: MVDILE JASHYDro, Com Email: JMONTER 3870@ast.com Compliance Samples: Yes 1000 Send Forms to State: Yes No. 18 State Form / Project Information County: El Passo 5 City Address: 20 Boulder Cresent CINCOLSER SINICOZIN 20103 Bill To Information (If different from report to) Contact Name: Jim Worley Company Name: 305-144dre Consultants Company Name: SR Walter Sampler Name: - ACTION SAMPLE NO. SAMPLE NO. SAMPLE NO. Phone: Starle 21p 80963 Addressiyo E. Piks Peak Ave Contact Name: Mark Volle Suite 200 Phone: 119-327-0073 Report To Information City (5

Colorado Analytical LABORATORIES, INC. Brighton Lab 240 South Main Street Brighton, CO 80601 <u>Lakewood Lab</u> 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com

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Inorganic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS Submit Online at http://www.wqcdcompliance.com/login

Revised 4/13/2015

IOC

| S | ection I (Sumplied | Section I (Sumplied or Completed by Public Water System) | ic Water System) | Section II | Section II (Supplied or Completed by Certified Laboratory) | by Certified I | aboratory | |
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| | Public | Public Water System Information | ation | | Certified Laboratory Information | Information | | |
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| System Name: | System Name: Sterling Ranch MD | 1D | | Laboratory Name: Colo | Laboratory Name: Colorado Analytical Laboratory | ıry | | |
| Contact Person: Mark Volle | 1: Mark Volle | | Phone #: | Contact Person: Customer Service | | Phone: 303-659-2313 | 7-2313 | |
| Comments: | | | Do Samples Need to be Composited BY THE LAB? | Comments: | | : | | |
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| - | | | Section III (Supplied or Comp | I (Supplied or Completed by Public Water System) | cm) | | | |
| Sample Date: 3/23/17 | | Collector: Stephanie Schwe Facility J | | Vew Well | Sample Pt ID (On Schedule): | ule): New Well | Well | |
| | | Se | Section IV Inorganic Chemicals (C | organic Chemicals (Completed by Certified Laboratory) | oratory) | | | |
| Lab Receipt Date | Lab Analysis Date | Lab Sample ID | Analyte Name | CAS No | Analytical | MCI. | Lab MRI. | Result (mu/I) |
| 3/24/17 | 3/29/17 | 170324007-01A | Antimony | 7740-36-0 | E. | 0.006 | 0.001 | BDI. |
| 3/24/17 | 3/29/17 | 170324007-01A | Arsenic | 7440-38-2 | | 0.01 | 0.001 | 0.002 |
| 3/24/17 | 3/29/17 | 170324007-01A | Barium | 7440-39-3 | 3 EPA 200.8 | 2 | 0.001 | 0.003 |
| 3/24/17 | 3/29/17 | 170324007-01A | Beryllium | 7440-41-7 | 7 EPA 200.8 | 0.004 | 0.001 | BDL |
| 3/24/17 | 3/29/17 | 170324007-01A | Cadmium | 7440-43-9 | 9 EPA 200.8 | 0.005 | 0.001 | BDL |
| 3/24/17 | 3/29/17 | 170324007-01A | Chromium | 7440-47-3 | 3 EPA 200.8 | 0.1 | 0.001 | BDL |
| 3/24/17 | 3/29/17 | 170324007-01A | Mercury | 7439-97-6 | 5 EPA 200.8 | 0.002 | 0.0001 | BDL |
| 3/24/17 | 3/29/17 | 170324007-01A | Nickel | 7440-02-0 | EPA 200.8 | N/A | 1000 | 0.001 |
| 3/24/17 | 3/29/17 | 170324007-01A | Selenium | 7782-49-2 | EPA 200.8 | 0.05 | 0.001 | BDL |
| 3/24/17 | 3/30/17 | 170324007-01A | Sodium | 7440-23-5 | 5 EPA 200.7 | N/A | 0.1 | 52.8 |
| 3/24/17 | 3/29/17 | 170324007-01A | Thallium | 7440-28-0 |) EPA 200.8 | 0.002 | 0.001 | BDL |
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mg/L: Milligrams per Liter MCL: Maximum Contaminant Level

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A less than (<) may also used.

4/21/17

170324007-01A

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Drinking Water Chain of Custody

page lot 2

State Co Zip & CHOS Address: 20 BOLLDER CRESCENT 20 BOLLDER CRESCELY STERVENCE RANCH MD Compliance Samples: Yes K No Send Forms to State: Yes | No the State Form / Project Information PWSID: CO OLZI 724 System Name: County: El Paso City COLO Email: M Volle (2) Shuda com Email: smortey 38 toward com City Specific Sinte Cozin 80905 Bill To information (if different from report to) Contact Name: SIM MORLEY Company Name: J DS-Hedro Centel Company Name: 5R WATER Sampler Name: Stechante Schwenke PONO. Phone: Address & Piles Peach Ave (2) San (Com 80903 Contact Name: Mark Volle Suite 325 Phone: 119-337-0074x; Report To Information

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| Colorado Analytical | LABORATORIES, INC. |
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| 6. | - |

240 South Main Street Brighton, CO 80601 Brighton Lab

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

Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com

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Drinking Water Chain of Custody

Bill To Information (If different from report to)

Contact Name: Jim Worley

Company Name: JOS-1-Hodice Consultants Company Name: SR Waster

page 2002

Colorado
Analytical
LABORATORIES, INC.

State Form / Project Information

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Brighton Lab 240 South Main Street Brighton, CO 80601

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

Phone: 303-659-2313 Fax: 303-659-2315

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CIRCLESTO SIMILOZIO 2010 23

Star Con 80903

City (5

Phone: 119-327-00-73

Suite 200

Addrays E. P. Kes Park Ave

Contact Name: Mark VONE

Report To Information

www.coloradolab.com

Compliance Samples: Yes No -

Email: MVolle@jdshydro, Com Email: mortey 3870 @ast.com

Sampler Name: KONGINE SCHUSENKE PO No.

County: El Paso

Send Forms to State: Yes No. D

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| - | Page 3 o | r3' | - 4 | | _ | | | | | | | | | - | | + | ال |



Analytical Results

TASK NO: 170324007

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

Bill To: Jim Morley

Company: SR Water

20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170324007

Client PO:

Client Project: Sterling Ranch MD C00121724

Date Received: 3/24/17

Date Reported: 4/21/17

Matrix: Water - Drinking

Customer Sample ID Sterling Ranch MD

Sample Date/Time: 3/23/17

8:03 AM

Lab Number: 170324007-01

| Test | Result | Method | ML | Date Analyzed | Analyzed By |
|------------------------|---------------------|-------------|------|---------------|-------------|
| Bicarbonate | 99.7 mg/L as CaCO3 | SM 2320-B | 0.1 | 3/28/17 | VDB |
| Calcium as CaCO3 | 2.5 mg/L | SM 3111-B | 0.1 | 3/30/17 | MBN |
| Carbonate | < 0.1 mg/L as CaCO3 | SM 2320-B | 0.1 | 3/28/17 | VDB |
| Langelier Index | -1.23 units | SM 2330-B | | 3/31/17 | LJG |
| pH | 8.16 units | SM 4500-H-B | 0.01 | 3/24/17 | MBN |
| Temperature | 20 °C | SM 4500-H-B | 1 | 3/24/17 | MBN |
| Total Alkalinity | 99.7 mg/L as CaCO3 | SM 2320-B | 0.1 | 3/28/17 | VDB |
| Total Dissolved Solids | 143 mg/L | SM 2540-C | 5 | 3/29/17 | ISG |

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

page lot 2

Colorado Analytical State Form / Project Information Bill To Information (if different from report to) Company Name: J DS-Hydro Consultants company Name: SR WATER Report To Information

| Brighton Lab | 240 South Main Street Brighton, CO 80601 | Lakewood Lab 12860 W. Cedar Dr., Suite 100A | Phone: 303-659-2313 | Fax: 303-659-2315 | www.coloradolab.com | |
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| Company Name: 15-Hedre Condultants Company Name: 5R L | Contact Name: Mark Uplle | Addressig & PhesPeak Ave Swite 200 | 903 | Phone: 119-337-0079ax. | Email: M Vo / Ca joshudic Com Email: imortey 38 to paol, com Compliance Samples: Yes 12 No | Sampler Name: Stechante Schwenke PO No. |

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Colorado Analytical Brighton Lab 240 South Main Street Brighton, CO 80601 Lakewood Lab 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com

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Nitrate and Nitrite as Nitrogen Certified Laboratory Report Form WQCD - Drinking Water CAS Submit Online at http://www.wqcdcompliance.com/login

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mg/L; Milligrams per Liter MCL; Maximum Contaminant Level

NT: Not Tested Lab MRL: Laboratory Minimum Reporting Level BDL: Below Laboratory MRL. A less than (<) may also used. Page 1 of 3

4/21/17 170324007-01 1/1

page lot 2

Colorado Analytical

ABORATORIES, INC.

State Co Zip & Offos 20 BOULDER CRESCENS STERVENCE RANCH MD Compliance Samples: Yes Z No Send Forms to State: Yes | No 12 State Form / Project Information PWSID: CO O(21724 System Name: County: El Paso City 60.05 Address: 20 BOULDER CRESCENT Emall: MVS/16(3 jdshidte Com Emall: inortey 3870(2) and .com City SPACE JUS State COZID 8090 \$ Bill To Information (If different from report to) Contact Name: STM MORLEY Company Name; J DS-Hydro Covoulland Company Name; SR WATER Sampler Name: Stechante Schwenke PONa; **Phone:** Address & Piles Park Ave Scal (2) Sup 809/03 Contact Name: Mark Volle Swite 320 Phone: 119-337-00742x; Report To Information 5 CITY

Lakewood Lab 12860 W. Cedar Dr, Suite 100A

www.coloradolab.com

Phone: 303-659-2313 Lakewood CO 80228

Fax: 303-659-2315

Brighton Lab 240 South Main Street

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| Colorado | - Analytical |
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| | page 2012 |

LABORATORIES, INC.

Brighton Lab 240 South Main Street Brighton, CO 80601 Lakewood Lab 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com

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Organic Chemicals Certified Laboratory Report Form WQCD - Drinking Water CAS Submit Online at http://www.wqcdcompliance.com/login

Revised 4/13/2015

VOC/SOC

| Section I (Supplied or Completed by Public Water System) | Public Water System) | Section II (Sumpl | Section Il (Sumpled or Completed by Certified Laboratory) | v Certified L | aboratory) | |
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| Public Water System Information | formation | Certi | Certified Laboratory Information | nformation | | |
| PWSID#: CO0121724 | | Laboratory ID: CO 00063 | | | | |
| Sterling Ranch MD | | Laboratory Name: Colorado A | Colorado Analytical Laboratory | 7 | | |
| Contact Person: Mark Volle | Phone #: 719-227-0072 | Contact Person: Customer Service | | Phone: 303-659-2313 | -2313 | |
| | Do Samples Need to be Composited BY THE LAB? | Comments: | | | | |
| | | | | | | |
| | Section V (Supplied or Corrol | (Supplied or Completed by Public Water System) | | | | |
| Collector: Stephan | Stephanie Schwenk Facility ID (On Schedule): | New Well | Sample Pt ID (On Schedule): | New Well | | |
| | Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory) | uplied or Completed by Certified | Laboratory) | 1 | | |
| Lab Analysis Lab Sample ID Date | Analyte Name | CAS No | Analytical | MCL (iie/L) | Lab MRL | Result |
| 4/3/17 170324007-01E | Dibromochloropropane | 96-12-8 | EPA 504.1 | 0.2 | 0.02 | BDL |
| | 2,4,-D | 94-75-7 | EPA 515.4 | 70 | 0.1 | BDL |
| | 2,4,5-TP | 93-72-1 | EPA 515.4 | 50 | 0.2 | BDL |
| | Alachlor | 15972-60-8 | EPA 525.2 | 2 | 0.2 | BDL |
| | Aldicarb | 116-06-3 | EPA 531.1 | N/A | 9.0 | BDL |
| - | Aldicarb sulfone | 1646-88-4 | EPA 531.1 | N/A | 1 | BDL |
| | Aldicarb sulfoxide | 1646-87-3 | EPA 531.1 | N/A | 0.7 | BDL |
| | Atrazine | 1912-24-9 | EPA 525.2 | 3 | 0.1 | RDL |
| | Benzo(a)pyrene | 50-32-8 | EPA 525.2 | 0.2 | 0.02 | BDL |
| | Carbofuran | 1563-66-2 | EPA 531.1 | 40 | 6'0 | BDL |
| | Chlordanc | 57-74-9 | EPA 505 | 7 | 0.2 | BDL |
| | Dalapon | 75-99-0 | EPA 515.4 | 200 | _ | BDL |
| | Di(2-ethylhexyl)adipate | 103-23-1 | EPA 525.2 | 400 | 9.0 | BDL |
| 1 | Di(2-ethylhexyl)phthalate | 117-81-7 | EPA 525.2 | 9 | 9.0 | BDI. |
| | Dinosch | 85-85-7 | EPA 515.4 | 7 | 0.2 | BDL |
| 1 | Diquat | 85-00-7 | EPA 549.2 | 20 | 0.4 | BDL |
| | Endothall | 145-73-3 | EPA 548.1 | 100 | 6 | BDL |
| | Endrin | 72-20-8 | EPA 505 | 2 | 0.01 | BDL |
| | Ethylene dibromide | 106-93-4 | EPA 504.1 | 0.05 | 0.01 | BDL |
| | Heptachlor | 76-44-8 | EPA 525.2 | 6.4 | 0.04 | BDL |
| 3/30/17 170324007-01F | Heptachlor epoxide | 1024-57-3 | HPA 505 | 0.2 | 0.02 | BDL |

NT: Not Tested ug/L: Micrograms per Liter MCL: Maximum Contaminant Level BDL Below Laboratory MRL A less than sign (<) may also be used.

170324007-01 N

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| | | | Result | (ug/L) | RDI. | Rni | RNI | BDI | Dur | | | RDI | RNI | RDI |
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| | Vell | | Lab MRL | (mg/L) | 0.1 | - | 0 00 | 0 | - | 700 | 3 2 | 0 | 0.07 | - |
| | New Well | 1 | MCL | (ug/L.) | ĭ | 95 | 0.2 | 40 | 000 | - | 909 | 0.5 | 4 | |
| | Sample Pt ID (On Schedule): | aboratory) | Analytical | Method | EPA 505 | EPA 505 | EPA 505 | EPA 505 | EPA 531 1 | EPA 515.4 | EPA 515.4 | EPA 505 | EPA 525.2 | EPA 505 |
| olic Water System) | Vell Sample Pt | mpleted by Certified L | CAS No. | | 118-74-1 | 77-47-4 | 58-89-9 | 72-43-5 | 23135-22-0 | 87-86-5 | 1918-02-1 | 1336-36-3 | 122-34-9 | 8001-35-2 |
| Section V (Supplied or Completed by Public Water System) | Stephanie Schwenk Facility ID (On Schedule): New Well | Section VI Synthetic Organic Chemicals (Supplied or Completed by Certified Laboratory) | Analyte Name | | Hexachlorobenzene | Hexachlorocyclopentadiene | Lindane | Methoxychlor | Oxamyl | Pentachlorophenol | Pictoram | Polychlorinated biphenyl's | Simazine | Toxaphene |
| | Collector: Stephanie | Section VI | Lab Sample ID | | 170324007-01F | 170324007-01F | 170324007-01F | 170324007-01F | 170324007-013 | 170324007-01G | 170324007-01G | 170324007-01F | 170324007-011 | 170324007-01F |
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page lot 2

Colorado Analytical

ABORATORIES, INC.

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City

Page 3 of 4

Lakewood Lab 12860 W. Cedar Dr, Suite 100A

www.coloradolab.com

Phone: 303-659-2313

Fax: 303-659-2315

Lakewood CO 80228

Brighton Lab 240 South Main Street

Brighton, CO 80601

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Bill To Information (If different from report to)

Company Name: JB-14 dre Consultants Company Name: SR Waser

page 2012

State Form / Project Information

Analytical LABORATORIES, INC. System Name:
System Name:
System Name:
Set live Ranch MD
Address:
Address:
Address:
Address:

Brighton Lab 240 South Main Street Brighton, CO 80601

Phone: 303-659-2313 Lakewood CO 80228

Stark ZipSUJU3

City (5)

CIDCASAR SIMILOZIN 20103

Star Con 80903

City (5)

Phone: 119-337-0013

Suff 200

Address: 20 Bandder Cresent

Addressis E. P. Kis Park Ave

Contact Name: Mark Volle

Report To Information

Contact Name: Jim Moder

Fax: 303-659-2315

12860 W. Cedar Dr, Suite 100A

Lakewood Lab

www.coloradolab.com

Compliance Samples: Yes M No

Email: MVolle@jdshydro, Con Email: jmorten 3870@ast.com

Sampler Name: Korking Schwenke Po No.

Page 4 of 4

County: El Paso

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| | Í | | Client Sample ID / EP Code | 17 | # | 3 | | ¥ | # | # | 华 | | # | ļ |
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| | ask i | 170324007 ARF | Ë | 300 | 4 | | 1 | 5 | ŝ | Ŝ | જે | å | € | |
| | CAL Task No. | 1703 | Date | 2 | _ | ١ | + | - | - | إج | | | \ | ļ |
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Sample Pres. Yes No Date/Time:

°C/Ice

C/S Charge | Temp.

Date/Time:

Relinquished By: Delivered Via:

Date/Time:

Received By:

Date/Time:

Relinquished By

8:39

Instructions:

3-23 (1: 30am

d

Received By:

Seals Present Yes No Headspace Yes No



Radionuclides Certified Laboratory Report Form

WQCD - Drinking Water CAS

4300 Cherry Creek Drive South; Denver, CO 80246-1530 Fax: (303) 758-1398; cdnhe.drinkingwater@state.co.us



| and Environment | | 4 | rax: (303) /38-1398; cdphe.drinkingwater@state.co.us | cdphe.drinkingw | ater@state.co.us | | | | |
|-------------------------|-----------------------------------|--|--|------------------------------|--|----------------------------------|-----------------------|---------------|------------|
| | Section | Section I (Supplied or Completed by Public | ıblic Water System) | | Section II (Supplied or Completed by Certified Laboratory) | d or Completed 1 | by Certified L | aboratory) | |
| | ī | Public Water System Information | | | Certified La | Certified Laboratory Information | nation | | |
| PWS ID: C00121724 | 21724 | | | Laboratory ID: CO 00008 | 30000 C | | | | |
| System Name: | System Name: Sterling Ranch MD | QW. | | Laboratory Name. | Laboratory Name: Hazen Research, Inc. | | | | |
| Contact Person: | • • | | Phone #: | Contact Person: Jessica Axen | ssica Axen | | Phone #: 303-279-4501 | 279-4501 | |
| Comments: | | | Do Samples Need to be Composited BY THE LAB? | Comments: | | | | | |
| | | | | | | | | | |
| | | | Section III (Supp | lied or Completed by | Section III (Supplied or Completed by Public Water System) | | | | |
| Sample Date: 03/23/2017 | 03/23/2017 | Collector: | Facility ID (On Schedule): | | Sample Pt ID (On Schedule): | | | : | |
| | | | Section IV Radionuclide | s (Supplied or Compl | Section IV Radionuclides (Supplied or Completed by Certified Laboratory) | ory) | | | |
| Lab Receipt Date | Lab Receipt Lab Analysis Date | Lab Sample ID | Analyte Name (Code) | e (Code) | CAS No. | Analytical Method | MCL | Lab MRL | Result |
| 03/24/2017 | 04/18/2017 | C27017-001 | Gross Alpha Including Uranium (4002) | , Uranium (4002) | 12587-46-1 | SM 7110 B | N/A | 1.5 | 0.0(±1.5) |
| | | | Combined Uranium (4006) | ium (4006) | 7440-61-1 | D2907-97 | 30 ug/L | | |
| 03/24/2017 | 04/07/2017 | C27017-001 | Radium -226 (4020) | (4020) | 13982-63-3 | SM 7500-RaB | N/A | 0.1 | 0.4(±0.3) |
| 03/24/2017 | 03/30/2017 | C27017-001 | Radium -228 (4030) | (4030) | 15262-20-1 | EPA Ra-05 | N/A | 9.0 | 0.2(±0.6) |
| 03/24/2017 | 04/18/2017 | C27017-001 | Gross Beta (4100) | (4100) | 12587-47-2 | SM 7110 B | 50 pCi/l.* | 2.1 | 0.0(±2.0) |
| | | | Total Dissolved Solids (1930) | lolids (1930) | | EPA 160.3 | N/A | | |
| *The MCL fo | r Gross Beta | *The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern. | r. Since there is no simp | le conversion betwe | en mrem/year and pCi/L | EPA considers 5 | 50 pCi/L to b | e the level o | f concern. |
| | | | Section V Calculated Values | d Values | | | | | |
| | | N/A | Gross Alpha Excluding Uranium (4000) | g Uranium (4000) | Calculated Value | alue | 15 pCi/L | N/A | |
| | | | Combined Radium {-226 & -228} (4010) | 26 & -228} (4010) | Calculated Value | alue | 5 pCi/L | N/A | |
| | | | | | | | | | |

NT: Not Tested

Lab MRL: Laboratory Minimum Reporting Level

BDL: Below Laboratory MRL. A less than sign (<) may also be used

ug/L: Micrograms per Liter

pCi/L.: Picocuries per Liter MCL: Maximum Contaminant Level

| Report To Information | Bill To Information (If different from report to) | State Form / Project Information | |
|--|---|--|--|
| Company Name: Colorado Analytical Labs | Company Name: <u>same</u> | PWSID: C00121724 | |
| Contact Name: Stuart Nielson | Contact Name: | System Name: Sterling Ranch MD | |
| Address: P.O. Box 507 | Address: | System Address: 20 Boulder Crescent | |
| City: Brighton State: CO Zip: 80601 | City: State: Zip: | City: Colo Spgs State: CO Zip: 80903 | |
| Phone:303-659-2313 Fax:303-659-2315 | Phone: Fax: | County: El Paso | |
| Email: stuartnielson@coloradolab.com | Email: | Compliance Samples: Yes X No | |
| Sampler Name: | PO No.: | Send Forms to State: Yes 🔲 No 🛛 | |
| | | | |

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| inelytic Inc. | |
| <u>ai</u> | |

Brighton Lab
240 South Main Street
Brighton, CO 80601

Lakewood Lab 12860 W. Cedar Dr, Suite 101 Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315

www.coloradolab.com

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|-----------------|------------------------|--|-----|----------------------|----------------------|-----------|-------------------|---|---|---|-----------------------------|----------------------------|---------------------------------------|-----------|---------------------------------|
| Relinguished By | > | Instruct Please p | | | | | | | | | 3/23/17 | Date | A | 1703 | CAL Task No. |
| Shed By: | | rint results | | | | | | | | | 08:03 | Time | ARE | 170324007 | ask No. |
| B | | s Alpha, with on Colorado | | | | | | | | | 170324007 | Client Sa | | | |
| 1150 | | Instructions: Gross Alpha, without Radon & Uranium. ** Combined Radium -226 & Please print results on Colorado State form but do not submit to CDPHE. Thank you. | | | | | | | | | 170324007 Sterling Ranch MD | Client Sample ID / EP Code | | ; | |
| Received By: | | Uranium. *: It do not sub | | | | | | | | | WD D | Code | | | |
| ed By | : | mit to | | | | | | | | | 6 | No. c | f Containers | | |
| | | ** Combined Radium -226 & -228 ubmit to CDPHE. Thank you. | | | | | | | | | | (mg/l | lual Chlorine L) Samples Only | | |
| | | dium Tha | | | | | | | | | | Tota | l Coliform P/ | A | |
| | | -226 nk yo | | | | | | | | | | 504. | EDB/DBCI | • | |
| Date | | Ē & | | | | | | | | | | 505 | Pests/PCBs | | |
| Date/Time: | | 26. | | | | | | | | | | 515. | 4 Herbicides | | PH |
| 1 | | | | | | | | | | | | 524. | 2 VOCs | | PHASE I, II, V Drinking |
| | Deli | C/S | | | | | | | | | | 525. | 2 SOCs-Pest | | I, I |
| Rel | Delivered Via: | C/S Into: | | | | | | | | | | 531. | 1 Carbamates | | Į, v |
| Relinquished | Via: | | | | | | | | | | | 547 | Glyphosate | | Drie |
| shed | | | | | | | | | | | | 548. | I Endothall | | Kin |
| By: | 7 | | | | | | | | | | | 549. | 2 Diquat | | 89 |
| | | | | | | | | | | | | 524. | 2 TTHMs | | Water Analyses (check analysis) |
| | | | | | | | П | | | | | 552. | 2 HAA5s | | Ams |
| D | C/S | | Ī | $\overline{\exists}$ | | | $\overline{\Box}$ | | П | | | Lead | /Copper | | llyse |
| Date/Time: | C/S Charge | | Ħ | $\overline{\exists}$ | H | | $\overline{\Box}$ | | | | | Nitra | ite | | S (C) |
| me: | | | | $\overline{\Box}$ | $\overline{\Box}$ | | П | | H | П | | Nitri | te | | leck |
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| 23 | Sample Pres Yes 🗌 No 🗌 | Headspace Yes | | H | 뒴 | | | | | | \boxtimes | Gros | s Alpha /Bet | a | Sub |
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Analytical Results

TASK NO: 170324007

Report To: Mark Volle

Company: JDS Hydro Consultants

545 E. Pikes Peak Ave

Suite 300

Colorado Springs CO 80903

Bill To: Jim Morley

Company: SR Water

20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170324007

Client PO:

Client Project: Sterling Ranch MD C00121724

Date Received: 3/24/17

Date Reported: 4/21/17

Matrix: Water - Drinking

Customer Sample ID Sterling Ranch MD Sample Date/Time: 3/23/17

Lab Number: 170324007-01

Facility ID: New Well Sample Point ID: New Well

| Test | Result | Method | ML | Date Analyzed | Analyzed By |
|----------------------|-------------------|-----------|-------------------|---------------|-------------|
| Chloride | 1.3 mg/L | EPA 300.0 | 0.1 mg/L | 3/24/17 | ЫG |
| Cyanide-Free | < 0.005 mg/L | EPA 335.4 | 0.005 mg/L | | VDB |
| E-Coli | < 1 mpn/100ml | Colliert | 1 mpn/100mi | 3/25/17 | VDB |
| Sulfate | 10.7 mg/L | EPA 300.0 | 0.1 mg/L | | LJG |
| Total Coliform | 68 mpn/100ml | Colifert | 1 mpn/100ml | 3/25/17 | VDB |
| Total Organic Carbon | < 0.5 mg/L | SM 5310-C | 0.5 mg/L | 3/28/17 | ISG |
| Turbidity | 1.08 NTU | SM 2130-B | 0.01 NTU | | MBN |
| <u>Total</u> | | | | | |
| Aluminum | 0.032 mg/L | EPA 200.8 | 0.001 mg/L | 3/29/17 | TCD |
| Calcium | 1.0 mg/L | EPA 200.7 | 0.1 mg/L | 3/29/17 | MBN |
| Copper | < 0.0008 mg/L | EPA 200.8 | 0.0008 mg/L | 3/29/17 | TCD |
| iron | 0.180 mg/L | EPA 200.7 | 0.005 mg/L | 3/30/17 | MBN |
| Lead | 0.0002 mg/L | EPA 200.8 | 0.0001 mg/L | 3/29/17 | TCD |
| Magnesium | 0.06 mg/L | EPA 200.7 | 0.02 mg/L | 3/29/17 | MBN |
| Manganese | 0.0071 mg/L | EPA 200.8 | 0.0008 mg/L | 3/29/17 | TCD |
| Potassium | 1.0 mg/L | EPA 200.7 | 0.1 mg/L | 3/29/17 | MBN |
| Silver | < 0.0001 mg/L | EPA 200.8 | 0.0001 mg/L | 3/29/17 | TCD |
| Strontium | 0.009 mg/L | EPA 200.8 | 0.005 mg/L | 3/29/17 | TCD |
| Total Hardness | 2.7 mg/L as CaCO3 | SM 2340-B | 0.1 mg/L as CaCO3 | 3/30/17 | MBN |
| Uranium | < 0.0002 mg/L | EPA 200.8 | 0.0002 mg/L | 3/29/17 | TCD |
| Zinc | 0.002 mg/L | EPA 200.8 | 0.001 mg/L | 3/29/17 | TCD |

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY



Analytical Results

TASK NO: 170324007

Report To: Mark Volle Company: JDS Hydro Consultants 545 E. Pikes Peak Ave Suite 300 Colorado Springs CO 80903

Bill To: Jim Morley Company: SR Water

20 Boulder Crescent St. Colorado Springs CO 80903

Task No.: 170324007

Client PO:

Client Project: Sterling Ranch MD CO0121724

Date Received: 3/24/17 Date Reported: 4/21/17

Matrix: Water - Drinking

Customer Sample ID Sterling Ranch MD Sample Date/Time: 3/23/17

Lab Number: 170324007-01

Facility ID: New Well Sample Point ID: New Well

Test Result Method ML Date Analyzed Analyzed By Total

Zinc

0.002 mg/L

EPA 200.8

0.001 mg/L

3/29/17

TCD

Abbreviations/ References:

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

DATA APPROVED FOR RELEASE BY

page lot 2

Colorado Analytical

LABORATORIES, INC.

State Co Zip & CHOS 20 BOULDER CARSCRING STERVENCE RANCH MD Compliance Samples: Yes K No Send Forms to State: Yes | No 2 State Form / Project Information PWSID: CO O(21724 System Name: County: El Paso Cily 60.05 Address: 20 BOULDER CRESCEIN Email: MV5/ka (Jshuda Com Email: inorley 38 to Dad . com City APPRAICS State Cozza 80805 Bill To Information (if different from report to) Contact Name: JEM MORLEY Company Name: J DS-H-Ldro Congany Name: SR WATER Sampler Name: Stechante Schwenke PONO. Phone: Address & Piles Park Ave Sun (2021) 809/03 Contact Name: Mark Volle Suite 300 Phone: 119-337-0074 Report To Information 5 City

Lakewood Lab 12860 W. Cedar Dr, Suite 100A

www.coloradolab.com

Phone: 303-659-2313 Lakewood CO 80228

Fax: 303-659-2315

Brighton Lab 240 South Main Street

Brighton, CO 80601

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| \L Ta | 70324 ARF | | _ | | 11 | ~ | 5 | - | 2_ | - | 7 | 60 |
| 3 | - | Date | 3-33 | | | | | _ | _ | | 7 | |
| l | Page 3 of 4 | | | | | | | | | \Box | | |

Page 3 of 4

Seals Present Ves | No W Headspace Yes W No W

Sample Pres. Yes MINO Date/Time:

C/S Charge ☐ Temp. 3.3 °C/Ice V

With the bothe shipment. Please preserve Diquot
Sample #8 as soon as you receive this shipment, Delivered Via: Fed Ex
Relinquiphed By: Date Time: Received By: Date Time: Relinquiphed By:

preservative was included

Instructions: No 14,3504

3-23 11:30m 50ice (Mulban 3/24171010

Received By:

page 2012

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System Name:
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Addr State Zipyuga Compliance Samples: Yes V No Send Forms to State: Yes No. 10 State Form / Project Information County: El Passo City (S Email: MVolle@jdshydre, Com Email: jmorten 3870@ast.com Address: 25 Bondder Cresent CIDCASOR SINCOZIO 20103 Bill To Information (If different from report to) Company Name: JDS-Hydro Consultants Company Name: SR Waster Contact Name: Jim Worker Sampler Name: KONGINE SCHUSENKE PO No. Starle Zip 80963 Addressis E. Piles Park Ave Suite 200 Contact Name: Mark Volle Phone: 719-327-0073 Report To Information City (5

LABORATORIES, INC.

Brighton Lab 240 South Main Street Brighton, CO 80601 Lakewood Lab 12860 W. Cedar Dr, Suite 100A Lakewood CO 80228

Phone: 303-659-2313 Fax: 303-659-2315 www.coloradolab.com

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| PHASE I, II, V | SOCs-Pest | | | | Н | \Vdash | + | \vdash | _ | X | | _ | C/S Info: | Delivered Via: | Reli |
| ASE | | | | | H | | + | | | _ | - | | 2 | ۵ | |
| PH/ | toli 150 | | _ | | Ц | + | | - | Ш | | | × | | | |
| | Herbicides | | _ | | Н | - | - | _ | | | | _ | | | : E |
| | cats/PCBs | | | | | - | _ | <u> </u> | | | X | | | | Date/Time: |
| | EDB/DBCb | | | | Ц | | • | | Щ | | ļ., | _ | | | Dad |
| _ | A/4 mrofiloD | | | | | 4 | | | | | | | | | |
| | | 7/ 3 m) | | | | | | | | | | | | Ì | |
| | sal Chlorine | Residu | | | | | - | _ | *** | 4 | ν, | ` | | | <u>.</u> |
| | Containers | 10.0V | | X | 3 | 14 | 100 | 3 | B | 36 | Ŵ | y | | | S S |
| | | | | | 1 | | T | 3 | | | | | | | Received By: |
| | | ge | | | İ | | | 1,4 Digitane | | | | | | | |
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| | | Sam | _ | 413 | 7 | 1 | 1 5 | - | 一十 | 4 | 10 | D L | | | S-23 |
| | | Client Sample ID / EP Code | 4 | # | 4 | 3 | # | # | * | | # | # | | ŀ | (N e |
| | | <u></u> | | 1 | | | | Ш | | | | | | | d |
| ġ | 70 | Time | 300 | €:00 € | | 7.5 | 8:10 | 2008 | %अ | 8:3 | 8,6 | 8:39 | 1 22 | 1 | |
| ask | 3240(ARF | | Š | 8 | _ | ō | 100 | Ŝ | مَو | å | 80 | 8 | tion | | ished Ez. |
| CAL Task No. | 170324007 ARF | 멸 | 323 | _ | | _ | <u> </u> | | | | | | Instructions: | | Relinquished by |
| ر د | | Date | 4 | | | | | | | | 7 | | | | 4 / |
| | Page 4 o | . ** | | | | _ | | | | | | | | | 7/-) |

Billings, MT 800.735.4489 • Casper, WY 888.235.051 Gillette, WY 866.686.7175 • Helena, MT 877.472.071

ANALYTICAL SUMMARY REPORT

April 06, 2017

Colorado Analytical Laboratories Inc PO Drawer 507 Brighton, CO 80601

Work Order:

C17030850

Quote ID: C4542 - 624, 625, 1,4-Dioxane

Project Name:

170324007 Sterling Ranch MD

Energy Laboratories, Inc. Casper WY received the following 1 sample for Colorado Analytical Laboratories Inc on 3/28/2017

for analysis.

| Lab ID | Client Sample ID | Collect Date F | Receive Date | Matrix | Test |
|---------------|--------------------------------|----------------|--------------|-------------|---|
| C17030850-001 | 170324007 Sterling Ranch MD | 03/23/17 8:03 | 03/28/17 | Groundwater | Azeotropic Distilation Separatory Funnel Liquid-Liquid Ext Semi-Volatile Organic Compounds 624-Purgeable Organics Volatile Compounds by Azeotropic Distillation |

The results as reported relate only to the item(s) submitted for testing. The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these test results, please call.

Report Approved By:

Digitally signed by Randy Horton

Date: 2017.04.06 16:31:29 -06:00

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 886.686.7175 • Helena, MT 677.472.0711

CLIENT: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Work Order: C17030850

Report Date: 04/06/17

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.





LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project:

170324007 Sterling Ranch MD

Lab ID:

C17030850-001

Client Sample ID: 170324007 Sterling Ranch MD

Report Date: 04/06/17

Collection Date: 03/23/17 08:03

DateReceived: 03/28/17

Matrix: Groundwater

| | | | | | MCL/ | | |
|--|---------------|------------|------------|----------|--------------|-------------|-------------------------------|
| Analyses | Result | Units | Qualifiers | RL | QCL ! | Method | Analysis Date / By |
| VOCS BY AZEOTROPIC DISTILLATION | | | | | | | |
| 1,4-Dioxane | ND | ug/L | | 1.0 | 18 | SW8260M | 04/06/17 09:34 / eli-b |
| Analysis by direct aqueous injection of the sample of quantitate the 1,4-Dioxane and account for any variation | distillate. A | deuterated | | xane was | added to the | sample prio | r to distillation and used to |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | |
| Acetone | ND | ug/L | | 20 | E | 624 | 03/31/17 16:09 / eli-b |
| Acetonitrile | ND | ug/L | | 20 | E | 624 | 03/31/17 16:09 / eli-b |
| Acrolein | ND | ug/L | | 20 | E | 624 | 03/31/17 16:09 / eli-b |
| Acrylonitrile | ND | ug/L | | 20 | E | 624 | 03/31/17 16:09 / ell-b |
| Benzene | ND | ug/L | | 1.0 | 8 | 624 | 03/31/17 16:09 / eli-b |
| Bromobenzene | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| Bromochloromethane | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / ell-b |
| Bromodichloromethane | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| Bromoform | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| Bromomethane | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| Carbon disulfide | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| Carbon tetrachloride | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| Chlorobenzene | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| Chlorodibromomethane | ND | ug/L | | 1.0 | Е | 624 | 03/31/17 16:09 / eli-b |
| Chloroethane | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / ell-b |
| 2-Chloroethyl vinyl ether | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| Chloroform | ND | ug/L | | 1.0 | Е | 624 | 03/31/17 16:09 / eli-b |
| Chloromethane | ND | ug/L | | 1.0 | Е | 624 | 03/31/17 16:09 / eli-b |
| 2-Chlorotoluene | ND | ug/L | | 1.0 | Е | 624 | 03/31/17 16:09 / eli-b |
| 4-Chlorofoluene | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| 1,2-Dibromoethane | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| Dibromomethane | ND | ug/L | | 1.0 | Ε | 624 | 03/31/17 16:09 / ell-b |
| 1,2-Dichlorobenzene | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| 1,3-Dichlorobenzene | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| 1,4-Dichlorobenzene | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / ell-b |
| Dichlorodifiuoromethane | ND | ug/L | | 1.0 | Е | 624 | 03/31/17 16:09 / eli-b |
| 1,1-Dichloroethane | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| 1,2-Dichloroethane | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| 1,1-Dichloroethene | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| cis-1,2-Dichioroethene | | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| trans-1,2-Dichloroethene | | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| 1,2-Dichloropropane | ND | ug/L | | 1.0 | E | 624 | 03/31/17 16:09 / eli-b |
| 1,3-Dichloropropane | | ug/L | | 1.0 | | 624 | 03/31/17 16:09 / eli-b |
| 2,2-Dichloropropane | | ug/L | | 1.0 | | 624 | 03/31/17 16:09 / ell-b |
| 1,1-Dichloropropene | | ug/L | | 1.0 | | 624 | 03/31/17 16:09 / eli-b |
| cis-1,3-Dichloropropene | | ug/L | | 1.0 | | 624 | 03/31/17 16:09 / eli-b |
| trans-1,3-Dichioropropene | | ug/L | | 1.0 | | 624 | 03/31/17 16:09 / eli-b |
| Ethylbenzene | | ug/L | | 1.0 | | 624 | 03/31/17 16:09 / ell-b |

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project: Lab ID:

C17030850-001

Client Sample ID: 170324007 Sterling Ranch MD

170324007 Sterling Ranch MD

Report Date: 04/06/17

Collection Date: 03/23/17 08:03

DateReceived: 03/28/17

Matrix: Groundwater

| Analyses | Result | Unife | Qualifiers | RL | MCL/ QCL Method | Analysis Date / By |
|--------------------------------|----------|--------|----------------|--------|--------------------|---------------------------|
| reserved. | - Neartt | OFFICE | Acres 11 (C) 2 | NL. | WOL MENIOR | Aridiyala Date / Dy |
| VOLATILE ORGANIC COMPOUNDS | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | ug/L | | 2.0 | E624 | 03/31/17 16:09 / eli-b |
| Methyl ethyl ketone | ND | ug/L | | 20 | E624 | 03/31/17 16:09 / eli-b |
| Methyl isobutyl ketone | ND | ug/L | | 10 | E624 | 03/31/17 16:09 / eli-b |
| Methylene chloride | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / ell-b |
| Naphthalene | | ug/L | | 0.50 | E624 | 03/31/17 16:09 / eli-b |
| Styrene | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| Tetrachloroethene | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / ell-b |
| 1,1,1,2-Tetrachloroethane | ND | _ | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| 1,1,2,2-Tetrachloroethane | ND | _ | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| Toluene | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| Trichloroethene | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| 1,1,1-Trichloroethane | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| 1,1,2-Trichloroethane | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| Trichlorofluoromethane | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / ell-b |
| 1,2,3-Trichloropropane | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| Vinyl Acetate | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| Vinyl chloride | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| n+p-Xylenes | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| >-Xylene | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| Kylenes, Total | ND | ug/L | | 1.0 | E624 | 03/31/17 16:09 / eli-b |
| Surr: 1,2-Dichloroethane-d4 | | %REC | | 71-139 | E624 | 03/31/17 16:09 / eli-b |
| Surr: p-Bromofluorobenzene | | %REC | | 80-127 | E624 | 03/31/17 16:09 / eli-b |
| Surr: Toluene-d8 | | %REC | | 80-123 | E624 | 03/31/17 16:09 / eli-b |
| | | 70:420 | | 00-120 | LUZT | U-119 1 60.04 1 11 101000 |
| SEMI-VOLATILE ORGANIC COMPOU | | | | | | |
| Acenaphthene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| Acenaphthylene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| Anthracene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| *zobenzene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| Benzidine | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| Benzo(a)anthracene | | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| Benzo(a)pyrene | | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| Benzo(b)fluoranthene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| Benzo(g,h,i)perylene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / elí-b |
| Benzo(k)fluoranthene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| -Bromophenyl phenyl ether | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| sutylbenzylphthalate | QN | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| -Chloro-3-methyiphenoi | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| is(-2-chloroethoxy)Methane | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| is(-2-chloroethyl)Ether | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| is(2-chloroisopropyl)Ether | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| 2-Chloronaphthalene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| 2-Chlorophenol | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |

Report Definitions: RL - Analyte reporting limit.

QCL - Quality control (imit.

MCL - Maximum contaminant level.

Matrix: Groundwater

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project:

170324007 Sterling Ranch MD

Lab ID:

C17030850-001

Client Sample ID: 170324007 Sterling Ranch MD

Report Date: 04/06/17

Collection Date: 03/23/17 08:03

DateReceived: 03/28/17

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL Method | Analysis Date / By |
|-----------------------------|----------|--------------|------------|-------|--------------------|--|
| SEMI-VOLATILE ORGANIC COMP | OUNDS | | | *** | | |
| 4-Chlorophenyl phenyl ether | ND. | ug/L | | 10 | E625 | 03/30/17 17:14 / ell-b |
| Chrysene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| Diethyl phthalate | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| Di-n-butyl phthalate | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| 1,2-Dichlorobenzene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / ell-b |
| i 3-Dichlorobenzene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| .4-Dichlorobenzene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| 3,3'-Dichlorobenzidine | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| 2,4-Dichlorophenol | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| Dimethyl phthalate | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| Di-n-octyl phthalate | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / ell-b |
| Dibenzo(a,h)anthracene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| 2,4-Dimethylphenol | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| .6-Dinitro-2-methylphenol | ND | ug/L | | 50 | E625 | 03/30/17 17:14 / eli-b |
| ,4-Dinitrophenol | ND | ug/L | | 50 | E625 | 03/30/17 17:14 / ell-b |
| 4.4-Dinitrotoluene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| #.6-Dinitrotoluene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| is(2-ethylhexyl)Phthalate | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| luoranthene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / ell-b |
| luorene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| lexachicrobenzene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| lexachlorobutadiene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| lexachiorocyclopentadiene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| lexactilorocydoperitadiene | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| ndeno(1,2,3-cd)pyrene | ND | ug/L ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| * ** * | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| sophorone | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / ell-b |
| -Nitrosodimethylamine | ND | ug/L ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| -Nitroso-di-n-propylamine | ND | _ | | 10 | E625 | 03/30/17 17:14 / eli-b |
| -Nitrosodiphenylamine | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / ell-b |
| -Nitrophenol | | ug/L | | 50 | E625 | 03/30/17 17:14 / eli-b |
| -Nitrophenol | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| laphthalene | ND ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| litrobenzene | | ug/L | | 50 | E625 | 03/30/17 17:14 / eli-b |
| rentachiorophenol | ND | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b |
| henanthrene | ND | ug/L | | | | 03/30/17 17:14 / eli-b |
| henoi | | ug/L | | 10 | E625 | |
| yrene | | ug/L | | 10 | E625 | 03/30/17 17:14 / eli-b 03/30/17 17:14 / eli-b |
| ,2,4-Trichlorobenzene | ND | _ | | 10 | E625 | |
| ,4,6-Trichlorophenol | | ug/L | | 10 | E625 | 03/30/17 17:14 / ell-b |
| Surr: 2-Fluorobiphenyl | | %REC | | 3-107 | E625 | 03/30/17 17:14 / eli-b |
| Surr: 2-Fluorophenol | | %REC | | 0-56 | E625 | 03/30/17 17:14 / eli-b |
| Surr: Nitrobenzene-d5 | | %REC | | 2-94 | E625 | 03/30/17 17:14 / eli-b |
| Surr: Phenoi-d5 | 27.0 | %REC | 1 | 9-45 | E625 | 03/30/17 17:14 / eli-b |

Report

RL - Analyte reporting limit.

Definitions:

QCL - Quality control limit.

MCL - Maximum contaminant level.

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

Colorado Analytical Laboratories Inc

Project:

170324007 Sterling Ranch MD

Lab ID:

C17030850-001

Client Sample ID: 170324007 Sterling Ranch MD

Report Date: 04/06/17

Collection Date: 03/23/17 08:03

DateReceived: 03/28/17

Matrix: Groundwater

| Analyses | Result Units | Qualifiers RL | MCL/ QCL Method | Analysis Date / By |
|----------------------------|--------------|---------------|--------------------|------------------------|
| SEMI-VOLATILE ORGANIC COMP | OUNDS | | | |
| Surr: Terphenyl-d14 | 70.0 %REC | 32-122 | E625 | 03/30/17 17:14 / ell-b |
| Surr: 2,4,6-Tribromophenol | 68.0 %REC | 21-130 | E625 | 03/30/17 17:14 / eli-b |

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|---------------|---------------|------------------|------|-----------|------------|-----|---------------|------------|
| Method: E624 | | | | | | | An | alytical Run: | R27728 |
| Lab ID: ccv033117 | Continuing Ca | dibration Ver | ification Standa | ard | | | | 03/31 | 1/17 08:45 |
| Acetone | 58.0 | ug/L | 20 | 116 | 70 | 130 | | | |
| Acetonitrile | 56.4 | ug/L | 20 | 113 | 70 | 130 | | | |
| Acrolein | 56.4 | ug/L | 20 | 113 | 70 | 130 | | | |
| Acrylonitrile | 49.6 | ug/L | 20 | 99 | 70 | 130 | | | |
| Benzene | 5.08 | ug/L | 0.50 | 102 | 70 | 130 | | | |
| Bromobenzene | 5.04 | ug/L | 0.50 | 101 | 70 | 130 | | | |
| Bromochioromethane | 5.36 | ug/L | 0.50 | 107 | 70 | 130 | | | |
| Bromodichloromethane | 4.92 | ug/L | 0,50 | 98 | 70 | 130 | | | |
| Bromoform | 5.04 | ug/L | 0.50 | 101 | 70 | 130 | | | |
| Bromomethane | 4,28 | ug/L | 0.50 | 86 | 70 | 130 | | | |
| Carbon disulfide | 5.32 | ug/L | 0.50 | 106 | 70 | 130 | | | |
| Carbon tetrachloride | 5.80 | ug/L | 0.50 | 116 | 70 | 130 | | | |
| Chlorobenzene | 4.56 | ug/L | 0.50 | 91 | 70 | 130 | | | |
| Chlorodibromomethane | 5.04 | ug/L | 0.50 | 101 | 70 | 130 | | | |
| Chloroethane | 4.80 | ug/L | 0,50 | 96 | 70 | 130 | | | |
| 2-Chloroethyl vinyl ether | 2.90 | ug/L | 1.0 | 58 | 70 | 130 | | | s |
| Chloroform | 5.60 | ug/L | 0.50 | 112 | 70 | 130 | | | |
| Chloromethane | 3.82 | ug/L | 0.50 | 76 | 70 | 130 | | | |
| 2-Chlorotoluene | 5.00 | ug/L | 0.50 | 100 | 70 | 130 | | | |
| 4-Chlorotoluene | 5.44 | ug/L | 0.50 | 109 | 70 | 130 | | | |
| 1,2-Dibromoethane | 4.68 | ug/L | 0.50 | 94 | 70 | 130 | | | |
| Dibromomethane | 4.96 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| 1,2-Dichlorobenzene | 5.04 | ug/L | 0.50 | 101 | 70 | 130 | | | |
| 1,3-Dichiorobenzene | 5.16 | ug/L | 0.50 | 103 | 70 | 130 | | | |
| 1,4-Dichlorobenzene | 5.00 | ug/L | 0.50 | 100 | 70 | 130 | | | |
| Dichlorodifluoromethane | 5.20 | ug/L | 0.50 | 104 | 70 | 130 | | | |
| 1,1-Dichloroethane | 4.96 | ug/L | 0.50 | 99 | 70 | 130 | | | |
| 1,2-Dichloroethane | 6.24 | ug/L | 0.50 | 125 | 70 | 130 | | | |
| 1.1-Dichloroethene | 5.12 | ug/L | 0.50 | 102 | 70 | 130 | | | |
| cis-1,2-Dichloroethene | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | | | |
| trans-1,2-Dichloroethene | 5.00 | ug/L | 0.50 | 100 | 70 | 130 | | | |
| 1,2-Dichloropropane | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 1,3-Dichioropropane | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| 2,2-Dichloropropane | 5.72 | ug/L | 0.50 | 114 | 70 | 130 | | | |
| 1,1-Dichloropropene | 5.44 | ug/L | 0.50 | 109 | 70 | 130 | | | |
| cls-1,3-Dichloropropene | 4.80 | ug/L | 0.50 | 96 | 70 | 130 | | | |
| trans-1,3-Dichloropropene | 4.84 | ug/L | 0.50 | 97 | 70 | 130 | | | |
| Ethylbenzene | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 5.20 | ug/L | 0.50 | 104 | 70 | 130 | | | |
| Methyl ethyl ketone | 54.0 | ug/L | 20 | 108 | 70 | 130 | | | |
| Methyl isobutyl ketone | 50.4 | ug/L | 20 | 101 | 70 | 130 | | | |
| Methylene chloride | 5.88 | ug/L | 0.50 | 118 | 70 | 130 | | | |
| Naphthalene | 5.08 | ug/L | 0.50 | 102 | 70 | 130 | | | |
| nahinggene | 5.00 | սկ/ւ | 0.50 | 102 | , 0 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17 Work Order: C17030850

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD RPDLimit Qua |
|--|------------------|------------------|---------------|------|------------|-------------|-----------------------|
| Method: E624 | | | | | | | Analytical Run: R2772 |
| Lab ID: ccv033117 | Continuing Ca | dibration Verifi | cation Standa | ard | | | 03/31/17 08 |
| Styrene | 4.52 | ug/L | 0.50 | 90 | 70 | 130 | |
| Tetrachloroethene | 4.68 | ug/L | 0.50 | 94 | 70 | 130 | |
| 1,1,1,2-Tetrachioroethane | 4.72 | ug/L | 0.50 | 94 | 70 | 130 | |
| 1,1,2,2-Tetrachloroethane | 4.96 | ug/L | 0.50 | 99 | 70 | 130 | |
| Toluene | 4.76 | ug/L | 0.50 | 95 | 70 | 130 | |
| Trichlorcethene | 4.92 | ug/L | 0.50 | 98 | 70 | 130 | |
| 1,1,1-Trichioroethane | 5.72 | ug/L | 0.50 | 114 | 70 | 130 | |
| 1,1,2-Trichloroethane | 4.72 | ug/L | 0.50 | 94 | 70 | 130 | |
| Trichiorofluoromethane | 4.88 | ug/L | 0.50 | 98 | 70 | 130 | |
| 1,2,3-Trichloropropane | 5.2 4 | ug/L | 0.50 | 105 | 70 | 130 | |
| Vinyl Acetate | 5.32 | ug/L | 1.0 | 106 | 70 | 130 | |
| Vinyl chloride | 4.60 | ug/L | 0.50 | 92 | 70 | 130 | |
| m+p-Xylenes | 9.32 | ug/L | 0.50 | 93 | 70 | 130 | |
| o-Xylene | 4.52 | ug/L | 0.50 | 90 | 70 | 130 | |
| Xylenes, Total | 13.8 | ug/L | 0.50 | 92 | 70 | 130 | |
| Surr: 1,2-Dichloroethane-d4 | | | 0.50 | 107 | 71 | 139 | |
| Surr: p-Bromofluorobenzene | | | 0.50 | 102 | 80 | 127 | |
| Surr: Toluene-d8 | | | 0.50 | 91 | 80 | 123 | |
| | | | | | | | |
| Method: E624 | | | | | | | Batch: R2772 |
| Lab ID: | Laboratory Co | • | | | Run: 5971/ | A.I_170331A | 03/31/17 09 |
| Acetone | 56.0 | ug/L | 20 | 112 | 55 | 144 | |
| Acetonitrite | 56.8 | ug/L | 20 | 114 | 54 | 142 | |
| Acrolein | 42.4 | ug/L | 20 | 85 | 16 | 233 | |
| Acrylonitrile | 48.4 | ug/L | 20 | 97 | 76 | 127 | |
| Benzene | 4.92 | ug/L | 0.50 | 98 | 73 | 122 | |
| Bromobenzene | 4.96 | ug/L | 0.50 | 99 | 74 | 129 | |
| Bromochioromethane | 5.16 | ug/L | 0.50 | 103 | 66 | 120 | |
| Bromodichioromethane | 5.16 | ug/L | 0.50 | 103 | 74 | 128 | |
| Bromoform | 5.12 | ug/L | 0.50 | 102 | 66 | 128 | |
| Bromomethane | 4.76 | ug/L | 0.50 | 95 | 51 | 123 | |
| Carbon disulfide | 5.36 | ug/L | 0.50 | 107 | 46 | 145 | |
| Carbon tetrachloride | 5.72 | ug/L | 0.50 | 114 | 75 | 125 | |
| Chiorobenzene | 4.64 | ug/L | 0,50 | 93 | 80 | 123 | |
| Chiorodibromomethane | 5.32 | ug/L | 0.50 | 106 | 74 | 125 | |
| Chloroethane | 4.48 | ug/L | 0.50 | 90 | 59 | 142 | |
| 2-Chloroethyl vinyl ether | 2.62 | u g /L | 1.0 | 52 | 36 | 144 | |
| 2-Chickeniyi viriyi edilet | 5.52 | ug/L | 0.50 | 110 | 68 | 124 | |
| Chloroform | | | 0.50 | 75 | 53 | 146 | |
| - | 3.77 | ug/L | 0.50 | | | | |
| Chloroform | | ug/L ug/L | 0.50 | 102 | 75 | 131 | |
| Chloroform Chloromethane | 3.77 | | | | | | |
| Chloroform Chloromethane 2-Chlorotofuene | 3.77 5.08 | ug/L | 0.50 | 102 | 75 | 131 | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Analyte | Result U | nits RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|----------------------|----------------------|------|-----------|-------------|-----|----------|-----------|
| Method: E624 | | | | | | | Batch: | R27728 |
| Lab ID: | Laboratory Contro | l Sample | | Run: 5971 | A.I_170331A | | 03/31 | /17 09:19 |
| 1,2-Dichlorobenzene | 4.96 ug | g/L 0.50 | 99 | 74 | 124 | | | |
| 1,3-Dichlorobenzene | 5.12 นรู | g/L 0.50 | 102 | 77 | 122 | | | |
| 1,4-Dichlorobenzene | | g/L 0.50 | 99 | 76 | 126 | | | |
| Dichlorodifluoromethane | 5.60 ц | g/L 0.50 | 112 | 56 | 146 | | | |
| 1,1-Dichloroethane | 4.72 นรู | g/L 0.50 | 94 | 74 | 133 | | | |
| 1,2-Dichloroethane | 5.76 นรู | g/L 0.50 | 115 | 75 | 129 | | | |
| 1,1-Dichloroethene | 5.16 սչ | g/L 0.50 | 103 | 74 | 132 | | | |
| cis-1,2-Dichloroethene | 4.88 uç | g/L 0.50 | 98 | 81 | 122 | | | |
| trans-1,2-Dichloroethene | 5.12 սջ | g/L 0.50 | 102 | 79 | 143 | | | |
| 1,2-Dichloropropane | 4.60 ს(| g/L 0.50 | 92 | 75 | 126 | | | |
| 1,3-Dichioropropane | 4.68 Ա | g/L 0.50 | 94 | 71 | 136 | | | |
| 2,2-Dichloropropane | 5.68 სვ | g/L 0.50 | 114 | 68 | 142 | | | |
| 1,1-Dichloropropene | 5.00 นรู | J/L 0.50 | 100 | 70 | 131 | | | |
| cis-1,3-Dichloropropene | 4.40 ug | g/L 0.50 | 88 | 74 | 135 | | | |
| trans-1,3-Dichloropropene | 4.84 ug | ₃ /L 0.50 | 97 | 76 | 149 | | | |
| Ethylbenzene | 4.96 ug | g/L 0.50 | 99 | 72 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 5.12 ևն | 3/L 0.50 | 102 | 72 | 120 | | | |
| Methyl ethyl ketone | 52.0 ug | J/L 20 | 104 | 45 | 130 | | | |
| Methyl isobutyl ketone | 50.8 ug | J/L 20 | 102 | 58 | 135 | | | |
| Methylene chloride | 6.08 นรู | ı/L 0.50 | 122 | 66 | 142 | | | |
| Naphthaiene | 5.60 นฐ | ı/L 0.50 | 112 | 69 | 124 | | | |
| Styrene | 4. 5 6 ug | ı/L 0.50 | 91 | 80 | 124 | | | |
| Tetrachloroethene | 4.72 ug | /L 0.50 | 94 | 72 | 131 | | | |
| 1,1,1,2-Tetrachloroethane | 4.64 ug | /L 0.50 | 93 | 78 | 124 | | | |
| 1,1,2,2-Tetrachloroethane | 4.76 ug | /L 0.50 | 95 | 68 | 137 | | | |
| Toluene | 4,76 ug | /L 0.50 | 95 | 72 | 135 | | | |
| Trichloroethene | 4.80 ug | /L 0.50 | 96 | 85 | 126 | | | |
| 1,1,1-Trichloroethane | 5.40 ug | | 108 | 63 | 120 | | | |
| 1,1,2-Trichloroethane | 4.48 ug | | 90 | 78 | 124 | | | |
| Trichlorofluoromethane | 4.52 ug | | 90 | 72 | 120 | | | |
| 1,2,3-Trichloropropane | 4.68 ug | | 94 | 64 | 138 | | | |
| Vinyl Acetate | 4.76 ug | | 95 | 31 | 124 | | | |
| Vinyi chloride | 4.76 ug | | 95 | 58 | 140 | | | |
| m+p-Xylenes | 9.08 ug | | 91 | 67 | 139 | | | |
| o-Xylene | 4.48 ug | | 90 | 74 | 135 | | | |
| • | | | | | | | | |

0.50

0.50

0.50

0.50

20

20

90

109

102

92

13.6

Method Blank

ND

ND

ug/L

ug/L

ug/L

Qualifiers:

Acetonitrile

Lab ID:

Acetone

Xylenes, Total

Surr: Toluene-d8

RL - Analyte reporting limit.

Surr: 1,2-Dichloroethane-d4

Surr: p-Bromofluorobenzene

blk033117

ND - Not detected at the reporting limit.

70

71

80

80

Run: 5971A.i_170331A

137

139

127

123

03/31/17 10:18

Prepared by Billings, MT Branch

Colorado Analytical Laboratories Inc Client:

Work Order: C17030850

Report Date: 04/06/17 Project: 170324007 Sterling Ranch MD

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Quai |
|---------------|--------------------|--------------|-------------|------|------|-----------|-------------|-----|----------|-----------|
| Method: | E624 | | | | | | | | Batch: | R277281 |
| Lab ID: | blk033117 | Method Blank | | | | Run: 5971 | A.I_170331A | | 03/31 | /17 10:18 |
| Acrolein | | ND | ug/L | 20 | | | _ | | | |
| Acrylonitrile | } | ND | ug/L | 20 | | | | | | |
| Benzene | | ND | ug/L | 0.50 | | | | | | |
| Bromobenz | ene | ND | ug/L | 0.50 | | | | | | |
| Bromochlor | romethane | ND | ug/L | 0.50 | | | | | | |
| Bromodichl | oromethane | ND | ug/L | 0.50 | | | | | | |
| Bromoform | | ND | ug/L | 0.50 | | | | | | |
| Bromometh | nane | ND | ug/L | 0.50 | | | | | | |
| Carbon disu | ulfide | ND | ug/L | 0.50 | | | | | | |
| Carbon tetra | achloride | ND | ug/L | 0.50 | | | | | | |
| Chlorobenz | ene | ND | ug/L | 0.50 | | | | | | |
| Chlorodibro | momethane | ND | ug/L | 0.50 | | | | | | |
| Chloroethar | ne | ND | ug/L | 0.50 | | | | | | |
| 2-Chloroeth | ıyl vinyl ether | ND | ug/L | 1.0 | | | | | | |
| Chloroform | | ND | ug/L | 0.50 | | | | | | |
| Chlorometh | ane | ND | ug/L | 0.50 | | | | | | |
| 2-Chiorotolu | iene | ND | ug/L | 0.50 | | | | | | |
| 4-Chiorotolu | iene | ND | ug/L | 0.50 | | | | | | |
| 1,2-Dibromo | pethane | ND | ug/L | 0.50 | | | | | | |
| Dibromome | thane | ND | ug/L | 0.50 | | | | | | |
| 1,2-Dichlord | benzene | ND | ug/L | 0.50 | | | | | | |
| 1,3-Dichloro | benzene | ND | ug/L | 0.50 | | | | | | |
| 1,4-Dichloro | | ND | ug/L | 0.50 | | | | | | |
| Dichlorodific | uoromethane | ND | ug/L | 0.50 | | | | | | |
| 1,1-Dichloro | pethane | ND | ug/L | 0.50 | | | | | | |
| 1,2-Dichloro | ethane | ND | ug/L | 0.50 | | | | | | |
| 1,1-Dichloro | pethene | ND | ug/L | 0.50 | | | | | | |
| cis-1,2-Dich | loroethene | ND | ug/L | 0.50 | | | | | | |
| trans-1,2-Di | ichloroethene | ND | ug/L | 0.50 | | | | | | |
| 1,2-Dichloro | | ND | ug/L | 0.50 | | | | | | |
| 1,3-Dichloro | | ND | ug/L | 0.50 | | | | | | |
| 2,2-Dichloro | | ND | ug/L | 0.50 | | | | | | |
| 1,1-Dichloro | | ND | ug/L | 0.50 | | | | | | |
| | loropropene | ND | ug/L | 0.50 | | | | | | |
| | chloropropene | ND | ug/L | 0.50 | | | | | | |
| Ethylbenzer | | ND | ug/L | 0.50 | | | | | | |
| - | outyl ether (MTBE) | ND | ug/L | 0.50 | | | | | | |
| Methyl ethyl | - ' ' | ND | ug/L | 20 | | | | | | |
| Methyl isobu | | ND | ug/L | 20 | | | | | | |
| Methylene o | • | ND | ug/L | 0.50 | | | | | | |
| Naphthalen | | ND | ug/L | 0.50 | | | | | | |
| Styrene | | ND | ug/L | 0.50 | | | | | | |
| Tetrachloroe | ethene | ND | ug/L | 0.50 | | | | | | |
| | | .,_ | | | | | | | | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------|---------------|-------|------|------|------------|-------------|-----|----------|-----------|
| Method: E624 | | | | | | | | Batch: | R277281 |
| Lab ID: blk033117 | Method Blank | | | | Run: 5971/ | A.I_170331A | | 03/31 | /17 10:18 |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 0.50 | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 0.50 | | | | | | |
| Toluene | ND | ug/L | 0.50 | | | | | | |
| Trichloroethene | ND | ug/L | 0.50 | | | | | | |
| 1,1,1-Trichloroethane | ND | ug/L | 0.50 | | | | | | |
| 1,1,2-Trichloroethane | ND | ug/L | 0.50 | | | | | | |
| Trichlorofiuoromethane | ND | ug/L | 0.50 | | | | | | |
| 1,2,3-Trichloropropane | ND | ug/L | 0.50 | | | | | | |
| Vinyl Acetate | ND | ug/L | 1.0 | | | | | | |
| Vinyl chloride | ND | ug/L | 0.50 | | | | | | |
| m+p-Xylenes | ND | ug/L | 0.50 | | | | | | |
| o-Xylene | ND | ug/L | 0.50 | | | | | | |
| Xylenes, Total | ND | ug/L | 0.50 | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | | -9 | 0.50 | 105 | 71 | 139 | | | |
| Surr: p-Bromofluorobenzene | | | 0.50 | 104 | 80 | 127 | | | |
| Surr: Toluene-d8 | | | 0.50 | 92 | 80 | 123 | | | |
| Lab ID: b17031875-001dms | Sample Matrix | Spike | | | Run: 5971/ | A.I_170331A | | 03/31 | /17 14:12 |
| Acetone | 378 | ug/L | 100 | 109 | 55 | 144 | | | |
| Acetonitrile | 274 | ug/L | 100 | 110 | 54 | 142 | | | |
| Benzene | 24.6 | ug/L | 2.5 | 98 | 73 | 122 | | | |
| Bromobenzene | 24.8 | ug/L | 2.5 | 99 | 74 | 129 | | | |
| Bromochloromethane | 25.2 | ug/L | 2.5 | 101 | 66 | 120 | | | |
| Bromodichloromethane | 26.2 | ug/L | 2.5 | 105 | 74 | 128 | | | |
| Bromoform | 27.0 | ug/L | 2.5 | 108 | 66 | 128 | | | |
| 3romomethane | 18.8 | ug/L | 2.5 | 75 | 51 | 123 | | | |
| Carbon disulfide | 26.4 | ug/L | 2.5 | 106 | 46 | 145 | | | |
| Carbon tetrachloride | 28.2 | ug/L | 2,5 | 113 | 75 | 125 | | | |
| Chlorobenzene | 22.8 | ug/L | 2.5 | 91 | 80 | 123 | | | |
| Chlorodibromomethane | 26.8 | ug/L | 2.5 | 107 | 74 | 125 | | | |
| Chloroethane | 20.2 | ug/L | 2.5 | 81 | 59 | 142 | | | |
| Chioroform | 33.2 | ug/L | 2.5 | 110 | 68 | 124 | | | |
| Chioromethane | 18.6 | ug/L | 2.5 | 74 | 53 | 146 | | | |
| 2-Chlorotoluene | 24.8 | ug/L | 2.5 | 99 | 75 | 131 | | | |
| 4-Chlorotoluene | 25.8 | ug/L | 2.5 | 103 | 74 | 129 | | | |
| 1,2-Dibromoethane | 24.0 | ug/L | 2.5 | 96 | 76 | 124 | | | |
| Dibromomethane | 26.2 | ug/L | 2.5 | 105 | 77 | 125 | | | |
| 1,2-Dichlorobenzene | 24.6 | ug/L | 2.5 | 98 | 74 | 124 | | | |
| 1,3-Dichlorobenzene | 24.6 | ug/L | 2.5 | 98 | 77 | 122 | | | |
| 1,4-Dichlorobenzene | 24.6 | ug/L | 2.5 | 98 | 76 | 126 | | | |
| Dichlorodifiuoromethane | 27.0 | ug/L | 2.5 | 108 | 56 | 146 | | | |
| 1,1-Dichloroethane | 24.2 | ug/L | 2.5 | 97 | 74 | 133 | | | |
| 1,2-Dichloroethane | 29.2 | ug/L | 2.5 | 117 | 75 | 129 | | | |

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Method: E624 Lab ID: b17031875-001dms Samp 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene cis-1,3-Dichloropropene | 26.6 24.4 25.8 23.0 22.4 28.0 25.2 22.2 | Spike ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L | 2.5 2.5 2.5 2.5 2.5 2.5 | 106 98 103 92 | 74 81 79 | A.I_170331A 132 122 143 | | | R277281 /17 14:12 |
|--|--|---|--|------------------------|----------------|----------------------------------|-----|--------|----------------------|
| 1,1-Dichloroethene cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene | 26.6 24.4 25.8 23.0 22.4 28.0 25.2 22.2 | ug/L ug/L ug/L ug/L ug/L ug/L | 2.5 2.5 2.5 2.5 | 98 103 92 | 74 81 79 | 132 122 | | 03/31 | /17 14:12 |
| cis-1,2-Dichloroethene trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene | 24.4 25.8 23.0 22.4 28.0 25.2 22.2 | ug/L ug/L ug/L ug/L ug/L | 2.5 2.5 2.5 2.5 | 98 103 92 | 81 79 | 122 | | | |
| trans-1,2-Dichloroethene 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene | 25.8 23.0 22.4 28.0 25.2 22.2 | ug/L ug/L ug/L ug/L | 2.5 2.5 2.5 | 103 92 | 79 | | | | |
| 1,2-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene | 23.0 22.4 28.0 25.2 22.2 | ug/L ug/L ug/L | 2.5 2.5 | 92 | | 143 | | | |
| 1,3-Dichloropropane 2,2-Dichloropropane 1,1-Dichloropropene | 22.4 28.0 25.2 22.2 | ug/L ug/L | 2.5 | | 75 | | | | |
| 2,2-Dichloropropane 1,1-Dichloropropene | 28.0 25.2 22.2 | ug/L | | | 75 | 126 | | | |
| 1,1-Dichioropropene | 25.2 22.2 | _ | 2.5 | 90 | 71 | 136 | | | |
| | 22.2 | ug/L | | 112 | 68 | 142 | | | |
| cis-1,3-Dichloropropene | | | 2.5 | 101 | 70 | 131 | | | |
| | | ug/L | 2.5 | 89 | 74 | 135 | | | |
| trans-1,3-Dichloropropene | 24.6 | ug/L | 2.5 | 98 | 76 | 149 | | | |
| Ethylbenzene | 23.6 | ug/L | 2.5 | 94 | 72 | 130 | | | |
| Methyl tert-butyl ether (MTBE) | 25.6 | u g /L | 2.5 | 102 | 72 | 120 | | | |
| Methyl ethyl ketone | 268 | ug/L | 100 | 107 | 45 | 130 | | | |
| Methyl isobutyl ketone | 258 | ug/L | 100 | 103 | 58 | 135 | | | |
| Methylene chloride | 32.2 | ug/L | 2.5 | 129 | 66 | 142 | | | |
| Naphthalene | 27.6 | u g /L | 2.5 | 110 | 69 | 124 | | | |
| Styrene | 22.4 | ug/L | 2.5 | 90 | 80 | 124 | | | |
| Tetrachioroethene | 22.8 | ug/L | 2.5 | 91 | 72 | 131 | | | |
| 1,1,1,2-Tetrachloroethane | 23.0 | ug/L | 2.5 | 92 | 78 | 124 | | | |
| 1,1,2,2-Tetrachioroethane | 26.0 | ug/L | 2.5 | 104 | 68 | 137 | | | |
| Toluene | 24.4 | ug/L | 2.5 | 95 | 72 | 135 | | | |
| Trichloroethene | 23.8 | ug/L | 2.5 | 95 | 85 | 126 | | | |
| 1,1,1-Trichloroethane | 26.8 | ug/L | 2.5 | 107 | 63 | 120 | | | |
| 1,1,2-Trichloroethane | 23.4 | ug/L | 2.5 | 94 | 78 | 124 | | | |
| Trichlorofluoromethane | 21.2 | ug/L | 2.5 | 85 | 72 | 120 | | | |
| 1,2,3-Trichioropropane | 26.2 | ug/L | 2.5 | 105 | 64 | 138 | | | |
| Vinyl Acetate | 24.4 | ug/L | 5.0 | 98 | 31 | 124 | | | |
| Vinyl chloride | 22.6 | ug/L | 2.5 | 90 | 58 | 140 | | | |
| m+p-Xylenes | 44.8 | ug/L | 2.5 | 90 | 67 | 139 | | | |
| o-Xylene | 22.6 | ug/L | 2.5 | 90 | 74 | 135 | | | |
| Xylenes, Totali | 67.4 | ug/L | 2.5 | 90 | 70 | 137 | | | |
| Surr: 1,2-Dichloroethane-d4 | | | 2.5 | 110 | 71 | 139 | | | |
| Surr: p-Bromofluorobenzene | | | 2.5 | 102 | 80 | 127 | | | |
| Surr: Toluene-d8 | | | 2.5 | 93 | 80 | 123 | | | |
| Lab ID: b17031875-001dmsd Samp | le Matrix | Spike Duplicate | | | Run: 5971A | I_170331A | | 03/31/ | 17 15:11 |
| Acetone | 410 | ug/L | 100 | 122 | 55 | 144 | 8.1 | 20 | |
| Acetonitrile | 262 | ug/L | 100 | 105 | 54 | 142 | 4.5 | 20 | |
| Benzene | 25.0 | ug/L | 2.5 | 100 | 73 | 122 | 1.6 | 20 | |
| Bromobenzene | 25.6 | ug/L | 2.5 | 102 | 74 | 129 | 3.2 | 20 | |
| Bromochloromethane | 25,2 | ug/L | 2.5 | 101 | 66 | 120 | 0.0 | 20 | |
| Bromodichloromethane | 27.2 | u g /L | 2.5 | 109 | 74 | 128 | 3.7 | 20 | |
| Bromoform | 28.4 | ug/L | 2.5 | 114 | 66 | 128 | 5.1 | 20 | |
| Bromomethane | 20.8 | ug/L | 2.5 | 83 | 51 | 123 | 10 | 20 | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Report Date: 04/06/17 Project: 170324007 Sterling Ranch MD Work Order: C17030850

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------|---------------|-----------------|-----|------|-----------|-------------|-----|----------|-----------|
| Method: E624 | | | | | | | | Batch: | R277281 |
| Lab ID: b17031875-001dmsd | Sample Matrix | Spike Duplicate | | | Run: 5971 | A.I_170331A | | 03/31 | /17 15:11 |
| Carbon disulfide | 25.6 | ug/L | 2.5 | 102 | 46 | 145 | 3.1 | 20 | |
| Carbon tetrachloride | 28.6 | ug/L | 2.5 | 114 | 75 | 125 | 1.4 | 20 | |
| Chlorobenzene | 23.6 | ug/L | 2.5 | 94 | 80 | 123 | 3.4 | 20 | |
| Chlorodibromomethane | 28.0 | ug/L | 2.5 | 112 | 74 | 125 | 4.4 | 20 | |
| Chloroethane | 20.6 | ug/L | 2.5 | 82 | 59 | 142 | 2.0 | 20 | |
| Chloroform | 33.6 | ug/L | 2.5 | 111 | 68 | 124 | 1.2 | 20 | |
| Chioromethane | 19.3 | ug/L | 2.5 | 77 | 53 | 146 | 3.8 | 20 | |
| 2-Chlorotoluene | 26.4 | ug/L | 2.5 | 106 | 75 | 131 | 6.2 | 20 | |
| 4-Chiorotoluene | 27.2 | ug/L | 2.5 | 109 | 74 | 129 | 5.3 | 20 | |
| 1,2-Dibromoethane | 24.0 | u g /L | 2.5 | 96 | 76 | 124 | 0.0 | 20 | |
| Dibromomethane | 26.8 | ug/L | 2.5 | 107 | 77 | 125 | 2.3 | 20 | |
| 1,2-Dichlorobenzene | 25.8 | ug/L | 2.5 | 103 | 74 | 124 | 4.8 | 20 | |
| 1,3-Dichlorobenzene | 26.0 | ug/L | 2.5 | 104 | 77 | 122 | 5.5 | 20 | |
| 1,4-Dichiorobenzene | 25.4 | ug/L | 2.5 | 102 | 76 | 126 | 3.2 | 20 | |
| Dichlorodifluoromethane | 25.8 | ug/L | 2.5 | 103 | 56 | 146 | 4.5 | 20 | |
| 1,1-Dichloroethane | 24.8 | ug/L | 2.5 | 99 | 74 | 133 | 2.4 | 20 | |
| 1,2-Dichloroethane | 29,2 | ug/L | 2.5 | 117 | 75 | 129 | 0.0 | 20 | |
| 1,1-Dichloroethene | 26.8 | u g /L | 2.5 | 107 | 74 | 132 | 0.7 | 20 | |
| cis-1,2-Dichloroethene | 25.2 | ug/L | 2.5 | 101 | 81 | 122 | 3.2 | 20 | |
| trans-1,2-Dichloroethene | 26.4 | u g /L | 2.5 | 106 | 79 | 143 | 2.3 | 20 | |
| 1,2-Dichloropropane | 23.6 | ug/L | 2.5 | 94 | 75 | 126 | 2.6 | 20 | |
| 1,3-Dichloropropane | 23.8 | ug/L | 2.5 | 95 | 71 | 136 | 6.1 | 20 | |
| 2,2-Dichloropropane | 28.6 | ug/L | 2.5 | 114 | 68 | 142 | 2.1 | 20 | |
| 1,1-Dichloropropene | 25.8 | ug/L | 2.5 | 103 | 70 | 131 | 2.4 | 20 | |
| cls-1,3-Dichloropropene | 23.2 | ug/L | 2.5 | 93 | 74 | 135 | 4.4 | 20 | |
| trans-1,3-Dichloropropene | 25.4 | ug/L | 2.5 | 102 | 76 | 149 | 3.2 | 20 | |
| Ethylbenzene | 25.0 | ug/L | 2.5 | 100 | 72 | 130 | 5.8 | 20 | |
| Methyl tert-butyl ether (MTBE) | 26.6 | ug/L | 2.5 | 106 | 72 | 120 | 3.8 | 20 | |
| Methyl ethyl ketone | 292 | u g /L | 100 | 117 | 45 | 130 | 8.6 | 20 | |
| Methyl isobutyl ketone | 286 | u g /L | 100 | 114 | 58 | 135 | 10 | 20 | |
| Methylene chloride | 31.4 | u g /L | 2.5 | 126 | 66 | 142 | 2.5 | 20 | |
| Naphthalene | 27.8 | ug/L | 2.5 | 111 | 69 | 124 | 0.7 | 20 | |
| Styrene | 22.8 | ug/L | 2.5 | 91 | 80 | 124 | 1.8 | 20 | |
| Tetrachloroethene | 23.8 | ug/L | 2.5 | 95 | 72 | 131 | 4.3 | 20 | |
| 1,1,1,2-Tetrachloroethane | 23.2 | ug/L | 2.5 | 93 | 78 | 124 | 0.9 | 20 | |
| 1,1,2,2-Tetrachioroethane | 27.4 | ug/L | 2.5 | 110 | 68 | 137 | 5.2 | 20 | |
| Toluene | 24.4 | ug/L | 2.5 | 95 | 72 | 135 | 0.0 | 20 | |
| Trichloroethene | 25.0 | ug/L | 2.5 | 100 | 85 | 126 | 4.9 | 20 | |
| 1,1,1-Trichloroethane | 27.4 | ug/L | 2.5 | 110 | 63 | 120 | 2.2 | 20 | |
| 1,1,2-Trichloroethane | 24.8 | ug/L | 2.5 | 99 | 78 | 124 | 5.8 | 20 | |
| Trichlorofluoromethane | 22.4 | ug/L | 2.5 | 90 | 72 | 120 | 5.5 | 20 | |
| 1,2,3-Trichloropropane | 26.8 | ug/L | 2.5 | 107 | 64 | 138 | 2.3 | 20 | |
| Vinyl Acetate | 24.4 | ug/L | 5.0 | 98 | 31 | 124 | 0.0 | 20 | |

Qualifiers:

RL - Analyte reporting limit.

8illings, MT 880.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17

Work Order: C17030850

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------|---------------------|---------------|-----------------|-----|------|-----------|-------------|-----|----------|-----------|
| Method: | E824 | | | | | | | | Batch: | R277281 |
| Lab ID: | b17031875-001dmsd | Sample Matrix | Spike Duplicate | | | Run: 5971 | A.I_170331A | | 03/31 | /17 15:11 |
| Vinyl chlori | ide | 22.8 | ug/L | 2.5 | 91 | 58 | 140 | 0.9 | 20 | |
| m+p-Xylen | es | 46.0 | ug/L | 2.5 | 92 | 67 | 139 | 2.6 | 20 | |
| o-Xylene | | 23.4 | ug/L | 2.5 | 94 | 74 | 135 | 3.5 | 20 | |
| Xylenes, T | otal | 69.4 | ug/L | 2.5 | 93 | 70 | 137 | | | |
| Surr: 1,2 | 2-Dichloroethane-d4 | | - | 2.5 | 112 | 71 | 139 | | | |
| Surr: p-8 | 3romofluorobenzene | | | 2.5 | 105 | 80 | 127 | | | |
| Surr: To | luene-d8 | | | 2.5 | 93 | 80 | 123 | | | |



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17
Work Order: C17030850

Units %REC Low Limit High Limit Analyte Result **RPD RPDLimit** Qual Method: Batch: 107942 Lab ID: MB-107942 Method Blank Run: SV5973N2.I_170330B 03/30/17 16:12 10 Acenaphthene ND ug/L ND 10 Acenaphthylene ug/L 10 Anthracene ND ug/L Azobenzene ND ug/L 10 **Benzidine** ND ug/L 10 10 Benzo(a)anthracene ND ug/L ND ug/L 10 Benzo(a)pyrene Benzo(b)fluoranthene ND ug/L 10 Benzo(g,h,i)perylene ND ug/L 10 Benzo(k)fluoranthene ND ug/L 10 ND 10 4-Bromophenyl phenyl ether ug/L Butylbenzylphthalate ND ug/L 10 ND 10 ug/L 4-Chloro-3-methylphenol bis(-2-chloroethoxy)Methane ND ug/L 10 bis(-2-chloroethyl)Ether ND ug/L 10 bis(2-chloroisopropyl)Ether ND ug/L 10 10 ND ug/L 2-Chloronaphthalene ND ug/L 10 2-Chlorophenol 10 4-Chlorophenyl phenyl ether ND ug/L Chrysene ND ug/L 10 10 Diethyl phthalate ND ug/L 10 Di-n-butyl phthalate ND ug/L 10 ND ug/L 1,2-Dichlorobenzene 10 1,3-Dichlorobenzene ND ug/L 1,4-Dichlorobenzene ND ug/L 10 3,3'-Dichlorobenzidine ND ug/L 10 2,4-Dichlorophenol ND ug/L 10 Dimethyl phthalate ND ug/L 10 10 Di-n-octyl phthalate ND ug/L ND ug/L 10 Dibenzo(a,h)anthracene 2,4-Dimethylphenoi ND ug/L 10 ND ug/L 50 4,6-Dinitro-2-methylphenol 2,4-Dinitrophenol ND ug/L 50 ND ug/L 10 2,4-Dinitrotoluene 2,6-Dinitrotoluene ND ug/L 10 ND ug/L 10 bis(2-ethylhexyl)Phthalate Fluoranthene ND ug/L 10 ND 10 Fluorene ug/L Hexachlorobenzene ND ug/L 10 ND 10 Hexachlorobutadiene ug/L Hexachlorocyclopentadiene ND ug/L 10

Qualifiers:

Hexachloroethane

RL - Analyte reporting limit.

Indeno(1,2,3-cd)pyrene

ND - Not detected at the reporting limit.

10

10

ND

ND

ug/L

ug/L

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Report Date: 04/06/17
Work Order: C17030850

Project: 170324007 Sterling Ranch MD

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit Qual |
|-------------------------------|----------------|-------------|-----|------|-----------|----------------|-----|----------------|
| Method: E625 | | | | | | | | Batch: 107942 |
| Lab ID: MB-107942 | Method Blank | | | | Run: SV59 | 73N2.I_170330B | | 03/30/17 16:12 |
| Isophorone | ND | ug/L | 10 | | | | | |
| n-Nitrosodimethylamine | ND | ug/L | 10 | | | | | |
| n-Nitroso-di-n-propylamine | ND | ug/L | 10 | | | | | |
| n-Nitrosodiphenylamine | ND | ug/L | 10 | | | | | |
| 2-Nitrophenol | ND | ug/L | 10 | | | | | |
| 4-Nitrophenol | ND | ug/L | 50 | | | | | |
| Naphthalene | ND | ug/L | 10 | | | | | |
| Nitrobenzene | ND | ug/L | 10 | | | | | |
| Pentachlorophenol | ND | ug/L | 50 | | | | | |
| Phenanthrene | ND | ug/L | 10 | | | | | |
| Phenol | ND | ug/L | 10 | | | | | |
| Pyrene | ND | ug/L | 10 | | | | | |
| 1,2,4-Trichlorobenzene | ND | ug/L | 10 | | | | | |
| 2,4,6-Trichlorophenol | ND | ug/L | 10 | | | | | |
| Surr: 2-Fluorobiphenyl | NB | ag/L | 10 | 57 | 28 | 107 | | |
| Surr: 2-Fluorophenol | | | 10 | 42 | 20 | 56 | | |
| Surr: Nitrobenzene-d5 | | | 10 | 62 | 32 | 94 | | |
| Surr: Phenoi-d5 | | | 10 | 30 | 19 | 45 | | |
| | | | 10 | 80 | 32 | 122 | | |
| Surr: Terphenyl-d14 | | | 10 | 68 | 21 | 130 | | |
| Surr: 2,4,6-Tribromophenol | | | Į U | 00 | 21 | 130 | | |
| Lab ID: LCS-107942 | Laboratory Con | troi Sample | | | Run: SV59 | 73N2.I_170330B | | 03/30/17 16:43 |
| Acenaphthene | 89.1 | ug/L | 10 | 89 | 58 | 99 | | |
| Acenaphthylene | 84.2 | ug/L | 10 | 84 | 57 | 96 | | |
| Anthracene | 75.6 | ug/L | 10 | 76 | 60 | 107 | | |
| Azobenzene | 78.0 | ug/L | 10 | 78 | 56 | 100 | | |
| Benzidine | 53.1 | ug/L | 10 | 53 | 10 | 100 | | |
| Benzo(a)anthracene | 86.4 | ug/L | 10 | 86 | 62 | 114 | | |
| Benzo(a)pyrene | 84.7 | ug/L | 10 | 85 | 62 | 108 | | |
| Benzo(b)fluoranthene | 89.8 | ug/L | 10 | 90 | 48 | 127 | | |
| Benzo(g,h,i)perylene | 87.2 | ug/L | 10 | 87 | 62 | 121 | | |
| Benzo(k)fluoranthene | 84.0 | ug/L | 10 | 84 | 55 | 111 | | |
| 4-Bromophenyl phenyl ether | 87.1 | ug/L | 10 | 87 | 58 | 105 | | |
| Butylbenzylphthalate | 90.8 | ug/L | 10 | 91 | 60 | 113 | | |
| 4-Chioro-3-methyiphenoi | 74.6 | ug/L | 10 | 75 | 53 | 92 | | |
| bis(-2-chloroethoxy)Methane | 69.9 | ug/L | 10 | 70 | 50 | 92 | | |
| bis(-2-chloroethyl)Ether | 72.1 | ug/L | 10 | 72 | 44 | 82 | | |
| bis(2-chloroisopropyl)Ether | 63.2 | ug/L | 10 | 63 | 56 | 87 | | |
| 2-Chioronaphthalene | 84.9 | ug/L | 10 | 85 | 56 | 95 | | |
| 2-Chlorophenol | 67.2 | ug/L | 10 | 67 | 47 | 76 | | |
| - | 83.0 | ug/L | 10 | 83 | 58 | 99 | | |
| 4-Chlorophenyl phenyl ether | 87.0 | _ | 10 | 87 | 63 | 106 | | |
| Chrysene Diethyl abthalata | | ug/L | | | | | | |
| Diethyl phthalate | 84.6 | ug/L | 10 | 85 | 58 | 103 | | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------|-----------------|---------------|----|------|-----------|----------------|-----|----------|-----------|
| Method: E625 | · •·· | | | | | | | Batch | n: 10794: |
| Lab ID: LCS-107942 | Laboratory Conf | roi Sample | | | Run: SV59 | 73N2.I_170330B | | 03/30 | /17 16:43 |
| Di-n-butyl phthalate | 87.1 | ug/L | 10 | 87 | 61 | 110 | | | |
| 1,2-Dichiorobenzene | 69.3 | ug/L | 10 | 69 | 43 | 81 | | | |
| 1,3-Dichlorobenzene | 64.0 | ug/L | 10 | 64 | 41 | 79 | | | |
| 1,4-Dichlorobenzene | 64.5 | ug/L | 10 | 64 | 42 | 79 | | | |
| 3,3'-Dichlorobenzidine | 64.8 | ug/L | 10 | 65 | 51 | 93 | | | |
| 2,4-Dichlorophenol | 70.6 | ug/L | 10 | 71 | 49 | 90 | | | |
| Dimethyl phthalate | 82.5 | ug/L | 10 | 82 | 58 | 104 | | | |
| Di-n-octyl phthalate | 93.4 | ug/L | 10 | 93 | 56 | 110 | | | |
| Dibenzo(a,h)anthracene | 87.8 | ug/L | 10 | 88 | 61 | 111 | | | |
| 2,4-Dimethylphenol | 66.2 | u g/ L | 10 | 66 | 45 | 89 | | | |
| 4,6-Dinitro-2-methylphenol | 66.1 | u g /L | 50 | 66 | 37 | 105 | | | |
| 2,4-Dinitrophenol | 54.1 | ug/L | 50 | 54 | 27 | 81 | | | |
| 2,4-Dinitrotoluene | 56.2 | ug/L | 10 | 86 | 63 | 110 | | | |
| 2,6-Dinitrotoluene | 77.2 | u g/L | 10 | 77 | 60 | 107 | | | |
| bis(2-ethylhexyl)Phthalate | 86.0 | u g/ L | 10 | 86 | 56 | 108 | | | |
| Fluoranthene | 84.2 | ug/L | 10 | 84 | 63 | 110 | | | |
| Fluorene | 89.3 | u g /L | 10 | 89 | 60 | 99 | | | |
| Hexachlorobenzene | 82.7 | u g /L | 10 | 83 | 57 | 103 | | | |
| Hexachiorobutadiene | 71.7 | ug/L | 10 | 72 | 39 | 83 | | | |
| Hexachiorocyclopentadlene | 81.0 | ug/L | 10 | 81 | 39 | 91 | | | |
| Hexachloroethane | 65.0 | ug/L | 10 | 65 | 37 | 75 | | | |
| Indena(1,2,3-cd)pyrene | 83.2 | ug/L | 10 | 83 | 59 | 109 | | | |
| Isophorone | 69.8 | ug/L | 10 | 70 | 42 | 102 | | | |
| n-Nitrosodimethylamine | 36.8 | ug/L | 10 | 37 | 20 | 45 | | | |
| n-Nitroso-di-n-propylamine | 76.6 | ug/L | 10 | 77 | 49 | 98 | | | |
| n-Nitrosodiphenylamine | 91.5 | ug/L | 10 | 92 | 61 | 108 | | | |
| 2-Nitrophenol | 72.3 | ug/L | 10 | 72 | 51 | 96 | | | |
| 4-Nitrophenol | 27.4 | ug/L | 50 | 27 | 15 | 36 | | | |
| Naphthalene | 68.1 | ug/L | 10 | 68 | 48 | 96 | | | |
| Nitrobenzene | 77.9 | ug/L | 10 | 78 | 51 | 91 | | | |
| Pentachiorophenol | 72.4 | ug/L | 50 | 72 | 53 | 109 | | | |
| Phenanthrene | 82.0 | ug/L | 10 | 82 | 58 | 104 | | | |
| Phenol | 40.6 | ug/L | 10 | 41 | 27 | 45 | | | |
| Pyrene | 85.0 | ug/L | 10 | 85 | 64 | 108 | | | |
| 1,2,4-Trichlorobenzene | 71.2 | ug/L | 10 | 71 | 49 | 85 | | | |
| 2,4,6-Trichlorophenol | 73.9 | ug/L | 10 | 74 | 47 | 99 | | | |
| Surr: 2-Fluorobiphenyl | | | 10 | 69 | 28 | 107 | | | |
| Surr: 2-Fluorophenol | | | 10 | 42 | 20 | 56 | | | |
| Surr. Nitrobenzene-d5 | | | 10 | 72 | 32 | 94 | | | |
| Surr: Phenoi-d5 | | | 10 | 36 | 19 | 45 | | | |
| Surr: Terphenyl-d14 | | | 10 | 80 | 32 | 122 | | | |
| Surr: 2,4,6-Tribromophenol | | | 10 | 70 | 21 | 130 | | | |

Qualifiers:

RL - Analyte reporting limit.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17
Work Order: C17030850

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-----------------------------|---------------|---------------|----|------|-----------|----------------|-----|----------|-----------|
| Method: E625 | | | | | | | | Batcl | h: 10794 |
| Lab iD: C17030850-001CMS | Sample Matrix | Spike | | | Run: SV59 | 73N2.I_170330E | 3 | 03/30 | /17 17:45 |
| Acenaphthene | 86.7 | ug/L | 10 | 87 | 58 | 99 | | | |
| Acenaphthylene | 75.5 | ug/L | 10 | 76 | 57 | 96 | | | |
| Anthracene | 81.6 | u g /L | 10 | 82 | 60 | 107 | | | |
| Azobenzene | 84.6 | ug/L | 10 | 85 | 56 | 100 | | | |
| Benzidine | 122 | ug/L | 20 | 122 | 10 | 100 | | | s |
| Benzo(a)anthracene | 83.4 | ug/L | 10 | 83 | 62 | 114 | | | |
| Benzo(a)pyrene | 78.4 | ug/L | 10 | 78 | 62 | 108 | | | |
| Benzo(b)fluoranthene | 79.9 | ug/L | 10 | 80 | 48 | 127 | | | |
| Benzo(g,h,i)perylene | 83.2 | ug/L | 10 | 83 | 62 | 121 | | | |
| Benzo(k)fluoranthene | 84.5 | ug/L | 10 | 84 | 55 | 111 | | | |
| 4-Bromophenyl phenyl ether | 79.5 | u g /L | 10 | 79 | 58 | 105 | | | |
| Butylbenzylphthalate | 89.2 | ug/L | 10 | 89 | 60 | 113 | | | |
| 4-Chloro-3-methylphenol | 78,3 | ug/L | 10 | 78 | 53 | 92 | | | |
| bis(-2-chloroethoxy)Methane | 77.9 | ug/L | 10 | 78 | 50 | 92 | | | |
| bis(-2-chloroethyl)Ether | 71.5 | ug/L | 10 | 71 | 44 | 82 | | | |
| bis(2-chloroisopropyl)Ether | 58.4 | ug/L | 10 | 58 | 56 | 87 | | | |
| 2-Chloronaphthalene | 7 7.6 | ug/L | 10 | 78 | 56 | 95 | | | |
| 2-Chlorophenol | 63.7 | ug/L | 10 | 64 | 47 | 76 | | | |
| 4-Chlorophenyl phenyl ether | 81.0 | ug/L | 10 | 81 | 58 | 99 | | | |
| Chrysene | 85.9 | ug/L | 10 | 86 | 63 | 106 | | | |
| Diethyl phthalate | 84.0 | ug/L | 10 | 84 | 58 | 103 | | | |
| Di-n-butyl phthalate | 87.0 | ug/L | 10 | 87 | 61 | 110 | | | |
| 1,2-Dichlorobenzene | 67.3 | ug/L | 10 | 67 | 43 | 81 | | | |
| 1,3-Dichlorobenzene | 66.0 | ug/L | 10 | 66 | 41 | 79 | | | |
| 1,4-Dichlorobenzene | 66.7 | ug/L | 10 | 67 | 42 | 79 | | | |
| 3,3'-Dichlorobenzidine | 131 | ug/L | 10 | 131 | 51 | 93 | | | S |
| 2,4-Dichlorophenol | 70.0 | ug/L | 10 | 70 | 49 | 90 | | | |
| Dimethyl phthalate | 79.3 | ug/L | 10 | 79 | 58 | 104 | | | |
| Di-n-octyl phthalate | 81.8 | ug/L | 10 | 82 | 56 | 110 | | | |
| Dibenzo(a,h)anthracene | 80.1 | ug/L | 10 | 80 | 61 | 111 | | | |
| 2,4-Dimethylphenol | 70.7 | ug/L | 10 | 71 | 45 | 87 | | | |
| 4,6-Dinitro-2-methylphenol | 53.1 | ug/L | 50 | 53 | 37 | 105 | | | |
| 2,4-Dinitrophenol | 43.0 | ug/L | 50 | 43 | 27 | 81 | | | |
| 2,4-Dinitrotoluene | 85.6 | ug/L | 10 | 86 | 63 | 110 | | | |
| 2,6-Dinitrotoluene | 81.5 | ug/L | 10 | 81 | 60 | 107 | | | |
| bis(2-ethylhexyl)Phthalate | 77.5 | ug/L | 10 | 77 | 56 | 108 | | | |
| Fluoranthene | 84.0 | ug/L | 10 | 84 | 63 | 110 | | | |
| Fluorene | 0.08 | ug/L | 10 | 80 | 60 | 99 | | | |
| Hexachlorobenzene | 78,2 | ug/L | 10 | 78 | 57 | 103 | | | |
| Hexachiorobutadiene | 69.1 | ug/L | 10 | 69 | 39 | 83 | | | |
| Hexachlorocyclopentadiene | 69.0 | ug/L | 10 | 69 | 39 | 91 | | | |
| Hexachloroethane | 62.6 | ug/L | 10 | 63 | 37 | 75 | | | |
| Indeno(1,2,3-cd)pyrene | 76.3 | ug/L | 10 | 76 | 59 | 109 | | | |

Qualifiers:

RL - Analyte reporting limit.

S - Spike recovery outside of advisory limits.



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc

Project: 170324007 Sterling Ranch MD

Report Date: 04/06/17
Work Order: C17030850

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|----------------------------|---------------|---------|----|------|-----------|----------------|-----|----------|-----------|
| Method: E625 | | | - | | | | | Batc | h: 107942 |
| Lab ID: C17030850-001CMS | Sample Matrix | c Spike | | | Run: SV59 | 73N2.I_170330B | | 03/30 | /17 17:45 |
| Isophorone | 71.4 | ug/L | 10 | 71 | 42 | 102 | | | |
| n-Nitrosodimethylamine | 26.1 | ug/L | 10 | 26 | 20 | 45 | | | |
| n-Nitroso-di-n-propylamine | 76.1 | ug/L | 10 | 76 | 49 | 98 | | | |
| n-Nitrosodiphenylamine | 105 | ug/L | 10 | 105 | 61 | 108 | | | |
| 2-Nitrophenol | 73.5 | ug/L | 10 | 74 | 51 | 96 | | | |
| 4-Nitrophenol | 25.8 | ug/L | 50 | 26 | 15 | 36 | | | |
| Naphthalene | 75.6 | ug/L | 10 | 76 | 48 | 96 | | | |
| Nitrobenzene | 75.6 | ug/L | 10 | 76 | 51 | 91 | | | |
| Pentachlorophenol | 60.3 | ug/L | 50 | 60 | 53 | 109 | | | |
| Phenanthrene | 83.8 | ug/L | 10 | 84 | 58 | 104 | | | |
| Phenol | 38.7 | ug/L | 10 | 39 | 27 | 45 | | | |
| Pyrene | 87.0 | ug/L | 10 | 87 | 64 | 108 | | | |
| 1,2,4-Trichlorobenzene | 74.7 | ug/L | 10 | 75 | 49 | 85 | | | |
| 2,4,6-Trichlorophenol | 68.8 | ug/L | 10 | 69 | 47 | 99 | | | |
| Surr: 2-Fluorobiphenyl | | | 10 | 51 | 28 | 107 | | | |
| Surr: 2-Fluorophenol | | | 10 | 41 | 20 | 56 | | | |
| Surr: Nîtrobenzene-d5 | | | 10 | 64 | 32 | 94 | | | |
| Surr: Phenol-d5 | | | 10 | 33 | 19 | 45 | | | |
| Surr: Terphenyl-d14 | | | 10 | 73 | 32 | 122 | | | |
| Surr: 2,4,6-Tribromophenol | | | 10 | 67 | 21 | 130 | | | |



Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD **Report Date:** 04/06/17 **Work Order:** C17030850

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD RPDLimit | Qual |
|-----------------------------|---------------|-----------------|----------------|------|-----------|------------|-----------------|------------|
| Method: E625 | | | | | | | Analytical Run: | R277253 |
| Lab ID: 30-Mar-17_CCV_11 | Continuing Ca | libration Verif | ication Standa | rd | | | 03/30 |)/17 15:40 |
| Acenaphthene | 75.3 | ug/L | 10 | 100 | 80 | 120 | | |
| Acenaphthylene | 79.7 | ug/L | 10 | 106 | 80 | 120 | | |
| Anthracene | 75.2 | ug/L | 10 | 100 | 80 | 120 | | |
| Azobenzene | 75.1 | ug/L | 10 | 100 | 08 | 120 | | |
| Benzidine | 70.6 | ug/L | 10 | 94 | 80 | 120 | | |
| Benzo(a)anthracene | 76.3 | ug/L | 10 | 102 | 80 | 120 | | |
| Benzo(a)pyrene | 81.9 | ug/L | 10 | 109 | 80 | 120 | | |
| Benzo(b)fluoranthene | 78.3 | ug/L | 10 | 104 | 80 | 120 | | |
| Benzo(g,h,l)perylene | 78.0 | ug/L | 10 | 104 | 80 | 120 | | |
| Benzo(k)fluoranthene | 81.6 | ug/L | 10 | 109 | 80 | 120 | | |
| 4-Bromophenyl phenyl ether | 81.6 | ug/L | 10 | 109 | 80 | 120 | | |
| Butylbenzylphthalate | 78.0 | ug/L | 10 | 104 | 80 | 120 | | |
| 4-Chloro-3-methylphenol | 76.0 | ug/L | 10 | 101 | 80 | 120 | | |
| bis(-2-chloroethoxy)Methane | 70.4 | ug/L | 10 | 94 | 80 | 120 | | |
| bis(-2-chloroethyl)Ether | 77.2 | ug/L | 10 | 103 | 80 | 120 | | |
| bis(2-chloroisopropyl)Ether | 76.7 | ug/L | 10 | 102 | 80 | 120 | | |
| 2-Chloronaphthalene | 79.8 | ug/L | 10 | 106 | 08 | 120 | | |
| 2-Chlorophenol | 72.7 | ug/L | 10 | 97 | 80 | 120 | | |
| 4-Chlorophenyl phenyl ether | 72.7 | ug/L | 10 | 97 | 80 | 120 | | |
| Chrysene | 74.9 | ug/L | 10 | 100 | 80 | 120 | | |
| Diethyl phthalate | 76.8 | ug/L | 10 | 102 | 80 | 120 | | |
| Di-n-butyl phthalate | 76.9 | ug/L | 10 | 102 | 80 | 120 | | |
| 1,2-Dichlorobenzene | 76.8 | ug/L | 10 | 102 | 80 | 120 | | |
| 1,3-Dichlorobenzene | 72.1 | ug/L | 10 | 96 | 80 | 120 | | |
| 1,4-Dichlorobenzene | 74.8 | ug/L | 10 | 100 | 80 | 120 | | |
| 3,3'-Dichlorobenzidine | 76.2 | ug/L | 10 | 102 | 80 | 120 | | |
| 2,4-Dichlorophenol | 73.5 | ug/L | 10 | 98 | 80 | 120 | | |
| Dimethyl phthalate | 77.0 | ug/L | 10 | 103 | 80 | 120 | | |
| Di-n-octyl phthalate | 81.2 | ug/L | 10 | 108 | 80 | 120 | | |
| Dibenzo(a,h)anthracene | 76.2 | ug/L | 10 | 102 | 80 | 120 | | |
| 2,4-Dimethylphenol | 70.3 | ug/L | 10 | 94 | 80 | 120 | | |
| 4,6-Dinitro-2-methylphenol | 77.4 | ug/L | 50 | 103 | 80 | 120 | | |
| 2,4-Dinitrophenol | 80.2 | ug/L | 50 | 107 | 80 | 120 | | |
| 2,4-Dinitrotoluene | 79.8 | ug/L | 10 | 106 | 80 | 120 | | |
| 2,6-Dinitrotoluene | 80.8 | ug/L | 10 | 108 | 80 | 120 | | |
| bis(2-ethylhexyi)Phthalate | 77.3 | ug/L | 10 | 103 | 80 | 120 | | |
| Fluoranthene | 76.8 | ug/L | 10 | 102 | 80 | 120 | | |
| Fluorene | 82.8 | ug/L | 10 | 110 | 80 | 120 | | |
| Hexachiorobenzene | 74.2 | ug/L | 10 | 99 | 80 | 120 | | |
| Hexachlorobutadiene | 73.0 | ug/L | 10 | 97 | 80 | 120 | | |
| Hexachiorocyclopentadiene | 79.2 | ug/L | 10 | 106 | 80 | 120 | | |
| Hexachloroethane | 74.4 | ug/L | 10 | 99 | 80 | 120 | | |
| ndeno(1,2,3-cd)pyrene | 73.3 | ug/L | 10 | 98 | 80 | 120 | | |

Qualifiers:

RL - Analyte reporting limit.

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Analyte | | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------|------------------|---------------|-------------------|---------------|------|-----------|------------|-----|---------------|-----------|
| Method: | E625 | | | · | | | | Аг | aiytical Run: | R277253 |
| Lab ID: | 30-Mar-17_CCV_11 | Continuing Ca | ilibration Verifi | cation Standa | ırd | | | | 03/30 | /17 15:40 |
| Isophorone | • | 71.5 | ug/L | 10 | 95 | 80 | 120 | | | |
| n-Nitrosodii | methylamine | 79.5 | ug/L | 10 | 106 | 80 | 120 | | | |
| n-Nitroso-di | i-n-propylamine | 76.0 | ug/L | 10 | 101 | 80 | 120 | | | |
| n-Nitrosodi | phenylamine | 77.5 | ug/L | 10 | 103 | 80 | 120 | | | |
| 2-Nitropher | nol | 74.6 | u g /L | 10 | 99 | 80 | 120 | | | |
| 4-Nitropher | lor | 72.4 | ug/L | 50 | 97 | 80 | 120 | | | |
| Naphthalen | ie | 68.4 | ug/L | 10 | 91 | 80 | 120 | | | |
| Nitrobenzer | ne | 77.1 | ug/L | 10 | 103 | 80 | 120 | | | |
| Pentachloro | ophenol | 71.7 | ug/L | 50 | 96 | 80 | 120 | | | |
| Phenanthre | ene | 70.9 | ug/L | 10 | 95 | 80 | 120 | | | |
| Pheno! | | 79.0 | ug/L | 10 | 105 | 80 | 120 | | | |
| Pyrene | | 79.0 | ug/L | 10 | 105 | 80 | 120 | | | |
| 1,2,4-Trichi | orobenzene | 73.1 | ug/L | 10 | 98 | 80 | 120 | | | |
| 2,4,6-Trichl | orophenol | 71.0 | ug/L | 10 | 95 | 80 | 120 | | | |
| Surr: 2-F | luorobiphenyl | | | 10 | 108 | 80 | 120 | | | |
| Surr: 2-F | luorophenol | | | 10 | 105 | 80 | 120 | | | |
| Surr: Nitr | robenzene-d5 | | | 10 | 101 | 80 | 120 | | | |
| Surr: Phe | enal-d5 | | | 10 | 102 | 80 | 120 | | | |
| Surr: Ter | phenyl-d14 | | | 10 | 104 | 80 | 120 | | | |
| Surr: 2,4, | 6-Tribromophenol | | | 10 | 105 | 80 | 120 | | | |

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Colorado Analytical Laboratories Inc Project: 170324007 Sterling Ranch MD Report Date: 04/06/17
Work Order: C17030850

| Analyte | | Result | Units | RL. | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-------------|-------------------|----------------|---------------------|-----------|------|-----------|----------------|-----|----------------|-----------|
| Method: | SW8260M | | | | | | | - | Analytical Rui | n: 108173 |
| Lab ID: | CCV-108173 | Continuing Cal | ibration Verificati | on Standa | erd | | | | 04/06 | /17 08:29 |
| 1,4-Dioxane | | 95.7 | ug/L | 1.0 | 96 | 80 | 120 | | | |
| Method: | SW8260M | | | | | | | | Batcl | n: 108173 |
| Lab ID: | LCS-108173 | Laboratory Cor | ntrol Sample | | | Run: VOA5 | 973A.I_170406A | | 04/06 | /17 08:51 |
| 1,4-Dioxane | | 87.5 | ug/L | 1.0 | 88 | 70 | 130 | | | |
| Lab ID: | MB-108173 | Method Blank | | | | Run: VOA5 | 973A.I_170406A | | 04/06 | /17 09:12 |
| 1,4-Dioxane | | ND | ug/L | 1.0 | | | | | | |
| Lab ID: | C17030850-001AMS | Sample Matrix | Spike | | | Run: VOA5 | 973A.I_170406A | | 04/06 | /17 09:55 |
| 1,4-Dioxane | | 194 | ug/L | 2.0 | 97 | 70 | 130 | | | |
| Lab ID: | C17030850-001AMSD | Sample Matrix | Spike Duplicate | | | Run: VOA5 | 973A.I_170406A | | 04/06 | /17 10:17 |
| 1,4-Dioxane | | 206 | ug/L | 2.0 | 103 | 70 | 130 | 6.0 | 20 | |

Work Order Receipt Checklist

Contact and Corrective Action Comments:

None

Colorado Analytical Laboratories Inc C17030850

| Login completed by: | Corinne Wagner | | Date | Received: 3/28/2017 | | | | | |
|--|--|----------------|------------|------------------------|--|--|--|--|--|
| Reviewed by: | Kasey Vidick | | Re | eceived by: ckw | | | | | |
| Reviewed Date: | 3/29/2017 | | Ca | rrier name: Ground | | | | | |
| Shipping container/cooler in | good condition? | Yes 🗸 | No 🗔 | Not Present | | | | | |
| Custody seals intact on all sl | nipping container(s)/cooler(s)? | Yes | No 🗌 | Not Present ✓ | | | | | |
| Custody seals intact on all sa | ample bottles? | Yes 🗌 | No 🗌 | Not Present ✓ | | | | | |
| Chain of custody present? | | Yes 🗹 | No 🗌 | | | | | | |
| Chain of custody signed whe | n relinguished and received? | Yes 🗸 | No 🗌 | | | | | | |
| Chain of custody agrees with | sample labels? | Yes 🗸 | No 🗌 | | | | | | |
| Samples in proper container | bottle? | Yes 🗸 | No 🗌 | | | | | | |
| Sample containers intact? | | Yes 🗸 | No 🗌 | | | | | | |
| Sufficient sample volume for | indicated test? | Yes 🔽 | No 🗌 | | | | | | |
| All samples received within h (Exclude analyses that are co such as pH, DO, Res Cl, Su | onsidered field parameters | Yes 🗸 | No 🗌 | | | | | | |
| Temp Blank received in all si | nipping container(s)/cooler(s)? | Yes 🗌 | No 🗸 | Not Applicable | | | | | |
| Container/Temp Blank tempe | erature; | 6,6°C On Ice - | From Field | | | | | | |
| Water - VOA vials have zero | headspace? | Yes 🗸 | No 🗌 | No VOA vials submitted | | | | | |
| Water - pH acceptable upon | receipt? | Yes 🔲 | No 🗌 | Not Applicable ✓ | | | | | |
| Standard Reporting Procedures: | | | | | | | | | |
| Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time. | | | | | | | | | |
| | reported on a wet weight length of the noted as —dry. For agricumple analysis. | | | | | | | | |
| | | | | | | | | | |

Chain of Custody Form

| | | | (|
|---|---|-----------------------------|---|
| Report To Information | Bill To Information (1f different from report to) | Project Name | Colorado Analytical |
| Company Name: Colorado Analytical Laboratoy | Company Name: Same | 170324007 | Brighton Lab |
| Contact Name: Stuart Nielson | Contact Name: | Sterling Ranch MD | 240 South Main Street Brighton, CO 80601 |
| Address: | Address: | Task Number (Lab Use Only) | Lakewood Lab |
| P.O. Box 507 | | CAL Task No. 0 | 12860 W. Cedar Dr, Suite 100A |
| 240 S Main St | | 170324007 | Lakewood CU 80228 |
| City Brighton State CO Zip80601 | City State Zip | 1200L | Phone: 303-659-2313 Fax: 303-659-2315 |
| Phone:303-659-2313 Fax:303-659-2315 | Phone: Fax: | ARF 10 10 | www.coloradolab.com |
| Email: stuartnielson@coloradolab.com | Email: | Disposal Date(Lab Use Only) | |
| Sample Collector: | PO No.: | | • |
| | | | |

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| 625 SOCs | | | | H | H | | | | | | C/S Charge | Date/Time: |
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| 8260 1,4-Dioxane | X | | | | | | | | | | | |
| or (Check One Only) Composite | | | | | | | | | | | | By: |
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| No. of Containers | 7 | | | | | | | - | | | | Relinquished By: |
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| Soil Sludge Compost | erling | | | | | | ! | | | | | 177 1700 |
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| | 170324007 Sterling Ranch MD | | | | | | | | | rgy La | | |
| | | | | | | | | | | to Ene | | :. 03 |
| e Water ind Wate | 08:03 | | | | | | | | | ns:UPS | | Sed By |
| Waste Water ☐ Soil ☐ Plant Ground Water ☒ Sludge ☐ Other Surface Water ☐ Compost ☐ — | | | | | | | | | | Instructions: UPS to Energy Labs | | Remaished By: |
| 3 5 8 € | 3/23/17 | | | | | | | | | Inst | | 37 |

APPENDIX F

FAWA WATER SUPPLY VS CURRENT WATER COMMITMENTS





| Analysis of Water Commitments | | | | | | | | | | | |
|-------------------------------|--|---|--------------------------|--|-----------------------------------|-----------------------|--|--------------------------------|--|--|--|
| | | | liminary Commitm | | Fi | nal Commitments | | Volumetric | | | |
| | Development | Commitment | Supply / Commitment | Letter or Summary | Commitment | Commitment | Letter or Summary | Commitment (300 yearAcre-feet) | | | |
| | | SFE | Acre-Feet | Date/Notes | SFE | Acre-Feet | Date/Notes | | | | |
| | The Retreat at TimberRidge Preliminary Plan (Central System | 167 | 58.951 | April 2018 Report | | | | 17685.3 | | | |
| nts | Only) | | | Supplement Nov 2020 |) | | | | | | |
| ine. | Final #1 | | | | 59 SFE | 20.827 | 23-Aug-20 | | | | |
| Commitments | Final #2 Final #3 | | | | 78 SFE | 27.53 | April 30,2021 | | | | |
| S | rinai #3 | | | | 30 SFE | 10.59 | July, 2022 | | | | |
| | | | | | | | | | | | |
| | Sterling Ranch Preliminary Plan Phase One | 726 | 255.96 | June 2015 Report/Summa | ary | | | | | | |
| | | | | Update February 2019 | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | Sterling Ranch Filing #1 | | | | 0 | 0 | Tracts Only | | | | |
| | | | | | | | | | | | |
| w | Tract BB (10.545) Branding Iron at Sterling Ranch Filing No. 1 | | | | 51 | 17.85 | Summary and Letter | 5355.0 | | | |
| Commitments | Branding Iron Filing No. 2 | | | | 88 | 31.07 | Revised Feb 20, 2020 | 9321.0 | | | |
| nit m | | | | | | | Residential) | | | | |
| om. | Sterling Ranch Filing #2 | | | | 61 | 21.59 | Includes 4.29 AF Irrigation | 6477.0 | | | |
| O | (49 SF lots with 4.29 AF landscaping) | | | | (61 SFE w irrigation) | | Revised Jan 21, 2021 | | | | |
| | | | | | | | | | | | |
| | Tract G (19.574) Homestead at Sterling Ranch Filing No. 1 | | | | 72 | 25.42 | | 7624.8 | | | |
| | Tract E (29.658) Homestead at Sterling Ranch Filing No. 2 | | | | 104 | 36.71 | 20-Feb-19 | 11013.6 | | | |
| | , , | | | | | | | | | | |
| | Copper Chase at Sterling Ranch | 142.9 | 50.45 | 17-Dec-21 | 147.68 | 52.13 | | 15135.0 | | | |
| | resubmittal | | 138 single family lots | | | | October 12, 2022 138 single family lots includes 1.39 | | | | |
| | | | 12/21/2021 includes 1.39 | | | | Ac Park additional irrigation | | | | |
| | | | Ac Park | | | | | | | | |
| | | | | July, 2020 Re-issue Feb 26, | | | School commitment (13 SFE) contained in | | | | |
| | Sterling Ranch Preliminary Plan Phase Two | 214.5 | 75.719 | 2021 | | | Branding Iron Filing #2 above | 22715.6 | | | |
| | Sterling Ranch Filing #4 | | | | 159 Lots (2.667 Acres Irrigation) | 51.91 | | | | | |
| | | | | | Specific Note 1 | | | | | | |
| | Homestead North at Sterling Ranch Preliminary Plan | 147 | 62.47 | Letter November 4, 2020 includes 10.58 AFs irrigation | | | Letter November 4, 2020 includes 10.58 | 18741.0 | | | |
| | Homestead North at Sterning Ranch Freminiary Fran | 147 | 02.47 | Update Letter Jan 21, 2021 | | | AFs irrigation Update Letter Jan 21, 2021 | 10/41.0 | | | |
| | W . IN A .C. II D I FIII N A | 77 | 44.24 | | | | Opuno Lener sun 21, 2021 | 12202.0 | | | |
| | Homestead North at Sterling Ranch Filing No. 3 | (5.65 acres irrigation) | 41.31 | Letter dated June 10, 2022 | | | | 12393.0 | | | |
| | | | | | | | | | | | |
| | Sterling Ranch East Preliminary Plan No 2 (Foursquare) | 158 High Density Units (1.424 acres irrigation) | 50.73 | Letter dated June 10, 2022 | | | | 15219.0 | | | |
| | (1 oursquare) | (1.424 deres irrigation) | | | | | | | | | |
| | Sterling Ranch East Preliminary Plan No 3 | 246 High Density Units | (7.7 0 | | | | | 20254.0 | | | |
| | (Villages) | (1.934 acres irrigation) | 67.58 | Letter dated June 10, 2022 | | | | 20274.0 | | | |
| | | | | | | | Note prior commitment for | | | | |
| | Sterling Ranch East Preliminary Phase One | 761 | 322.66 | Letter dated June 10, 2022 | | | elementary school in Branding Iron No 2 | 96798.0 | | | |
| | | (28.31 acres irrigation) | | Revision October 3, 2022 | | | | | | | |
| | | 35 acre K-8 School | | | | | | | | | |
| | | Total | Findings at Prelin | ninary | 7 | Total Findings at Fin | al | | | | |
| | | Units | AF | | Units | AF | | | | | |
| | Total Active Commitments Either actual Finding of Sufficiency or | | | | | | | | | | |
| Totals | anticipated Finding | 1550 5 | 679.42 | | 500 F | 104 700 | | 250552.2 | | | |
| 은 | | 1770.5 | | | 523.7 | 184.768 | | 258752.3 | | | |
| | | | | | | | | | | | |
| | | | | T-4-1 A C | (A.E.) | 864.19 | | | | | |
| | | | | 1 otal Active Co | ommitments (AF) | 004.19 | | | | | |

Specific Note 1; Lolts 147-157 were previously platted as lots 22-32 Sterling Ranch Filing No. 2 Water was committed under Sterling Ranch Filing No 2

General Note 1. As of January 1, 2022 the Falcon Area Water and Wastewater Authority is managing all water among various Districts, who are participating agencies. Therefore, water accounting changes were adopted on January 1, that do not separately balance or account for separate water accounting within the respective area. Going forward, the commitment sheet will be streamlined by simply adding the total commitments across the FAWWA participating entities.

General Note 2; Sketch Plans do not have hard commitments and are not shown here. Subdivisions can either have a finding of sufficiency at preliminary or final plat stage. Water reports/commitments are sometimes submitted at both stages, even though suffuciency might be achieved at different stages. In order to attempt to track this possible discrepancy we will show the active water commitment in yellow highlight as best as possible. Summation of active water commitments will only track the totals highlighted in yellow. If/when a submitted preliminary plan commitment does not result in a finding of sufficiency and an ensuing finding occurs at final plat, only the final commitment will be tallied.

General Note 3; Yellow highlight signifies applicable commitments, where commitments have been over-riden, changed or modified and are no longer active, they are not highlighted in yellow

JDS-Hydro a Division of Respec

APPENDIX G

WATER SUPPLY SUMMARY FORM





WATER SUPPLY INFORMATION SUMMARY

Section 30-28-133,(d), C.R.S. requires that the applicant submit to the County, "Adequate evidence that a Water supply that is sufficient in terms of quantity, quality, and dependability will be available to ensure an ade

| 1. NAME OF DEVELOPMENT AS PROPOSED <u>Copper Chase at Sterling Ranch</u> | | | | | | | | | | |
|--|---------------------|--------------------|------------------------|----------------------|------------------|-------------|--|--|--|--|
| 2. LAND USE ACTION | | | | | | | <u>Subdivision Plat</u> | | | |
| 3. NAME OF EXISTING PARC | EL AS RECORD |)ED | | Tract G S | Sterling Ranch I | iling No. | <u>1</u> | | | |
| SUBDIVISION | See Above | FILING | <u>Preliminary</u> | BLOCK | <u>All</u> | Lot | <u>All</u> | | | |
| 4. TOTAL ACERAGE | <u>19.67</u> | 5. NUMBER | OF LOTS PROPOS | ED | <u>138</u> | PLAT M | APS ENCLOSED YES | Subdivision Plat | | |
| 6. PARCEL HISTORY - Please | attach copies of de | eds, plats, or oth | er evidence or documer | ntation. (In submitt | al package) | | | | | |
| A. Was parcel recorded with | county prior to | June 1, 1972? | | | YES 🗸 | NO | | | | |
| B. Has the parcel ever been p | art of a division | of land action | n since June 1. 197: | 2? | | | YES V NO | | | |
| If yes, describe the previous | | | | | | | | | | |
| 7. LOCATION OF PARCEL - Include a map deliniating the project area and tie to a section corner. (In submittal) | | | | | | | | | | |
| _East OF NW | SECTION 33 | 3TOWN | SHIP <u>12</u> | | | | N✓S | RANGE <u>65</u> E W | | |
| OF 1SECTION | TOWNS | SHIP | | _ | | | | | | |
| PRINCIPAL MERIDIAN: | | | ✓ 6TH | N.M. | UTE | | COSTILLA | | | |
| 8. PLAT - Location of all wells | on property must | be plotted and | permit numbers pro | vided. | | | | | | |
| Surveyors plat | | | YES | ✓ NO | | | If not, scaled hand -drawn sketch | S NO N/A | | |
| 9. ESTIMATED WATER REQU | JIREMENTS - Ga | allons per Day | or Acre Foot per Yea | r | | | 10. WATER SUPPLY SOURCE | DENVER BASIN | | |
| | | | | | | | ✓ EXISTING DEVELOPED | ☐ NEW WELLS | | |
| HOUSEHOLD USE # * | 138 | of units | 43,489 | GPD | 48.71 | AF | WELLS SPRING WELL PERMIT NUMBERS | Proposed Aquifers - (Check One) ✓ Alluvial ✓ Upper Arapahoe | | |
| | | | | | | | | ✓ Upper Dawson ✓ Lower Arapahoe | | |
| COMMERCIAL USE # *** | 0 | _Acres | - | GPD | | AF | <u>LFH 80131-F</u> | Lower Dawson 🗸 Laramie Fox Hills | | |
| | | | | | | | <u>Arapahoe 80132-F</u> | ✓ Denver Dakota | | |
| IRRIGATION # ** | 1.368 | _acres | 3,054 | GPD | 3.42 | AF | | Other | | |
| | | of head | | | | | | outer | | |
| STOCK WATERING # | | - | | GPD | | AF | ✓ MUNICIPAL | | | |
| OTHER | | | | GPD | | AF | ✓ ASSOCIATION | WATER COURT DECREE CASE NUMBERS | | |
| OTHER | | | | GFD | | АГ | ✓ COMPANY | <u>08 CW-113; 08 CW -018</u> | | |
| TOTAL | | | 46,543 | GPD | 52.13 | ΔF | DISTRICT | Numerous | | |
| * Household Use include: | s Indoor at 0.1 | 18 AF/SFE a | | • | 02.10 | AI . | | <u>Numerous</u> | | |
| ** Cus all Daule 4 20 au | | at 500/ as | | ativa landasan | | | NAME Sterling Ranch Metropolitan E | District #1 | | |
| ** Small Park 1.39 g plus tracts irrigation | | | | | ed area; | | LETTER OF COMMITMENT FOR | | | |
| | | | | | | | SERVICE YES NO | | | |
| 11. ENGINEER'S WATER SUF | PPLY REPORT | | ✓ YES | NO | | If yes, ple | ase forward with this form. (This may be required before | or our review is completed) | | |
| 12. TYPE OF SEWAGE DISPO | SAL SYSTEM | | Central Sewer | | | | | _ | | |
| SEPTIC TANK/LEAC | H FIELD | | | | | CE | NTRAL SYSTEM - DISTRICT NAME: | Sterling Ranch Metropolitan District #1 Falcon Area Water and Watsewater Authority | | |
| LAGOON | | | | | | ✓ VAL | JLT - LOCATION SEWAGE HAULED TO: | - Authority | | |
| ENGINEERED SYST | EM (Attach a | copy of eng | ineering design) | | | ОТІ | HER: | JDS-RESPEC 10/12/2022 | | |